Vol. XXXVI. WINNIPEG
You Cannot Doubt It.
DR. warnocks Ulcerkure



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EAgtren Opfici:
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City people are leaving town and are pitching
their tents on the greensward. Why not the farmer? Take a tent and the family and go and camp near the Brandon experimental to stay a week : there is plenty to amuse and instruct one at the Farm.

The rains came opportunely, and now the entire summer-fallow. There will likely be a heavy dockage for weed seeds, as a result, when the crop reaches the elevator next fall. The fanning mill and the farm
boiler will come in very handy then as moneysavers.

Your agricultural society is probably holding a summer anr this month. Encourage your boys and
girls to show something at the fair, and let them eep their winnings.

Sometimes the following excuse is given for being without a garden at the farm: "Oh, the hens
scratch up the seeds." Why not confine the hens, then: A few yards of wire meshing and a dozen
posts will make a good yard for them, and the

Has the wife a washing machine If not, why not: The muscles of the farmer would not be hurt
by a little practice at the crank, and the work
would be lightened at the house. Tion many of the would be lightened at the house. oon many of the farmer looks quite Gesh and rugged. Houses are
hot places to work in the e days, especially as fruit-
canning, cooking and ironing have to be attended canning, cooking and moning have to be attended
to.



The Tuberculin Crusade and the Cattle Breeders.

It is to be feared that a very large number of our attle-owners have not yet realized the real signiticance of the tuberculin-test crusade. Its dangers have not been fully discerned. The original con ception seems to have been that by its use animals with tubercles in their bodies could be entirely eliminated from the country. An elaborate treatise on this subject issued from an American experiment station a while ago disclosed the nature or the design, in the quaranining of cattle showing a rise in temperature. In a recent annual report. Dr. D. McEachran, head of the Canadian Live Stock Inspection Department, asserts that "with a moderate expenditure to enable us to at once get rid of all those showing smptoms and so presumably infective, fattening the others and quarantining them for life, this disease can be completely eradicated." Cannot the farmer and stockman perceive the true character of the system which a little clique of officials would fasten upon them for the benefit of themselves and the manufacturers of tubercuin? How would the breeder and farmer relish the prospect of suphe to periodically give their cattle hypodermic injections, or, as one writer graphically puts it, "pump boison into them?" Even supposing there were no risks of abortion in pregnant animals, or other subsequent injurious effects, it would be very much cheaper and better for the country to simply pension off these officials at once. For the general farmer and dairyman the system is optional now, but how long will it remain so? The evident, logical design is
To make it general and compulsory, as it is upon the breeders who desire to import or to export pure-bred animals to the United States. Grades and scrubs go there without a test! But when an enterprising American comes along wanting first-class cattle, and who does not want them ested, he cannot get them without a dose

## MISLEADING TEST.

A scientific test, what rellace is to be placed upon a tuberculin injection? The Dublin experiments showed that it both condemned the innocent and let off the guilty, the extent of error amounting to $17 \frac{1}{2}$ per cent. ' Even Nocard, of France, does not claim that reacting animals are always tuberculous. The investigations conducted by the Royal Agriextent of 17.64 per cent. Tt is not contended that an injection of tuberculin, which is a fluid lymph prepared from the tubercle bacillus itself, passing through the animal system will not by its effects on the tissues or cells cause the temperature of the animal to rise; in other words, occasion what is called a "reaction." It is said that a tubercle the size of a millet seed anywhere in the system would occasion that effect, but should that condemn the animal? Speaking of human tubercles, Prof. Wim. most eminent medical practitioners and pathologists proportion of all persons at the age of forty have, somewhere in their bodies, tuberculous lesions, This was discovered by large numbers of postmortem examinations of persons dying of other ailments or accidents, or probably of old age. The variation of animal temperatures under ordinary conditions, and without any injection of tuberculin, is remarkable. Our attention has been called to a
very careful test made with a Canadian stable full very careful test made with a Canadian stable full of cattle, of which from five to ten per cent. of their number gave a reaction, without any injections, of
from two to three degrees, and all evidently in perfect health and on regular feed. And yet the veter inary branch of the Dominion Department of Agriculture presumes to condemn and throw upon the rises two degrees or more under the tuberculin test during the 48 -hour period! And this, too, in the name of science! One cannot
 As every well-informed stockman knows, there are
many reasons that will cause a sudden rise in animal temperature, such as indigestion, slight cold, Wranything causing a feverish condition. Floyd. repuhlish elsewhere, states that wifur the tuberculin has been injected into a cow. .ow change in
the regular current of her life way inme phace for the regular current of her life may inme place: for
example, a rise in the temprom of the air,
exertion on the part of the animal, privation of water at the usual time, retention of milk at the usual milking period, coming in heat ; in fact, anyChing that tends to excite the animal may cause a easy matter it is, then, for officials who are lookin for reactions, and whose occupation, like Othwing would be gone without them, to secure athello's, casional rise in temperature with perfectly healthy animals. With all these chances against him, and stringent orders, with heavy penalties, requiring quarantining from the rest of the herd for the remainder of its life, or else slaughter of every animal that reacts, how long can any breeder continue a trade in breeding stock with the States without getting loaded up with valuable but condemned cattle? The Government could hardly have devised a more
icious move against the interests of the breeders
of Canada. It will prevent new men from going into breeding improved cattle, and tend to stop those who have started increasing their pure-bred herds. Not only so, but it has come to our hearing that in some way or other those who are manipulating the Washington end of the tuberculin-test business are becoming posted as to the results of the testing of some of our zealous inspectors, so that if they need any excuse to shut out Canadian cattle absolutely, they can soon get it. Within their own borders the test is a of wis fad oreeders, but for the sake of this fad the Canadian authorities are being used as cat s-paw. Thus far, has done little but damage. The contention that it is imposed as a protection to our breeden an insult to their intelligence.

A word with regard to the compulsory quarantining on the farm for life of reacting animals. A gentleman who the tuberculin test, stated at the Ottawa conference on tuberculosis, in Fehruary last, as a result of his investigation, that he did not agree as to the necessity of isolating reacting animals; also stating that his reacting cattle had not failed or become emaciated; in fact, they seemed just as sleek and good conditioned as the others. Four years ago a herd of 29 Jersey cattle were tested by a veterinarian, acting for the Dominion Department of Agriculture, and 16 reacted. They are all alive and well yet, and no better looking herd is to be seen, and not under quarantine, either. Dominion officers report 1 ,2u reactions, chieny in suspected we can learn, the gurantining of them has been in wa can only, Why then, impose it upon breeders? The test system is on a par with the costly 90 -day quarantine imposed on breeding cattle imported from Britain,
the abominable condition
of which some time ago was exposed in our issue of May 1st last, one breeder reporting that his animals had got both foul in the foot and vermin while confrom there. The idea is to prevent cattle disease from getting into Canada, and yet animals, after and out the identical lane through which fresh arrivals had come in!

What, then, is to be done with this useless and injurious tuberculin-test system? We are of opin ion that so long as the Canadian Government main tains it against Britain and the United States, just so long will the States be enabled to keep it up against canada. There is no doubt that Hon. John Dryden hit the nail squarely on the head when he last, that themes Abocate, on the a blunder and the sensible and proper course for the Dominion Government, that first imposed the regulation, should be

That is what Hon. Mr. Fisher should do now, and fortunately, it can be done without reference to cattle cattle-oreeder's meeting in Guelph at the last wor show, on the motion of Mr. Arthur Johnston meeting in Feliruary the breeders were assured on meeting, in Fehruary, the breeders were assured, on checilly forthcoming, so they refrained from going in hody to Ottawa. How has the promise been The staff of regular departmental officers to Wonk hat bee increased in Canada, with Dr. s. $\quad$ ond 8. An atringent enforcement of regulations

The Duty of the Patron of the Cheese
Factory The patron of the cheese factory owes a duty to tuseif and tho the other patrons fin that he shoula
trive to send his mik to the factory in the best ososible condition for the manufacture of the
fest quality of cheese. It is in the individual interest to do so. The competition is now so keen in the markets of the world -and every one catering
in the wants of the public is trying to do his best in to the wants of the pubicic is trying to do inis best in llacing the best arketece that asa matter of necessity
 No matter how clever or competent or painstakivg them in the best condition they
The cows shoull have free access at all times $t o$ running spring or good well water and salt. They
hoold have an abundance of succulent. nourishing food, whether it be ensilage, natural, grass, clover
foasture, mangolds and hay, chop or bran, or whatpooature, mangolde a and hay, chop or bran, or what-
dever may be in season. We milk in the st
est place and saves time and helieve it to be the best place and eaves time, The statio shoud be be
kept clean and well literered with straw or chaft. The cows should be miliked reeularly by the same persons, at, as near as possible, the same time night
and morning. The cows should be handled very gently and al ways stripped clean.
The milk stand should be placed in a convenient place, away from all bad odors and where a current
of pure air will pass if there is a draft. We strain the evening's milk through an aerator, which spreads the milk in smalli, jets, thereby letting off a great amount of the animal heat, and the milk
should be stirred untii all the animal lieat has been taken out. It is a good plan to place the can in a tuk of oold water, but the milk tub ot dei stirred at the same time
sha oult
as coling
without stirring does not

 Thisis pressed down in the can of
milk and raised up quickly and held
 run out through the smal hiles.
the atmosphere is pure, this does very well. but if there are any bad
bodors in the iir. the milk has great oorss in the air, the milk has great
assimiative powers and will be apt tos tate up any y bud germs that may
be floating about. be floating about.
When seting milk for hutter, we desire the cream to rise to the
cop, but in keeping milk for the
 incorporated with the milk as it it from rising to the top, as the cream that is separated from the milk ie apt to run off in the whey. degrees.
There are erious devicest for
stirring milk, one of the the teteste being an arrangement of up will been stirring the wilk nearly wall niegt it wished. This will pay better
where the milk is paid for hy the
wher Where the milk is paid for by the
result of the Babocok test resuat ooth be beorenet labor-s.ever,
aespecilly in having and harvest. andecially in haying and harvest
The morning s milk should be put
The into a separate can, and should not
be mixed with the evening's milk.

Firious divivig of milk wayns to the factory
should not he tolerated, and $\overline{\text { nif }}$ honest man will shoule not he toierated, ander or hemest e cream.
adulterate his mik with water or rem Where whey is returned to patrons in milk cans
it should at once be emptied out into a swill barrel at or near the pigpen, where the cans should b Washed with lukewarm water, then carried out to the milk stand and thoroughy sealaed with ot in
water, then rinsed with cold water and set out the sun and wind.
When, going to mikk, it is a good plan to empty a pail of cold water from the well into the can ant
leave it in until the milk king is done, then empty


Tuberculin Test Temperatures. A young cattle.breeder enquires: "I would be obliged if you the rise in temperature is determine condemning an animal under the tuberculin test? [The latest directions sent out to inspectors that department require five temperatures, three hours ayart, to be taken before the tuberculin is
injected into the animal, and six after wards. The highest of the former is compared with the highest of the latter, and if a rise in temperature is shown of two degrees or more, the unhappy animal is con-
demned. The whole performance is forty-eight

Harvest Help Wanted In view of the probable scarcity of harvest
hands, those requiring extra help should send in requisistions at once to the local Departme
culture for the number of hands wanted.

 The directors of the Calgary Exhibit which as noticed elsewhere, is to be held on July 10th to 13th, have made very satisfactory arrangement
with the Canadian Pacific Railway Co. re the ship with the Canadian Pacific Railway Cor re the ship-
ment of pure-bred stock to the Exhibition, the mentway company having agreed, in the case of pure bred horses, sheep and swine shipped to the Exhi bition in carloads and soLD, to reduce the inwards course, the regular arrangement regarding certificate of registration of the animals will be enforced. In the event of none of the animas being sold, and all returned to original owner at original shipping inwards freight charges will be made. This favor able arrangement should certainly be a great
inducement to breeders desiring to exhibit at inducement to breeders desiring to exhib
Calgary with the expectation of selling stock.

Cleanliness in Handling Milk.
$\qquad$ ith the average dairy farmer's practice, especially those who send milk to cheese factories, that quite a high percentage of them do not strain the milk at all. They know it will be strained before it goes into the vat, and claim to consider that is straining enough. These same patrons, as a rule, are no
careful to wipe off the sides and udders of the cows they may even wash their teats with the cow's own milk, and think it harmless to milk with dirty hands. These are the causes of many bad flavors in cheese and, so far as
Though the straining of milk, either in the cow shed after it is drawn from the udder, or in the ment, may be of some service in ridding it of any large particles of dirt or other matter which it may contain, it is of but little use in preventing the entry of the tiny
dust grains, which. after all, con dust grains, which, alter all, con-
stitute the great bulk of the filth which dirty milk contains. The effect of straining, so far as these was well shown in an experiment ecently carried out at one of the American agricultural stations. this experiment it was found that cleaner so far as the larger particle of dirt were concerned, it proved of but very little advantage in ex duding the bacteria which, as is
well known, are chiefly conveyed through the medium of dirt. It was found that about 60 per cent.
of the dirt from the manure and of the dirt from the manure and prove of any service in deprivin he milk of this soluble material With the object of testing to what way into milk, trials were made with apertures only six inches in width at the top, and into others
with from two to three times that extent of opening in the pail. With the six-inch opening it was found
that the number of germs present in a certain quantity of milk was into the ordinary pail with drawn
he children until it was becoming sour. It would be a godsend if.these people could be induced
to use pasteurized milk, but they were he was
afraid, the very class that would make least nse of it.

## Blyth Farmers' Institute

This flourishing Institute held a technical session une 21st, on the farm of Tully Elder. The plowing interest. A full report appears elsewhere of the awards and work of the plowmen. The inner man was looked after ably by the ladies, whose work Among the visitors was Hugh Mckellar, uture-study address on the grasshopper. The habits of this pest, their methods of reproduction, the recognition of the sexes, together with un by the R. G. O'Malley, Provincial Weed Inspector, remarked on the great prevalence of peppergrass, and stated the causes for that prevalence. He sigg under, cultivate frequently during the summer, and then give a light plowing in fro Portage, Oak Lake, and Alexander. A wrinkle noticed in use by one of the plowmen was a small skimmer set a little dis. tance in front of the rolling colter, which had the
effect of cutting the weeds just below the ground effect of cutting the weeds just below the ground
On the same plow was a piece of stiff wire, fastened to the plow beam at right angles, extending the width of the furrow (it might, perhaps, be useful as
a gauge), which also helped turn the weeds down
and rendered the use of a chain for that purpose and rendered the use of a chain for that purpose
unnecessary.
op, the number of bacteria present worked out narrow-mouthed The advantage of using the ing the bacteria in this case was well shown by the fact that whereas the milk drawn into the narrow-mouthed vessel did not go sour until
after being kept 64 hours, that milked into the open pail-and subsequently found to contain
43,000 odd bacteria - went sour in 47 houps The experiment, therefore, afforded an excellent illustration of the great advantage of keeping the milk clean, and of having the surroundings of the stables or of other departments in which the
animals are kept as free from dirt as possible.

Supplementing Skim Milk for Calves. In these days of cream separators and thorough economical way of enriching skim milk for calves. The Furmer's Gazette states that a grain mixture which was used with much success at the Munster Dairy School as a substitute for the butter-fat abstracted from milk in the process of separation
consisted of $\frac{1}{2} \mathrm{lb}$. to 1 lb . daily of a combination of qual parts of linseed meal, bran, and oaten meal. A commencement was made with these by giving he calves $\frac{1}{2} \mathrm{lb}$. of the mixture and then the allownce was gradually increased as the age of the
animals advanced until when five to six weeks of age they were given from 1 lb . to $1 \frac{1}{2} \mathrm{lbs}$., according to size and other conditions. It is better, however, do allow the calves to eat the mixture dry, so that it milk : otherwise, it will tend to le carried past the first and even the second stomach hefore digestion

Large Farms and Their Management.
The live stock on this farm is well known by all fair-goers as winners in the show-ring. The methods of show-yard bloom are probably not as well known property of the Hon. Thos. Green way, ex-Minister of Agriculturie, whose ambition to be not only the farmer premier of the Province, but also the premier
former of Manitoha, has been prette well ac-
complished. In such an undertaking the manage ment demands foresight, a thorough knowledge o live stock and farm practice, such attributes being found in the person of that show-yard veteran, Jas Yule; comment on the live stock is reserved for the
Gossip column. Twelve hundred acres of land is broken and in crop, 300 being in wheat, fou hundred in oats, 200 in barley, and ten in peas besides other crops. A feature of the farm is the
attention given to tame grasses. While the greater part of the farm is new land, there were some of the
older portions whose crop yields were very disapplder portions whose crop yields were very disapof which is applied during the winter, the y yield was greatly increased, and spots showing any
alkalitendency became quite productive. Arotation alkali tendency beceame quite productive. A rotation
somewhat as follows is worked out: two crops of wheat, one of oats, one of barley, seed down Grass will gradually dispossess the summer-fallow which this year amounts to oloo acres. The method of seeding down is unique. Brome grass and Two pounds of Brome (the manager will increase i to four or five pounds) is mixed with the barley and own, the timothy, five pounds to the acre, being our visit we saw a field sown in this manner, the yield of which promises to be enormous.
As native pastures (when once fenced) are only a
poor excuse at the best, that land at present in the native grass will be broken and disked, and then seeded down by the method already described Four-horse teams are used on the plows and seeders,
three-horse teams on the binders and roller. Eleven men are employed during the summer. The year rom $\$ 200$ to $\$ 330$ a year with boara, the fencing is largely used on the farm. The weeder is The pure-hrede far
shires in cattle, Berkshires and Yorkshires in pigs A few registered mares and two Clydesdale stallions make up the stud. A trial was made in wintering by some pigmen. This procedure is not, however thought very highly of by the manager. The poultry end of the establishment is not neglected, a
flock of Barred Rocks of considerable merit being built up. Some tree-planting is done, more with buit up. Some tree-planting is done, more with
the view of ornamentin the homestead than of
providing wind-breaks providing wind-breaks. Windmill power is used to a considerable extent at the farmstead. Four
binders are used to cut the crop. The live stock sinders are used to cut the crop. The live stock and 3 S. horses. Recognizing the vatue, of skitled
help, Dr. R. i). Surfield has been engaged as help, Dr. R. D. Scurfield has bet
veterinarian to the establishment.
The summer-fallow is plowed shallow about the The farm employees get up at $4.45 \mathrm{a} . \mathrm{m}$., and brea fast at 6 a.m. Dinner is called at noon, one hour supper hour. Teamsters work meal; 6.30 p.m. is the the field. The stockmen necessarily have longer hours, their charges calling for constant attention,
the working period often running up to sixteen

## Repert of Agricultural Department,

The report of U.W. Peterson, Deputy-Commis. This report contains a lot of information of value to the setcler or the person intending to settle in that
territory. Noxious weeds come in for consid attention at the hands of T. N. Willing, Chief
Inspector. The importance of this line Inspector. The importance of this line of work
cinnnot be overestimated, as unless weed tion is looked carefully after at the start, a large amount of money and energy will need to be e
pended to get rid of the weeds. The agricult societies are reported as flourishing, mention also
being made of the furnishing of being made of the furnishing of judges by the department-a very good move of up-to-date char-
acter. Dairying comes in for some attention, and the effect of the farm sepparar or commented upon, it
being shown the amount of creaum increased being shown the amount of cream increased, while
the amount of milk supplied fell. The cattle indus try is reported to be in a flourishing condition
witness the high prices paid for stuckers regarding the shipment of pure-bred louls to the Sheep are not increasing in inumbers, it ithough the table of comparative prices for hogstut asdmon. and Winnipeg is siven, which could he improved by
a little different artangement of the columns figures, by putting the live tumt of the columns of of ech place
side by side. The army rmount question is



## One of the relics showing bacteriological develop

 ment is the use of the term symptomatic develop Such a term, like many others misapplied in the dawn of scientific research, is unfortunate in it use, and would be better abandoned atto The germ name of the casual agent of blackleg is bacillus sarcophysematos boris. Blackleg-infested carcasses are harmless to man; anthrax are ""Priar to the diseovery in 1850 by Paste of vaccine virus which would protect stock agains anthrax, this disease and that known as blackle The fact, hed to be one and the same complaint case conferred immunity against blackleg led scientific investigation, which demonstrated beyon a douth that anthrax and blackleg were distinct following Pasteur's discovery of anthrax vantin that three eminent French scientists, Arloing Cornevin, and Thomas, working conjointly, dis Pasteur blackleg vaccine which affords known a perfect immunity against blackleg. The Pasten method of live stock vaccination and the origina in rench vaccines were introduced into North America preventive vaccination has steadily gained popular ity, the success of the same being unquestioned. vaccine only protects andinan with Pasteur anthrax cination with Pasteur hackleg vaccine only ne vac against blackleg, it is a matter of great importance blacklep stock-raiser to know whether anthrax or physkical symptoms of anthrax and his stock. The some respects similar, so mistakes in certain cases m ight occur, and the vaccine for one disease be employed to prevent attacks from the other, and cause the stockman to of beneficial results might vaccination, and result in further losses at some future time. There are certain differences between these diseases which are plainly marked, a brief stock-owners. From the fact that the interest to symptoms of anthrax and blackleg are perhapscommon to each disease, and also occur in the case Common to each disease, and also occur in the case all the ante-mortem symptoms, hut only to particular attention to such symptoms as are char acteristic of each complaint, briefly stating the stress on the post-mortem an laying particular these that the chief reliance must be placed on thrax, also known as charbon, carbuncular fever and braxy, is one of the most dangerous and infectissues by a spore-bearing micro- rivanism or the the bacillus of anthrax. Almost all forms of animal life are susceptible to anthrax; it occurs in nearly losses among cattle horses is responsible for large Blackleg, also called symptomatic anthrax and quarter evil, is also due to germ infection: the germ of blackleg, however, is entirely different in disease also is strictly an affection of cattle usually attacking calves or voung cattle under eichter months of age. In rare instances, sheep and goats have been known to contract blackleg: other
species of animals, however. such ac horsen specles, ore animus,
mules, are not susceptible to blackleg as horses and anthrax, when swellings occur they do not contain pus, nor do they crepitate (have a crackling sound) ings or tumore situated either in the fore or hind quarter. They are insensitive to the touch and always crepitate on passing the hand over them. In anthrax, the dis with blood. This is not the oase in blackleg. "poost-mortem of A A the ran. Curcass.-On cuttin noticeable. The blood is black in color, does no the air. The linings of the chest and abdomina cavities are dotted with red spots, these being par-
ticularly noticeable on the capsules of the kidneys. liver and heart. The muscle tissue readily sepa is filled with black lifuid solt and naboy. The hear relus leading from it. The most marked change three to five times its noment sian is swoflen from ering it is loosened and distended with capsule con pulp is soft, semi-liquid in character and dark red in
color. The lungs are congested and filled with watery serum. The cancuass becomes cold very
 siaturated with blood and serum, and swollen by apemenco gases, which give the tissues a frothy

spleen is
Marked Differences. -1 . In anthrax the is alwarkleg the 2. In anthrax the blood is black, tarry and b does not coagulate or change its color on ing in the vicinity of the tumor, is normal, ex.m. coagulates and oxidizes (turns red) on exposu the air. 3 . In anthrax, the swellings, when the occur, do not crepitate or crackie on pressure. In present. 4. Then, again, anthrax when it oco present. 4. Then, again, anthrax, when it occurs,
seldom confined to one species of animal ally attacks horses, mules, cattle, sheep and goat
indiscriminately, Blacklec is usualy young ent anckeg is usually confined to rarely sheep and goats.
INever in any case should a post-mortem be he on an anthrax victim. The risk to the operator is
too great. - FD. F. A.j

Agriculture in the Rural Schools
In Manitoba, the attempt to teach agriculture in for reasons which it is not necessary to mention a this time. The illinois people have tackled the question, and have decided to call upon the schoo
teachers to help stem the tide of farmer boys to the cities. In some pmigration o it is said that the attendance has fallen off at the country schools in a starting manner, almost threatening their extinction. With the idea of
lessening the outgo, an effort will be mado the standards of suchit schools. To provide a practi cal course of instruction, of real value to boys on farms, the pupils in the rural schools will be asked to answer such questions as the following
What kind of cattle, horses and shee
n your township? Where, on horses, does a spavin grow? What does knee-sprung mean? What farm, garden and orchard plants will produce only
from seeds: Tell what is a day's work lowing: Plowing, cultivating corn, cutting wheat with binders, shocking corn, threshing? How much grain was marketed last year, and how much fed, was it worth at market price? D Describe and the ases of cattle, hogs and sheep, and tell which is the thost useful to man, and why? What fruits and When the boys on the forms run the market? such a list of cuestions, how many can answer every one of them? In case of failure does it appear to to be If farmerse the farm is a dull and uninteresting place? correctly, what about the city boys to the questions idea that farm life is slow and country people lack ing in means of development and progress ? rural districts of Illinois will be asked the strawberry plants and observe their to set out make a collection of leaves from the trees of the neighborhood. They will be asked to write a completo dese stripty of an some wise and make drawings of all its parts. plat and Write a history of the farm; draw a ground plan of the barn; tection the farm yelas; make a col lection of all the seeds and grain grown in the
vicinity ; examine carefully and identify all the weeds; watch for the first buds and birds, and keen a record of the appearance of each; plant, in pots, and see if they. All this course grow. into months, so as not to to much to do at once. It is safe to the scholars too and girls get to on the Illinois farms when the boys and arithmetic will not fall into writing, geography dition with this lively course alongside to quicken This will give a practical test as to faults in the system of education test are responshethe the exodus of the boys from the farms. It would be a fine plan for the farm lads, and the city lads a. well, in other States, to try this system of question
on themselves to see how much they about important things which are sometimes passed

Summer and Fall Fair Dates


Oak Lake Plowing Match.
The Hood farm, 1 mile north of Oak Lake, was
jee scene of an extensive jousting between the knights of the plow, Jdresses the proceedings by addresses on seasonabie agricul-
turat topicis Ry Reeve hisholm, T. T. Todd, and the
Provincial Weed Inspector. Satisfactory work was Provincial Weed Inspector. Satisfactory
done the rewards being made as follows:
Class 1, men's 14-inch walking plow, open-1st,
Wm. Croy, Brandon, 83 points $;$ nd, Jas. Suther. and, Brandon, 82 points; 3rd, Wm . Turner, Carroll, 81 points : 4th, F. W. Chappel, 48 points.
Class 2, men's 14-inch walking plow, open only to
 points, 3rd, W. A. Crowley, 63 points; 4th, James
gillespie, 50 points. Gillespie, 50 points.
Class 3, men's 16 inch walking plow, open-1st,
Thos. Hill, 74 points; 2nd, John Scott, 70 points. Class 4 , men's 16 .inch plow, open to those who points ; 2nd, F. Lee, 64 points; 3rd, E. Folton, 67 points; 4th, R. Gilroy, 55 points.
Class 5, gang plow, open-1st, John Goodwin;
74 points; 2nd, Allan Ross, 68 points ; 3rd, James 74 points; 2nd, Allan Ross, 68 points; 3rd, James
Smith, 07 points; 4 th, L. Nelles, 68 points; Jth, R . Class 6,14 -inch walking plow, open to young men
nder 20 years of age-1st. Leslie Wisner, 67 points: under 20 years of age- 1 st, L
2nd. Willie Spiers,
88
points.
Class 7, 14.inch walking plow, open to youths under $10-1$ st, John Holt, $8+$ points ; 2nd, E. TomlinSpecial, for best-plowed ridge, for young men der $20-1$ 1st, John Holt.
Special, for oldest plow
Special, for oldest plowman-1st, Jas. Gillespie.
Several of the contestants are former winners Provincial and local matches. Holt, the boy win ner, is one of the newest importation, and was
winner in competition in Simcoe, Ontario.

## Farmers' Excursions.

The soulless nature of corporations has been so
 show, to use an old adage, "that the devil is not as
black as he is painted." The Canadian Pacific Rail way have instituted a series of excursions to the confident that such an outing, will broaden the visitor's mind, and, in the case of the farmer, make
him a more skiffull, and therefore larger, producer. That the railroa, covident from the iare to be charged, which is a low one. We can cite ad ditional' facts to prove qur point, such as the free
distribution of stud males (a move of which we did distribution of stud mates a move of which we did
not approve), the cheap rates given on pure-breds
an men to the south. Every consideration has been sown by the rair road in the prize lists of our big exhibits to fairs, and in the prize lists of our big
fairs, so that we may take it as assured that the
company is as much interested as anyone in build company is as much interested as anyone in build
ing up the country. Whereas in Ontario the initiaing up the country. Whereas the 0 . A. $O$, Guelph was taken by the Institutes, here the matter is
hein pushed by the wide-awake officials of the P. R. None of us may see eye to eye with ever move made by the management of the company,
but, at any rate, let us give credit where credit is due and render unto Cuesar the things that are
duesar's. The inauguration of farmers excursions, Cussar's. The inauguration of farmers' excursions,
which the ADvocatr has persistently preached for years, will render our people better at the Brandon Farm. While the reports of the Farm are interesting reading, and deserve more thorough stuay than
they, get, yet seeing is believing, and we are of the they, get, yet seeing is believing, and we are of the
opinion, that the excursions will become more

Plowing and Plows.
Care of the Plow. All practical men know how essential it is that the polished portions of the plov
the landside, the moldboard and share should b kept perfectly hright, thereb Whenever a plow and the tendency to clog up. Whenever a plow dry, and coated with some thick mineral lubricant,
such as is used for journal bearings, and by this means prevent rusting. Plows do not differ from other machinery. They all tend a wear hot, conse
at all. The share becomes dull and too shor quently the plow tends to run on its point. It
becomes more difficult to hold, the draft aiso becomes more difficult to hold, the draft aiso
becomes heavier, and an inferior class of work is done. It is sometimes necessary to change
is soil. When the ground is hard the wingof the share
needs to he set down and the point also When needs to be set down, and the pollow, the wing and
however, the land is wet and melow point will need to be set up more, or it will draw too deeply into the ground.
A useful attachment miniature plow), or skimmer, as we have heard it turned under, such as long stubble, coarse manure,
Or long weeds, this attachment will be found a great aid to the performance of good work. The use of
the drag chain, one end attached to the plow beand
the other end hehind the moldboard, will he found

## The Farm Well.

How often we hear that a certain farm is an water or an inexhanstible well. In many plitees the location of the buildings depends on the location of the water supply. There are certain essen-
tial features of a good well: (1) Ample capacity to supply pure, clear, cold water; (2) a location which renders it not likely to be contaninated by seepage from surface impurities; (3) a casing or curbing
which is verminuroof at the top, and, if possible, which is verminproof at the top, and, if possible,
waterproof in its upper ten or twenty feet. The waterproof in its upper ten or weatly eet. much greater than the probable demands which will be
put unon it: it should not be possible to pump the well dry with an ordinary pump. With the ordinary domestic. pump about thirty strokes are made per minute, enabling one to
pail of twenty to twenty-four pounds; at this rate about seven and a half gallons would be pumped to keep this rate up for several hours. As the domestic animals require for every 1,000 pounds Weight about a cubic foot ( 7.5 gallons) a day, the
stock-carrying capacity of a farm can be gauged to some extent by the water supply. Generally speaking, the greater the depth the greater the capacity of the well, provided the water-bearing strata nas been thenea. From experiments made, effect on its capacity, therefore in most wells little is gained by making them larger in diameter than would be necessary to allow space for the pump. As before mentioned, an important feature of
every well, where the water is intended for domestic or stock use, is a sufficient depth to prevent the quick entrance of water from the surface, and to should usually exceed twenty feet (for reasons which we shall state later), and even when water is found nearer the surface than this, it is better, if the water-bearing strata will permit, to go thirty
feet, and place the pump so as to draw from the

ersey heifer, gul baifar 142713
 ottom where the water is the coolest and freshest. to go through a depth of soil, practically filtering and time to bring about changes in it by which it becomes tree or organic matler. In the analyses of mainly on the absence of organic matter. The temperature of well water becomes of considerabl
mportance on those farms where well water is used for the deep-setting milk or cream cans. The geolog thest ground temperature is generally from twenty to seventy feet below the surface, and
between these depths the coldest waters are prohetween these depthy the coldest waters are pro-
cured. Above twenty feet the waters will be colder in winter and warmer in summer, while below the
extreme depth (seenty feet) the, water generally
becomes warmer from the internal heat of the
The well curbing is of importance, because i properly put in and of good material vermin will recommends a six-inch lap-weld steam pipe: if gal vanized, all the better. A curbing of cement tile
(somewhat similar to what is recommended for (somednalverts by Ontario Road Commissioner
road chall , or glazed sewer tile, with the joints set
('amplen in cement, ranks next in titility to the metal (steel piping. If the well is to be curbed with brick of
stone, the upper ten feet should be laid in cemen and plastered on the back to keep outh shif the curling should be carried up fifteen or eighteen being graded up to it so as to secure perfectand

For "Why do ducks put their heads in the waten
 they take themout again? To make a run on the
banks.

Col. Dent's Horse-Purchasing Tour enofited anmur is concerned, she has no resting with our own people. Lt.-Col. Dent states
that the Horse lBreeders Association was notified six weehs previous to the time of his visit, yet,so fa as we can learn, mo iknely horses The imp to get ${ }^{\text {pinen }}$ gen the British ofticer was bad, and the efforts of the late president of the H. B. A. were nullified by the apathy shown. In striking contrast with the by the Territorial Horse Breeders' Association which has persistently hammered at the remoun question, for which, as we fearn at the time o writing, they are untombecty reaping turif ie away up into the hundreds of horses from our ranchmen.) If the Manitoba Horse Breeders' Assu
 need to be enthused into it. With a grant of $\$ 200$ annually, surely the Association could afford to do some rystling with a view to getting some horses to pome un 1randon Portage la Prairie, and Winn peg. At the present time, what advertising is done is done by private parties. We understand that Col. Den. wils sop off at the pacces mentioned it there. The June 5th issue of the Advocate will
then give any person an idea of the kind of horses re-
quired, and a few hints as to how to fit them for inspection. The inspecting officer of the Manitoba Mounted Volunteers, Lt.-Col. Evans, is of the camps, that quite from the horses brought to thle be procured in Manitoba. As is well known, the considerable such an authority as Col. Evans carries contention of some, that no worses suitable for army purposes are to be found in Manitobat. Frou
amongst the get of the numerous Coach, Standardbred and Thoroughbred sires that have stood in Manitoba, there doubtless could be many picked out
 1.5 .1
15.1 . cavalry, from 15.1 to 15.2 ; artillery, 151 to
15 ages eligible are 5 to 9 years, although well-matured 4 -year-olds have also been taken. The prices vary all the way from $\$ 8$, to $\$ 120$.
Horsemen, don't neglect this opportunity!

## Food Rations for Bacon Pigs.

The production of the bacon hog has been a very proftable undertaking to the farmer of late, in spite
of the fact that "soft pork" is sometimes a result of his work. Many peeple differ as to their methods Of feeding. An Irish contemporary
follows on the feeding of bacon hogs: "When being finished for the market, bacon pigs should , be fed principally upon crushed grain or
meals of various kinds. As the finishing stage is meals of various kinds. As the finishing stage is
being reached, the allowance of soft foods should be being reached,
restricted and the proportion of grain gradually increased. A few potatoes may be given whin so large
tage, but the quantity of these must not be as during the earlier stages of feeding. Of all single foods, perhaps that best adapted for bacon produc-
tion is barley meal, though even better results may be obtained from a combination of this and other grains than by its free use by itself. A capital com-
bination of grain foods for use where the best quality of bacon is aimed at consists of three parts barley meal, two parts crushed oats and two parts corn, with perhaps a pinch of pea or bean mear thrown in. milk this mixture will he found atrat rate bacon producing food. Though this makes an adeal ration, it does not follow that it is one that can always be most ad vantageousty empoyed here and is located within reasonable distance, he will find it very difficult to make as much money with any combination or purchased foods as he can realize aits and senarated milk Both as regards the quanfity and quality of the bacon produced, our experi ence is that this combination is very difficult to im

## Horticultural Convention.

The Western Horticultural Society will take advantage of the presence of so many representative
nen thom all parts of the Province, by holding a tion Th in thany members of the Society in the city at that time who have not been able to attend the winter conventions of the Society and the occasion seems opportune for such a gather grounds, on the 1 st August, at 10 clock $p . m$. The
Session will be short, so as not to interfere with the other events of the day
Short speeches will be given by Professor S . B Giren, of the Minnesota state Agricultural College
Superintendents Bedford and Mckiv, of the Brandon and Indian Head lixperimental Parms: Professor
1Saird, President of the Society; Hugh McK Cllar, of the Department of A terested in gardening or fruit. growing should plan
their visit to the Industrial so as to include this con vention. Programmes may be secured hy writing to
the Secretary of the Western Horticultural society,
is Burtet, Department of I Mriculture, Winnipeg

Free Transportation of Exhibits to Winnipeg Exhibition
$\qquad$ local railroads have al ways been most generous in the leading fairs in the West. Realizing the importance of the Winnipeg Industrial as a means of
developing and advertising the resources of the country, what has practically amounted to free country, what has practically amounted to free
transportation of all exhibits to and from the Ex
hibition has for several yons hibition has for several years been in force. Thi
year, however, the railroad company considered year, however, the railroad company consideres
that the limit had been reached and a change must be made, so a rate of 40 per cent. of one-way yar
Was fixed The Winniper dustrial, however
with the usual enterprise
IN dits management with the usual enterprise oo its managenent, the country consequent upon last season's crop failure, to assume the transportation chaasones con all
exhibits to their great summer fair. The details of exhibits to their great summer fair. The details of
the arrangement will be similar to previous years, the arrangement will be similar to previous years,
the exhibitor paying one-way fare to the exhibithe exhinitor paying one-way fare to the exhibi-
tion, 0 per cent. of which the railway companies
refund when the exhhibits are reshin refund when the exhibits are reshinped without
change to original shipping point, and the Whin change to original shipping point, and the Winni-
peg Industrial will pay the other 40 per cent., thus peg Industrial will pay the other 40 per cent., thus
making free transportation for the exxibitor. The boon will certainly be appreciated, especially by live.
stock exhibitors.
The exact wording of the resolution passed by the Exhibition Board is as follows of the inward freight charges on exhibits from "the last shipping point, provided that such eexhibits are returned to the original shipping point
"immediately after the fair without ownership changing hands. The committee, in recommend"ing this, wish it to be distinctly undersommenen that
it is not to be a precedent, but that it is heing " it is not to be a precedent, but that it is being
"done this year owing to the partial failure of last "done this year owing to the partial failure of last money amongst exhibitors."
Work is progressing satisfactorily at the exhibition grounds, and preparations are being made for very large entry in nearly every department.
Horsemen will be pleased to learn that ments have been made in the ventiliation improve. boxes for stallions and brood mares. Three of the old cow barns with the elevated passages down the modern barn. This change has long been des the the exhibitors, and it is only to be regretted that ay the five stables could not have been altered this year. tition hem beeng comanswer the purpose nicely. There should be a good big competition am
in this department.
A very handsomely-gotten-up programme of all applicants. It is profusely illustrated mailed to with the leading features of the attractions, but With views of the City of Winnipeg. The letterpress contains a most succinct history of
and development of the City of Winnipeg.

## The Care of the Stud Bull.

 and yet. judging by the care often given that animal decreased in the ay bull we make no plea, except that he sho scrub steered at the earliest possible moment. It may be assumed that the care given should be with a view To keep the bull up to the top notch as a calf-getter. bull in a dark cell, or turning a young bull loose with a large herd of females. In the first case hemay become vicious; in the second, exhaustion of may become vicious; in the second, exhaustion of
the bulls sexual powers ensues, and the calf crop becomes a partial or complete failure.
The food rations given to the bulls service at the Ontario Agricultural College consist; ond from four to six pounds of pounds of roots,
and per day,
according to the size of the animal of service performed by them. The meal mixture part of bran. The amount of hay is restricted to about fifteen pounds per day, as it is found that some of the old bulls would eat more of it than is good for them if allowed all they will take. This
method of feeding has been employed for several ears at the College, and has been found to give
ery good results, the bulls kept upon it being active and reasonably sure, and carrying a sutingle, or, at the most, two services only sho cases, sillowed a cow during the same heat: more than that are wasteful of the bull's energies, and serve
no good purpose. A strong staff for leading the bull is essential, and may tend to prevent accidents.

## Summer-fallowing.

he havecheen interested in recent articles in i have found the following plan to give satisfaction.
 as deep as the land was plowed, then surface cultio vate as much and as often as the growth, of weeds
requires. This treatment destroys weeds, airs the
soin, and produce a solid, compact hed, so neeessary soil, and produces a solid, compact hed, so necessary
for the growth of wheat.

Canning and Preserving Time.
The realization by the young woman of to-day that the various branches of housework require the
use of the brains, making such work scientific use of the brains, making such work scientific,
will do much to remove the chafing at the home life and the longing for the counter, the factory or the cesk. In the canning of fruit, success depends which will be found to be backed up by the asser tions of America's greatest

$$
\begin{aligned}
& \text { The term canning refers } \\
& \text { fruits sterilized and hermetical }
\end{aligned}
$$

fruits sterilized and hermetically sealetables and glass jars or bottles. The word preserving refers to water, and a from sugar and Fruits are much more eamblers or jars. tables. There are constantly floating about us in with the bacteria. If a single plant or the bud of a plant alights in a favorable place, as on the under side of the lid or at the edge of the jar before the lid
is fastened down, it is quite suffieient to canse fid mentation in a can of corn or peas or in any mate rials containing sugarv The generic name of the yeast plant is succharomyces, which really means a development. For this reason, fruits canned with sugar are much more liable to fermentation than
ALI PRESERYINC
ali, preserving powders are injurious.
surgical successtul with both fruits and vegetables This does not mean simply washing and wiping the cans, it means to have them ansolutely for
sufficiently heated to kill anything that may fall into or upon them from the air. To be still more jars, and you have neglected to been cooked in the previous to cooking, and you put on the rubbers after taking the jars from the boiler or sterilizer there may be, perhaps, millions of microscopic plants on one rubber and in a few days the whole
can will be filled with fermentation. wiping the rubber would in no way prevent it it must be heated sufficiently to kill any genms that

Another word of caution will, perhaps, be wise All preserving powders, no matter under what name Common sense teaches that injurious to digestion prevent the life of a plant, or kill a dhat wil prevent all fermentation, will naturally a also preven perfect digestion. These preparations are not whole-
some. Better do without canned vegetables in the some. Better do without canned
winter than to risk one's health.
ruits and vegetables must be fresh The process of canning different fruits varies bu
little. Select perfectly sound and fresh frits they may be canned with or without sugar. Sugan takes no part whatever in their preservation, and
trequently causes fermentation. All fruits should frequently causes fermentation. All fruits should
be lightly cooked, that they may rotain natural flavor. It is wise to fill the jars to thei flowing. A A the liquid cools, it will condense, leav ing a space at the top of the jar.
Wash the jars, rubbers
rubbers on the jars. Throw the tons into the water, and bring slowly to boiling the tops into eold them to stand in this boiling water until you are ready to use them. They must be thoroughly
covered with water. Twirl the jars also in boil. ing water: Be sure that you plungge the whole jar
down, filling it entirely, or it will crack. over the frum very carefully, wash, put into the jars the bottom of which has been protected wish-boiler, or strips of wood. Surround the jars partly with
cold water, put on the lids loosely, but do not fasten them down. Cover the boiler, and bring to boiling point. Boil the small fruits ten minutes from a third, to allow for the condensation.
Lift the fars one and Wipe each jar off immediately and fasten the tops.
 them in a cool, dark closet for keeping. It put question whether or not light affects fruits. Per-
sonal experience has proven to me that it make much difference whether fruit is kept in the light or the dark. I have kept quantities of fruit in the sunlight all summer, and have had them in per-
fect condition next year. I have, however, noticed fect conditon next year. I have however, noticed
that the flavor is mot so true after they have been
standing in the the dark. fruits, such as peaches and pears, should be packed in the jars, the jars filled with cold water,
the rubbers adjusted, the jars placed in the with the same amount of water as before, and the
lids placed loosely the cooking continued for the the boiler covered, and

ubbers adjusted; the jars filled one at a time an astenea. Lach jar should be placed, to prevent dish. A wide-mouthed funnel will facilitate mar pie very much. The jars should be filled to and the tops fastened down. There is no advantage whatever in having a press of any sort in the top of under the liquor. Fruits that will mould should be the liquor in a jar are not sterile, are unwholesome,
currants and raspberries.
To each full quart of large red raspberries allow
half a pint of currant juice and half a pound of sugar. Put the berries into a porcelain-lined kettle -a layer of berries and a layer of sugar; pour over
the currant juice. Bring the fruit slowly to boiling point, skim, and fill into the cans.
all sorts following recine will answer for Gages and a pound to every pound of plums. Wash the that
sticly skin from crack and a lay cracking ; weigh. Put a layer of sugar having not more than four pareers of them stand for an hour or two on the table, then put them over a moderate fire; bring very slowly to
boiling point, skim and fill int ith There is always a and fill into the jars as directed canning plums and smatl fruits, and this may be
put aside to boil do swn for joll par or vegemable
All vegetables aré better when cooked in th peas in a kettle and put them into jars and have them keep. See that the jars are washed thoroughly and brought to boiling point. Corn must be wate gathered, cut from the coh as soon packed into the jars, the rubbers adjusted, the top put on loosely. Stand the jers in a wash. boiler, the
bottom of which has been protected with strips of wood. Surround them partly with water, cover the boiler; bring to boiling point, and hoil continuously for four hours. Lift one jar at a
time, and fasten on the top time, and
Select very young pas, before the starch is
developed. Shell them, pack them in the developed. Shell them, pack them in the jars, fill
the jars. with cold water, adjust the rubbers, put on the tops loosely; surround them with cors,
water, bring to boiling point, and boil for three water, bring to boiling point, and boil for three
hours after they begin to boil. Young Lima beans, string beans, beets, small turnips and carrots may be canned in precisely the same way, allowing three hours for the young Lima
beans, and an hour aud a half for each of the other beans, and
vegetables.

Wash the asparagus, throw it into boiling water, and boil rapidly for ten minutes. Put it into tha jars rubbers, and cook for one hour and a half adjust the directed in the directions for canning fruit.

Select plump, small, round tomatoos, Scald
them by putting them into a wire basket and plunging them down once or twice in boiling water. jars. Add a teaspoonful of salt; fill the jars with cold water; adjust the rubbers : put the jars in the boiler as directed in preceding recipes; boil for ten Tomatoes, being acid, should be peeled
porcelain-lined kettle a porcelain-lined kettle, and filled into the jars
through a wide-mouthed funnel, as diredted for fruits. Tomatoes are the most easily k ppt of all
vegetables.
pare them and remove the stones
paeches into cold water, to prevent. Throw the When $\begin{aligned} & \text { You have sufficient to cover the bottom of a } \\ & \text { porcelain lined kettle, weigh }\end{aligned}$ porcelatwo-thirds of a pound of to each pound sugar into the kettle; on top of it the peache Stand over a slow fire until they reach the boiling Lift hem carefully and put them into tumblers or jars. Boil down the syrup, cover over, and seal. using froits may be preserved in the same fashion, cording to the fruit
How frutt sellies are mad
Many fruit juices do not contain sufficient pectos
to easily form jelly. In fact there fo easiy fruits that wili make jelt, there are only a very
sugar. There is the use of
season, however, why jellies sugar. There is no reason, however, why jellies
should always be made a pound of sugar to a pound - Ruinces and currants, as well as the ordinary crab-apple, cranberry and green grapes, are
much better where only half a pound allowed to a phent of juice half a plackberries of just a little
underripe make jelly half rapin of sugar to each pint of finity, allowing
fruits ast of small hate a pint of sugar to each pint of juice. Smal
fruits. as black berries, raspberries and currants,may
simply he mashed simply be mashed and drained over night. Measure
the syrup. bring to boiling point the syrup, bring to boiling point; skim, add the
sugar, and hoil rapidy nutil it jellies. This will
sometimes take twenty a few minutes, There is no "royal road "to jell,
makining and the housewife must learn to test for
the jellying point.

## THE FARMER'S ADVOCATE

five minutes, take a teaspoonful out and put it into
a saucer ; stand it to cool; and if, when you scrape it up from the saucer, it sort of wrinkles and forms jelly, it is ready to put into tumblers. It will in the air. When it drops with a short spring it is jelly. If you boil it beyond that point it will "rope" or spin a threadilike syrup, and never again will go has been boiled too long.

Quarter and core the apples. Do not pare them.
Put them into a porcelain-lined kettle; cover with cold water, and bring to boiling point; turn into jely-bag, and drain over night. Next morning of sugar to each pint of apple juice. Boil the juice
for about ten minutes; add the sugar; boil for ten minutes longer ; skim and pour into jelly glasses. them over with an ordinary piece of glass. This will prevent the dust in the air from settling on the jelly. Next morning, after the jelly has cooled
cover the tumblers with tissue paper or ordinary tops, and put at once into a closet. If the jelly seems too thin, cover it with glass and stand it in

Cream Ripening in Hot Weather Churning and the quality of the butter are in-
fluenced to a great extent by the ripeness of the cream. In very warm weather in summer a difficulty is often experienced in preventing cream from
ripening too rapidly. Where only a small quantity takes place only twice a week, it may often churning advisable to hold over the cream a few days before being churned, and it is often very difficult in very warm weather to keep it from becoming overripe ere the quantity required for a churning has been gathered. In cases
of this kind, a check may be given to the ripening of the cream by the addition of a little salu. Im its teniperature, is, of course, the most natural method to pursue in cases of this kind, but it very
often happens that it is not convenient to employ cold water for this purpose, and in such cases the
addition of a pinch of salt to the cream may be addition of a pinch of sal

The Plowing Match at Bird's Hill In spite of the opposition of the elements, neces-
sitating a change of arrangements, the competiFarmers' Institute of the locality. The attendance Was good, the interest evinced keen, and the victuals
first-class, so that enjoyment was a feature of the whole proceedings. Messrs. G. Studham and Hec Lord placed the awards, which were as follows: Veterans $(40$ vears and over)-1, Geo. White,
Sunnyside: $2, \mathrm{~S}$. Mizen, Springfield ; 3 , Wm. Knipe, pringfield.
Men under $40-1$, B. Studham, Sunnyside; 2,
ohn Henderson, Springfield ; 3, H. Smith, SunnyBide.
Boys under 18-1, F; Patterson, Springield ; 2,
John Hodinott, St. Paul's ; 3, H. Bushel, St. Paul's. Gang plows-1, Wm. Gunn, Springfield; ; ,,$~ D . ~$ Hend.

The Argentine Embargo Against all Countries.
Sir,-As we have a regular correspondent in
Buenos Aires, we -are from time to time kept more or less informed as to what is acts for us there has been trying to induce us to make further shipments of Shorthorn cattle and
Shropshire sheep to that country. Though conShropshire sheep to that country. the the were not
sidering the matter, we at the same time were
very very much inclined to do so, for the fact that the
two former shipments that we made there proved so very disastrous. However, we may say that for the
present at least we need not further consider the present at least ve need (June 15th) have a letter from
matter, as we today
Buenos Aires, dated May 10th, in which it is stated that the Government of that country passed a law on the previous day prohibiting the in sortation of
cattle, sheep and swine for a term of slx months at
least, hut least, but our letter further states that this embargo
may be extended indefinitely, and the embargo is against all countries, so that we
are shut out for the time being.

Diarrhea in Foals
th A sick foan is recognized asa very delicate animal
 lay, so that the youngter will not fecome gorged
and its digestion put wrong tyen with this
and



## Blyth Plowing Match.

The sixth annual plowing match under the on Jun of the Blyth Farmers' Institute took place miles sarst, on Mr. Yully Elder's farm, twelve furious rain storm the previous evening, which deterred many from a distance from coming, thirty seven contestants entered the lists, and all classes except the 3 -horse 16 - or 18 inch walking or riding the keenest competition prevailed. Among cham pions from Alexander, Hamiota, Bagot and Portage la Prairie, John Holt, Thos. Yuill and Wm. Rogers the first two winning first and respective classes, field was admirably suited for the purposes of the match, and the texture and condition of the soil exceptionaly favoraple to the accomplishment of could be desired to favor man and beast in doing cheir best. From such favorable circumstances, would be fully equal to, if not surpass, that of any previous match. But it must be admitted that of the work as a whole these anticipations were hardly realized, although a consensus of opinion would
readily class the general work as good. In the readily class the general work as good. In the
various classes a few cases, but more conspicuously
in the 14.in. men's and young men's, and 14-in. in the 14 -in. men's and young men's, and 14 -in. the work was of very high merit and has hardly Oak Lake) re-winning the championship and winning sweepstakes by work of eminent merit, with a.
score of 89 , finishing 4 th with a 10 -in. furrow. W m. score of 89, finishing 4th with a 10 -in. furrow. Wm. petitors who have never won 1st honors), although showing less style and finish than the champion showed real excellence in all essential points of flaceclass plowing and came perilously near to first Sutherland, Stott and Guild were a promising trio for foremost honors. Tory, who largely failed with
his crown, was a probable 4th, showing as he did his crown, was a probable 4th, showing as he did
excellent and admirable work in straightness and weed-covering. As the afternoon wore on, each furrow turned sent him forging ahead until his securing, with a score of 81, third place, a unique case on the field of turning comparative failure into signal triumph, and meriting high commendation.
Fourth place was won by John Stott (1st in 16-in. Fourth place was won by John Stott (lst in 16 -in.
class at Oak Lake), with a score of 80 , losing 3rd by class at oak Lake), with a score of 80 , losing 3 rd by
only a single point. In the 16 in . class his score
would have earned him a tie for first honors, his invariable capital work a high chance of winning the championship. Wm. Rogers, Bagot, and W. respectively, both doing good work. In the 16 -in respectively,
walking.plow class of six there was the keenest
competitive work, W. Croy, Wm. Elder, Russell competitive work, W. Croy, Wm. Elder, Russell Tran and Harry Payne all showing very good work,
John Bain, with otherwise excellent work, marring
his chance for a foremost place by an exceptionall his chance for a foremost place by an exceptionally
high crown. In the finals, W. Croy (champion at high crown. In the finals, W. Croy (champion at A rigid and impartial enforcement of weed-pulling fourth place of honor in the class. Willis Elder and Russell Tran, with 80 of a score, tied for first place
the result ending in Tran getting the 1st and Elder the result ending in Tran getting the list and Elder a score of 79 , winning 3rd place ; ex-Champion Thos HIll and John Bain followed, with scores of 76 and 71, respectively, gaining 5th and 6th prize. Of the
five competitors in the young men's class, Bain Elder five competitors in the young men's class, Bain Elder
ranked first at nooo, Geo. Elder 2nd ; the 3rd place lay between Sam. Maher and Allan Tran. The finish gave Tran 3rd place by two points, the first
two maintaining their position from start to finish, with scores of 79 and 71, respectively, Bain Elder distinguishing himself for his level and excellent medal for best crown and finish on the field. Geo Elder was rather unfortunate with his crown, but in other points upheld his record for capital work. Allan Tran, last year's champion, although pressing
closely for 2nd place, failed in doing his best, which
was considerably below his excellent work of was considerably below his excellent work of last
year. Sam. Maher has very much improved and will likely be a formidable rival in next year's contest. In the boys' class, John Holt (Alexander), the work, excelling in straightness and crown, winning a close lst by a score of 73 points, against a good
2nd by Allan Leslie, with 72 ; Andrew. Charleson was 3rd, with a score of 59 , which would have been
higher but for his high crown. Of the work as a whole, in the walking plow classes, two prominent characteristics which interfered with the quality of
the work was the unusually large number of high crowns and deep, trenchy finishes, a few lacking from instead of against the crown. The most of furrow, evenness of top, straightness, in and out was attained. the work of the gang plows, the Coming to the work of the gang plows, the
crowns excelled in levelness, but otherwise were
not remarkable for any special excellence either in straightness or artistic formation. There have heen
finer finishes, too, but, taking the work all in all, it
has rarely been equalled, and the splendid work
done by px-Champion James Ross, Wawanesa.

Thos. Yuill, Portage la Prairie; Young Johnston, of Chater, and L. Nelles, North Brandon, com-
manded the warmest admiration of the interested spectators, one capable and enthusiastic' admirer expressing his conviction as to the foremost "that
it beat the world." Up till noon the struggle for first place lay between the Wawanesa and the Portage champions: in most points they the about equal. Young Johnston (2nd in last yeare match in $12-\mathrm{in}$. class was in the arena with a more equal in weed-covering and straightness was their ised to be a formidable disputant for first honors The progress of the contest was watched with the the popular favorite, receiving the hearty became his admirers as he made a capital finish with a 14 in furrow and the highest score ever made in that class, as the champion and winner of the MasseyHarris splendid prize, \$40 gang plow, and the hearty congratulations. Thos. Yuill won 2nd place with 86 of a score, doing excellent work. Jas. Ross who did some of his best work, failed for 2nd plac mirable work, with 82 points. D. Foster secured 5 th prize, with 82 points. The excellent work done in this class is destined to be of a high educational
value in working out the admittedly difficult problem of successful agriculture. The other prizeme who took part in this class were Allen E. Ross (Hamiota), Melville Roddick (Brandon Hills), W. I. The work in the 3 -horse 12-inch gangs was in most points inferior to that done by the $14-\mathrm{in}$. gangs. This was particularly noticeable in effective weed covering, which perhaps was never so trying and the skill and ingenuity of the plowers to the utmos in all classes. W. E. Lawson (Hayfield), and Frank Elder did the best work in this class, their score
being 76 and 73 , respectively; W. Aitchison (Methven) taking 3rd and Fred Wells (Alexander) 4th place Johnston McPherson (Brandon Hills) making creditable first start with a score of 54 . John
Mayhew (Wawanesa) did capital work with the Mayhew (Wawanesa) did capital work with the Canton Diamond sulky, scoring 79 points, not
equalling, however, his almost perfect work of last
year.
As the first match conducted under the revised
score-card, with wise and necessary score-card, with wise and necessary rules for the
fair and impartial conduct and successful develop ment of the work, the management deserve unstinted praise for the gratifying and encouraging
success which has crowned their efforts. Numerous city friends and support match were present, evincing their interest in the work done, while from a distance, Mr. Verity (the O'Malley, Dr. Hopkins (of the FARMER'S ADVOCATE Winnipeg), Dolmage \& R. W. Currie (Souris), D. Watson \& Merritt (managers Masjey-Harris Oo.),
G. H. Smith (Inglis), Netson \& Smith (Bran G. H. Smith (Inglis), Netson \& Smith (BranHugh McKellar, R. H. O. Miller, and Dr. Hopkins, of the Advocate, Winnipeg, delivered interwhing and instructive addresses at the close, after tributed to the winners.
Allan E. Ross, Melville Roddick, Thos. Yuill, Ja Allan E. Ross, Melville Roddick, Thos. Yuill,Jass
Ross, H. M. Johnston, D. Foster, L. Nelles, Will Wells George Whiting, Johnston McPherson, Fred. Stott, James Surtherland, W. Turner, George Boles, W. Guild, W. E. Lawson, W. Aitchison, Frank Tran, Harry Payne, W. Uroy, John Mayhew, Geo Flder, Bain Elder, Harry Graham, Allan Tran, Sam. Maher, Allan Lsslie, John Holt and Andrew Charlson
were the competitors in the match. Wor prizewin-

## Care of Working Horses.

The education of a colt should begin from the first placing one arm in front and one behind him. Never strike a colt or do anything to cause it to fear you. Show him your power over him, and he will soon a strap around him in front of the hind legs, and
fasten fasten a rope to this, passing the rope through the
halter ring. Then lead him up to you and pat him. When the colt grows up and becomes accustomed to being led, place him with an older horse and teach
him to drive. He should be hitched to an or something which makes a slight noise, and then When he has reached three years of age he can he relied upon to do a good day's work. Orect
perfect-fitting harness. Not one farmer in to have has such harness for his horses. Use leathe collars, and always buy one that fits when drawn up
to the last hole, so that it can be let out as the neck grows. Always wet a new collar before using it,
and then when it becumes dry it will keep the right shape. Have a collar for each horse, and see that
every horse has its own collar. If collars ened occasionally they are easier to the horseCloth pads are not good, as they absorb the perspi-
ration, and are not easily cleaned. Thick pads should


Tuberculin Test -- Sources of Fallacy. On page eight of the Jersey Advocate and Dairy-
man for May 22, 1901, is an account of a tuberculin test made on a herd of seventy-six Jerseys. "In
writing of this test. the owner of the herd said: "Of the whole number, only three reacted, and they were the thriftiest and healthiest looking cows in my herd. Not one of these showed any symptoms
of disease of any kind-no cough. One had a calf of disease of any kind-no cough. One had a calf
two months old ; the other two were due to calve in
two months." two months.
Now, tuberculin compasts- of the concentrated,
sterilized liquids in which the bacillus tuberculosis has been grown. It consists of chemical poisons
which the bacillus secretes or manufactures. Having no living germ, it cannot increase its own substance, nor can it cause tuberculosis in a healthy system, as kidneys; yet, none the less, it is the immediate agent through which all the destructive work of tuberculosis is carried on.
may be very simply stated. The dose is made so small that it will not affect a healthy cow under ordinary conditions. In the slightly diseased cow
the system contains a certain amount of tuberculin produced by the bacillus, but to this the system has become accustomed, and it causes no very appreciable fever. But when, in addition to this, the small amount of tuberculin used for the test is introduced tubercles and nerve centers alike, and a fever sets in. A rise in temperature of 2 degrees, $2 \frac{1}{2}$ degrees
or more, results in from eight to twenty hours. There may be ather reasons why the bodily temperature of a cow should rise at the time itself. In the case of the test mentioned in this should have inquired into the immediate histo her the cows which "reacted," and tested them again after an interval of about a month.
The proximity to calving was undoubtedly the two cows which had not yet calved, while various conditions might have been the cause in the other animal.
During the time allowed for febrile reaction to
set in after tuberculin has been injected in a cow some changes in the regular current of life may take place; for example, a rise of the temperature of the air, exertion on the part of the animal, privation of regular milking period, coming in heat, and, in
short, anything that tends to excite the animal Any of these conditions may cause a rise o From this we can gather, in conclusion, that a cow cannot always be condemned the first time that she reacts. If, however, tuberculosis is known to exist
in the herd, and a cow reacts, we have more ground in the herd,
In making a test, each cow's temperature should be taken three times before tuberculin is injected and the average of the three times taken as norma just before or during the test that might cause a
rise of temperature.-Floyd $S$. Barlow, in Jerse Adrocate and Daryman; Cornell Cmversity.
Averting the Tragedy of the Washtulb. attracted by the glamor of the city, the country may be a life blunder, but still she goes. On the mothors and daughters who remain behind the
burden grows heavier. Domestic service has fallen inte disfavor. In both country and city efficient domestic help is becoming more difficult to obtain. solve the problem, but what is to be done meanwhile? Labor-saving machinery has not come to the rescue of the household, as it has in the barn
and on the field. In the city, wash-day has been long regarded as an unmitigated nuisance, if not a
weekly tragedy of domestic peace. But the washwoman, like the archaropteryx, will soon be an
extinct species, and the place that once knew her extinct species, and the place that once knew her
will soon know her no more for ever. The steam will soon know her no more for ever. The steam laundry is coming to the rescue. First, it gathered
in the "boiled shirt", and a few collars and cuffs,
but now it appropriates all and sundry and the but now it appropriates all and sundry, and the
householder has nothing to do but pay the little bill, householder has nothing to do but pay the little bill,
which he thinks he more than saves in doctor bills which he thinks he more than saves in doctor bills
and in the lessened "wear and tear" of nerves and of the whole internal domestic economy. The
young man of the farm and the village, a ferv years young man of the farm and the village, a few years
ago found out that he could not wear his mother's ironing any more, so he sent it to the town laundry.
Now big bundles and hampers of soiled linen come in to the steam laundries by train and stage from
all parts of the country. A Wisconsin legislator all parts of the country. A Wisconsin legislator suggests a co-operative laundry at every crossroad
in the state to do the farmers' washing, just as the creamery or factory makes up his cheese and l, utter.
Why not? We would not probably require s many in Canada to keep us clean, but every goodwould do the washing ind ironing of the district and le a paying institution. It would be a boon to
the farmer's wife and give the village a new industry. the farmer's wife and give the village a new industry,
The work would be more economically done. and we commend the idea tore thosenomicaly in search of new and we
for enterprise. The individual who solver this


Prof. Reynolds' Ventilation Plan Discussed.
A correspondent writes: "It seems to me that the ventilation pipes suggested in Prof. Reynolds very excellent article in your last issue are ver neath the ridge, through center of barn, the fresh air inlet pipes would have to be at the ends. The door next the wall in rear of passage behind cattle as suggested in plan (page 372), for the reason that the large door hinges close to the wall. Prof the end wall jutting in about a foot. A pipe could exten up by end wall near rear of cattle, startin state how high above the roof the foul-air outlet pipe should extend. Understand it runs straight up from floor through the roof. Would it not be more economical to bring the fresh air in underground running a pipe a short distance out from the build ing, and placing a cowl there instead of on the roof? This barn runs north and south. Would a cowl be In reference to the foregoing, Prof. Reynolds Fin follows
pipes, I do not regards the size and location of the the number of cattle to be stabled. As to location the barn consequence just at what point through are carried down. It is requisite only that the cowl be sufficiently elevated above surrounding objects
to catch the force of the wind in whatever direction it may be blowing.
Secondly.-As regards the outlet pipes, it is not indispensable for them to be carried to the floor in purpose will be served with perhaps an occasiona danger of too low temperatures in the stable. No need they be just at the points where I have indi admitted to the stable is compelled to circulate through the stable space before being carried off, its purpose is served.
above the roof at the point through which it passes So long as it is carried through the roof sufficiently to allow free passage of air and for a weather cap to be placed over the end of the pipe, wit is sufficient. kept up by the force of the wind, and all that is required for the outlet is a simple opening. So far as the stable itself is concerned, it would be sufficient but that might be injurious to hay, straw or grain stored in the barn; and, therefore, it is better to carry the foul air quite outside by a straight pipe, or by a pipe bending from the barn floor to the
outside and turning up again after passing through the outside wall.
Fourthly.-The principal places where I have seen this plan of ventilation in use are at Mr. Tilsonburg. I know of one or two places that intro duced the same system on a smaller scale last year and I visited one of these two or three weeks ago, This found it to be working very satisfactorily This system was placed in a hogpen. The address
is J. F. Maunder, Little Britain, Ont. The use of the cowl is becoming quite common in connection with sub-earth ducts for cheese factories, and the
method of the distribution of the air is, I be after the system of Mr. Usher. Fifthly.-As to bringing the air underground a short distance, this would be an advantage, since
the air would be warmed in winter and cooled in summer in passing through the ground; but I do have see how it would be more economical, since you cowl just as great a length of vertical pipe from the
cown, and the additional cost of the ground
Sirthly.-I think that one large cowl at the end
of this barn could be made sufficient. The dimensions that stated in my last letter are not too great for satisfactory ventiation at all times. It ior calm days, when the movement of air will be very slow, and that on cold, windy days the shut-
offs' may be used to check the inflow of air. While the dimensions I have stated are, I think, none too large, yet a somewhat smaller inlet pipe will be faction. Those who are putting in the ventilation system must be guided by their own judgment and site and the amount of cost they feel inclined to thear in this connection. A comparatively small pipe under the system that I have outlined will be found
very much superior to no ventilation at all or to another system without the cowl.

## Ontario Agricultural College

The spring crops and hay in most parts of the yield, freyuent rains having supplied anple mois cold. dry winds in May, and in some parts the while in others the prospect is crop considerably The only feature that mars the beanty of farm crops

Week's Work in Pan-American Dairy


## Breel

## Holstein

enery...

## A Tribute to the Cow

At the opening of the great Wornall Robbins
 beautiful tribute to the cow: gifts to man, she is the greatest. To her we owe he most. Examine into all the differ inters, and note the resurt should she be blotted out A Sunday still hess would then pervade the great
stock-yard industries of our large cities, and grass would grow in the streets. Seventy-five per cent. of the great freight trains that plow the continent rom ocean to ocean would sidetrack, for there ould be nothing for them to do. Fully per cent Saturday night, and our tables would be bare of the greatest luxuries with which they are loaded. The great western plains that she has made to blossom Indian from whence they came and millions of prosperous homes would be destroyed.
in "None other like the cow; there is not a thing for the use of man. We use her horns to comb our hair; her hair keeps the plaster on our walls; her skin is on all our feet and our horses' backs; her honfs are made into glue; her tail makes soup; she
ives our milk nur cream her and her flesh is the great meat of all nations. Her blood is used to make our sugar white, and her bones when ground make the greatest fertilizer, and even her paunch she herself has put through the best white board paper, and it has been discovered that that paper is the most lasting material for the for ufacture of ralse teett. No other animal work for man both day and night; by day she gathers
the food, and when we are asleep at night, she brings it back to re-chew and manufacture into all the things of which I speak. She has gone with the man from tha clearing; it was her sons that drew the prairie schooner for the sturdy pioneers, as inch by inch chey fought to prove that: ' Westward the star of empire takes its way, and the old cow grazed along
behind ; and when the dav's march was done she came and gave the milk to fill the mother's breast to ced the suckling habe that was, perchance, to "Wcome the future ruler of his country
man's hest friend, the cow? Treat her kindly man' hest friend, the cow Treat her kindly,
yently, for without her, words fail me to describe
the condition of the human race in this country.

July 5, 1801
A Summer Trip Among Farmers
holiday trip through fertile farming districts in Central Ontario in the leafy month of June in to an agricultural editor, keeping his in touch with at least a portion of his wide constituency, and evealing the needs and the progress of his patrons east bound and ing occupation. Leaving London, Counties of Middlesex and Oxford, one is impressed with the general prevalence of pasture lands and comparatively large herds of dairy cattle, while the numerous hig barns with basement stables, and the
thrifty appearance of the farm homesteads generally throughout these the pioneer cheese-factory ally throughout these the pioneer cheese-factory
and creamery districts of Canada, indicate that the owners as a rule have done well by devoting attention to the milk business and pork production Huntingford of revenue. Tarrying for a night at farm and home of Mr. William Donaldson, of South Zoira, near the pretty town of Woodstock, to be
christened a citv on this Dominion Dov we find ourselves for the first time viewing the gold-medal prizewinning farm in a group of six western
counties of Ontario, and second only in a provincial counties of ontario, and second only in a provincial
sweepstakes competition. Here is a 400 -acre farm swepstakes competition. Here is a 400 -acre farm
of strong land, well underdrained, kept scrupu-
lously clean and neat, lousty clean and neat, growing great crops of grapuclover, roots and corn, with thickly-set permanent
pastures, closely resembling those of Old England, thrive. The wide avenue stead, the romy and parklike appearance of the grounds surrounding the dwelling, embowered in trees of Nature's planting, the extensive and sub-
stantial character of the buildings, and the general appearance of thrift, strongly remind one of an Old
Country steading, while the hospitality of Huntingford is proverbial and hearty.
as. the Niagara district, extending from Hamown to St. Catharines, and "The Falls,' the traveler find himself in what seems a veritable paradise, in which all manner of fruits grow in profusion on
extensive plantations, the fruit farms varying in size from ten to ten times ten acres, thrifty looking
and generally well cultivated and kept. Weil and generally well cultivated and kept. Weti
organized, working harmoniously together for the organized, working harmoniously together for the
common weal, and jealous of the good name gained cormmon weal, and jealous of the good name gained
for the quality of their fruits, the orchardists of the
district register progress from district register progress from year to ear, and are
gradually gaining ground for their products in gradually gaining ground for their products in people are modeles of comfort and good taste. On
June 19th we found ourselves on the fine stock farm of Mr. Hudson Usher, at Queenston Heights, historic ground where the monument to Geinersal
Brock rears its head high above the suriounding scene. Lunching under the maples, preparatory to
the dispersal sale by auction of the late partnershi the dispersal sale by auction of the late partnership
herd of Shorthorn cattle to make room for a better class, the view of the fruit-growing valleys, the
chils, beyond, and the Niagara River winding it way between tree.clad banks, is charming and impressive. Hard by, here are, the extensive cement
works of Isaac Usher, with a capacity of some 400 works of IHahc usher, with a capacity of some t 400
barrels per day, and the beautiful residence of the
proprietor the wall stables, are buail of cement concrete and promise to
be as lasting as the hills.
A day at East Toronto, at Dentonia Park, the
summer home and stock and dairy farm of Mr. W. summer home and stock and dairy farm of Mr. Wh
E. H. Massey, with the Jersey cattle breeders in their tunual meeting, held under the shade trees on the
lawn at Dentonia, was a pleasant experience. Here the Canadian Jersey Cattle Club was organized, and bers had partaken of a sumptuous luncheon topped with luscious strawherries and rich Jersey cream,
generously provided by the hospitable host, who geuerously provided by the hospitable host, who
kindly showed the company over the well-kept $260^{\prime} 0$ acre farm, with its broad fields of corn and clover, ample equipment of stabling, complete dairy outfit,
extensive poultry breeding plant, and trout ponds, extensive poultry breeding plant, and trout ponds,
a busy business man's hobby, and last, but not least, the fine herrss of prizewinning Jerseys, Guernseys
and Ayrshires, which are of the highest type of their hreeds, and have recently been reinforced by
the arrival of superior sires imported from the Che arrival of superior sires imported from the
homes of these breeds. A stay over Sunday in the prosperous town of
Oshawa found us in the rich agricultural riding of on Monday was spent at Maple Shade, the fine too Minister of Agriculture for Ontario. Here is good practical farming without frills, the buildings plain
and unpretentious, but the fields broad, clean, tiledrained, well fenced, and bearing crops every one drained. well fenced, and bearing crops every one
of which will score one hundred per cent. on a high standard, as will also the hulk of the typical animals composing the blue-blooded herd of short-
lhorns and flock of Shropshires, headed by high-class sires which are kept not in pampered show con-
lition, but in the best of breeding form, with ample
uxercise us an essential in trentment xercise as an essential in treatment and halanced
rations constantly observed in the feeding formula. rations constantly observed in the feeding formula.
A run up Yonge street north of Toronto some,
ixteen miles, on the Metropolitan electric road,
innds us at the gate of Springhook, the noted stock

THE FARMER'S ADVOCATE
farm of Messrs. J. \& W. Russell, Richmond Hill, the home of prizewinning Shorthorns galore at
national and
international exhibitions, where matrons, the mothers of champions, are found passing a peaceful old age in vernal pastures, sur--
rounded by promising offspring of various ages, the red, white and roan in in porious profusion bedecking
the fields, while in the fields, while in cool, roomy boxes at the barns the show, cattle luxuriate in nreparation for coming competitions in the arena of the show-yard in case
the owners conclude to make a public display again, but every day is show day at Springbrook, and the show is worth going a long way to see, as it
is the proud product of at least a quarter of a century of patient yet persistent breeding on independent of patient yet persistent breeding on independent
and intelligent lines, with constitution, substance
and quality nombined as the motto and the aim while the record tells the tale of splccess.
14 miles further, and the visitior is let down ance of farm gate of the Sheriff Hutton of Canada, where the only William Linton maintains a select little Royal winnerts of former days in the hend on illustrious father, on the Yorkshire Sheriff Hutton
Fut Farm, supplemented by recent importations from
the famous Ardfert Abbey herd of the late Mr. the famous Ardfert Abbey herd of the late Mr.
Talbot-Crosbie, of Ardfert, Ireland.
For story and reminiscence,an evening with Linton is only equalled Two miles further on we come to the beautiful and well-conducted 200 -acre farm and summer home of Trown and large lots of export cattle fattened Tarry ing for a night with our old-time friend, Mr.
Thomas Teasdale, at Thornhill station, one of the most successful of Canadian breeders of Berkshires and one of the safest judges of stock in the Domin: was spent in the discussion of stock and farming problems and in reminiscences akin to those of the
old soldier who shoulders his crutch and tells how
fielde fields were won.

## Whole Grain for Calf Feeding

The popular view regarding the preparation of
calf food, apart from milk and coarse fodder, is that calf food, apart from milk and coarse fodder, is that
it should be finely ground, and many prefer to boil it. We have frequently heard of good calves being raised having no other grain except whole oats.
The calves commence to eat the oats when quite young, and owing to their rough nature they are well masticated in the end, and therefore properly
 results in calf feeding.
the Kansas Experiment composea mostly of Shorthornad of young calves,
On Novereford grades. On November 28, these calves were divided into two lots, as nearly equal as possible, the average weight
being 127 pounds. Both lots were fed and treated alike, with the exception that one received its grain
as shelled eorn and the other as corn ehop. Alt the calves were fed mixed hay (red clover, orchard grass and English blue grasss. Fach lot was given all the scouring. Salt was accaseitme at all all times. For
nine dith nine days previous to the division into lots, the grain for all the calves consisted of a mixture of the calves would begin to eap. the shalled corn when three to four weeks old, and in a few cases when
two to three weeks old. At the commencement of the experiment, each lot was consuming ten pounds of grain daily, As the experiment advalced, it was found that the corn-chop calves could not eat as
much grain as the shelled corn calves without causing considerable trouble from scours. This accounts for the difference of
grain consumed by the two lots
Shelled-corn
experiment, these ten calves onsumed 18,561 pounds pounds of hay. The total gain during the experiment was 2.822 pounds or 1.74 pounds daily per
head. Valuing skim milk at 15 cents per 100 pounds, grain at 50 cents per 100 pounds, tad hay at $\$ 1$ per ton, the feed cost of raising these calves amounts to $\$ 55.061$, or $\$ 5.50$ per head. The cost for each 100)
pounds of gain is as follows: Skim milk, $\$ 1.20$; Corn chop Lot.- The ten calves consumed 18,886 pounds of skim milk, 2,286 pounds of corn chop,
7,1188 pounds of hay. The gain of this lot was 2,123 (,088 pounds of hay. The gain of this lot was 2,123 pounds or 1.59 pounds daily per head. Atpricessiven
above, the feed cost amounts to $\$ 53300$ or $\$$ os. per
and head. The cost of each 100 pounds of gain is as follows: Skim milk, $\$ 1.31$; grain, $51+$. ; roughness,
$6 \overline{7 c}$. : total, $\$ 2.52 .2$. If we raise the cost of grain five
 pounds of gain would be increased to 5 5.c., and the
total to $\$ 2.27$. Comparing the two lots, we find those on shelled cost of 20 cents less per 1000 pounds of gain. Since
calves relish shelled corn and will begin eating it ar form old, and make better and theaper gains on it, and are less subject to seours
than on corn ohop, there is certainly no object in going to the expense of grinding the corn. This
experiment shows that it is possible to raise good thrifty calles that will gain 1.7F pounds daise dood per
head on feeds produced entirely from the farm, and in a form that requires no preparation of the feed,
Outside of harvesting, except the shelling of the corn.

The Guelph Experimental Farm
June is always a.busy month at the O . A. College Farm. On the 21 st inst., some 2,000 excursionists,
hailing from Bruce and Dufferin, visited the instith tion. This is abeve the average day's visitors but on the 15 th this number was exceeded by 500 people On other days during the month the numbers ran from 800 to 1,800 , so that the month's visitors reached probably 25,000 people, including many heads of farms and families and their sons and daughters. on the Farm. Most of the officers and many attend ants were in their departmente, devoting their time to answering questions and imparting information. The huge undertaking of reeding the multitude was quickly accomplished, and without confusion, in the gymnasium building, where some 810 could sit down Whe on benches ruuning lengthwise of the hall. for 34 moung seats were infed, resident mills calted for $3+$ young men from amongst the excursionists to sandwiches, soda biscuits buns, and cheest ,ham acceptable, substantial, and was much relished proved the close of the lunch, Dr. Mills devoted a few min utes to giving information and advice as how to best employ the afternoon, informing the visitors where to go for special information $r e$ weeds, insects, etc. Referring to the prevalence of weeds, he estimated that very many farms had depreciated quite $\$ 15$ per them, the advice was to throw off your coat rid of at them. It is well to tocome informed and go nature and habits of the particular weeds we wish to the best ways to many are spending time studying growing and getting fate end wee are "Go at them," said Dr Mills." farcher ahead. effort until they are destroyed," Fien the relax cannot grow two crops proftably and waded into those farmers who will mot suend "eent to give their sons who are to remain on the farm an who ation, while they spend lavishly on the boys解 down below all others, even to the very bottom of illiteracy.
the experimental fieli
here are hundreds of neat, uniform for visitors, as roots, corn, grasses and clovers. growing side hy side ness, etc. A day Epent in this field sith Mr. Yavilz
(who, by the way, is now in Europe) or one of his
(taft has valuable losons for ung in staff has valuable lessons for any farmer who witt At stated hours, inl lustrated. lectures were given
the excursionists, in the largest dairy class-rooms, by Miss Rose and Prof. Dean, on butlermaking,
care of dairy stock etc. care of dairy stock, etc. In front of the audience, on the large lackboard, was written a recipe for
kepping flies off cows, as follows: For 25 cows, 1 gallon of fish, seal or tanner's oil, 4ounces crude
cartholic acid, and 1 pint of coal oil, well mixed and applied to all parts of the cow, except the udder,
with a cloth or brush. The addresses delivered were listened to by both men and women with rapt attention, and we are much mistaken if some
farmars' wives do not, as a result, change their remprrs wives do not, as a result, change their
methods of making butter ; and thus the good work of education goes on
In the line of investigation, Prof. Dean is experi light and temperature. He has one room well lighted and another totally dark. Curds from the same vat are part into the dark room. Both into are kept at the same temperature and humidity, It is expected the cheese will be cured by the middle of July, when they will he scored. Repeated trials in
curing cheese in different temperatures degrees, Fahr, decided that about 65 degrees gave
better results than any other, both in less shrinkage and higher quaty. Curing at any warm temper ripeness and flavor, and so last year Prof Baborm that illustrious dairy scientist,discovered that curing cheese in a temperature near the freezing point gave
most desirable and uniform tlavors. To this end Prof. Dean, in the dairy department; I'rof. Harri Harcourt, in the chemical laboratory Prof conducting tests with a view to ascertain
ing the actual cause and effect of low tempera ing the actual chuse and effect of low-tempera
ture curing. The cold room stands at athou 38 degrees, and in it are placed chese direct
from the prese, those one week old, two weeks and three weeks old all taken from the same vat curd. In the meantime the cheese is held at of
degres, and a fifth cheese from the same vat
 degrees. It it expected the cold-curing will require
seven or eight months, and when is is completed, the scoring will be compared with that of the cheese
cured at t degrees. Prof. Harrison will investipat

THE FARMER'S ADVOCATE
Founded 18ik
chemical, as the curing advances, so that considerable light upon cheese.curing may be looked fo
during 1901 from Guelph Experiment Station. the polltry derartment
During the excursions, Mr. Graham, B. S. A., in charge of the poultry department, is kept very blisy
answering questions, as no end of people seem to have trouble with their poultry, and they come to him for information. He is asked about breeds,
feeds. breeding, and all the rest of it, and he invariably gets a good audience when he commences making the nests of tansy, which will drive a way
lice. If this cannot he secured a dozen camphor lice th balls will have the same desirable effect and do no harm. chicks under hisam has several hundred chicks under his charge, and he knows practically
all about them all. The value of unlimited range for young chickens was clearly demonstrated in
litters of the same age, some of which were confined to a few rods, along with fiher hens and broods, and others allowed free range in a clover patch.
These latter consumed less food given them, and were much more stock k and vigorous. Mr. Graham is raising all his chicks to be used for breeding with hens, instead of with brooders, regarcless of
whether they were hatched by hens or incubators. While they may not grow quite as rapidly at first,
thrfy develop constitution and vigor. Those raised twe dovelop constutution and
by brooders will be used for fattening. Hose raised
Referring to the matter of poor hat comererring to the matter of poor hatches generaly cent. hatches, 55 per cent. in February, 15 in March, ${ }_{75}^{\text {and }} 10$ until the middle of April, while ty May lst 7 per cent. of the incubator eggs produced living
chicks. The low hatch during he winter months
are conidered to be dueto are considered to be due to lack of exercise and
fresh air incident to unavoidable close fresh air, incident to unavoidahle close housing.
An effort will be made to correct this next winter by compelling the hens to scratch over more straw for their feed, and by introducing more fresh air by means of a sub-earth duct opening beneath the
The farm and-stock under Prof. Day all give all particularly promising and all the stock, except the sheep, are thrifty, It seems impossible to have sheep do well on this farm. owing to the presence
of tapeworm, which seem to have all conditions at hand for their favorable development. The most striking individual in the bull stable at the present
time is a remarkably fine Shorthorn, imported in dam last vear by H. Cargill \& Son from Wm. quality is sup a beautiful roan, not large, but his (73is81), and out of Sityyton Amaranth thh, a cow closely related to Field Marshal and Abbotsburn
Prof Day is havinc a modern system of ventilation put in the main cattle barn. It is practically the same as that recently described in the FARMER's ADVOCATE by Prof. Reynolds, who has made
thorough study of ventilation, and is now gathering thorough study of ventilation, and is now gathering information and working out cold storage ${ }^{\text {In }}$ In
conversation with him we learned it is his opinion that mechanical refrigeration is the only feasible
one for a district storage, such as, at least, every one for a district
town should have

## Selecting the Fittest.

Here is a short and true Canadian story worth Gatineau Valley there lived a man named Meldrum. He had several daughters, and they went into the fields and picked out the big early heads of wheat from large, vigorous plants. The seed from these,
Meldrum clean thoroughly and sowed again. He thus got exceptionally good plants with large heads
and fine wheat. With this wheat he took the rold and fine wheat. With this wheat he took the gold
medal at the Paris Exhibition, and for years alterWards Meldrum wheat sold at fine prices for seed.; Bettering the moral, sir w. W. Macdonald, of Montreal, tat the instance of Professor Robertson,
has given $\$ 10,000$ ( $\delta 2,000$ ) as prizes for young people has given $\$ 10,000($ (£2,000) as prizes for young people
on Canadian farms who produce from seed-plots of a quarter of an acre the finest ears of wheat aud a
oats yearly, and the best produce in three years.
In this way 700 young men and women in the
 Provinces on "helection of the fittest," The worthy
farming by
Yorkshireman, oraccularly fifty y yans ago that "stean was in its in-
fancy, byit agriculture had reached perfection," was fancy but agriculture had reached perfection," was
a little premature perhap!
thing (Vet may learn something yet even from our own Colonies.- London
(Englend ) Telegrouph.

When Does Colostrum Become Normal Mirk

## A question continually asked by people owning

 How lows slowld the milk produced hy freshly.Halyed cows be kett thy itself betore theing added to that of the other cows in the herdy As a rule, such
milk is regarded as fit for consumption on the third day after the cow has calved, and in nine cases ont
of ten this rule will be found to work satisfactorily. though in exceptionat cases the milk khat been founi



On Board a Canadian Cattle Ship.
The question of the inferiority of the Canadian export cattle to those shipped from the United that I may be excused if I send you a few notes on which I crossed to Liverpool from Montreal, as this shipment is a fairly average one of all the Ontario cattle that will be exported during the year. Of
course there may be found an occasionally better course, there may be found an occasionally better

There are exactly 414 head of cattle on board; ranging from pretty fair to indifferent. Of these, about 180 are distilery fea catlle from Cooder ham ' Worts'stalles. A large proportion nearly one
fourth-are bulls, mostly old, of more or less Short, horn blood, but there are some Ayrshires and Holsteins and a sprinkling of Aberdeen- Angus. A fhin and rough they show the worst adyantare There are some large bullocks of a rough class and some old cows. The best stock between decks are those shipped by Jo. Dunn, Toronto. A number too thin for profitable sale. The larger proportion of the cattle are not dehorned.
A fact that strikes the observer at once is the lack of quallity, and, even where quatity is betten this, remember, even though a large proportion of
these animals are contract-fed. The loss to Canadian farmers in raising and disposing of such interior and enormous in the course of one year alothing will our farmers recognize the fact that they must breed stock of better quality; and, also, that to get disposing of them. ${ }^{2}$. disposing of them one can easily understand why
the uniformly-graded car lots of well-bred cattle from Chicago fetch respectable prices, while our shippers so often lose money, when one sees the lot. An English gentleman on hoard talking of the comparative merits of English and Canadian beef. asked me whether it was possible to get as good to do so, and with shame I had to confess that the general run of our beef was far inferior to that of the Old Country
labor under everyone knows that in Canada we abor under certain disadvantages from which hot, dry summers, with their plagues of flies; our winters are long, and the cattle have to be kept in the stables for a lengthy period, and, in most places,
ve lack the rich, inicy pastures for which F is cele brated. But these disadvantages can be largely overcome by forethought, by the growth of
fodder crops, silage, and careful attention to our fodder crops, silage, and careful attention to our just as good cat tle as our A merican cousins But remember, that to get the best stock we must breed to the best sires obtainable, and, having got them, we must feed to keep them until they are ripe for In conclusion, I must give a word of praise to the
Lake Ontario which iustly has the reputation of eing one of the steadiest has whe repuation or Atlantic. I have certainly found her so, and the

## Seasonable Poultry Notes.

Growing chickens cannot be induced to eat too
much. P ush them along so that they will altain full growth before cold weather sets in. The pullets of early hatchings, if well fed and housed in a Separate the young roosters from the pullets, if it is well grown and fleshed when the time comes may them. They should be kept hungry, yet have sanficient to eaty. Amind a yrod plan is to give them morning and never enough during the day so the they will hunt around for food. The exercise will do them gond. But for the evening meal they should have enough of good grain to fill their crops, chicks should receive the very hest of cate-hatched pushed along as rapidly as possible. It is easy to do Cis now when the weather ls warm. D not feed corn more than once a day to laying hens. Bran, if well
cooked or scalded, makes a good feed for poulthy Corn ma beused, as a part of the ration, but meat For gapes, dip a feather in turpentine and insert it in the windpipe.
Whenever possible, let the poultry have the run
of freshly-plowed fields. (iround oyster shells and shatp grit are better than dosing for weak fowls. Hence, the best wry to give the edicintin in in the drater. given to eat. It makes a heary draft on the Bo Ber in mind, readers, thatwhicks are addicted


## Turkey Raising.

## tchinc; Feeding and caring for

My experience in raising turkeys has been a vefy
successful one, extending over quite a number of
years. I think the time when I first became the years. I think the time when I first became the proud possessor of a turkey all my own will never
fade fiom my memory. A kind neighbor gave meal young turkey when I was quite a little girl, and rom the time her hired man appeared with it under three more hens and a gobbler, I managed to ring quite a large flock the first year. I breed from only fine, healthy stock, saving my best for that purpose. hange not oreed rom the same stock long. I my own stock, as they are less inclined to mand away than strangers. The hen dearly loves a secluded spot for her nest. When she sits I put opened every morning, to keep the wild "varmints" from her and let her sit, providing she has chosen a reasonable place for the "purpose. If moving is attempted, they are very set," and will sometimes shut in that they fail to hatch. Sometimes there are one or two very early layers in the flock, too early to really care to set them, as early turkeys are not desirable, as the early rains and dampess are
destructive. In this case I break these hens up and Let them lay again, putting the surplus eggs under chicken hens. When I come to set them, I prefer not to make mothers of the latter, as their habit is after they begin to need a wider range. The lice of hens accumulate quickly and prove more fatal than their own and harder to get rid of, so I put little ometim the wins title mothers. than their bodies, the quills stick out longer than the tail feathers: at the same time, many dwindle, get thin and die. Uless the one in charge underout the cause being suspected. Catch the little with and carefully turn back the feathers which cone the root of the quills on the wing, and in betwee ping the wife way ping the life away. The surest remedy for turke which runs freely and will not get gummy on the feathers is good. Putit in a slender-necked machinefeathers of each wing affected. The kerosen of the the oil, as alone it blisters the tender flesh and causes unnecessary suffering. Night is a good time ful not to get on too much, as that sticks the feather down. Go over the flock a second time to make
sure of a second crop; a large flock can be gone After the patient $m$ (from 28 to 30 days), I teach her completed her time every day for food, and then comes the time for caring for the little creatures which are to be and meek plump hens later on. I keep my eye on a hen which I know to be hatching, but never allow her to be disturbed to kill any and will call The mother needs a refreshing dust herself. as she has not left the nest while hatching. She is not confined, but the little ones are very unsteady on their legs. I make a triangle of boards nailed yet large enough for the mother to get in with her brood when she chooses. The little ones doze and en,oy the sun, while the hen dusts herself and pick The cheapest and most healthful food for little Theys is curd made like cottage cheese, unseasoned insects of all kinds which th thrive upon it, with the in sweet skimmed milk is good for poults. Milk is good for turkeys of all ages but for young ones do not let it stand and get warm and cakes and expensive foods; they are too rich Mroduce diarrhea, and must be guarded arainst not necessary, but do not give grease or meat of any In wheat localities, whot the hest food for young turbeys and for fore make Don't fuss with a healthy flock, but if there is a in the food is a cood pepper (black or red) mixed small lump of copperas in the drinking water occa sionally: Many lose small turkeys by keeping them too closely confined. Turkeys must have large coops for each mother but unless ne. Thave Chey are not shut up after the dew is off the grass, the little hodies grow broad and the legs get the stock, look of thrify little turkeys; when a little
older, they stay very contentedly in my meadow
neally all day it A turkey hates to go in here coop at night unless every day, she soon regards it as a safe place to keep
her little family over night, and should it rain in the filth. change it so it will be clean for the day Filth is a deadly foe to a young turkey in confinc
ment. I have always kept my coops on the ground
the ground, as it is mere natural and healthful. I
think it is a good plan to keep a box skunk-trap at night near the coops.
When the turkeys get large enough to fly over a
stone wall they will wander farther away and there
 hore than is necessañry for goo takes me outdoors no more than is necessary for good health. Ihave had
them so wild that they caused me considerable The curd diet is excollent whereng strange hens. The curd diet is exeellent while it hasts, hut much
s required as they grow larger. While the whe
 times a day. Iprefer whole buck wheat to any food
when my supply of curd runs short. It is healthy, and prevents diarrhea. The finest. turkeys $I$ eyer
raised were fed almost exclusively raised were fed amost exclusively on fresh curd and
fuck wheat. Cracked corn, wheat and huck whent good food when they have grown larger
As soon as they show a desire to roost, I encour-
ge them, providing it gives promise of fair weather age them, providing it gives promise of fair weather introduce them to the turkey tree-a large maplen which generations of turkeys have roosted before them, providing a narrow board with cleats to
climb up. They are up and off in the morning climb up. They are up and off in the morning
before I am around. They do not care to wait for
their break fast, preferring grasshoppers and erickets their break fast, preferring grasshoppers and erickets
to anything I might offer. They generally return skim milt or whelves with have for them. I make it a point to offer them something to encourage them to come home.
It is well al ways to foed when shutting them up
at night, which should be at jtp. m. when small, as after that time they get so sleepy it is slow work This teaches them to expect supper, and they will soon come of their own accord. When large, the
supper need not be a very hearty one, as they don't supper need not be a very hearty one, as they don't
need it if there are plenty of bugs, but, just for the principle of the thing, to get them home, it is best to offer a reward. When feeding buck wheat for the
first time, they rush around expecting the familiar first time, they rush around expecting the familiar
food of curd, and receiving only buckwheat, a universal cry of "quit"" will be set up all along the
line, and it is only after careful examination and line, and it is only after careful examination and thoughtful observation of the fact that the mother
is eating that they can be induced to touch the stuff of which they are afterwards always so fond. After the flock goos to roost they are usually very little
trouble until marketing.

Improving Rural Homes.
House builders and home builders are two very
fferent things. Some houses we get inside of and call them homes. Some houses we get inside of and what we wish and need and like, and then build to those can be alike, but each one will be specially suited are two things to consider in building: ( 1 ) Our-
selves and what we personally need: what our selves and what we personally need; what our
individuality is and what a home can do for us; (2) What the building site is capable of-all it can
afford or furnish to feed our souls and make our
lives pleasant lives pleasanit. All this we are entitled to get out of house building. thing to build even the outside of a house." in it a domn the reason was because you revealed yourself in doing so. A house says always that's the sort of
man Mr. Smith is. And reserved, man Mr. Smith is. And reserved, even shy, as
some people are, they placard themselves up like
circuc hills But there is something more done by a house ; it creates public sentiment and public character. So more good than in building a truly beautiful
mouse a house that expresses a beautiful ideas, worked into unity in a beautiful life. For instance, you know houses that express welcome
and hospitality, and others that are forbidding. You can think of a house that is modest that is absurdly bold and conceited. Then at least imitation. They are a jumble of a lot of things, pretty enough in their places, but when out of on a dog. House huilding must become a much more
serious matter than it is in the making of a home serious matter than it is ill the making of a home. A home ought to be placed on a rise of ground, even
if this carry it back further from the street than be so situated that every stream runs away from
you rather than to you. There is no position for a rural or suburban fouse worse than where it will catch the street dust. Material for a house, I
believe, should be that which is most characteristic of the place where it is built. There is no reason for a building of wood where stone superabounds.
Brick is ideal material in some sections. An old undervalue me by comparing me with pyramids of stone. I am better than they, as Jove exceeds the
other deities." A broad house is generally advisa other deities." A broad house is generally advisa-
Me: and seldom a tall one that is, in the country. (Hir only reason for a high house is to get a way
from the soil with sleeping rooms. But the air five feet from the ground ought to be as good as that at
twenty-five. If we have thorough drainage it will be. Height will be secured by building on at
ise. Breadth saves time and strength in climbing. t gives quick access to the whole house. It keeps us
hear the flowers and grass. It suggests hospitality.

Houses should never be considered apart from heir surroundings. Americans do not appreciate possible, besides a shrubbery, to arrange our tree planting so as to have a succession of bloom around our houses for several months. The earliest quite
interesting trees are the English elm and the red interesting trees are the English elm and the red
flowering maple. The former is covered with what looks like a profuse crop of hops. The red maple is a glorious tree in bloom. The shades vary; but The Kentucky for affording a very spicy flower, not very con spicuous and not lasting. The basswood about the first of July is a glory for its beauty and perfume, Acuminata and the American tulip-tree are entirely hardy and healthy, and very showy.
Lowell and Morse in their accounts of Korea and Japan emphasize the love of those people for the
plum and cherry. Cherries we can have in for three weeks, beginning with Early Richmond and ending with Montmorency. Mr. Lowell tells us it is not easy to convey to the Western mind an
idea of the mingled love and adoration that the Eastern nations lavish on these flowers. Sonnets innumerable are written in their praise. Indeed, the whole life of these interesting nations is bound neglecting one side of culture; and the value far trees from an esthetic point of view? "The laziest
of mortals are stirred to enthusiasm and travel of mortals are stirred to enthusiasm and travel
many miles to get a sight of the cherry trees before the morning's mist has left them." It will pay us sake, not considering the future for the blossom's trees I find are actually scorned by landscapists I have been able to select two deep-red flowering in such profusion that they ought to be everywhere. after trees to be considered. We need these for two reasons besides their beauty. The first is because a and, to some extent, secluded; and the second is because we can and ought to largely control the
variabilities of climate. It is possible to difference of two degrees by having evergreen still, we can prevent the extreme effects of frost by hreaking the drying winds that sweep over us. vegetation, but by animal life, and ourselves included. Set it down as a matter of human health searching us through and through. I know of places where a delicate person can live with comendure the climate. The only reason is that on one side the trees have been cut away, and no wind-
breaks planted; while the other is hedged in and
bowered in bowered in with groves. The value of our everornaments, standing before a house, their utility is allowed to grow with native grace and freedom, where they will take the teeth of the wind, they are The chief trouble with flowers about a farmhouse is that, as generally grown, they take too
much time in weeding, and in lifting or covering in the fall, and planting, out in the spring. It. is a seen in cities. Grading, and leyeling, and as are and a constant run of lawn mowers, is not only expensive, but out of place. Instead, let me suggest
to our rural homes to plant a shrubbery. Shrubs as a rule, cost very little labor; and they do not die out and need replacing. There is no weeding; and Yet, as a rule, our country fors the season through. very poor lawns and very troublesome flower beds; house necessarily in front. It will not be too large for a lloderate homestead or a farm of twenty acres, if
you set off half an acre for this purpose. Do not grade it any further than to remove unnatural knobs and ridges. Clean it of weeds, and leave the walk around it. Select shrubs for a succession of bloom-from the Forsythia of April to the witch-
hazel of November.-E.P. Povell, N. Y. Independent.

> Preparing Poultry for Killing.

The time will soon arrive when the boys will be rooster or two for the table. This is the custom on many farms, and may be considered not a bad one
after the household has grown tired of pork and may be much meats. Even this toothsome bit of diet on good feed for a couple of weeks, and then fasting
them a day or two before killing, and allowing them to hang in the cellar or other cool, clean place In preparation for killing, fowls should be fasted
for at least 18 or 20 hours. This is more for at least 18 or 2 hours. This is more especially
necessary where the birds are intended for market and are meant to be kept for some time before pass-
ing into the hands of those by whom they will he consumed. Fasting the birds in this manner clears keeping qualities after being killed. If their crops undigested food very often leads to injurious results
when the dead birds are kept for any length of time.

## Seasonable Notes.

Dickith regard to re-queening each year, as Mr Dickson recommends in his paper on "The Pro in this of Extracted Honey," which was reviewed difference of opinion. Mr. J. B. Hall believes in keeping some queens four or five years.
Mr. S. H. Sibbald voices the writer's experience when he says, "I have always found contain arg that contain a young queen. Occasionally a three work: but usually when the queen is her third season the her third season, the colony builds up very slowly as those with younger queers. If the bees are to allowed to rear their own young queens, the best time to remove the old ones is just before the close of the honey flow, that the bees may not swarm when the young queen hatches.
directors shows that bees generally did not winter very well, and some say their neighbors lost heavily. There was considerable spring dwinding and robbing, but the bees were building up nicely when the cold, setback. weather in and early June gave them a 18th) prospects aright for 18th) prospects are bright for a good clover flow, advantage of it. From the present outlook, prices this year should be at least no lower than last, for are markets are practically bare, and bees are by no means
plentiful in the country. It should be the aim of every beekkeper to produce a first-class article, and then hold it at a good price.
To keep pollen out of sections, give plenty of
room for pollen below. When a swarm is hived on starters, either put in one comb aša pollen catcher
and put on sections at once, or do not put on tions for a couple of days, until they have built some comb in the brood chamber. In doing the placed under the brood chamber during the two days there is no super, else the bees are crowded excluder should always be used under a queen Some localities are much more troubled with pollen than others.
The best smoker fuel is one that is inexpensive and always at hwnd, one which does not easily "go minutes with the nozyle pointing diagonally owards the ground, and which will burn a long time without refilling, and give a good cloud of
smoke at a moment's notice. Partially-decay ed wood is very good if thoroughly dry and cut into coarse, broken shavings with a drawing knife Cedar bark is used by those who have it, and
cotton waste smeared with oil from locomotives is also recommended $W$ orom locomotives is burlap exposed to the weather over winter and it makes excellent smoker fuel the following suma bicycle oil.can full of coal oil the bottom of the smoker and squirt some coal in over it. Drop in a lighted match, and as soon as the oil and fuel are ignited put in more fuel, working the hellows the while; replace the nozzle and
the smoker is ready. A discarded milk can turned on its side with the bottom slightly elevated makes a dry, fireproof storeroom for the smoker when not in use.
hive, the bees may be nearly all driven down out a the super by the use of smoke and a peculiar manipulation of the quilt or cloth which covers the
frames. First smoke a little at the entrance, then loosen the cloth at one side, blow in some smoke and holding the cloth by the loose edge firm frames four. or five times, blow in down on the and repeat the flapping. This repeated a few time drives nearly all the bees into the brood cham ber, when the combs may be quickly removed given a quick shake at the entrance and set on the
ground behind the hive. The super can be refilled with empties and the hive closed before the bee begin to come up again. By this time, if there is
no brood in the combs standing on the ground, the few remaining bees feel lost and dufenceless, and may be brushed off almost like flies; but if they savage if more smoke is not used. Some do not bother with these few bees, but allow them to fly
home from the windows of the extracting-room

Ayrshire Men Condemn the Test.
At the annual meeting of the Canadian Ayrshire Owen, seconded by Mr. R. Hunter, it was resolved serionsy menaced hy the tuberculin test as now applied to cattle purchased for importation or sold
for export, that it is misleading and of no real
value, and should be discontinued

Care and Treatment of the Horse's Feot
My observations with the colt during the first year of its life have forced the conclusion on me
that care and treatment during that time have much to do with the conformation of the foot when the foot is responsible for so many causes of foot is responsible for so many causes of lameness.
both in the foot, in the limb above it, and also in opposite limbs, that it at once becomes apparent to the ordinary observer that an imp
The colt's foot when left to itself shos tendencies to grow in different directions according to the way the weight of the body is brought to bear on the part of the foot covering the ground
surface. As an example: If two colts are turned surface. As an example: If two colts are turned
loose in a pasture field, and six months later, if the feet have received no attention, it may be found that one colt's feet may be very long at the toe
giving the horn aslant and curve at the heel, which in after-life will surely, when shod, produce sore or in arter-1he will surely, when shod, produce sore or
tender heels, and, finally, disease of the aleo or retrossal processes of the os pedis a condition theat far more frequently than the old and almost worn out diagnosis of navicular disease' which used to be
the invariable diagnosis by exclusion: whenever the invariable diagnosis hy exclusion; wheneve
the veterinarian failed to discover any other cause for lameness, it used to be navicular disease, but it pleases me to note that the fashion is dying out.
Vumerous other conditions arise from this malformamerous other conditions arise from this maifor the ankles are compelled to bear too much a physical or mechanical standpoint, as exists in he condition cited, and we all know how frequently ringbones arise in colts from the same existing con-
dition in the foot, and all can be obviated by the use of an ordinary rasp in the hands of an intelligent caretaker by keeping the toes short and dis ributing the weight evenly over the foot, while in after-life, with proper shoeing, the foot is likely to
grow in the directions and at the angles it has been induced to grow in early life.
In the other colt the opposite condition may be seen, and that is for the toe to become worn and
broken off and the heel to orrow disproportionately high and steep. which also has its bad effects on the foot in after-life. If the horn grows too perpendicular there becomes an uneven pressure on the ospedis the phalanges are destroyed, and consequent imperfect articulation ensues: This is a frequent source of lameness, as evidenced by periostitis of obviated by maintaining the proper angles by the use of rasp on ground surface of foot, producing the tendency to grow a normal shaped foot,
When the time comes for our colts to be shod,
more care than ever should be exercised My views are in on way radical or original on this point, as they are laryely an endorsement of the views, set
forth by others who long claim to be authority forth by others who long, claim to be authority on
this subject
One point 1 want to emphasize as important, and that is that the shoos be light and never portant, and thick at the heels; at least, the dressing of the foot
that and fittings of the shoe should be such as to allow the frog the colt's foot is sure to suffer as soon as the frog is removed from the ground.
One of the most important faculties for us to
cultivate is true sight, and by constant application with the use of calipers and rule we will in time fttain that proficiency in this one thing that will be ness. Most of us sould recall the amusticating ing lameness. Take, for instance, many road horses: june
the slightest bruise on the metacarpal bones will pro duce periostitis and consequencar lameness, wind aro-
traceable to an uneven foot destroying the traceabie to an uneveraight, dine of the the natural perpendicular or straight line of the limb during not the foot in the way of the leg, as when one foot
is perfectly level and the other uneven it is the leg esting on the natural straight way. Ask for proof. Shoo the
noot level.the offence stops, and lameness-if injury foot level the offence stops, and lameness-if injury
is not too severe soon passes away is not too severe soon passes sway. work, gets fed strome and driven hard, and there i is
wery tendency to produce congestion of blood every tendency to produce congestion of blood
vessels of the foot from so many causes. Our great bjeet is to obviate or minimize the several factors
hat predispose the foot to become congested, and here, again, I say matintain your foog pressture, and
when that lears its due share of weight and conassion brought to bear while in motion, either
apid or slow, the other parts will not be compelled rapia or siow, the other parts will not be compenled
to peara nundue portoon of weiiht and concussion.
Here, when the frog is not sufficiently developed, Here, when the frog is not sufficiently developed,
the well-adjusted loar-shoe is of inestimable benefit. I dare say that most of us have noticed that
when the grain wais taken from a horse tudd he was urned to pasture the feet lose hrittleness and grow tough and strong. This is not due entively to the
moisture obtained from the wet grass and dannp ground, but is partially due to the healthy con-
hition of the stomach anid atsence of inflammation
In the feet. To go into all the causes would take to long,
for the suli.ject is an inexhanstible one but heredity
Inust not ine overlooked. INeredity influences the
very true in this case. So it is not surprising to see the offspring of a sire or dam who has bad feet showing a predisposition to the same condition.
Nevertheless, I think it wrong tolook on hereditary influences as inevitable. Take the young offspring and employ every means to obviate and overcome the tendency to follow in its parents' footsteps. and the a strong and comparatively healthy foot, and the offspring of that animal will prohably be showing that heredity even in this can be success fuly combat in pron
Of the artificial appliances, we all know many to deprecate the necessity for using, and that is pad on soles and frog. I have failed to find where they have been used any length of time that they have most cases the frog never regains its previous healthy state. Asphalt pavements seem to render this inevitable in some cities. Aside from this, it is The use of hof ointment I thints is a dirty hum bug. Water properly applied is of more permanent benefit than any other application that I have been
lucky enough to meet with.-Journal of Veterinary lucky eno

QUESTIONS AND ANSWERS.

## Ar's Advocate are answered in this de partment free.

2nd.- Our purpose is to give help in real difflculties; thereterest or wostice appear to to be easked out out of merece not of of gitneral in

 be fully and
not be given.

Veterinary.
Aething in mare is troubled sometimes with times both. Seems to lose power of them, and will The leg seems to be painful. Has been affected for wo months. We first thought it was her stifle, but ried every thing that we knew and what the neighbors coutd tell us. The mare is no better, although order. She has done no work since she was taken sick. Runs out daytimes, and is put in the stable at night. Seems worse in damp weather. She gets no
grain now, but was fed abont four quarts three times a day all winter, barley and oats
Roseisle, Man. Subscriber
From the symptoms you submit, your mare has an attack of rheumatism. Would advise giving her morning and night. In addition, give two table spoonfuls of Fowler's solution (to be procured at a ovarian trouble.
Caluable you please inform me, through your heifer? She is three years old, and lost her calf in February. Cause unknown; first calf. She was that did not ripen, but was frosted. Is in oat sheaf dition, and comes in season every few days since, but does not get in calf. I bred her to my own bull with calf. Is there but she does not appear to get with calf. Is there anything I could do for her?
Glenboro, Man. as soon as possible, as the symptoms submitted indicate disease of the ovaries. The treatment to be favorable, it would be more economical beef her. You might consult your local veterinarian, and get him to make an examination.
Aborters are often hard to get with calf afterwards. WIND SUCKER-IMPACTION OF THE COLON in the stable. She will hold her head down and breathe hard, as if in pain. Don't seem to hurt her but is very disagreeable to listen to. Please advise. of the colon. It is very difficult to five her medi cine when she is sick. She has taken it as often on the grass as in the stable. She is fed on hay and What is best to be done to ward off the attacks? not a disease, although it predisposes to indigestion A strap buckled tightly around the throat just
behind the angles of the lower jaw will prevent it If the habit is confirmed it is very hard to cure,
and she will in all probability practice it unless and she will in all probability practice it unless the
strap is kept on. strap is kept on. indigestion in any form, are due to weakness of or digestive organs. I am of the opinion that your mare suffers from ordinary spasmodic colic, rather likely to recover from repeated attacks of that
troulye. Prevention consists in careful feeding.
Feed easily-digested food of rood पuality, and in seed easily-digested food of grood yuality, and in
small yuantities. Feed four times daily instead of
three, and give less at a time. Tone the digestive glands by feeding a lithle ginger once daily in her
food. (ommence with a teaspoonful each night,
and, as she becomes accustomed to the taste, grad-
ually increase the dose until she will eat a tabl fatal result of hernia following ca

I got a veterinary doctor to castrate my colt chain process at five o'clock Wednesday evenin and the next day at 2 o'clock the colt was dead after suffering terribly. He was the finest year-old fat and very active; sired by a pure-bred Percheron In five minutes after the operation his intestines came out. He threw him and put them in onl where the testicles had been, and then sewed him
up. What did he do to him, and what should up. What did he do to him, and what should he
have done? He said the colt was perfectly health that he was not ruptured in any way, but he strained himself. I do not believe that, but I believe he tore the inner lining some way, as he did not half tie the
colt, for he, the colt, could draw each leg through the rope about a foot, and all the time he was turn ing the screw the colt was floundering around. Before he did the job I wanted to get two men to
help us, but he said he did not want anybody help us, but he said he did not want anybody at my colt. Can I come on him for damage? If yo can, I wish you would answer these questions
through the ADvocate. I was offered one hund dollars for my colt from the owner of the sire ; wanted him for a breeder.
2. Is a fat bull as sure to get calves as a thin one both running in the pasture? G. FawceTt. IIn order to understand or appreciate the above knowledge of the anatomy of the parts. Leadin from the scrotum into the pelvic cavity is an opening. The opening from the scrotum is calle passage called the inguinal canal, and the interna are for each testicle. In foetal life (that is, before birth these rings are arge and the testicles pose thirth them from the pelvic cavity into the scrotum then, under normal conditions, the rings contract nothing but the spermatic cord being containe that the testicles connot pass throush so sma sequently do not reach the scrotum. This condition some cases the contraction called a ridgeling. In sufficient to prevent a portion of rings is no passing through into the scrotum. This constitute kind hernia or rupture. In many cases of this being sometimes drawn up into the cavity intestin other times it is in the scrotum. It is the duty of etermarian, betore castrating, to examine for hernia, and if it be present, to either postpone the
operation or operate by what is called the cove operation, but in cases where the intestine retracted, for the time being, into the cavity, it is probable this the presence of occasional hernia or it is possible that in the violent muscular ex ertion experienced in being cast, or in regaining Thade it possible for the intestine to pass through The operator cannot be held responsible for ac is one of the most approved methods of operation When the intestine appeared, the operator did right in casting him and returning the viscera. It
should mentioned into the pelvic cavityg the ring adopted to prevent its reprotrusion. It is probable that was done, and that you are mistaken in saying following castration is an to the scrotum. Hernia usually due to carelessness ornore of the operator, and frequently fatal in its result. men if ordine are perfored by professional men, can prove carelessness or gross ignorance, on the part of the operator, you should be able to recover 2. Excessively fat bulls are not as potent as those wear roal all males.]
My mare's foal was weak and could not stand string about 9 in. long, but on second day it starte good condiod in a few hours. The mare was in mare to foal next month. Will you kindly give a remedy if the next foal is like this one, and would When the enel M. strong, coarse string should be tied tightly around cut aboun inch from the abdomen, and the cord left on until it sloughs off. The parts should be dressed 4 or 5 times daily with 1 part corrosive to dress the parts with this solution in practice until the opening heals, as it prevents joint ill. I up to nurse every hour or two until it gains purgatives purgatives, but give injections of warm water with
a little soap, and insert your (well oiled) finger and are yellow in you can. As soon as the feces passed nium has all been passed. If the foal does not gain great deal of attention both day and night.)
bog spayin and capped blibut
ence two years ago. He puffed in the joints where the bog spavin came. I blistered thein and got it off one. There is still a puff on the other: it is quite
soft, and he is a little stiff when let out to hurt him getting up. He has never been worked 2. I have a horse with a shoe boil on him. It has been on for a year or two and seems hard and cal
loused inside the skin. What loused inside the skin. What would he best to
remove them? IChronic bog spavin, such as you describe, is very
hard to remove. There are different methods of treatment. The fluid can be drawn off with an aspirator (an instrument especially designed for
such purposes), and a little iodine solution injected into the cavity. This operation would prohably have to be repeated occasionally. It requires an expert to operate, and often is unseqisfactory.
Another treatment consists in frequent applications of cold water and the application of pressure either by bandaging or the use of a truss especially designed for the purpose. The hock is a very hard become displaced. Another method, and perhaps become displacea. Another method, and perhaps
the bets, is repeated blistering. Use the following
hlister: Biniodide of mercury, Usdre
 bite the parts. In 24 hours rub well again with the blister, pant in. 24 hours longer wash off and apply some vaseline. Let her head down now. Apply
vaseline every day until the scale comes off.' Blister
 to reappear.

Asurgical operation is the better way to
the tumor on elbow. The horse should be cast, firmly secured, the tumor carefully dissected out. and the lips of the wound neatly stitccted together. Then the horse is allowed to get up, and good antiseptic, say carrolic acid, 1 part, pand water,
70 parts, three times daily until healed.
TENCE OF THE URACHU

I have a colt, foaled on the 9th of May Mmported Clydesdale stallion and a heavy mare, that ess, and will make its water and the fors and make it again a half-dozen times in succession. It is constantly hinching from one hind leg to the It will run and play in the field when it is sut had a filly from the same horse and mare last year that was just the same. It is the third foal that the
mare has had. There was nothing wrong with the first one; it was from another horse. the cause of the leaking? Has the 2. Is there anything that can be done for it? I hied the navel Yast year, and left it on about 24 it was swelling and getting quite hot. It stopped
leaking in time, but did not seem to thrive right. I would not like dould hout the ADOCATE. hink every far der by the urachus, or navel, the opening of which should become obliterated at or immediately followescapes through this channel after birth for urine hen it is termed "persistence of the urachus" The sire and dam are in no way responsible for this 2. It is important to keep the foal in a clean box tanl. if inside, or on clean grass in a comparatively
dry field, if outside, as there is danger of blood. poisoning. Bathe the part well, three or four times aily, with the following lntion: Powdered alum
nd powdered borax, of each, $\frac{1}{3}$ oz; tannic acid and carbolic acid, of each, $\frac{1}{t}$ dram, and 12 ozs. of water; ;
to be well shaken before applying. Ifast year the string was applied too tight, causing the swelling
and heat referred to.
It is well, hower navel suspends sufficiently, to apply a soft cord just tight enough to binder the leakage.].
brain hoquee in horse. time He would make you think by his actions that the flies were bothering his nose, and some bot fly had stung him under the chops. He eats
and drinks well, and is in good condition. He has had distemper twice this winter; has $a$ cough ye common six art spring. His feed has heen buckwheat three times per day, and a pan of potatoes at night, after work; also a good forkful
of hay three times daily. About two weeks ago I - Hast Monday white around his eyes is very red. He has been in
this condition about six or eight weeks. H. M. J. IYour horse's brain is affected. It may be simply sure caused by a growth. If the former, a cure may
result if the latter, he will not get better althoug the symptoms may not become serious, $\frac{1}{}$ would advise you to give him a smart purgative of, say,
eight drams Barbadoes aloes, two drams either as a ball or shaken up in a pint of cold water and given as a drench. Allow him to run at grass after purgation ceases, and let him have a fiew
weelss restif possible. For affections of this kind
wittle good is that prescribed.]

Is lame on the rizht clyde mare, eight years old, that this spring I saw her limp first. She put the crop in that spring and took off the harvest that fall. year ago and is heavy in foal again. When she walks you could not tell she was lame. Thave had tell what was wrong. She is no hetter when she is doing nothing than when she is working. If she is for about a dozen stens when brought out of the stable first. If you know what is the trouble, please send a cure through the Farmer's AdVocate. m, Ilin my opinion your mare is lame from occult, ment, but in, which the true hock jow any is enlalged
Cases of this kind ared Cases of this kind are hard to cure, but benefit, and frequently a cure, results from firing and blistering.
which should be done by a veterinarian. A good test for spaviin lameness is to get an assistant to
hold the horse ; then you take up the hind foot and hold the horse; then you take up the hind foot and
forcibly flex the hock. As soon as you release the forcibly flex the hock. As soon as you release the
animal the assistant must walk her oft. 1 If spavin
exist, she will usually walk lame for a step or two

## ORE ES OF TEATS in cow.

A valuable Holstein cow, five years old, suffers teats and lower part of udder, the surface of which appears very much inflamed, and, after the first
lay, is dry and cracked. Have applied lard and find it beneficial, but it does not prevent the recurrence of the trouble. What can 1 apply to her teats to She is not troubled in this way during the winter while in stable. Subscriber of Some cows, on account of a normal tenderness and careful milking is necessary in order to prevent it. The application of medicines with
view to toughen the skin, as suggested, is usually not satisfactory, as such applications cause a dry the teats become sore use the following ointme One dram boracic acid, six drams vaseline, eight drops carbolic acid, well mixed a apply a little after milking. The application of a little of the ointmen
after milking reaularly will keen the ski pliable, and to a great extent remove the tendency
to soreness.

## Miscellaneous

We have a farm rented 12 miles from where wh ive. No one is living on it. There is wheat sown the fields along the road. It is fenced with a good road firb fence. There is a man living across the ning all the time on the road. They have broker through the fence repeatedly and done a lot of dam age. We told him civilly of it, and to keep them
out, buth not herd them. We cannot happen to catch them in to put them in pound,living so far away from the place. There is a herd law in this municipality
Can we compel him to keep them oft what steps will it be necessary to take? They 2. We have takene way last year , scrub, the work to be done in the year of 19001 . Can
we demand the we demand the money for the pay as soon as the
work is completed, which will be in a few days? Oypress River.
|1. Before youn can do anything, $\begin{gathered}\text { Subschiser } \\ \text { it will be neres }\end{gathered}$ sary to put the cattle in pound. You can then put damages on and get satisfiction.
z.
Yes.
.
inelgible for the brood-mare class. 1. Can a mare be shown as a brood mare that was
bred in the middle of July, the fair leing held Sept. 27, same year? foal. The section of the prize list submitted say " brood mare e ovith foal, or evidence of having had
one in 1900 ." The second clause shows plainly that three words, namely. "y her side," are understood could have no right to show, if her firest mating took place at the time specified, as she would not have
produced any thing hy Sept. 27 . To the पIlery we 2. Nothing woul
that the mare was with foal, cus fur, uns he lineuring the mare had been served and tried regularly arter
such service by the stallion, refusing in each case his such service hy the stallion, refusing in each case his
advances, we should presume she wis with foal.
Nonvil herd law and line ferences in the territ IWhenever the owner ors occupant of any land pier of the adjoining land shall, as soon as he encloses any portion of his land hy a cross fence con
necting with the said line fence, pay to the first mentioned owner a fair value of one half of said line party shall then do one half the work or pay one half the expenses in keeping said line fence in proper
repair, and if, after one week's notice from either party, the other shall make default in repairing said
fence, he shall be liable to compensate the other for his share of said work or expente.].
and of homestead.
A took a homestead, and after he had paid his on to his homestead. (Can he now turn it over to 8, supposing there is another application for same: lived on the homestead of A for rabout six months,
all at B's own expense. If B takes this all at B's own expense. If $B$ takes this homestead,
has he to pay for the improvements or (1. A has no right to tum over the homestead B. B's only course would be to put in an applica.
 should be some prior application to B's, such prior application would have priority. 2. If $\cap$ obtains an entry, he would most likely not have to pay for his improvements, if he prove been done with the intention of taking up nnd re. maining on the homestead.|

Can a stable $24 \times 24$ ft. be fitted inside to allow
cattle to stand head to head? If so, kindly give measurements, and oblige,
Vernon, B.
|Stable this width might be arranged as sug, passage and mangers in the center, 6 feet for stalls ( 2 rows), including gutters, which will leave 3 fee ciear for each passageway behind the cattle. Several
of our back numbers give detailed information re of our back numbers give det
the pranning of cattle barns.]
bromus grass.
Mr. D. McKenzie, of Middlesex Coo, Ont., left at grass, that was out in head, for identification. It is a fine-growing grass, about 30 inches high, and
somewhat resembles chess related. It is known like Bromus inermis, now so popular in Manitoba Its heads somewhat resemble meadow fescue in form, but the Bromus has short beards, or arms attached to the chaff. It comes quite early, and
therefore is suitable to form part of a phature mixture.

## Agriculture at Toronto Fair

















## A Banker's View.



Chicago Markets






BOBS, THE BELOVED.







 ins. hain waskivis, siep.












 ley







 abin
apptiomorow:



Herditill bew in in tew minutes;" sho said.


















## slight farevell hand grapp. then a frienall nod, and wilh at




## THE QUIET HOUR

## The Presence of God.

It we with earnest foriot could suce ced



 Andifit this we must onfeses erfill

Moses had been given a great charge, and felt
vierwhel med by the weight of responsibility How

 conla not succeed in such hat tremend ous undertaking if he worked single handed Think of the gracious
annewer
and answer- an answer that rings joyously down
through thousands of years, bringing courape and hope to the servant of God to.day as it did then My presence shall go with thee, and I will yive everybody is hurryincts to mantake overphsh, when and innumerable occupations distract the mind the prospect of rest is most desirable. Not rest after labor, but rest in labor is what we need. How this question is not doubtful. We are not told that some favored souls may find it, while others are forced to struggle vainly with anxiety and worry. laden. "Come unto Me," the Master says " heavy will give you rest:" command -should be prompt.
"I need Thy presence every passing hou
Who like Thyself my guide and stay can be?
But, if the presence of God brings rest, why are we not more restful? We know, as a matter of to realize His nearness. We struggle on wearily determined to do our best, but too often forgetting couragement which can brighten the dull hours like sunshine. In the morning we dress in a hurry, and rush through a prayer which is often little better of Thibet ground out by the praying machines they are at least an acknowledgment of God - but why do we open the door of a great treasury and

> Can it be that I rose in the morning, And took up the work of the dayy, With its cares and its crosses so heave
ith its cares and its crosses so hear
Wi thout kneeling a roment to pra
an it be that I took of lifeess blessing
With no thought of my God's lovings,
Without even one moment of prayer?
It is not want of time that hinders us from pray
ing. Our Lord has cautioned us prayers by their length. One real look up into His of gladness which comes from kneeling quietly on the Lord renew his can make one who waits up with wings," or irenth. He can "moun appointed duty gladly and joyfully as unto the My dear friends, I have received many kind messages of encouragement, for which I return very make this Quiet Hour helpful. Will you stop readis here, close beside you? on Him and then remember that it must be all righ if He has the management of it? Morning and evening prayers are a necessity to anyone who is but praying to God, and then - as surgetting you arerest of the day, will never win for you the fulfilment of the grand promise - "My presence shall go with

Can it be that at noontide, when resting
Frounthe burden and heat of the day,
In a cool shadr place hy the othe
Froun the burden and heat of the day
In a cool shady place by the waysuide,
That there I forgot too to pray
C it
'au it be when my day's work wac ended,
That 1 ne ver once turned my fouce cape,
To conmune with my Father in praver?
In order to enjoy the rest and refreshment of In a conversation with any friend, we going to say. olan out our topics, but one thing leads to another him is cenerally more to say. Wiendship with (iod, and communion with with ( Cod day after day is to become gradually always towards the Sun of Righteousness, catching
the light and reflecting it, some people show
plainly that they have "been with Jesus.". There is ward light, even as the face of Moses shone when he had been talking with God.
You have grand and noble ideals, but, where voil are phaced, it it in imposibile to to cary there yout
Remember the presence of God and prepared to give you the victory right herr
where Where ele has placed you. All the litille tiresome
Muties, which seem to mmountto solitite when decome grand and important when taken become grand and important when taken one by
one from His hand. .f you forget Him all day long no woonder yound get cross and impatient when long
vexations vexations and interruptions annoy you. If you
really love Him, and remember that each of the an opportunity of winning a victory you will fipht an opportuntity of winning a victory,y ou whiling fig
as a soldier should under the eye of his Captain.

$$
\begin{aligned}
& \text { He Thenere once thinketh to pray! }
\end{aligned}
$$

Clarissy Ann's Recipes for Layer Cakes
 Those light, moist, spongy ones, that taste ".just richte, one
recipeafter recipe,and tried timeatter time, with heated face
 would be hard and dry thorourchoutt: another would liook, b
 and volunteered to to pive me minute instructions in the art o
layer-ake making. From that to this shave heve layer-cake making. From that to this I have never hada a sing
failure in getting a moist, delicious cake, and I take much



 with the creamed outter and suyar, also one cup of sweet milk



 it tin two three or four layers. Bet ween these you may pu
soft custard alone or ustard sncead win
 strawberries, etc. Chopped nuts are very nice mixed in wedil
the custard or if preterred, no cutard may be used butside







 cream. Upon one detail I would especially caution you: Never stiry
the atiter for layer cakei al ways beat it briskly with a frm
Stift
 round oness The cake cuts more economically, and in more
attractive-looking piecess.
Besides, it it is no longer fashionable aurd there is a fastion in cakes as in every thing elsee to se Whole cakes, in their shape on the table. Instead, they look
mon bete rlaced in small squares on a napkin in haskets or
on fancy on sometimesone will have trouble in getting cakes to turn
oot ont pans nicely vithout breaking. To overcome thil
ioflcully covered with oiled paper. When the coake is is baked turn oun


 nyyers. The cake may be set away on the shingle until needed
loper
orr Tor cutting, If made according to the recipes given above,
these cakes will keep. even in summer. if set in a a cool place,
Ior



## Recipes.

Out of season, the daily dabundant, and domestio fruit almost Eks and farinaceous preparations. No simple dessert is more make and economical. and, therefore, well suited for a frequent
 of the milks, thoririughy , idd the surgar, and stir, then a little









THE FARMER'S ADVOCATE

Ingle Nook Chats. My dear Guests, -
I have been playing "guest", myself, lately, and
spent a few daysin the city very pleasantly indeed,
but returned to the dear old country home more than ever imbued with a sense of the numerous
blessings we enjoy, advantages of which we would glady avail ourselves. Opportunities of higher education, of hearing fine music and able lectures, of seeing rare glance we appear to lack in country life. After some consideration, however, we must admit that many of these luxuries are within reach of almost all who desire to use them; in some cases their has become so perfected that each, unless through negligence, may receive a good education-a foundation whereupon he may at leisure build a more ul enough to give ample scope for further advancement. Just here I might state that many of the nost interesting conversationalists and well-read persons have so by their own efforts. We may not hear great singers like Patti and
Albani-such treats are beyond many who live in Albani-such treats are beyond many who live in all may listen morn, noon and night to music such oyous warbling of the merry song-birds as they carol and trill for the sheer delight of living. All Hequently in pamphlet form, and may be ours for a
triffe.

As to works of art, either in painting or sculpture,
how far are they, even when most how far are they, even when most perfect, from
equalling the animate equalling the animate What floral painting could justly depict the beauty of a field of Clover and cowsli
like rival seas
Meeting and partin
Meeting and parting as the
young spring breezs young ipring breezze
Runs giddy rates, playing
seek and hide, Or a quiet woodland shy violets? Oh no, let the city folks rave enthusiastically over their imitations, the real ob-
jects are good enough for plain country people.
I cannot help a feeling I cannot help a feeling of sorrow when I see
a fine city square with its smooth-shaven lawn and prim flower-beds, with the inevitable pla-
cards," Keep off the grass "; and little, hungry - eyed children
walking demurely along the gravelled paths
when all the while the long to scamper over the inviting green and fill their hands with the forbidden fruits of the flower-heds. How they
would revel in our simple lanes, where
golden buttercups, snowy daisies, saucy
black-eyed-susans and the sweet pink and white clover grows in
wild profusion, smiling wild profusion, smiling
up into our faces and
pleading to be gathered pleading to be gathered
and petted! and petted!
And yet th
And yet the a verage city resident has unbounded commiseration for just such pour benighted "hay
seeds" as you and I, my friends. One lady spoke to me of the narrowness of country life. Narrowness ! changeful glory, and such wondrous vistas of field changeful glory, and such wondrous vistas of field hemmed in between high walls (what avails it that they be of brown stone?, with burning pave-
ments and glaring glass. To foolishly imagine that the feeble works of finite man can approach the sublimity of God's own beautiful creation! Their sky can be gazed at only through a network of
wires, and an unbroken view of a sunset is the privilege of the few. If, then, environment unconprivilege of the few. If, then, environment uncon-
sciously leaves its impress upon all, where does the narrowness come in? I wonder if the speake
knows what it is to be able to say with the poet-
"My heart leaps up whe
Surely she cannot have found "tongues in trees,
books in the running brooks, sermons in stones, and good in everything." And even were it true that (let me quote the speaker) "'most country people have,
not an idea apart from their cowsand buttermaking,' are they not as well employed as their more liter
ary (?) friends whose stock-in-trade is too often ary (?) friends whose stock-in-trade is too often the
latest scandal, the dresses worn at the last fashionlatest scandal, the dresses worn at the last frishionont our X . had but few competitions
Context X. had but few, competitory, However, the prize

summer.

The Symbolism of Flowers.
It is strange what a powerful hold mythical upon our minds, while solid history is forgotten remg Alfred's misadventure as a cook we wel remember, while few of us can give the actual par
played in history by that king. And now, $\cdots$ Bout knee-deep time in June," is not a bad time to run floral emblems of some of the countries. One of the earliest uses, perhaps, of plants as symbolic of kingdom
and olive

## The glorious old town, Of intorortal renown, With the noble Iovian

while Minerva bestowed the gift of the olive tree upon the city of Ataens as the greatest boon she could offer. Then we read, of the Egyptian lotus, which was dedicated to Isis, and it is evident that it to be a national emblem, for the sculptors were never weary of producing representations of the grand and massive blossoms. Passing the dark we find the floral language surviving in the where of heroes. Geoffrey of Anjou, when on a crusade, placed a sprig of hroom (Planta yenista) in his
helmet as a token of his lowliness and Christian humility.. His descendants adopted the badge, and thus came the family name of the Plantagenets, or wearers of the broom plant. France appears to
 and I hope the result will prove an emphatic refutation of the
ealumny that we of the country have no ideas anart from our
necessary duties. See last issue for particulars, and evervbody necessary duties. See last issue for particulars, and everybody
send in a list. Ingle Nhe Hostess.

## Summer.

Ah! summer-time, of lovely flowers, Sweet perfume lingers every where !
In blossoms sweet, of fruits so fair : The meadows, where the new-mown hay
Scents the air all through the dow The sky, with clouds of azure blue, ovely river floating by, Bears the breeze of summer nigh. Birds of beauty, singing free
Carol songs in joy and Lambs are skipping o'er the gras The animals seek the shady dell, And drink the water from the well. Children, playful, dancing by, Insects, filies and bwors bect Insects, flies, and buzzing be
Lovely butterflies we see. We shall seek the pleasant shade,
And praise our God, who And praise our God, who all hath made Scents of summer, oh ! so fair,
What shall now with it compar
 The four emblems of the United Kingdom all
appear to be entitled to claim a respectable antiqui ty. The splendor of the blossom of the rose migh that bold and haughty nation which has graces of lion as its emblem in the animal nature, but the special monarch who first introduced the emblem I
do not know. After the historic do not know. After the historic quarrel in the representative of the House of York, and the Ear of Somerset, representative of the Honse of Lanca an ter, the rose seems to have become a favorite badge they adopted the white and red roses as their respective badges, which sent "a thousand souls to death and deadly night." Years after, the two were blended into the ""Tudor rose,", without a thorn, which shed only fragrance and olessing upo
devastated England. The thistle appears to have been adopted as a early period of the middle ages. One dark night a band of Danish sea-rovers were marching to assail
the encampment of a band of patriotic Scots wh were in arms to defend their native land. The invaders were close to the spot where the Scot were slumbering, when one of the barefooted Danes
stepped on a thistle and set up a howl of axony The Scots awoke and sprang to arms, drove off the Danes, and in gratitude to the thistle made it the
national emblem of the "Land o' Lakes," with the appropriate motto o scathed." The origin of the
adoption of the sham rock as the emblem o Ireland is placed in the
century when St. Pat rick was preaching t the Celts. In order to the theological doctrine of the Trinity to his pagan hearers, St. Patplucking a piece of sham rock, held it up as sym
bolic of the Almıghty "Three in One." If this story be not true, it is at least very prettily im
agined. In Japan, the chrys anthemum is highly esteemed while Mexico
flower, whis.
has its cactus. Napole has its cactus. Napole as his favorite flower and in England, upon each anniversary of the field, a primrose blos som is worn by his ad-
mirers in his memory. mirers in his memory. the world's history, flow ers have held a very important place in ro-
mance, story and song. mance, story and song.
Here we must mention the pine badge of Rod-
erick Ohn, whom the erick ohn, whom the
greeted with a t m en
Hail to the chief who in triumph advances
Honor'd and blest be the evergreen pine!"
And last, but not least, our own beloved maple leaf, a symbol grand and true. All over the world and into all ages, she has

The Virtues of Strawberries.
A medical writer says that the strawberry must
e classed with the most wholesome production of the vegetable kingdom. It is recorded of Fonteconsequence of their having regularly cooled a fever which he had every spring, and that he used to sayIf I can but reach the season of strawberries!" the principal remedies in cases of obstruction and viscidity, and in putrid disorders. Hoffman furnised instances of obstinate disorders cured by cating plentifully of them he kept himself free from eating plentifully of them he kept himself free from
gout. They are good even for the teeth.





THE CHILDREN'S CORNER

## Maggie's Ride

## Our darling pet, wee Magsie.

 Whe had jolly ood timme,
She had with the togs and old Tray For Tray was a fine old donkey
Swweet tompered and gentile and good And Margie would riod Audi. nuie was read yo tontch her,


## Poor Magkie eried sady at pari in

 But mother said "oWe really must mo
So back to the city they fared.

## Between Ourselves.

Very few papers have come in for our competition abount interesting animants. What is the matterer
I should think it would be a very easy subject to I should think it would be a very easy subject to
write about. Even creepy-crawly creatures, like snails, are very surprising when we come to study their habits. I don't want you to experiment on them, though, as some clever men have done, without considering their feelings. One man kept a
snail without food for a year and a half. Another put some snails in a closed box, without light or food, and almost without air, and kept them there more than three years. Some of the unfortunate creatures lived through the experiment, but 1 am
sure they didn't enjoy it very much. Snails are sure they ly ant eto
wonderfully strong, too.
No wonder they are No wonder they are
able to drag their houses after them, for one
dragged for ten minutes a stone that weighed sixty-seven times as
much as itself. If your could do that you would be able to drag several
thousand thousand pounds after
your. Multiply y ite you Multiply youl
weight by sixty-seven
and see if weight by ixixty-seven
and see if If am not
right. right. A snail goes in-
to his house in the winter and fastens the entrance with a sor of plaster. How would
youl like you like to have noth
ing to eat for month ing to eat for months
Mr. Snail makes up for his long fast when the spring comes, for then Trapdoor spiders are very interesting, too Thy make their house in the ground, and cover
the top with a round the top with a round
lid-just like a trapdoor with a hinge. I once saw one that had been
dug up and dried. When the fitted pe fifectly.
There were no bady
The fitting joints, and no
one could see that there
was a loor there. A
man in Australide once found one of these spider houses with a door made of a sixpence, The
coin was covered on top with silk thread, and
underneath it must have been swept out of the tent with rubbish and then found by the spider' who probaibly
thought it was just the thing he wanted. Wis thought it was just the thing he wanted. Was
that instinct or common sense, do you think? A house made of silver aud selise, must have been very
grand ; but I dontt think it would be very comport. grand; but I don't think it would be very comfort.
atle to live in a house made entirely of hairpins, as able to live in a house made entirely of hairpins, as
did a Paris pigeon of which I once read, but they As this has been a chat about animals, perhap I had bette
proof folk

##  <br>  <br> The turle watesated <br>  <br> 

historic spots upon which I tread. To the young lake in at every pore all that history can teach youl them doubly your own when you can see them with your own eyes, needing no one to act as your
interpreter. Do not think that you can leave for ater years the formation of your tastes in art, chance comes to see what the hand of man can by culture achieve, you will not bring to them a mind hrepared, an eye educated, or a heart to respond, to glorious old England at all. Verruom sume Perhaps at Oxford this sente of a want of elucational preparation troubled me monst. The very air
breathed education, and had so breathed it from 12eathed education, and had so breathed it from the almost see passing to and fro through the corridors of the old colleges, in the halls, libraries, museums,
seited in the ghal seats eateed in the chapel seats, Hitting across the old structures, up and down under the fine old trees, very phalanx of old-time worthies who had helped to make famous the oxford of the past, and who had, in turn, been helpeaxford ne thy their Alma
Nater. To e take in" Oxford seeing eye, but with the understanding, head and heart, one should spend at least a month there to get gradually into full comradeship with it. In the could hardly get further in our açuaintanceship than what is called "on speaking terms." The Oxtord of to-day is probably traiting its great and fis foundation, hut as Fin and I watched the Oxford men, the undergradnaites, some in student-like tudes poring over their hooks on witdow-sills or
 I am afraid that I have seemed sadly to neglect
my readers in the ADVocate, not having sent them any notes of travel for some time. The fact is, as
my little message of the 2ind of May will already
have told them, we two Canadians have been seeing have toid them, we two Canadians have been seeing
and doing so much for the past two months that we have reached our temporary quarters at night too late and too utterly tired out to write two consecutive lines. The simple enumeration of the
places we have visited since the date of my last places we have visited since the date of my last
notes will be our best plea for forgiveness : All galleries, and, of course, the Royal Academy; all sorts of museums and art collections, Hampton
Court, Kew (Iardens, Richmond on the River, Court, Kew Gardens, Richmond on the River,
churches, cathedrals, castles, general post churches eathedras, castes, general post office,
Roval Mint and Royal Mews, Zoological and Royal Botanic Gardens, Hyde Park, Rotten Row, Madame
Tussaud's Wax Works Tattersal's Stables the Tussaud's Wax Works Tattersall's Stables, the
Crystal Palace, Royal Military Exhibition, Grand Opera, etc., etc., etc.
the whdon is certainly the most wonderful city in whose pen cannot half express the impression it leaves upon her mind, and whose powers of descripfrief air when she desires to share with her inspired. Perhaps at flrst the strongest impression is that of a parsonal sense of ones own insignifi-
cance, one's incompleteness, one's educational shortcomings, one's sense of loss in that in earlier days one let opportunity after opportunity slip by of laying a good foundation for maturer years to build
upon when chances of travel should come. Well $m$. upon when chances of travel should come. Well, my as it were, on familiar ground, on ground which early study had made my own, I feel as one who gropes, and who is glad of a stray twinkle of ight
maggies ride.
on the Moors Bank, and noted others evidently on pleasure bent, we wondered what threads they were weaving into the fabric of their lives, and how for the glorious opportunities with which happy $y$ friend and once more numbered amongst the six millions or more people thab we have all over Canetropolis, the Atlantic to the Pacific. Like the now fanom microbes (the healthy species, of course,), no on appeared to " mark us ": we were free to come and go to any part of the vast city, at any hour, or by
any means of locomotion. The masses, the crowds are so quietly disposed, so imperceptibly and wisel restrained, that we might have been walking through the streets of our own dear little Ontario city,
so far as our sense of safety was concerned. We so far as our sense of safety was concerned. We
soon became familiar with the different modes of transportation, and after sampling every kind, including steam underground, electric underground 'busses, we are now generally content to cabs and top of a penny 'bus and take in the scene, in common with the swaying mass of humanity which shares with us the accommodation of that elevated "tuppenny tube," is new since my last visit to London. It is 85 feet below the surface, and runs a distance of six miles through the heart of the city up and down by lifts, and of course this is the fastest way of getting over the distance. It is called "two penny" (four cents), as that is the fare charged whether you go by it only a part or the The last trip I
The last trip I will record is a run into Kent, where we spent a week pleasantly in Dickens' Land,
Rochester, Gravesend and Cobham. Rochester, a quaint little town,
stands almost exactly where it did in the old ${ }_{1}$ Pickwickian time of 1827. Few, perhaps,
know how much the place is bound up with the great writer and his works. Here is the
old castle described by old castle described by
Jingle; Fort Pitt, where Jingle; Fort Pitt, where
Winkle's duel took place; the old Bull Inn,
scene of the ball ; the scene of the ball; the
Cathedral, East gate House, Minor Canon House, Mithor described in
Row, all
Edwin Drood Edwin Drood; the ter-
race at Chatham, close race at Chatham, close
by, where the Dickens fanily lived; the Seven Poor 'Travellers' hos-
telry; Gadshill, Cobham Hanl, with its alms-
houses, gallery of pichouses, gallery, of pic-
tures, Dickens' Chalet,
and the old and the old Leather-
bottle Inn to which Mr. Tupham retired from the world, -a cluster of memorials of intense interest to all true Boz.
zians. zians.
The whole of Eng-
land is one great park land is one great park May is out and in full and pink horse-chestnut trees. The weather is perfect, although we are told that the farmers need rain badly, and they probably will have it long just yet. I am now at Eastbourne, within sound of the glorious sea, and I hope to get to the Glasgow Exhibition in August. With engagements three deep, I do not know how soon to promise that you
shall have anothor letter from-

How Long Do You Sleep?
Natural sleep is something that can't be regulated by any formula. The body takes what it needs, be it much or little, and the necessary amount varies With the individual. In a general way, four hours
is the minimum and ten hours the maximum for people in fair health Wither more or less is a pretty sure sign that something is out of gear - usually something in the brain. Says a physician, "I have two patients who sleep Both are middle-aged men tolerably good condition. works very hard. Nature can repair its losses in four hours of unconsciousness. In many other knows. personal observation was that of a bookkeeper who used to sleep two or three hours a night through
the week, and on Sunday would catch up in a wenty-four hour nap That is no exaggeration, He seemed to the able to known to all his intimates. he seemed to be able to store away nervous energy
as a camel stores water. His general health during ats a camel stores water. His general health during
the twelve or fifteen years I knew him was ex-
cellent.

## Help (0ne Another

Do whatever you can to help every struggling the poor sick man that is by you, the poor wronged man whom your influence might vindicate, the poor boy in your shop that you may set with new to look dark to him. I cannot tell your what $i$ it is You know your dury. No man ever looked for it ind did not find it -Phillips Brooks.

Humor, a Sweetener of Lifé.
Whilst I do not for one moment believe that umongst our readers are to be found many, or, in-
leed, any of those who are said "to go through life whining," yet there may be some so weighted by ife's real cares and responsibilities, or so harrassed by its petty worries, that they positively cannot
realize that life has its humorous as well as its sad realize that tife has its humorous as well as its sad
side. To them I would recommend the cultivation of humor as a sweetener of toil and as a panacea for many a trial. I would assure them, also, that it is a
quality which can be cultivated and will revarid cultivation. In humor we may find, a bright and sunny pathway towards the solution of many of our problems, the magic key to unlock many a treasure. tore of wit and Wisdom, the "open sesame" to
many hearts. Some may be "so resolutely bent upon being serious" that to them no humorous side of any question presents itself. So much the worse for themselves, $\begin{aligned} & \text { of so thing as they will let the rest } \\ & \text { of }\end{aligned}$ of us have our little langh sometimes, we shall be
content to sit at their feet and at least try to temper our wit with their wisdom.
Life has its humorous as well as its serious aspects. Laughte to hespir, laugters, but whilst daughter of hope, is much more likely to cheer the heart and strengthen the hands for the struggle gainst those ills which have caused the tears. It than could even the most heartrending cry of the despairing soul. Laughter is akin to tears; pathos is blended with humor. They are as twin sisters ioined to hand in loving grasp to start on errands of mercy or to encounter the foe.
Mr. Edgar Wiison Nye, better known as Bill Nye, spoke of him as not being one of those who "think spoke of himl as not being one of those who "think
they are pious when they are only bilious." "I have always sort of wondered," wrote Mr. Nye,
"why the children of a king should go mourning all "why the children of a king should go mourning anl own mind the question why the clergyman and the man who rides a bicycle should never smile. It seems to me that if 1 could be as good as many
preachers appear to lo. I would be radiant with gladness all the time. You have proved to me that a clergyman may have a good time, good health and long life without injury to his piety. It is fully as unjust to put down all clergymen as enemies to
humor as it would be to assume that all humorists were destitute of religion. So you see, my dear
 us both." I honestly believe that there is hardly any situation so hopeless but that, if not an actual
remedy, yet an amelioration can be found for it when its humorous side is sought for. Even the dear old lady who had only two teeth in her head
found her consolation in her little juke that although found her consolation in her little juke that although
she had but two, they were "one top o' t'other, and so she " might have been wuss off." Some of us, too, may recall poor Tom Hodss "IDar mee. Fanny,
thats a monstrous deal of mustard for a very little that's a monstrous deal of mustard for a very little
meat," when his sorrowing wife, upon whose face meat," when his sorrowing wife upon whose face
he sought to raise in smile, brought the big mustard
poultice to lay uno hhis emnacited chest. Hlushes poultice to lay upon his emaciated chest; flashes of merriment hreaking forth even to the last
monent of his life, in spite of almost unendurable physical pain and mental anguish. Of Hood's wit we
are told "cit was always kindly gracions and synu pathetic; never caustic, never coarse, and never ainted with distrust of the good ness of God.
$I$ would submit that $I$ know no factor more ful in making the rough places smooth in our dail lives than a helpful and healthful sense of humor. It can act as did the bright sunshine in the well:
worn old fable of the wind and the sunn hoth to make the traveller cast off his cloak. The wind only made him hug it the tighter, whilst the merry ness of heart. Where the most solemn protesttail, often a little playful remonstrance will gain the many a household hurricane has been averted by the comic vein de the offender or offended. Let us advo. (cian turn a domestic calamity into a ioke, and thus make it possible for even a hungry man to go minus
a a promised dainty without a scrowl or without
the adiministering of a scolding to the perthaps Mually disappointed wife. Truly, humor between
Musland and wife is an inestimable boon, and its ithience little short of a calamity. Try it, my

Ideas, Humorous and Serious. Tisa well known fact that in and water will mot mix.


1 Pim in the Fence
Didat never oberree then n pipi in the fence
To punith hin ere her gete outhermecres tar

Well. wine qrè not all of the creatures that be.
Whio find themsel ves sticking bet wecn


Shuffle-shoon and Amber Locks.
Shutle-shoon and Amber lock:
sit tugether, building blocks:
shumbesto
Mamberhoon is ond and gray,
But toget herats theitir phay

When $I$ grow to be a man" "an)
(sot the wo wness pratte ran)



Shutte- hoon in old and gray:
Thuts 1 builded lod
lon ago



So they gasis at their play,
Hceedeseso os the fleeting dayy:



## Harmonies in Color. <br> Black and white <br> Blue and gold. Blue and orange <br> Blue and salmon. <br> Blue and maize. <br> Blue and brown Blue and hlack. <br> Blue, scarlet and lilac. <br> Blue, browne, arimsock and gold Blue, orance, hack <br> Rue, orange, , black and white. <br> Red, gold and black. <br> Scarlet and purple. Scarlet, black and white <br> Orimson and orange <br> Yellow and purple <br> Green, crimson, turyuoise and gold. Green, <br> Green, orange and red. Purple and yold. Pruppe scarlet and <br> Purple, scarlet and gold. <br> Lilaca a nd gold. Lilac, scarlet and white or black <br> Lilac, scarlet and white or blat Lilac, gold, searret and white. <br> Lilac and black. Pink and hlack <br> Plack, with white or yem and crimson

## Buying Fame.

"The only capital needed to embark in the pro.
pen.". had read the words and pondered over them until the golden curls on her forehead peeked down into her eyes to see what it all meant. $V$ isions of a future spangled
rose before her.

Yes, she would adopt this fourth profession Puteing on a love of a hat and a dear, dainty
ittle wra that purchase the necessary outfit. Reaching the book store she looked out from under her drooping plumes and coguettishly asked for a bottle of the very best ink. When placed on the counter before her it was
ike an elixir, so many grand possibilities flashed hrough her head.
there was any make she preferred, she heing tated and
then said : " Yut I most forget what it is. It's like
vermicelli, or varioloid No, that isn't it. Could it
Really, I don't know," replied the puzaled clee ie? On must be looking for something quite rare,"
Yes, I am : but |ve sot money to buy it if I only knew what it was." "By the way," questioned the inspired clerk,
"could it he versatile" "Yes, that's it. I knew I'd find it. A versatile pen is what TMm looking for." we have none in stock.
"I an sorry, miss. but we They are very rare and we hrave little call for them,
as only geniuses use them. You see, the points are all dipped in gray mater and attic sathe, and (.e. (iray isn't beciming. I never have it near me, And turning, she walked away, unconscions that she was
robling the world of a literary gem. Lectroit Fr,erss

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the fertility 0 F the land. - Roberts. 372 pages. $\$ 1.25$.
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These are a little larger than the nsual These are a little larger than the ussai
Ladies Watccles, and are smaller than the undies Boys Wathes tholigh can be be use
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ful facts, tables, formulas, receipts, agricultura ful facts, tables, formulas, receipts, agricultural
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Market.-We have recently received on an library table a copy of "Fitceing Sheep tor
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to many, especially to the novice whose tion is to excel in the breeding, feeding and trated and indexed. The price s 81.50 . for which it can be secured from this office, places i several chapters: Fitting shoen embraees general management of the flock raising hot house lambs, common ailments of the flock
and ho and how to heal them, forage crops that are
especially tering and dressing sheen sand and the slaugh ket. The work is published by by the Drape
Publishinug nad Sundy Cow

## GOSSIP

mentivef D. Allison, Roland, Mann., offering tise Shorthorn bull calves for sale. The characte joined notes: Strousa Stamp is by Riverside Stamp, out of Daisy of Strathallan, the first
prize cow at Winnipeg, 1898, whose record includes such wins as, 3rd as calf
Toront Whento: sweepstakes 3 -year-shd at London
old she beat the Tononto
 respond with wanting herr-headers should cor-
plums are rine for Allison at once, as such
pition plums are ripe for picking and will soon go. stockmen will give one an year a visit to the of the show
likely to be made
int frinishing toumhes have the fairs, although
yisit to Prairie Howe yet to be added. interesting just now, as the herds will, in all
probability, be to probability, be seen at Winnipeg, Toronto, and
Buftalo and should laurels be wor at the two
latter shows, it will be of considerabte the the smaller breeder to have aline on the thpe
of cattle now in favor in the big show-ring
Horsebreedin in portation including such good ones as King of
the Clydes (imp.). now in the stud the Clydes (imp.). now in the stud. As his lios
of honor aren humerous, beating such goor
ones as Cloth of Gold and a Barons Pride co and his stud duties heavy, he will not
shown this summer Shire Berry \& Geizer, Heensall. Shire horse, got from
Hood, is very popular with the bame Robii
Het tout draft horse is a half-brother to Belphaz Golden Rule by Pure Goll, a bay yearling, is
likely colt, with a good shoulder. and has plenty of substance. back and jo brood mare is Boydston Lass liast year' Win
nipegg weepstaked Clydesdale mare) by West
field Stamp. She has at foot a col fipeg sweepstakes chatesdale mare) by west
fiel Stamp. She has at foot a coit foal by
Royal Reward (10003). Interest centers, howny Yule is the cicernse. Which he is able Winnipeg medicos to give hittempt of smallpox. The
quarantine enforced warantine enforced was raised as soon ai
it was found to be a false alarm. old Judge
was seen in the felds with his harem, and is a factive as a kitten. Jubiliee (imp,), that good
 earling, Cumberland by name a a grandson o
Blue Ribbom, will be worth watching. He is
thick-hammed. deep-flanked both hing nd has the full crops, bulging neck vein ar
vell-a

 the former owner of this sty lish red-and-white
bull. Ribbon's Choice is good through the heart, and has a good top and uroer line,
manculine crest and mellow kin. His lam
by Goldfinder's Heir 2nd (imp). Havina, Blossom, a yearling roan, is especially trina
in the cons and neck vein, with the flesh cas.
ind will dow ried well down over the ribs, A sweet hand
and well-developed bosom, together with oher good qualities, , make up a very attractive pic
ture of Shorthorn femininity. Bright Iight,
tur light roan yearning, its a tyty. Bright Light,
heifer, with the required depth in the topped
hwist Matchless 25 th, the full sister of Flatt's Match
 well-let-down flank. Freida, will be remem
bered as an exhibit at Toronto and Winnipes. This roan cow needs no description, except
say she is carrying a wealth of flesh. Lena,
firstarize wint first-prize winner at Winnipeg, sho ws evidence
of good milking ability. Matchless, the ance of good milking ability. Matchless, the ances
trese of so many good ones, was seen. She is
still breeding them. That hig-framed cow stess or so mang them That big frented cow
still Mary, mother of Royal Jugge is still at
Roan Mat the business (lara (inmp.) a red t-year-oll
with a skin like a glove, level back and well covered loin, needs only to be seen to be appre
ciated. Regalia, the first-prize calf, has made
up to a flo
 Winmeg, ster rin reida, will doubtless be
noticed in the ring, as will the flve year-old
Red Pe
 tingent will not be weak, A roan by sir Colin
Campbell a red by Caithnerg and dhit by
Juape will all aid in inking the judge think
sume The all some. The liit would be incomplete did we
not mention Minure Bud, the roin winner of
the 2 -year-old c P P P





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ome 30 odd head, of both pexen and all ages. A number of young sows are in pig to Oak
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pt to think that cosmetices face powders, lotions, aney sapa, etce are the secrets for seauring aclear
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nless, the stomach, by properly digesting the tood taken into it, furnishes an abundance of pure blood,
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hat does not require cosmetics and powders to enhat does not re
hamce its beauty
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re used, no such dietiny is necessary. Take these are used, no such dietin! is necessary. Take these
abbets and eat all the good wholesome food you
want, and you need have no fear of indigestion, nor Want, and you need have no fear of indigestion, nor
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 some instances the prices were not up eo hied
pectatations. Yet in othert hey were ex ceded pect he average was fairly good The highest
and the
price, 8225 . was paid by Major John A. Mcit





 dams. and the average figured out at 1103
Capt. Robson, as auctioner, conducted the sall with fairness, yood juagment and skill. The
sale list is as follows Cows and Heifers.


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ton, Hewit

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Lucy bth, 2 years; James Brown.

 Monupent Rose znd, y year, w. H. H. EasterLhady Gillimour, i year; John sibbet, chip-
 Maid of Eveenston, year, JJimes Brownown
Qucenston Maid, I year; James Mitcheil \&
Jubilece nud, , years; Geo. T. stearns, Mar-
ion, N . T .



 Gen: White, 1 year; Johin Nesbitt, st: Cath

Archie Stanford, 1 year; D. D. Warner, St.
Niagaras chief, year; Geo. W.. Ryckimai,
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 by hant How it is done by mithinery. The
old. out-ot-date method of pulling the ears b m
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ant bind the corn into binledes. wich are dis charged from the machine in bunches and in
rows, ready for shocking A corn harevester
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Hethod rates the ears from the staks and shuk-
then, and converts the fodder int storer
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