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## FARM LABORERS

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## Che

# Farmer's Xdvocate mamen womo and Home Nagazine. 

Vol. XL
LONDON, ONT., AND WINNIPEG, MAN., JULY 27, 1905.
No. 670

## EDITORIAL

## Can We Look Forward to This?

writer in Farmer's Review ple for the teaching of agriculture in public schools cuoting in support of his argument the following from a prominent American Agricultural lecturer child that the origin, composition and uses of the objects by the roadside between his home and the school be understood, and far better for his suc cess in life than to be taught the heights o mountains that he may never see, and intricate problems in the higher mathematics, or the dead languages.'
We believe that this is an agitation along the right line, and that the proper teaching of agriculture in our rural schools will do more towards raising a crop of interested, successful farmers
than any plan yet invented.
Our Agricultura Colleges and Farmers' Institutes are all rightindispensable components of every really prosperous agricultural Province. At the same time, it must be recognized that the actual agricultural college training, leaving out of account its indirect effects and the admirable literature circulated by the institution, touches but a very small percentage of the thousands of farmers in the
Dominion. The farmers' Dominion. The farmers' institutes, too, useful
as they are, are of necessity somewhat intermittent in character, but the rural public intermitcourse touches every child who will ever follow a furrow, and that, too, at a time when the child mind is most retentive, holding for '" keeps. hings which would be remembered with difficulty if presented later in life. For these reasons the effects of judicious and systematic teaching of agriculture in such schools must, within a generation, be tremendous.
We repeat the word
We repeat the word " judicious." Some years ago ", agriculture" was introduced as an "op-
tion" into our public schools. The experiment tion into our public schools. The experiment text-books, admirable as auxiliaries for the teacher, were mostly written by those who, though thoroughly up in the subject themselves, seemed to lack that long experience with children, and possibly that peculiar teachers' variety o sympathy with them, which is necessary to every one who would write a successful text-book fo juvenile use. In the second place, the subject was taught by those who, as a rule, had had possibly, less in the subject themselves, and, and girls, for the most part, using teaching as a stepping-stone to something else, and provoked a the " nuisance" of having a new subject added to a curriculum which already scemed full enough Little wonder the experiment was a failure.
:n order to have successful teaching of :n order to have successful teaching of agri
culture, two things are most evidently necessary First, those who presume to teach it must them selves understand the subject, and be in thoroug sympathy with it We have always thought that
rural teachers should be rural born. Young rura teachers should be rural born. Young
teach rers from the town have, as a rule, but little sympa "hy with, or interest in rural life. Secondly,
the text-books must " begin at the very beginning " of the subject, and be as simple, as pracal and as interesting as it is posstble to make Children readily learn anything in which like the one at Kingston, N. B., described in the lest issue of the "Farmer's Advocate" "-with its
spacious garden, would be, of course, the ideal place for teaching this really fascinating and profitable subject,
wait yet a season,
In conclusion, then, wo think there is much the edvisility of the American lecturer re paratively courses are racked and wha which our school a reasonable amount of practical matter. It is all right to be able to tell the "heights of mountains one may never see," or the "dates" upon which some fusty old king of centuries ago began his reign and ended it; it is all right to be able fill calculate to a dot how long it will take to hil up with a quart measure a keg leaking at a attempting to fill it withony sane creature from leak, or to know among $A, B$ and $C$, in all sorts a sum of money such as no sane will-maker would ever stipulateprovided there is plenty of time for these things. Such mental gyrations doubtless have their value as a training, but it does seem as though the gJrating might as well be done to a greater extent along those lines which will be of actual alue and interest by and bye.
As the school system
Araduates with " Fntrance" the rural sohool is little likely to know " from wead from a clotbur, much less how to rid a field infested with these weeds. He is utterly at sea as to what grains grow best on certain soils, the best methods of cultivation, 'and a thousand other things which he needs to know right away. He is not made interested in the things in the country world about him-the birds, the plants, the processes of nature ; he is not taught to observe and the like, do things, unleess it be "sums " worth the avocation of the farmer If he for happens to be an A 1 farmer,and if he himself has sharpness enough to observe, and application enough to buckle down to studying really good agricultural books and papers, there is hope for him. If any or all of these essentials be lacking, he either finds himself up against a host of perplexities, or else-what is worse still-goes on half doing or wrongly doing things, without realizing his loss. The day has passed in which other may not present itself The change, giving agri
some other things a smaller proportion and tion in school, might, possibly, necessitate some changes in the examinations for High-school Entrance, but it seems that this is a difficulty which might easily be obviated. In all of the cities paid to ", great deal of attention is being culture be incorporated with shy should not agrirural public schools, with a separate paper expressly for rural pupils? More dimfult things have been accomplished by our educational authorities.

## Economical in Spots.

A few weeks ago the Postmaster-General, some private members of Parliament and a lot of fine spasm of economy when it was resolved turn down the proposal to give the farmer free rural mail delivery. Such ruinous extravagance was not to be thought of for one moment, but the scene changed with lightning rapidity when a huge salary grab came to be rushed through in the dying hours of Parliament. It was ac case
of "Help ourselves, there's money to burn," and friends and foes (polltically) foined in burn," and saw-off, but the farmer was not in He come in handy to grow the crops that foot the bills, but if he doesn't want to walk six mille three days a week for his mail after a harder day'e work than most M. P.'s perform, he can hitch up the old gray mare to the buckboard.

## Stock-raising in Asia.

As a result of the present war between Japan and Russia wo shall see a new Asia spring into existence, with new customs, habits and mannors. The demand for meat and other animal products from Canada is bound to increase in Japan. Her soldiers are learning the meat-ating habit, which will become national. Already we have ment purebred stock for breeding purposes to the little Ifland Empire. China is bound to follow Japan in adopting Western idees.
There should be a rapidly-increasing demand sequence of the live stock from Japan. In conEmpire towards her, she attitude of the British Empire towards her, she wil be naturally disthe Dominion Department of Agriculture should put forth every reasonable effort to faclititatio and ancourage the development of a trade in purebred stock, as well as in all farm and animal products in that quarter of the globe.
United States Vice-Consul
United States Vico-Consul Cloud, writing from Hangshan, states that up to the present time the Chinese seem to have had little or no appreciathefr verdant hill and mountain regions ot of than to use the scrubby trees as lumber or the brushwood as fuel. Apparently, the idee of using these vast areas of pasturage for grazing cattle, sheep or horses has never occurred to them, or, It has, they have never put it into execution. In Cheklang province alone there are thousands with a luxuriant growth of nutritioue year round enough to feed and fatten olmost countiena cattlo and sheep. Yet all this vait storehouse of weilth has been allowed to waste since the early daye of the race. The fact that these hills and valley abound in many varleties of deer, wild pirg and various other wild animals is proof of the nutritious qualities of the flore of the region. The teachings of Buddha against meat-eating are now being unheeded, and now all clamses of Chineme eat meat when they can get it, so thet the supply is painfully inadequate, and prices so high es to do classes. Pork is the except to the well-to a good second, and then beef in any form. Thus far desultory attempts at importing forelgn catthe into China have been made, yet these mttempt have been attended with most satisfactory result wherever they have been made. The German colony in Shantung has imported a number of heifers into that region, and farmers who are giving handsomely on their venture. Indealizing most its are much greater relatively than they wrould be on the same amount of labor and capital ployed at home.
There is an excellent opportunity for several enterprising stock-growers and dairymen to esand ideal most profitable business in the fertile growing foretgn region adjoining Shanghal, the would soon find metropolis. The stock-raiser and meat cattle, while the dairymar his breeders an eager demand for all of hil dairy producta

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London, Carada.

## Passing of the Summer-fallow.

In a recent trip across Ontario, the writer was hundred-mile ride hardly a dozen were counted, where ten years ago they were numbered by scores. The subordinate place which fall wheat now occupies in the farm economy is no doubt partly responsible for a falling off in the practice of summer-fallowing, but a furthor to utilize their land more wisely, accomplishing, ing, manuring and the cultivation of hoed crops, ing, manuring and thorough preparation for wheat which it was formerly thought could be secured only by sacrificing a season's use of the land. With the introduction of the silo and corn-growing, improved implements and more intelligent cultivation, it is
possible to clean a weedy field as thoroughly while raising twenty tons of feed per acre as it was formerly done in bare fallow, while the stock kept
to consume the feed supplies manure to enrich the theat ground and obviates the necessity of fallowing to liberate plant food. Thus, on the
stock farm the cycle continues-good crops mean more manure; more manure means bigger
only of wheat, but of everything else. only of wheat, but of everything elso
Summer-fallowing wastes fertility no plant food, except in so far as it favors thr ahsorption of a small amount of at mospheric nitro-
gen. It renders soluble a large amount of pant gen. It renders soluble a large amount and tamus, but in the absence of a growing crop to hy washing and leaching, leaving the land in poorer condition, chemically and physical that it went far to ensure a good catch of the nitrozencath rer. Clover, which did much to restore the fertility wasted liy fallowing; but we have now
found that, hy modern methods of cultivation.
crop with spring grain seeded to clove
up in the third or fourth y yar
rotation for another hoed crop, rotation for another hocd crop, or, per-
haps, peas or beans. Many striking instances haps, peas or beans. Many striking instually show tanting the time-honored grain summer-fallow and timothy regime,

## The Automobile Nuisance

Elgin, Ont., Farmer: " The article in the Farmer's Advocate' on the automobile nuisance
was a good 'one. It was right to the point, and was a good one. It was right to
strictly correct.
The 'auto' was well-named by the writer a 'devil machine.' Keep up a discussion till something is done to curb these fellows
who are making our highways dangerous to travel upon."

Messenger, a constant reader, Wellington Co., writes: "Your issue of July 6 th, on the
first page, contains an article on the automobile, first page, contains an article on the automo inot fully, and
every word of which I endorse inost every wo see many of vour readers express their views on this abomination through the medium of
your valuable paper, so as to awaken the public your valuable paper, so as to a waken the public
to a sense of the danger to which the females of to a sense of the danger to whe the devil ma-
their families are exposed from these dvisability of
chines.' Allow me to suggest the adrer chines. Allow me to suggest the advisability o
publishing the new Ontario Act which came in publishing the new Ontario Act which came in
force on July 15th, and was passed through the force on July 15 th , and was passed through the
House a few days before its close, governing the use of such machines. I will say this much at present: Those using them do not consider the
safety or convenience of their fellow beings, and safety or convenience of their fee that the poor
will add that it is very easy to see will add that placed on the same footing with the rich, for if a poor man brings his horseless ve
hicle on the public highway he must send somehicle on the public highway, and give all assist-
one to herald his approach, and one to herald his approach, aning to a full stop
ance in passing others by coming
and leading the frightened team or single horse and leading the frightened team or single horse
past but not so with the man who takes his

Tho Argus, of Montreal, in the following para Tho Argus, of Montreal, in the graph, sud pest. . I would like to see a radical
new road per
alteration in the law with regard to automobiles alteration in the law with regard to automobices
It seems impossible to enforce the present law
la which imposes penalties for driving beyond a
tain speed limit, because of the impossibility stop or to identify the offenders. A more sen
sible plan would be to impose a penalty upo sible plan would be to impose a pens possession a every mane capable of going faster that the pre
machine
scribed limit. The fact of a man going to th scribed limit. The fact of a man going to the
expense of buying a machine capable of making expense of buying a machine capable of makin
forty or filty miles an hour is presumptive evi forty or that he intends to break the law and travel at the rate of forty or fifty miles an ho
ever he thinks it safe for him to do so."
The Prairie Farmer takes the ground that steps should be taken towards devising some means hy which inese machines will pay heir food rura roads. This step has already been taken in New Jersey, where automobile operators will now be
called over toll roads. ${ }^{\text {coy }}$ (Nore. What about the roads on which no toll gates exist ?-
a proposition, the man who is able to support
and operate a machine costing $\$ 1,000$ to $\$ 2,500)$ and operate a machine costing $\$ 1,000$ to $\$ 2$,501 toward the improvement of the highway
seems especially true when he is so nnious for seems especiame of the roads. Not only should
the improvement of
automobiles be taxed for road improvement. hut laws should be enacted by which their speed wil

In regard to the request of a corresponden In regard to the publication of the Ontario automotile iaw we may say that the substance ocate" for Jul
length in the "Farmer's Advores
fith. The following circular has been issued 1 , 6th. The following circular has
the Provincial Secretary 10 the automohile ira
ternty and will be of interest : ternity, and will be of interest:
A marker issued with permit, on registration, must be prominently and securely fixd the automolite ber of the 1owed to he olscrured hy dust.
From sumset to sumrise the marker must hit From sumse to binated by a lamp. must be painted in hack figures not lers than two inches in height on the
illuminated glass of a lamp to lie carried promi illuminated glass of a lamp to the carried promi ground or stippled with white paint.
Not mare than ten miles per hour within any
city. city. town or incorporated villuge and without
the same not more than fiften miles per hour. Automotiles must not approach within ind ynid. in horse auing in the same or opprenc

Every automobile must carry a bell, gong or horn to warn persons approached.
No automobile race will be allowed on high Motor must be locked when on the highway and not in use. "vehicle will be responsible for all
The owner of infraction of act or regulations
The penalty for infraction of the act of regu is $\$ 25$

## HORSES.

## Attend to Your Horse's Teeth.

 The average horse owner does not appreciate of frequently examining his horse's mouth to ascertain the condition of the teeth. Of course, it requires some knowne and readily acquire this. In the first place he must become conversant with the normal condition of the teeth, in order that he may be able to recogention. The ability to rectify abnormal condiions is not so easily acquired. In order to do his a man must have expensive instruments, as a houth speculum, different kinds, tooth shears, etc. and he must by practice acquire skill in using them. The knowledge of what to remove, either y shears or rasp, is very important, as it is quitepossible to remove too much, and instead of improving the case matters may be made worse. It is usually wise and frofitable to take a horse whose teeth recuire dressing to a qualified veterinarian, rather ctan ta, some handy man who rinary dentist, who may have an elaborate set in instruments but does not know how to use hem properiy.
Colts or horses of mostly any age may require possibly consuming sufficient food but not thriving, are often dosed with medicines of one kind or another without effiect, when a little attention
to the teeth is ali that is needed. A colt when orn has twelve molar or grinding teeth, three in each row. Between two and a half and three
years of age the first and second in each row are shed and replaced by permanent ones, and between three and a half and four years the third tooth in each row is shed and replaced by a permanent
one. When the permanent tooth is growing the fangs or roots of the temporary one become absorbed, and the crown forced out by the permantht one, and when the latter has passed through drops off. In some cases the fangs do not all absorb, but sufficient remain to prevent the crown dropping off, and the permanent one forces it out faces of its fellows, according to whether it be in the lower or upper row. When this condition exists the colt cannot masticate well, hence lails cate what he consumes, hence he is unthrifty, fails in flesh, and becomes more or less weak. When colts of these ages are noticed to be dull
and unthrifty their molars should be examined, and unthrify their molars should be examined, be removed with a pair of forceps, which is easi!y done, as there is usually very little holding them in place. At four years old a horse should have
a full set of permanent molars, hence trouble from molar crowns no longer exists. At the same time, the teeth frequently require attention. The space between the rows of molars in the upper jaw is
considerably wider than that between those of the lower, hence the process of mastication has a tendency to bevel the teeth, those of the upper points on the outer edge, and those of the lower aw from within outwards, tending to leave sharp The hechs or the tongue, and thereby interfere
with mastication. This ondition, causing im with mastication. This condition, causing im-
perfect mastication, is often the cause of unthriff incss and, not infrequently, indigestion, either acute or chronic, usually the latter. In cases of
this kind the sharp points should be removed with tooth rasps of different shapes. In fact. here are fow horses that would not be benefted
hy having the ir teeth dressed every year. The Mtual charge for dressing teeth is $\$ 1.00$, and the
horse owner would find it money well spent to have the tecth of every horse he owns dressed once cach vear. There are many cases where no ap-
parent difficulty in mastication is noticed, but if the tenth tie examined the sharp points men-
tioned will be felt, and their removal will be the tioned will be felt, and their removal will be the
turans of allowing the horse to masticate more hailv and thoroughly, and thereby receive more enerally appreciated, and if veterinarians were to tell their patrons that their horses' tee th re-
'uired tressin' when no noticeable diffculty in
mastication existed they would be blamed for try-

The opposing tooth or teeth become higiae nastication. In such cases they should be cli dressed with a rasp. cays, and should be extracted, or may become split and a portion extracted. In fact, there are occur which renders the services of a man skilled in veterinary dentistry necessary for the comfort and well-being of the animal. The incisor teeth
seldom require much attention, except when seldom require much attention, except when a
temporary one fails to shed and is displacing the permanent one, in which case it should be extracted.
We frequently notice supernumerary teeth, called woir teeth,' in front of the first molars in the upper row. These are generally supposed to intaken idea. They seldom do any harm, but being
supernumerary and having no functions, it is well

The Disease of Automobiliousness.
which is becoming or alarmingly ease which is becoming alarmingly prevalent, und
which is already receiving much attention from scientists and carefur investigators. As it is
comparatively new in this country, scientific comparatively new in this country, scientific
opinion has not yet crystallized as regards its opinion has not yet crystalized as regards it
significance and its probable effect on the race
Abundant clinical material is at hand, however Abundant clinical material is at hand, however ough study of the disease and its phenomena fever, but the exciting cause is etiology of motor to be the diplococcus financii, although some ob-
servers insist that the bacillus getthereus is the chirectly fatal, seldom resulting is anyse is nevi than violent insanity in the patient, litule opportunity for post-mortem investigation has as yr
been afforded. It is supposed, however, that been afiorded. It is supposed, however, that the
cerebrum, which suffers the brint of the attack, is overwhelmed by these micro-organisms, which multirly so rapidly as to seriously obstruct the
wheels of that organ. wheels of that organ
Of the pathology of this disease we also know
little, but it is believed that there is a rapid hyfertrophy of certain brain-cells, producing enlargement of the cranium, moral anæsthesia, and
hypercussedness of the whole nervous mechanism. hypercussedncss of the whole nervous mechanism.
Gobbs reports one pationt, killed ly an irate farmer, whose brain exhibited extensive ecchy-
mosis, but it is uncertain whether this was attributable to the disease or to the farmer's club The symptoms are mainly those of intense
mental excitement. The patient exhibits a morbid desire to annihilale time and space, regard-
less of the consequences. His general condition is vividly, if not elegantly, describd by the
slangy expression, "chesty." He becomes impatient, autocratic, unreasonable, and acquires a strong aversion to officers of the la
and insomnia sometimes develop stages of the malady, hallucinations supervene and the patient exhibits strange tastes, such, xample, as preferring the odor of gasoline
hat of the well-known mephitis mephitica. disease is slowly progressive, and in time the paDiagnosis is not difficult, as a rule, although notor fever has been mistaken for mania a potu. the patient sees about him and feels that he must kill, while in motor fever it is usually wo-
men and children, though sometimes dogs and
small peculiar cold glitter to the eye that he has found pathognomonic, but other observers have not coning on the satanic has becn noticed in the tater
stages, but this is usually lacking in reat tims.
The prognosis, unfortunately, is lad. It is loubtful whether a patient who has the dis-
 ary amelioration of the symp, toms, but they us-
ually return at a later period, in a more violent orm than cver. dav, is irreleceant on motor-fever, as it stands toin every community who argue in favor of the
shotpun or the axe. As a prophylactic measure,
this here is no doubt benctit the people at large, for something of a deterrent, but there is no evidence
to show that it has ever proven paricularly satis-
fand to show that it has ever proven paricularly satis-
fantory to the patient. It is the tury of the
mundical profession to discourage those heroic measares, for the disease is courage thise herallont among
loctors, and grood men are already sufficiently
 ho discovers a remedy for motor i.w.-some-
hing that will do the work with natness and
hispatch, without endangering the. life of the victhe or jopardizing the horcafter of the rest of

## STOCK.

Co-operation in Selling the Products of the Form.

 ail canadin Notwo terd Il in ontarion why not tin
 those hogss and wirf the ceiving loossumer than coot price tort then tho beneit
 pound live weight theave fontom four to six conts per to itteen cents per pound. Al this graet proat botwem tho
 raiso those bacon hogs. We fand, by charghing markot Value oro foed and aliowning livg wagheo to those moo pound live weight, takising it summer angt einte per
 acta ot to otrober and mutton, and many other prod. how ong would the great manuracturerataond and mining
 armerr are run out and morty eged to tor mateo many




trade fix or manipulate the price of every staple agrt cultural product, regardless of the supply or demand, and regardless of the rights and welfare of producors
or consumers. From year to year the crowd of middlemen, speculators and yamblers have been on the increase, because they recognize the grand opportunities of operating between the horde or unorganized pro-
ducers on the one side and an equal number of organized consumers on the other side. number of uning the fact that all the agricultural products that have been produced in the past have been consumed, consequently should have always brought a proatable price
to the producers, because they were desired, we all know that farmers, hecause they were desired, we all dividual wealth than any other class of people. While tonishing that, and a deplorable one, it is no less asprivate, ostensibly maintained for the benefit of farmers, not one has ever attempted to better their con-
dition that dition through steady and profitable prices for his
crops. Now, we have listened cultural professors; also read a good many agricultural papers and books, and all their instructions agimed at the one thing, and that is to show us how to produce more and better products, and not one of them tried
to tell us how we could get a proftable price. If by good seed, good breed, good cultitation and improved machinery we double the production of our farms, consequently we would be drawing double as much of the
fertility of our farms; and if we were obliged to these products under cost, we would become bankrupt in half the time it would take under the present sys-
$\qquad$ How are we to find out the price of these tarm
products ? products? Firstly, we must put a valuation on our
property and allow bank interest on this stocks, the allow living wages, or as much as an mechanic recelves in the city, as it takes more intelligence and will to


Wizard of Malsemore
Abordeen-Angus bill. Winner of frat prike and ohampionghlp. Bath and Whet of
 Now il tharmera heappier than living in tho octs.

 to keop good meen hand. women would omable thom their bervice
 raiso the standard of trom ilio al al anm, thich the wiuld







 China and Russia: they pay the lowest wages and
prices for everything, and their people are the poores and most benighted-according to population.
ate to set an equitable price on to oll farmize and co-opercan be obtained by a large majority of the larmers This would mean that each member would sell a twelfth from getting a monory yone preventing the spoculator ways enables a monopoly of the food supply, that alconsumer. There was at time whice so supply and on the thend
were the factors that fixed the price of nearly all kind were the factors that fixed the price of nearly all kinds
of products, but that time has been past these many
da by co-operation will set ant equitemer of candithat other countries will sell for any price that "is
oflered them. We find that this is and the American Society of Equity, with nearly a million of farmars on its roll, and who claim the highier price be the result of co-operation to set other producter to on these commodities. We find, also, that the panes and many others are co-operating, to not only get a proftable price, but to manufacture many of the goods
required by those farmers. As necessity is the mother of improvement, the farmers. of the world, who wero the first and best society in existence, and who produced the most essential products of the earth-which is lood with othing-must assert their right for equal Juatice slavery from which our forefathers fought and bled of emancipate us. In conclasion. we hope that the "Farmer's Advocate," which is such $a$ foarless ex-
ponent of public opinion, will continue to kep ponent of public opinlon, will continue to keep this
important subject before the farmers of Canada, until,
by co-operation and by co-operation and organization, they succeed in geting profitable prices for everything produced on the

## Do You Want to Sell Your Home?

THE "WANT AND FOR SALE"" COLUMN MAGAZINE " IS THE ITACE FOB YOUR AD VErtisement she rates under that EADFA in THIS PAPER. ADDRESS FARMER'S ADVOCATE AND HOME MAGA
ZINE, IONION, ONT.
-HSheep and Pigs at the Royal Show. In writing summary of the shoep eoction of the
 dian buyer was present. Amongot shoop mon no tace wae more missed than the geinial, honest one oo Mr .
Robert Millers, whose regular attendanco at our Royal Shows for many yeari past made his abmence this year til the more noticeabio. On all hande it is truuthod
 him ugain next your.
The southdowne made the largest entry of any broed In the show, doubtloese due to some extent to the locatuon of the ahow boing very central for many of their
breedera, but the fact of their entry peing so much larger than any others shows that breeders of this clase appreciate the opportunity that such a show al lords them.
H. M. the King was doearvedly succeasful, and the
victory he meoured by winning both male and female victory he necured by winning both male and female
 Duke of Richmond, H. M. the King, and Mr. E. Elus, rama. Probably the better one, so tar ans type, quality and hoek wore concorned, Lit that with which the Dulke
of Richmond took pecond honora. In the geotion for
 yorring ramid with 27 entrios, H. Ha. tho King was
frot and thirc.
The Winning ram was mado champlon of the breed. Ho wan somowhit narrow, but had beau-
 mond, who camm in mecond, had one which dirtincthe Soathdown, so far as quality, deesh and leoce woro concorred. Mr. O. H. Bernere camo in r.n., with a wide doep, and good-laehed ram. Hoesra. E. ELlli, J. Col-

 won wirt of auperior morit, and easily Arrat, !ollowed by the Duke of Devonahire and Mr. E. Elliti. The contoen wae very koen, and tit have probable that Mrr. Enlis'

 merabury lock never in Its carceor hae been representod In theose two sections by more typical or more ovenly
matched rams. Mr. C. R. W. Adoane was secind In each of these classes. His pens, too, were of superior uuality, with very grand feesh, and wide and doep the carcass.
also took afrst prize, and with this pen won the femalo
 he a ward, for the better pen, from the breed point on
viow, was that which won second prize, i. e., Mr. EE Elis' ${ }^{\prime}$ pen. The Duke of Devonshire was third here. To quality ord Dord Dowest were well to the hore in rospect more thoroughly deserved than that ho secured this yoar in winning frrat and second for yoarling rame, and arat for yeorling owee. They were Ane shoep, with for yoarling rams, second and third for yearling ewee orrat foring owe lambs, and third and rr. n. tor ram lambs a record of success which at onco stamps his fookk as
boling full of merit, type and charscter, and need no no further comment to emphasize the hlgh class of thes ahhitas. Mr. R. W. Hobbs won hrat and fourth in
the ram lamb class, and r. n. in that for owe lambs Very Ane collection, Indeed, showing substanco, typ very good ontry indeod, and Mr. W. A. Treweoke ourth soecond and h. e. lor ram lambs and third and lambs on oxxibitition. They were very cholice in in quality good in their fleeces, and of a acale and character that The Shropshires, as is usual at this ahow, were largoly represented, with a thoroughly typical exhbibit.
The two shear ram clase had Mr. stud ram at itte head, frat as an ram lamb at the Royal, Arrat as a yearling ram at the Royal, and now
Arat as a twoshear, a record which thow the superior merit of this particular sheep. The yoarling ram class Was hardly so oven in quality as wo have sean it be
fore. the winning rams there was no doubt that
 for two very choice sheop of merit and quality. Mr e. Nook took third honors, with another very nitc ram. In the pens of five yearing rams, Mr. Cooper
won again, and here was even type and good quality Socond honors went to Mr. M. Williams, who had nice lot of sheep prosent, with good merit. The third prizeotinners here were a very choice pen indeed, fron
Sir P. A. Muntz's fock, and these certainly recoive Io P. Muntz' Aock, and these certainly receive no more if as much recognitton as thir merit and
type entitled them to. Mr. E. Nock followed with pen of rams, of very good quallty and merit. We may
mention that the whole of MIr. Cooper's frst-prize per of five yearling rams were sold by auction at the show

two h. c.'s were given to his entries. Mr. Cooper was
toain to the front in the yearling ewe class. Here he again to the front in the yearling owe class. Here he
was first and second, with two grand pens of sheep; Sir P. A. Muntz taling third and Mr. P. L. Mills lourth honors. The ram lamb class was one in which merit and quality was found all through. Mr. E.
Nock, with a pen of the choicest quality, went to the top, followed by Mr. R. P. Cooper, Jas. Harding and T. S. Minton, in the order named. The last-named exhibitor was first for ewe lambs, with a pen of excel-
lent merit and superior quality. Mr. James Harding, ent merit and superior quality Mr. James Harding,
however, ran him very closely indeed, for his too was a pen of high merit. Then came Mr. E. Nock's pen, and last, but by no means least in merit or type, was
Mr. A. Tanner's pen.

The Hampshire Downs made a very good entry. The


Shearling Shropshire Ram. First prize, Royal Show, 1905. Wxilibited by Mr. M.
old rams were a small class, all of which were sold by Auction, and three out of the ave so sold were for here with a ram of great quality, full of good morit and true type. The yearling ram class found Mr. James Flower at its head, with a ram of very high
quality indeed, a ram such as few other breeders could quality indeed, a ram such as fow, other breeders could
produce ; he, too, has gone to the Argentine, together with hail a dozen more from the same flock. Mr. T. F. Buxton followed, and then came a beautiful ram of Mr. Carey Coles' breeding-very rich in flesh, and excel-
lent in merit. Then came a wide-topped, good-loined ram. Prom Mr. H. L. Cripps, who had to be content with 'r. n. The ram lamb class had Mr. James
Flower's pen at its head, a pen which has secured for Flower's pen at its head, a pen which has secured for
the flock from whence it came world-wide renown : this the flock from whence it came world-wide renown ; this
pen was easily first, and with equal ease won champion honors. Sir W. G. Pearce's pen was second, and arr. H. C. Stephens third. In both of these pens merit and quality were found, but the scale of the
latter was notable, and amongst them was one ram lamb that was sold at $\$ 500$ to go to the Argentine, to head one of the best flocks there. As has been the case for many years past, Mr. Flower won first for
yearling ewes, his second entry taking second honors. It will suffice to say that these ewes were as good as
It could be. Mr. T. F. Buxton was third; Mr. H. L. Cripps r.n. In the ewe lamb class Mr. H. C. Stephens won, with a pen that has only known defeat once, and
this only by the narrowest margin; a pen which is
probably one of the best we have seen for some time,


Walton Jewel III.
Midale whit Row firat and reato ofam pion Ros,
Ehowny timmene devaropment comblned mith good quar-
 had many admirers, but was not quite so perfect as
the leading pen. Mr. Coles was third, with choice pen indeed, some of which were particularly good Sufio tece and type. time enjoy a large patronage from the export buyers, hme enjoy a large patronage from the export buyers, This year's entry at the Royal Show was not a large one, neither do we think it was quite so good as we
have seen ln recent years. The winning flocks were owned by Messrs. R. Barclay, H. E. Smith, S. R.
was superior, and the demand for these shoep was th
keenest we have ever seen. Mr. Tom Casell won the two-shear ram class, with a masculine, square an deep carcassed ram. Mr., H. Dudding was second and r. n. with sheep of superior type and quality. Th
yearling rams had for their winner Mosars. Wri yearling rams had for their winner Messrs. Wright notable ram, of whose merit and type no further com
ment is needed than the fact that it was sold for 1,000 g. for the Argentine immediately after the award wa given. Socond and r. n. went to Mr. Dudding, bu
neither of these two sheep could be sold, as they entered in Mr. Dudding's sale, a report of which wil follow by next mail. Mr. Tom Casswell, with a choic ly-bred ram, compact and true in formation, was third the class for pens of five yearling rams, Messrs. Wrigh won again, and immediately sold them at 300 gs. each Mr. Tom Casswell came in second with another flrst
class pen. Mr. Dudding was third, and J. class pen. Mr. Dudding was third, and J. E. Cass-
well r. n. Messrs. Dudding and Dean won all the honors in the ram lamb and ewe lamb classes. The
former was first and second for ram lambs, and third former was first and second for ram lambs, and third
and $r$. n. Lor ewe lambs; and Messrs. Dean occupied the corresponding position in the ewe and ram lamb classes respectively. Type and character, combline
with quality of flesh, were clearly apparent here. the yearling owe class, Messss. Wright were first an
second, with two of the best pens wo have seen out second, with two of the best pens we have seen out
for many a day. Messrs. Dudding and Dean were third
and r. n., respectively. In the ewe hoggett class and r. n., respectively. In the ewe hoggett class and Mr. H. Dudding third. The winning pens wer all of very supe
class, Mr. Duddi second, and thus his unbeaten record for wool at the
Royal Show has been continued The Lelcester breed were very typically represented Messrs. George Harrison and E. F. Jordan dividing the
honors all through the four classes. Cotswolds.-A dozen pens represented this breed
and the woll-known flock and the well-known flock of Messrs. W. T. Garne with ram lambs and ewe lambs, and second for yearling ewes; Mr. W. Houlton, who ha a a very fine flock of
this breed, taking first honors for yearling eles. second and $r$. n. for yearling rams. yearling ewes, an Border Leicesters. -A small entry, but most typica of this breed, was present, each pen being of a very high merit indeed, the Right Hon. A. J. Balfour win-
ning all through, and Mr. Thomas Winter, a brede well known to Canadians, taking second honors. The Kent or Romney Marsh sheep made one of the largest entries the breed has ever made at the Royal sheep for export was one of the features of the those quite a number of the exhibits, or of the flocks they represented, having been purchased at high prices for
the Argentine. The Wensleydale breed, with 21 entries, displayed particular breed of sheep. The excutors of T. Willis,
Lord Henry Bentinck Lord Henry Bentinck and Mr. E. Horseman were lead The Dorset Horn breeders have at last discovered
that it is advantageous to their breed to enter at th Royal Show, and the entry made this year was superior merit, real good quality, and excellent type,
Mr. W. R. Flower was leading winner. He won flrs and second for ram lambs, first and champion for year-
ling ewes, first and $r$. n. all of superior merit, and about as good a lot of sheep as we have seen out from any flock for a long time
Mr. E. A. Hambro was first for yearl sion with which we do not agree. The second ram, from Mr. James Attrill's flock, was clean away frst
in the class, and of beautiful type. Mr. F. J. Merson in the class, and of beautiful type. Mr. F. J. Merson
won several prizes, with sheep of high character. Mr.
E. A. Hambro and ewe tambs was second and third for yearling ewe yearling ram of high merit, was omitted from the award list, for reasons we cannot understand
pigs at the royal.
A Aull entry, and a representative one, was fo in this section. Probably, taken as a whole, swine
exhibitors have not made so excellent an entry for The Large White or Yorkshire breed first claims at
sever tention. Worsley Duke 4th, owned by the Earl o
Ellesmere, a lengthy, good-topped hog, took first hon ors in the senior boar class; Holywell Ezeca, from
Messrs. S. Spencer \& Sons, was second (and he cerMessrs. S. Spencer \& Sons, was second (and he cer-
tainly ran the winner very close): Watford Wonder \&th. tainly ran the winner very close); Watford Wonder 4th
owned by Mr. R. Ayre, came in third, and Fulwood Duke, from Mr. R. R. Rothwell, was $r$. n. The class for three boar pigs, born 1905, was a very large one.
Here again the Earl of Ellesmore won first. Here again the Earl of Ellesmore won first. They were good pigs, of very nice type. Mr. T. S. Jay fol-
lowed with a useful pen, but we should have given pref-
erence to Mr. D. R. Daybell's third-prize winners, which erence to Mr. D. R. Daybell's third-prize winners, which
had greater strength, and yet quite as much quality. The Earl of Ellesmere's second entry was r. n. The sow class, the leading sow, Worsley Sunbeam, being made champion of the section. Some exception was taken to the notable success of the Ellesmere herd, but
whilst giving every credit to the very excellent pigs. Whilst giving every credit to the very excellent pigs
particularly Lindsay A., owned by Sir Gilbert Greenall that came r. n., we do not think any undue preference
was given to this excellent exhibit. Again in the sow pig class, the Earl of Ellesmere was first. second and
third, and Mr. D. R. Daybell was r. . . There is, of
course, always. room for difference of opinion, and here

JULY 27, 1905
we venture to express the oppinion that the
was fully as good as either was fully as good as either of the preceding pens.
The Berkshire entry was of superior merit combined with true type and character, was notably
prominent prominent. ${ }^{\text {Mr. }}$ pion, Jefferson's grand boar, Peel Cham-
prst pion, won frst in the old boar class, and was made
champion of the breed.
Polegate Dollar, a lengthy and well-red boar, won second honors for the Duchess of
Devonshire.
Buscot Devonshire. Buscot Reliance took for Sir P. A. Hen-
derson third honors, and in this boar was found great quaity and a wealth of Desh that was most credit-
able. Mr. J. A. Fricker won frat tor the able. Mr. . A. Fricker won frrst for the best throe
boars and for the best three sows of 1905. These six pigs were of ospecial merit, weallhy and of excellent cons con
formation, with tying
 each class was occupided by Mr. G. Taifourd Inman, an
exhibitor whose herd is rapidiy forg ing ahead. The
ent boar-pig class had for its third wingers and r. . . Tho
pens trom the Duchess of Devonshire's hord. The third winners in the sow class were a very choice trio, with quality and type in abundanco, from R. W. Hudson's
herd, and the r. n. here went to three grand pigs trom


 superior breding sow. She was third, and the $r$
went to one of which the same may be said, it
Compton Rose, owned by Mr. Inman. Compton Rose, owned by Mr. Inman.
Tamworths. -Whilst not so large tries, was represented by a very superior lot of pigs
indeed, Mr. R. Tbotson winning first and third honors
for the older boar. The middle honor went to Whitacre Radium, owned by Mr. D. W. Philip, and Mr. H. class, or one more typical of its breed, we have not
seen for some considerable time. The boar-pig was,
like the sow-pig class, a small one, but of merit and like the sow-pig class, a small one, but of merit and
quality. In the former Mr. Ibbotson won, and Mr Stephens was second; in the latter Mr. Stephens won,
and Mr. Ibbotson was second. Tamworth sows came out in good form, and in fair numbers. Mr. E. J. Morant won first and champion with an unnamed sow,
whose position at the head of the class of registered Tamworth pigs was very much open to question, for
without doubt the true type and characteristics of the without doubt the true type and characteristics of tho
breed were not found in her to the same full extent that they should have been found in a champion pig.
Ind Mr. Stephens' Cholderton Favorite 5th occupied this position instead, no exception could have been taken to the award. Whitacre Cactus, owned by Mr. Philip,
was third, and she ought to have been second, and thus made room for Mr. R. Ibbotson's Cholderton Buzzar in
the cash awards, instead of this excellent sow having
'Encouragement of the Wool Industry.
The figures furnished hy Mr. Gunn on pages 540 and 541 of April 13th issue of the "Farmer s ime when prices for wool are looking up.
Canada were educated as to the needs woollen industry? If the farmers' institutes firms as the R. Forbes Co., Hespeier; the Canada Woollen Mills Co.. Toronto: the Wm. Pattinson
Co.. Preston, and many others, could furnish ('o... Preston, and many others, could furnish
men capable and experienced, $\begin{aligned} & \text { loaded } \\ & \text { with }\end{aligned}$ samples of cloth, including shoddy and cotton
mixed goods, also samples of wool, and give u points on the handling of the flock for the pro-
duction of wool, in particular the quantily and duction of wool, in particular the quantity and
quality of flecce, density, soft ness, crimp, length
of staple classification of wool, commercial or staple, classification of wool, commercial that the time would ve an orportune one to in-
thatute a kick arainst this ahominable shoddy and rage heing we have n

The Air Cure for Milk Fever and Garget. The remarkahle success of the air treatment in
the cure of mike fever in cows, the use of which
has so often been recommendrd by the "Farmer's has so often been recommendrd by the "Farmer's
Advocate," has led to its adoption in the case of
garget and other udder ailments. and, we believe, garget and other udder ailments, and, we believe,
with a considerable degree of success. The owner
of milking cows who neqlects to provide himself of milking cows who neclects to provide himself
with an outfit for filling the cow's udder with air the. takes chances of losing his best cow at at calvin. when he mav save her life and usefulness
h, simply numping her udder full of air and with-
 milk fever, the throat of the cow becomes
haral zed, dopriving her of the power to swallow,
he onusenuence tieing that the medicine is apt Oenter the trachea and lungs, causing inflamma-
Onn and pmoumonia, and causing the death of (hi. cow. The only cases which we have known " which the air treatment has failed have hown Id divine. The air treatment dill its work in
mporarily relieving the rationt, hut the mefli-
ne. which went the wrong way, defeated the

We have knowledge of several cases of milk fever
in which the cow died in a few minutes after be-
in which the cow died in a few minutes after be-
in , dosed with medicine, while it is well known ing dosed with medicine, while it is well known
that often in such attacks a cow will live for
days days after coma has set in and she has become
entirely unconscious. And cows in this condition have becn promptly curid by the air treatment When they have been considered as good as dead. for the treatment of garget being recommended from which one or more of the quarters of the udder fail to perforin the ir proper functions.. The
treatment is simple and safe where are taken to keep the and safe where precautions syphon should he dipped in boiling water before
being used being used, each quarter of the udder should be
pumped full of air, the teats tied with prevent escape of air, and the udder well hand rubbed or massaged to force the air up into the body and, if necessary, the operation repeated
till relief is gained. In till relief is gained. In cases of milk fever relief
is usually noticeable in half an hour, and the cure complete within two hours, with a single inflation, and with iittle, if any, falling of in the milk,
production, or ild effect on the heath of the cow.

## Short-turning Rack

To the Editor " Farmer's Advocate":
In reply to B. M. C., concerning farm wagon
rack, I will rack, 1 will give a description of the rack $I$ find sills are $2 \times 4 \times 14$ feet long, set in on the wagon pister 6 inches on each side. Then use four of your bolster; use two more on these the width bolted on cross sills. Bolt to the bottom set of
sills on sills on each bolster a block $4 \times 6 \times 10$ inches long, Kent Co., Ont.


Parsons' Photo.

## Doynton Brave Archer



## Yeast Treatment for Barrenness.

Tept. of Wisconsin Agricultura! ©ollege, recom mends a trial of the following formula for yeast sows and mares:
Mix an ordinary two-cent cale of yeast to a
paste with a little warm water, and allow to stand for twelve hours in a moderately warm place; then stir in one pint of freshly boiled,
lukewarm water and allow to stand for eight to twelve hours. Mixture then will be ready for use, and entire quantity should be injected into vagina of animals to be bred. Use the mixture when
period of heat is first detected, and breed when period of heat is first detected, and breed when
period is about cnded. The same treatment is
recommended in the case of cows which have

Rape Does Not Bloat Lambs.
It secms that the lambs can revel in the rape
field without danker, while the old sheep, to avoid
bloat. bloat, must not be turned in until the dew is of balance up their ration as they go along by takbe growing among the rape, while the old sheep are so ravenous for rape that they gorge theemas the cows do that are turned for the first time nce of turning lambs on rape we have never had a single loss from liloat, while the losses among
the old sherp were considerable, until we came to exercise considerable caution.-[Farmer.

Teaching the Dog to Drive.
Commence with the dog at the age of three monted in some secluded place, hearing no words
intended to guide him except his own name: he should know nothing of ordinary words in use by other persons. The first have been handled is to lead, placing a string alound his neck, four or five feet long, in such a manner ns not to hurt
him. and hold upon the cord till ho him, and hold upon the cord till he ceases strug-
gling to get away. One lesson should be given each tay. The first lesson should so siven to let
him dimen him know he cannot get away, and in teaching him to come by puling on the rope and saying here," using no other word that may confuse the word "here," he will come to you when it
is used. and as, is used; and as he comes to you, voluntarily or
not, say " ho," and caress him. not, say "ho," and caress him. A lesson of
thirty minutes, working him slowly and patiently, will be sufficient for each day. Proceed with the lessons till. he will come from any part of yard at the word "here." He has now learned the
word ". ho ". means you are through with him. You must means you are through with him.
and ""halt." To ho this the words "go and "halt.", To do this, place yourself in a
position opposite where he would do position opposite where he would desire to go ;
for instance, the opening of the enclosure yon for instance, the opening of the enclosure you
have chosen for the lessons; say "go," calling
and and urging him along. When say "go," calling
way say "hets part of the way say "halt," and at the same time pull upon the string, stopping him, and say "halt" again.
Proceed thus till he has learned the meaning of the words. To teach the alove four words it will take from one week to ten days, according to acacity of the animal.
To teach at the word
up something which he wants very much; for instance, food, when he is quite hungry. If you ite hungry. If you
wish him to go out,
show him the door show him the doo
and say " so out",
the word "c and say "go out",
the word "go,"
will start him, and in a little while
will become familia
with with the familiar "out." ${ }^{\text {Let }}$ him
have a regular place to sleep, and teach
him its name. you already have
dog trained $t$ $\underset{\text { drive, take the pup }}{\mathrm{d}}$ out with him to to
drive in the cattle He will the cattle
that they will rarn from him. Say noth-
ing to him whil he is to hith the other dog, unless he at tempts to go to the
heads of the cattle heads of the cattle;
this you must not
permit. After two or three $\begin{gathered}\text { After two } \\ \text { him out take } \\ \text { without }\end{gathered}$ tho out without allow him to run provided they attie, en by other dogs. o let him run where there is danger of being urned upon. If he runs them too fast say
steady," and as you use words with him ony when they mean something, he will be apt to only attention and go slower:; if he does not, say "helleta and then "go." then "steady." say wil greadually understand its meaning. Accustom or cattle. So. when you say go, and "get the
cattle he knows you mean the cattle, the sheep or horses. Teach hin to know the ofte, instead of from the right, and to obey orders in that reword "left"; then by the motion with and the hand teach the word "right." By these motions
and an appeal to the intellige vour countenance and eyes. you of the dog by or the fields in any direction you can start him oon learns to do your bidding. Of course, it is
presumed that the dog, to begin with is. presumed that the dog, to begin with, is bred
from working stock.
Wellington Con. Ont.

What the Royal Means to British Stockbreeders.

## he

 ne nir shows, such as the Royal, seem to be parted with a ram for 1,000 gs. ( $\$ 5,000$ ) breeder of five yearling rams brought $\$ 7,500$ a a two-year-old Shorthorn bull $1,000 \mathrm{gs}$. 85,000 ), at

FAR.II.

## The Swollow.

the five or six varieties of swallows which inhahit Ontario, perhaps the most worthy of note are
the Barn Swallow, the Yurple Martin and the Chimney the Barn Swallow, the Purple Martin and the cimmey
Swift. The last nemed never alights on the ground, but in
swallow.
swallow
the swallows we are indebted to a great extent or the comparatively small number of winged insects, which in large numbers would be a considerable nuisance and torture to man and beast. Since we find country, it is sale to infer that they keep this terri-
 section or near the swamp, where the swallows are not
seen, we encounter swarms of black filis, gnats, etc. seen, we encounter swarms oed
The clearing is the feding-ground of the swallows. As long as fying insects are plentiful thase are the
chief food. Even when a cold wind has benumbed the
 the vegetation is scarce or on sandy places. During
the summer the female ants come out with the dmmunithe summer the fomale ants come out wew colonics. But
tion and intentions required to form new as soon as they come to an open space the swallows
fill their stomachs with .ant preparation."
and the fill their stomachs with "ant preparation," and the
new colonies of ants never materialize. Those ants new colonies of ants never materialize. Mhose ants
which escape and shed their wings are very likely to which escape and shea heirr wings are very
become tood for the swallows one troun
the Purple Martin makes himself tost useatul
the Purple Martin makes himself most useful.
The Switt, though it does not follow the insects on he groud, is very valuabe in destroying them in the
ane. While the swallows gather their tood in the clear.
nity hot day, the Swift chooses early morning and late evening as its time for ating. The night-hamk and Whip-
poor-will do their part of the work in the night. Thus. poor-will do thene part of the work in the night. Thus,
the whole twent-four hours is under the watchul eves
of these insect-eaters-all belonging to the swallow tribe.
The Swallow builds a nest of mud, and lines it with eoft feathers. The nest is stuck to the side of a rafter
or under the caves of a building. The swift's nest is or under the eaves of a builing. The Switt ' nest is
built of small sticks, which are glued iogether and
testened to the inside of and tastened to the inside of a chimney, or on the inside
wall of a woodshed or driving-shed. How often we see an unsemly mass of straw, grass and feathers
piled on top of of of these nets
This tells us hat the owner of the nest has been driven out, and the
conqueror-the English sparrow-has taken posesesion of ho home. Sparrows and cats are the chief enemies of the swallows, and the swallows are worthy of our
protection. We can help them a areat deal by do-



An Institute Trip in Western Nova Scotia.

## Having received a pressing, invitation from tho Secretary of the $N$. S. Farmers

crop. As wo travel west ward and get beyond "The
Valley," wo find the surface more hilly and rocky (granValley," we And the surface more hilly and rocky (gran-
ite boulders), but right among the boulders the apple
 vated it gives splendid returns. Along the western and
southern shore the people are generally engaged in fish southern shore the people are generally engaged in ish
ing, and as they produce little or no tarm products ing, and as they produce
there is a roady cash market for all that the farmers in that can produce.
M. My travelling companion on this trip was Mr . T H. Mason, of Straffordille, Ontario, and whith enither
of us ever felt envious of the lot of our brother tarmor in Sherluurne and queen's counties, we did ctien re mark about the stalwart and intelligent men and ros maidens of this end of the Province. Mre Mason
man of keen observation, and talks sense in his ad man of keen ouservatuon, aver our heads so much a
dresses, , without shooting over some of the institute speakers from ontario do; in other words, he sizes up the conditions of the men hy
C. H. BLACK. Amherst, July 4th 1905.

## Lime Experiments in Rhode Island.

 We print bclow some points from the syllabusof an illustrated lecture on acid soils, by H. J.
Wheeler, Th. D. Director of the Rhode Island Ex
periment Station: The Rhode Isl
The Rhode Island Station has given more at in soil and its effects on growing crops of various kinds. Acid soils are widely distributed every
where. In one of the French departinents clove where. not be grown, and agriculture was at a low could at be grown, and agriculceded, the cattle
ebb. After liming, clover succeder
industry throve, and pros pir 1 , industry throve, and prospirity in farming was
assured. Acid soils are found generally in New assured. Acid soils are ound generally in Ney
England, and cognizance of the fact is important England, and cognizance of the fact is acidity by means o the blue litmus paper sold at drug stores.
soil to be tested should be moistened with
soil to be tested should thick paste, and should then b enough to nake a thick paste, and should then
allowed to stand half an hour or longer. Ther
open it with a knife blude, and insert a piece open it with a knife blade, and insert a piece o
litmus paper half its length. Do not handle the litmus paper half its lenigth. Do not handie the
ends of the paper hefore putting it in the soil ends of the paper helore putting in in redden
for the acid in the moist fingers may
paper. In an hour or so remove the paper wi paper. In an hour or so remove the paper with
out tearing it. Dip it in water to remove the
soil adhering. If a distinct red color has taken soil adhering. If a distinct red color has taker
place of the blue it may be con luded that the soil. needs liming. In case or red soils it is oftern
better to press tho paper against the soil than 10 better to press tho paper against the soil than to have it sarround it. If in such case the pape! of a vegetable nature only a good test may be
made with ammonia water. To make this, tak two glasses, place a level tablespoonful of soit in each, and add water add to on of the glassis
two-thirds full. Now
a tablespoonful of dilute ammonia water. Stir each glass with a different spoon. If, after stand ing some hours, the liquid in the one having the
ammonia becomes dark brown or black, it shows thmonia acid humus is present and that liming will
be useful. be useful.
Wood ashes are also useful in correcting acid
Experiments with various crops shower ity. Experiments with various crops showerd
that, while there was no lack of plant food, the
acidity of the soil made the crops poor, while acidity of the soil made the crops poor, while
lime restored them. Nitrogun in arious forms lime restored them. Nitrogrn
was used, and, as beiore, the sulphate of ammonia
poisoned the crop when no lime was usid, while was used, and, as beiore, the sulphate of ammonia
poisoned the crop when no lime was usid, whil
it it greatly increased it after liming. showing tha the acidity of the soil had a great influence
the assimilation of nitrogen hy crops. In exper, ments with potatoes, it was found that acid ccn
ditions. in the soil were unfavorable to the sun ru: ditions. in the soil were unfavorable to the cun rus
that causes the scab, and that, while an application oi lime or ashes would sweeten the soll shid
improve the crop, it also incre ised the tendency to scal). On the other hand, the application "if
lime prevents diamage from the fungus that causces
ine club-ront in cabloages. the club-root in cabbages. In using lime on
graos plots. it was found that a bettere fffect wa
rroducd whete the lime was well worked int the soil than where it was merely used as a top
dressing Acid soils have been found to the the
truls in Rhode Isiand, and occur oul light uplants
 a sulfici nt percentage "f phisphates present in.
the plants, it may apperr to lie deficient, while
 Others wre so Muskmeluns fuil on acid soite
while the watermelon semes to profer a sour soit
Catbace is helved by limine on such soils Alfal
 is not silited to arid conditions in the soil. and



being enough, while heavy soils need twice as It is advised to harrow in the lime at once, and lime
and not before.

## The Nurse and the Farmer

the Editor "Farmer's Advocate :
Sir,-In your issue of June 29th I noticed an article itten for the benefit of formers in general, signed by Nurse." I have read her letter, but I cannot be tates. If it were so canadian farmers at or asso dates of the dumb brutes than for human beings. an also clain the privilege of having some knowletge farmers in different parts of Ontario, and I have also ived in the city, and as far as my experience goes, I find as much filth in the one as the other. I have yet find the farmer who will walk straight into the par-
without cleaning the barnyard dirt ofl his booto and, although it may be so, it is a rare thing to find an incubator in the kitchen. Of course, I will admit other occupations, but you must allow that some of the farmer's work is very dirty, and that it is almost
impossible to get his boots perfectly clean. Does "Nurse" think that a farmer must change his clothes outside and appear as a clerk with collar and tie on, or be followed all over the house by his wife with a
rooom and dust-pan? Does she think that a man will ind comfort in his home if that were the state of affairs? If a wife is so extravagant as to place a day life, well, let her take the blame, for it has no ight there. If "Nurse" has happened in some dirty arm homes, I do not see why she should condemn all
because of the few. My experience has been rather wide, and I have yet to find a farmer in whom I could find the faults as
Hastings Co., Ont.

## Timothy and Oats Affected by Thrips.

I am in receipt of your favor of the 14 th en-
closing stalks of timothy and of oats. I believe
lhat both of these injuries are due to the same closing stalks of tiinothy and of oats. I believe
that both of these injuries are due to the same or a similar insect, a species of thrips, probably
Phloethrips poaphagus., The injury is known in mothy as silver top," and is caused by minute
nsects attacking the base of the stem inside the sheath. In the oats the injury is caused by these same minute insects attacking the ovaries in un-
ofened forets. This injury is intermittent, and very much worse in some seasons than others. I
know of no remedy for it, except, perhaps, short now of no remedy for it, except, perhaps, short
rotation by which grass lands are plowed down at short intervals and the land used for other crops. The silver top in grasses is particularly noticed year both in timothy and June grass. Some of
the heads of the oats had the stems severed. This is not the result of the attacks of the insects, and I can only surmise that it may have leen caused by a very rarid succulent growth, due to
the great heat and excessive rain just at the the great heat and excessive rain just at the
time the plants were heading out. There is no time the plants were heading out. There is no
appearance of the tissues having been gnawed or
punctured.
The small insects seen by your corpunctured. The small insects seen by your or
respondent were probably the thrips, which is just such an insect as he describes. The effect on the panicle of oats is to blast the flowers at the base, out and, of course, dead without any grain. Ocasionally, the sume insect continues its attacks hut in that casc little harm is done, beyond bleaching the coverings of the seed.

Says She Told the Truth

Sir, -Since reading the letters in reply to the
open letter of Nurse," I feel compelled to say
something in vindication of the truth. "Nurse ".
Wheserves praise for her courage in exposing some of he disagrecable habits of ordinary people, for, the
'atem nts of A Farmer's Wife" to the contrary not withstanding, the faults complained of and many worse ones are only too common in fact,
houscholds are too scarce where some of them are
most in widence. Most people try to hide such thinus from their neighbors, but they are gener-
ally known, though seldom mentioned. The statements of "Nurse "may be one-sided (women fiut they are. unfortunately, not exaggerated. I i do wot contend that they are the common actions if the people referred to, hut they are press purrose of annoving or punishing, as I have
heard them say their unfortunate and weaker companions aldy their unfortanate and weaker cmough has been said, we all have our faults,
which are claring anough in other people's eyes. other people's eyes.
FARMER'S SON.

## Making Hay Under Difficulties.

 When one reads the recently-published method of hay making, soesting columns, may be pardoned for a slight feeling of envy haps drawn in dew is off, gathered up, and per human did we not covet at lcast our neighbor: weather. In Central Ontario last summer one section had, between the 12 th of July and 18th of which no rain fell ; otherwise, it rained more less every day or every other day. In fact, since
1901, when good weather prevailed, the conditions have been decidedly trying. Already this season between the 3rd and 13 th of July, there has
been one day only which no rain fell Of course, slow, rapid, or any other fancy theoretical style of making hay in such circunc-
stances, read like descriptions of Kinc Solomonstances, read like descriptions of King Solomon's
Mines, We have, thereore, becusen of the rainy
weather, two practical ways or handling hav-the weather, two practical ways of handling hav-thc
one costly and tiring, the other easy and unone costly and tiring, the other easy and un-
profitatle. The first is that adopted by Scandinavians, which consists of forking the green grass
into racks of poles, very nuch as one would hang anto racks of poles, very much as one would hang
it on the bars of a gate. This certainly makes grod hay, but involves a tremendous lot of very
heavy labor.
The second is that of the happy-yo-lucky fellow, who mows whe the weather is
fine and gathers up the residue when fine and gathers up the residue when it is dry
enough, be the intervening time ten days or Wentween two extremes there is always said to be a happy, medium. Well, Mr. .Editor II I just
want to send you word by this that if there want to send you word by this that if there is a
heart-racking job it is held down by the Central Ontario farmer who, in the "happy medium,",
tries to make good hay these years tries to make good hay these years trom the very
heavy crop of grass which the otherwise highly beneficial rains bring him.
Northumberland Con

Making Money on Wheat. A steady, monotonous wheat market is a condition
under which legitimate milling business thrives beat. put it is doath to to me man with a ticker and his cusdoing, all the time. The essence of gambting something
dent.
ment exclte. tims grow weary. A long period of even prices wears
away the heart of the option trader. away the heart of the option trader. He is after sen-
sations with which to stir up the gambling spirit of
his ofictime sations with which to stir up the gambling sifirte of
his victims from whom he derives his diamonds and his A large, fat and prosperous group of these gotry
has centered in Minneapolis, and during the last yoar they have fairly revelled in wealth, all shaken out
he pockets of the speculative populace. actually embarrassed o ond ind ways in which the arond
their money. Their expensive automobiles block the treets, and the sinell of the perfumery with whick they
pesprinkle their persons overpowers the odor trom their gasoline tanks. Some of them have nead of strong
smells with which to counteract the tragrance of and omewhat malodorous past.
At this time of the year, these people are very busy
 Dortunity for sessational reports, If the weather is cilat they conjure up visions of drouth and haston th
rever the wires to doistant parts of the is ruined by too to tir things up. It it it it wet, the crop is being burned up. if it be cool, the crop to not
matering. The hot, dry winds, red rust, black rust,
murs trost Nirpose. Nature never produced weather conditions
 wars and rumors of war which will do to tide over a
dall day when the weather topic has become a trifle

The British museum has approved of a sug-
wstion for the preservation of phonograph rectestion for the preservation of phonograph rect
ords of the voices or promint singers orators,
ondors and the works of instrummentalists. When The idea was first subnitted to the trustees the
ol,jection was raised that the records would not be of a sufficienuly permanent character. This
ohiection has, however, now lieen removed,
and

 incers and musicians of the day will be recruested will increase in value and sive, and it is certain o hecome one of the nost valued of the nation'
treasures. The records. however, will :nto be
(Nailable eor immedint


## Sanitarium for Montreal Office Boys.

## Sir,--In your issue of July 6th I notice

 article on the sale of the Provincial Farm, a ' The institution has been a complete failure being nothing more or less a complete failure, younger sons across the sea, and the annual net cost to the Provine sea, and the annual ne With regard to the Englishmen beinpense to the Province, they were required to pay a monthly premium of $\$ 10$ or $\$ 12$, ald Provincial English students was free. The percentage of that not more than very small ; I should say With one or two exceptions, only, they were from desire to learn farming, which is far more than can be said of the Canadians, the majority of made the place a summer intend to farm, and of one Canadian student who is farming at pros ent, while four (4) of the Englishmen have taken it up, and the majority of others, have settled a posed to extend over two years, at the end which the student was entitled to a certificate mroticiency. Proficiency in what? Principally rough chores in the barns in the winter. As the being taught the handling of machinery, the Gov-
ernment could not run the chance of breakages ernment could not run the chance of breakages,
so the student was obliged to gain his experience on his own farm later, or at the expense of some farmer he might hire out to. Any questions some sarcastic reply which were usually met with
interest the stually quashed all These are a
the fact are a few of the reasons, coupled with to do the principal work which the men were kelp have been taught, which mado the institution Its failure as plain.
This sounds rather like striking a man when in justice to the " younger sons say a fero few word who have attended the "asylum" or as should be more appropriately, called, a "sanitari[Note - A despatch has July 21st, states that the Government have sold the Compton Model F'arm for $\$ 12,000$ to Mr Dominique Bolduc. The land alone originally
cost $\$ 11,000-\mathrm{Ed}$ ]

## Dunn Co., Wis., School of Agriculture

the following information regarding agricultural high schools in Wisconsin, a subject referred to Our contemporary states "Farmer's Advocate." School of Agriculture graduated eight students in its long course last May, and gave cleven certifiwhich statementsourse students. The way in padded out, and the long list of thinss which the Wisconsin school purposes to do for the farmwould seem county "free gratis for nothing, Would seem to indicate that the staff of the Dunn time training young men and women-
The State of Wisconsin was the
union to encourage the establishment of schoo's and dom teaching of agriculture, manual training schools of agriculture were created in 1901 . County first law allowed two counties to build and equip was the first to organize a county Dinn County lowed. These counties opened schools in October 1902, with courses which were planned by the exo principals and the State superintendent. The
expense for equipment of buildings, furniture, apparatus, machinery and stock was borne hy the school to the extent of $\$ 4,000$ a year to apply
on the running expenses. prospering. The Dunn County School of Agriculctudents have completed the school course at the wo graduation excrcises. The enrollments for
the three years were 64, 79 , and 73 . These yount people are mostly from the farms of the
county, and all of them attencl the school to
prepare for farm lifo prepare for farm life. While the sate College of tions in colleges, experiment stations and $\mathbb{U} . S$. are fitting vork, the county agricultural schools
actual work actual work of the Parns in the counties where
they are located Besides the regular school
work. the Dunn County School of tericulture does
a great many things for farmers free of charge
The principal of the school and the instructors are ready to help farmers in many ways. Fhe year for each thousand dollars of his assossment The school can eive him twenty dollars a year
of free help, busides teaching his sons and daughters.
Here are
Milk and
Here are some of the different offers
Milk and cream tested for luatter-fat
Farm and gardensted for hutter-fat
Clover and other legumes ticated for bacteria
Oats treated for smut, and potatons Grafting of apple trees when scions are fur-
Ghed. nished.
Good

Good roads planned-
Barns, silos, poultry
Barns, silos, poultry and milk houses plannell Drainage and sewage systems ior barns and homes planned
plants, planting, weeds, feeds, stock, crops, now ing, fruits, machines, powers, and all farm sub-
jects. ects.
Pure
Pure-bred stock selected for buyers
Bulletins on all
The instructors, aided by leading farmers, hold
twenty farm institutes a year in the county. These are each attended by hundreds of interested farinare each attended by
ers with their families
The school also aids in the preparing of teach ers to teach the useful subjects of agriculture, schools. This summer, from July 24 in rural 5, will be held a special summer session to train eachers in these subjects. K. C. DA.VIS.
[Here is a copy of the last commencement proes given by the graduates:

$$
\begin{aligned}
& \text { The Care and Use of Meat ..........Emma Hoehn } \\
& \text { The Knowledge of Sclentific Feoding..John Brill }
\end{aligned}
$$

$$
\begin{aligned}
& \text { The Kowledge of Scientific Feoding...John Brill } \\
& \text { Poultry-raising for Women........Christine Hanson }
\end{aligned}
$$

$$
\begin{aligned}
& \text { The Preservation of Foods....Lottio Ludvigson } \\
& \text { Soil, Nitrogen and Bacteria }
\end{aligned}
$$

$$
\begin{aligned}
& \text { oil, Nitrogen and Bacteria ...........ewis Ruesiin } \\
& \text { Domestic Hygiene .....................ertha Betzner }
\end{aligned}
$$

The Adulteration of Foors...........Emma Bentzor

Seed Testing ....
Music-Selected
Presentation or
Harry Hubbard
Male Quartette
to Graduates.

## DAIRY.

## Factory Floors.

Substitute as soon as possible a cement floo or wooden one now in the factory. Grade the ground to a slant of one inch in six feet to a central gutter, thon pack the earth firmly and the gravel solidly. Mix sand of gravel. Pound good cement in the proportion of four or five to one, and lay with grouting about four inches thick on the firm gravel. Finish with one coat of screened, sharp sand and the very best brand
of cement, mixed in the proportion of two one for the finisking coat. Have the surface smooth, so that pools of water will not lie on the in six to eight feet to an outlet, and of one inch arde specially solid and even on the side and floor . Employ a skilled workman to lay the Place a ase none but the very best material. underground draing sewage suaking into the well. The sewage may
be disposed of by means of a filter-bed or by sub-earth system means of a niter-bed or by the about the factory:-[Prof. H. H. Dean, in Bulletin

## Wasting Skim Milk.

to see was held at the Dunkeld (Ont.) creamery two weeks ago, when a good-sized audience Mr. G. H. Barr addressed the meeting on the ad
Mald vantage of sending rich cream to the creamery cent. cream was sellding from his farm with per that was cream 80 pounds of valuable skim milk richer the cream, the tore skim milk left. The for feeding. Scparator agents are partly to hiame for the dissemination of erroncous ideas on crrtain azent, anxious to mate a sale, who as ed a farmer to bring him a creamer can of
skin milk. This being brought was run through the separator, and from it there was extracted Two (111arts. of cream. There is cream and cream, increase the patron's returns at the factory. only robs the calves and pigs. No patron should
skim cream containing less than 30 per cent. of

Effect of Corn Silage on Plavor of Millk Ever since silage has been used as a feed for
dairy cows, there has been more or tess con dairy cows, there has been more or iess coll objection being occasionally raised that mil
from silage-fed cows had an unpleasant, if not fisagreeable flavor. To determine what found tion, if any, there was for this belief, the periment herein described was undertaken an
conducted by the University of Illinois Agricul conducted by the University of Illinois Agricul
tural Experiment Station in the following man ner:

The University dairy herd was divided into two lots, one of which was icd forty pounds corn silage yer cow per day, which is the maxi
mum amount for economical feeding, together with a small amount of clover hay and grain The feed for the other lot consisted entirely of The milk from bo
actly the same manner, being removed from the barn as soon as drawn and taken to the dairy buing to four per cent. butter-fat, that there izing to four per cent. butter-fat, that there
might be no difference in the flavor of the milk from the two lots on account of a variation in
this respect, the milk was put in half-pint bottles this respect, the milk was put in half-pint bottles
and sealed.
In cach case, before asking for a comparison a bottle of milk refom each lot of cows was agi
tated to incorporate the cream thoroughly, and tated to incorporate the cream thoroughly, and the milk in each bottle was poured into a sep-
arate glass. Three questions were then asked
the person whose opinion was desired: First, the person whose opinion was desired: First
"Is there any difference in the two samples? Second,", Is there anything objectionable about In every case the milk was known by a number only, and those whose opinions were ob-
tained were not told concerning the manner of lained were not told concerning the manner
production, that their judgment might be urproduction, that their judgment might be un to the use of silage in milk production.
The people whose tastes were consultcd were
divided into three classes: ladies, men of the divided into three classes: Ladies, men of the
faculty, and men students. In the first oase, as racult, and men students. In the first case, as
reported in a table, the silage had been fed one
hour before milking. Of the 29 ladins. 10 pre hour before milking. Of the 29 ladies, 10 pre-
ferred the silage milk, 14 the non-silage, and 5 ferred the silage milk, 14 the non-silage, and
had no choice. Of the men of the faculty, preferred silage milk, 20 the non-silage, and had no choice. Of the students, 20 preferre silage milk, 4 non-silage, and 4 had no choice. 51 per cent. of the 111 tests made when silage 51 per cent. of the 111 tests made when siage
was fed one hur before milking. When silage
wäs fed at time of milking, $\overline{1} 1$ rer cent. prowas fed at time of milking, 71 rer cent. pre
ferred silage milk; and when fed after milking
51 per cent ferred silage milk; and when fed after
51 per cent. reported the same preference.
The summary of all results shows, the 372 tests made, 223 , or 60 per cent., pre ferred silage milk; 40 , or 11 per cent, had no choice and 10, or ${ }^{\text {non-silage milk. }}$ The people who chose the non silage milk were, as a rule, those who do no
drink milk, hence their opinion is not so im drink milk, hence their opinion is not so im
portant as is that of the people who consum milk more freely.
Samples of silage and non-silage milk werc
sent to five milk experts in Chicago and other sent to five milk experts in Chicago and othe
cities, accompanied by a letter ashing the same three questions. One of these experts had no choice, one decided in favor of th
and three preferred the silage milk.
a difference in the flavor of the two samples a difference in the favor of the two samples of
milk, but it was exrressly stated in every cas
that flavor of either sample. Tolly objects to silage milik, twelve half-pint bottles of such milk were delivered at the best making 360 samples in all. These were served
to guests who drank milk, and no complaint or criticism of any kind was made.
For the past nine vears the Pepartment of Dairy Ifusbandry at the in the two cities. During this time the corvs have been fed an average of about forty pounds
of silage per dav, excet when on pasture, and
no complainto of complaints
no
been recelived.
Mr. H. R. Gurler, of rekalh, who is one of
he most progressive dairymen of the St been producine certified milk for the mast ten
vears, and selling it in Chicago at twelve cents a ouart. All of this time Mr. Gurler has been and with the best of resulte.
This is strone
This is strong evidence that if the silage is of cood quatity, and used in reasonable amounts
in connection with other feed. it is one of the
best feeds obtainable for dairy cows when ture is not arailable. It must be rememhered hat in all of this work nothing hut good silage ccumulate in or around the silo. When silase

Preparation and Use of a Culture
that the silage has not been fed
that spoiled silage has been used. ussion that the time of day a foom this dis consequence. All the feeds of this nature should the possibility of producing an unpleasant flavor in the milk. And the milk should not be al lowed to remain many minutes in the stable unsorb injurious flavors from the atmosphere of place

## Thirty-day Cow Tests.

epartment of Agriculture is conducting a series of 3 D day tests Agriculture is conducting a series of 30 certain factories in the provinces of Ontario, Quebec New Brunswick, Nova Scotia and Prince Edward Island Following are the resuls of the first tese

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## Quiet Heifers.


hat there has been such a strong preju af our best cheese buyers is not to be wondume at when we cunsider the carelcss, slipshod mi ods in which some makers prepare cultures, and
the unrestricted use of them by others, rearal the unrestricted use of them by others, regardless flavor of the culture. The flavor of the used will largely determine the flavor of the cheese or butter made; the need of full and exact
knowledge of the proper method of preparing Knowledge of the proper method of preparing and First, provide suitable Hirst, provide suitable cans. It is bettor
have a duplicate set, if possilule. ${ }^{\text {Cans }}$ (Cimilat to the ordinary shotgun cans, which are eight
inches in diameter and twenty inches deen are quite suitable. When the milk is in small at it can be more readily heated and cooled than in kept in larger quantities. For convenience enoush to hold the cans containing the cultur for one day's use, should be provided. This should have steam and cold water connections. The cans may be left in this box, so as not to be In startine a culture, it is advisable 10 a commerciat pure culture. Such may be ob tained from our Bacteriological Department, or trom any of the dairy-supply houses. Empty the
mother culture into a quart of cooled pasteurized ${ }_{\text {milk }}^{\text {milk }}$, and allow it to stand at a temperature o 75 degrees F . untit coogulation takes place. Tw, per cent. of chis culture may then be added to
pasteurized milk at a temperature of 70 degrees Aiter selecting the milk for culture, heat to temperature oregres, tiring occasionally Whie heating NIIow it to stand at this tom
perature for 20 or 30 minutes, then cool ranidly a temperature of bs or degrees $F$. To this milk add sufficient of the culture already prepare time the culture is required for use.
$\qquad$ hours, it it advishle to use a lorer terperaturg
-60 degrees Fis. or under. Aim to produce the

 surface of the can, as the surfiace is more liahle
to contamination from outside sources ; break up the remain take sut a stiring well waulity to propat a Hovidid for this purpose. glass seater should be ws. The whole mas is is firuly conrulated fol Havor leasint to top. and it has a milk-acid A culture may the used to ahvantage when the One hatr of one pre cent. is the greatest quantity which should be used at any time, and this
(1uantity should be used only when the milk is known io be in a sweet condition.
Milk should he set slighty sweter when cul ture is used. With gasssv milk its usc is especially


## Of Interest to Our Butter Exporters.

## Are, at Bristol. England, in reporting to the Ex-

 cargo ex the S . S. Turcoman, which arrived from
Montreal on June 27 th, makes the following reforence to a shipnuent of butter, put up in one-pound 50 ins a wrapped in parchment paper, and packed Opened hy ty-nine cases butter: These boxes were oppened by the Custouss authorities, and were
found to contain 50 one-pound prints, and the the prints not being stamped, in accordance with The Act referred to provides that packages con taining the ese or butter imported into the United
Kingdom nust he stamped with the name of the

[^0] he yreater the tion. Thefit. The faster it can be done, ot the practical dairymen the best blosod for thei Whe The show-ring only indicates where typica
members of the lireed-not necessarily those greatest dairy capacity-an be found. But when ireople profits and not for the sake of simply going into
darring, thin there is no longer an alternative You have hut one course to follow, You must
have a specialized dairy animal, and accord her arectalized dairy animal, and accord her
that treat ment which is part of, and inseparalld irm, her make-up. Sou must feed her liberally tulles, and her her warm, well-ventilated Tha "ould excite or discomfort the animal.
IJohn Mitchells, in Michigan Fand

JULY 27, 1905.

## THE FARMER'S ADVOCATE.

GARDEN AND ORCHARD.

## Lawn Fertilizing.

lizing experinuents from the notes on lawn-fertis Station, 111 England, show the strikine instea of fertilizing on the character of a lawn, and a ists and graziers. Forty-seven one-half acre each ago twenty plots of about lawn at Rothamstead, and these areas have been
subjected to various schemes of fertilization sically without change of programme ever since It is said that a glance at these grounds now
would give one the impression that the different would give one the impression that the different
plots had been brought in from different countries so varying is their vegetation. On the unfed or underfed plots the herbage is
scanty and is largely composed of weeds. Plots
heavily dant herbage, but of only a few species abunthe entire composition contains species. In fact, four kinds of grasses, clovers and weeds being a:h and phosphoric acid, but receiving little or no nitrogen, on the other hand, have run or to
clover. Noteworthy differ nces were found, also, in the results given by dificerent forms of nitrogen. Sulphate of ammonia encouraged the shallow-
rooted grasses, such as sheep's fescue and sweet vernal, while nitrate of soda proved more favorable to deep-rooted specics. This is said to be
lecause the nitrate of soda dissolves rapidly and
leaches doun denply lecause the nitrate of soda dissolves rapidly and
leaches doun decply into the soiv, while the sul-
phate of anmmonia remains at or near the sur ace.
From the above results a few conclusions seem 1. Lawns require libera! fertilizing. Many Canadian lawns are underfcd.
2 . Liberal fecting is the best antidote for
weeds. Abundont nish conditions for a luxuriant growth food furwhich will crowd out almost all krowth of grass,
3. It is very of weeds. lawn, to choose soil originally deep, fertile, and 4. Fertilizers rich in nitogen and poor in potash give the most grass and the least coover
they are, therefore, preferable for temnis courts
greens and similur greens and similar situations. for temnis courts,
5 . Clover follows potasin: it is also by lime, because lime swectens the soil and
liberates potash. 6. On a lawn sour and mossy, with failing
herbage, use lime and potash (there is no better
potassic fertilizer not potassic fertilizer than unleached wood ashes)
This will bring in a liberal growth af and
which can which can afterwards be largely supplanted with
grasses, by withholding the mineral furt itizer using one or two cwt . per acre of nitrate of
soda. Clover iemember that a vigorous growth of thing because it crriches the
soil in nitrogen and humus, rendering it in the very best condition for a succeeding crop of
grass.

## Soda-Bordeaux (Burgundy Mixture)


white arsenic and sal of a soda (rosution made by boiling in the formation
of arsenite of soda), as practiced by some. would
der the sprony of arsenite of soda), as practiced by some, fould ren-
der the spray extremely injurious. For the same reason
it might well green or arsenic in any form to the addition of Paris would render it unsafe for use on truit treos mixture Our recent experiments comprise trials on
cherries and plums with the following mixtures.
and plums with the following mixtures :
Copper sulphate (bluestone) Wosper sulphate
The bluestone and washing soda we.................... gals. Separately in half the total volume of water, and the
eesultant solutions mixed esultant solutions mixed. This mixture, it will be
observed, contains no Paris green ore " B "-Soda-Bordeaux as above, to which was added
C C"-Soda-Bordeaux as above, to which was added a solution made by boiling together 8 ozs. of white
arsenic and 2 lls. of washing soda with 1 gallon of
water results and conclusions.
plums and cherries.
the edges. The pros : A few leaves slightly scorched a the varieties differ somewhat in their will be found that the corrosive action of this spray, but the results tained so far indicate that its use would be attended orchard. Consideratile degree of danger in the apple though injury notching of the leaves quite evident Cherries: Results sery serimilar to those obtained on apple foliage. It is extremely doubtulut if this spray
could be used for this crop "C " - Apples, Plums and Cherriies : In every in
stance in which this spray was used, excessive injury resulted. The foliage was badly scorched, subsequently becoming crisp and falling. The damage was such as
to show conclusively that this spray is quite unsuitable
and and dangerous in the highest degree for all classes
ruit trees. In a word, Burgundy mixture, pure and simple, has
shown itself, ns far be non-injurious to foliage. When, however, Paris green
is added the spray becomes is added the spray becomes more or less corrosive to
foliage, and its use is attended with Toliage, and its use is attended with danger. The addihibe spray extremely injurious to foliage, entirely prohibiting its use.
When it is desire cide in the spray, Bordeaux mixture made an insectiNEWS OF THE DAY
$\qquad$
According to insane asylum
last year, insanity is and
last year, insanity is alarmingly on just issued for
A large abattoir and pork-packing factory will
ably be built on the property of the Union Stock-yards
at Toronto
A site of ground near Alliston, large enoush eor the training of 10, oono mear. Alliston, large enough foen selected as favor-
able for a nillitary camping ground for Western On Parliament was prorogued at Ottawa on July 20th Parliament was prorogued at Ottawa on July 20th.
For the first time in the history of Canada, the speech
from the throne was delivered by the standing.
T. Eaton's new store on Portage Avo., Winnipeg,
was formally opened to the inspection of the July 15 th. The Thed to the inspection of the public on

The Ontario Government has revoked the license of he Anylo-Canadian Gold Estates, Limited, a company
organized in Great Britain to exploit mining properties
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$The Canadian rifle team at Bisley has won the
Rajah of Kolapore's challenge cup, the best team-prieffered. One of the Canadians. Capt. Aest tellioum-pre, 12 th
Cork Rangers, also made the highest total score in the
$\qquad$
been made.
instead of $\$ s$
instead of $\$ 8$ In future the
ition $\& 8$.
ist
nstead of $\$ 8,000$ annunlly Premier will receive $\$ 12,00$ sessional allowatce of these sums in addition to apo$\$ 1,500$. Thers of Parliament which is to be the salary of judges, and will also be an increase in the salaries consecutive service will receive an anisters of five years
salary. Sir Mackence satary. Sir Mack will receive an annuity of hatf their
per's shares in the generatis and Sir Charles Tup will amount to $\$ 4,000$ a year.

The work British and Foreign
will be resumed at an early date the Railway
Eth of the political parties in Japan are in favor
Another attempt has been made to kill Governor .
The Chinese, in retaliation for the exclusion laws of he United States, have begun a boycott of American

Lieut. Peary is en route f
for the North Pole in his will consist of eight picked Nowfoundlantlett. The crew

During the past week deaths by the score and
rostrations by the hundrod because of the heat been reported daily from the cities of the United States.
United States, the total number Bulletin, issuded for the railways during the months January March of this year was 904. The number injured was

Holman Hunt, the famous British artist. a repro-
duction recently of whoseared in the ". Farmer's Advocate the World comploted another large picture, The Lady of Shalot
which Which is said to equal a
Hunt is 78 years of age

Hostilities in the Far East are at present confined has taken place, and Russians to tho numbrming have boon taken prisoners. It is believed that, owing will be unable to hold out mucs ians still on Sakhalin M. witte,
potentiary has wiven unpointment as chiol peace pleniin general, is of the opinion that the ten to Rusians says Ran will be such as Russia cannot accept. Ho has it, and by no means crushed as the foreign press through an internal, crisis. it is is far from being on the
verge of dissolution.

## THE FARM BULLETIN

The largest land deal of the season In B. O. has
been made by the purchase of a large tract of land rons the C. P. R. by P. A. Paulson \& Co.., of Cran-
brook. The tract will be utilized ho likely report from Belleville, Ont., says that apples are lrict, buyers already making contracts at $\$ 1.50$ per
barrel,
and also contracting for orchards of one seven-acre corchard of elght-year-old trees, crop Bon Davis, is said to have been purchased at sem7
cash. In deference to many requests and auggestions,
oupled with the diffculty of socuring the speakers dosupled with the diffculty of socuring the speakers de-
sired for an August meeting, the convention of the American Pomological Society has been postponed thill September 19-21, 1905. It will occur at the Coaites under the same auspices. This change assures a and attendance, a good fruit exhibit, a cool pleasant temperature, and an excellent programme. John Craig,
Secretary, Ithaca, N. Y. Secretary T. E. Orr advises us that the annual meeting of the American Poultry Associa tion will convene at Cincinnati, Ohio, at 3 p . m., on Thursday, Jan. 18th, 1906, the place to be
announced later. An adjourned held at Hagerstown. Md.. on Thursday will be 12, 1905. The new edition of the Standard of

## The Hudson's Bay Outlet.

ity on J. W. Tyrell, who is known as an authorhaving spent much time, and wa'e many trips a ross and around it, has expressed an opinion distant day, to become "' the great outlet for the link in an important ocean route from the first the Hudson Straits He says he is convinced that months of the year, the Bay navitself being for five navigalle, as, with the exception of the harbors
it never freazes over. navigable, as, with the exception of the harbors,
it never freezes over. Whether this water route
will materialize as soon as Mr. Tyrell predicts or not, it certaiuly seems cvident from his report of
the resources of the Bay in scals, whales and fish and of the surrounding shores in mineral products that this immense northern land and water dis-
trict is but one more treasure-chamber of the great Dominion which is only waiting for the

## Huntingdon County, Que

The present seasin opened up early, and seeding lands, but the weather was cold and backward; grain seeds germinated slowly. Owing to the splendid cover thamings and the absence of repeated freerings and giving early pasturage. May and the early part June was very cool, yet frequent showers brought on 15th of June. Since then we have had an excess moisture and excessive heat, with the result we have had a great growth and prospects are good for abundan crops. Our pastures never were better, and, conse-
quently, there has been an increased flow of milk. Despite the low prices of dairy products last year, think the output of dairy products will be larger than
ever. Prices of dairy products are good for ever. Prices of dairy products are good for this
season of the year. At our dairy board here last
Fridey white Fresh butter sold at 21 c ., and salted at 20 fc . The butter output is growing here from year to year; many of the cheese factories have put in butter plants, and
nearly all such are making butter exclusively. There nearly all such are making butter exclusively. There
has been a great deall of agitation here in regard to the weighing of butter and cheese in Montreal, and
notice it has notice it has been brought to the attention onglon,
lative fathers by the member for Huntingdon, Walsh. Prices of live hogs have ruled high all season There has been a shortage of hogs here this spring low prices prevailing last fall. That, with a heavy mortality among young pigs, has caused a shortage
Prices of wool have been better than for many years, from 18c. to 20 c . for unwashed. Fewer sheep are kept than formerly, many having sold out their flocks and gone heavier into dairying, finding it more profitable
as much milk and cream goes from here to supply the as much milk and cream goes from here to supply the
City of Montreal. The condensed-milk factory takes about 30,000 pounds daily, while another firm here handles milk for the manufacture of butter and casein
the two latter firms pay 90 c . per cwt. for the summe season. Hay is an andant crop. many of the ne season. Hay is an abundant crop; many of the ne
meadows will cut over three tons of clover per acre but so far the we the making of hay. Grain in many places, likely to lodgo badly $\qquad$ fruit crop promises well.
frowth, and We have had small fruits in abundance : plums do no promise well, but the apple crop will be a good on

The Horse Show Outdoors. It seems that a revolution in the programme and method of management of the horse show is
due in America. The indoor show, which, owing to its cramped arena, has been merely an exhi
bition of ecuino conformation, given in a bar bition of ecquine conformation, given in a bad
light, is about done. The outdoor exhibition with a large arena, in which that most desirable of equine possessions, speed, will have a chance to assert itself, and in which the light-harness will soon supplant the indoor exhibition. By giving the show outdoors, and in a large
arena, the trotters and fumpers, whose exhibitions arena, the trotters and tumpers, whose exhibitions
are so pleasing to the public, will have space and light to enable them to give satisfactory perform ances. The most thrilling feature of the indoor show has been the galloping of the four-in-hand
teams, after the awards had been made. This fea teams, after the awards had been made. This feagreat attraction out of doors. In the light-harness classes, where speed counts for so much,
competitors can be fully extended. The exhibiions in hunter classes, which will perhaps interest the casual spectator more than any other, will be incalculably better when given
the heavy-harness classes can be
advantage out of doors than in.
It is not easy to lind a point in favor of the old indoor nocturnal exhibition, given in a
cramped arena, when contrasted with the outdoar show. It may be said that in this work-a-day
world attendance might be larger at the night xhibitions. The class of penple wh shows are not'so closely tied to business that only point in favor of the indoor winter showand it is a doubtful one-is that it may be more
of an occasion for dress parade than a show held of an occasion for dress parade than a show held
during the fine weather. This may cut some We do not think that there will be any great dif ference between the outdoor and indoor shows on
this point In any cvent. the advantages of giv his point. In any event. the advantages of giv and extraneous consideration like this cannot mount to very much when weighed against them

## Sanilac County, Mich.

## Farm Tendencies in Maine

$\qquad$ Haying is in progress, and the crop
Hoed crops are looking well an enormous growth of vegetation. Most of the soi the strangest things about this pirt of the country is the price of land, considering its quality and nearness o market, the very best of land rarely exceeds $\$ 50$ per acre, including improvements. Having just re-
turned from a pleasant trip through three different counties, I can say that I have seldom or never seen such crop prospects. It is surely a land of milk and honey. Fruit also seems to grow and thrive of the
very finest quality, and any person taking it up as specialty is sure to make a success, as prices for small. speciarty s sure
er fruits especially seem almost extortionate. Prices for poultry also rule high; having cold storage equalizes prices. Cattle are doing exceedingly well, on ac-
count of an abundance of grass, which from all appear count of an abundance of grass, which from all appear
ance is assured us for this season. The increase in the output of dairy produce of this section is very encouraging to those intérested. The Babcock test is
quite an eye-opener as to the value of different cows in the herd. Having gone through a similar
ence some 16 years ago in Eastern Canada, when farmers began to find out the value of dairying in connec tion with progressive farming, it is amusing to hear
some discussions here on this subject. Returns for the last part June was 18c. per pound for creamery butter Hogs are running $\$ 6$ to $\$ 6.50$ per cwt.; scarce, with a mall crop of shoats. Beef cattle are scarce and high, as stockers, a thing that farmers should discontinue if they want to become successful. Good horses are all picked up faster than they can be grown, as very often which should have been retained on the farm. Sheep
whe mare are a paying animal at present, wool being at war prices almost, and the American loves his lamb and green peas. Clover being such an immense crop of late
years has naturally caused an increased number of ewes to be kept. Dog laws and remuneration to farmers from damage by dogs is encouraging to the sheep Parmer.
Whea
Wheat at present is far above the average, and is changing color fast; a much larger acreage than in
former years. Oats are largely headed out
Oto lodging. Barley good. Peas damaged, and a failure. ting in the swath and coil. Timothy lodged, and spoiling to quite an extent. School meetings were held all over the other evening. A whole lot of wrangling
occurred over petty aflairs, and the moral and inteloccurred over petty aflairs, and the moral and intel-
lectalal condition of our future men and women was
apparently never thought or spoken about.

## Sugar-beet Crop Prospects.

Sir, - We have 7,000 advocate":
ar sugar beets this
vear in excellent condition year in excellent condition. At the present time
we are getting racher too much rain, but, with fairly favorable weather during the balance of
the season, the crop will be better than ever 'ethe season, the crop will be better than ever 'e-
fore in this section. There has not been any
serious diffityly serious difficulty in securing lator, and our crop
is practically all taken care of BERLIN.
 acreages, varying from $1 \frac{1}{2}$ acres to 5 . We have
very carefully avoided placing any contracts la ger hvailable helper and able to handle with his own
nearly all instances this smal acreages of sugar beets that each farmer
has is grown partly in place of his outher ront
crops. he depending upon the food, at least to some exten, in thace of his
other roots. The contract acrace this yor is
over 610 acres mreater than last wear's miasurimf
$\qquad$
$\qquad$
$\qquad$ that the beet crop throughom the whire territory
has theen thinned in due season, and, "pon the
whole, thoroughly well cultivatoll. anll rilution as above indicated
als such a vexing one at
ndusiry. We have not ha
Haining that lahor cannot
udyment is that the lator $\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$ iderably larger in some pl
has a fairly good start, and the outloo: fo
is good in some scctions. In Newport and is good in some scctions. In Newport and Cor-
inth, where corn-packing is carried on, a large acreage is planted. The superinitendent of of the
factory stated that often in July and the early part of August, let the corn be ever so backward. a few hot days would start it, and Septem Aroostook methods of potato-raising have
been introduced into Penobscot County, and the growth, not only of the tubers, but of the in-
dustry, is being watched with interest. It in estimated a third more potatoes were planted in the county this year than last. The soil, not beng quite so new as in Aroostook County, re ut as land is amount fertilizer to the acre farmers have sold their farms at a large profit and bought in this section. These changes mak he introduction of more and different machinery Though potatocs were at lowest ebb in pric he past winter and spring, farmers in Aroostoo ounty have not lessened their
The miethod of marketing in some sections Aroostook is in a fair way to be changed. Many
of the farmers folt that the profit of the middle nen was larger than it ought to be, as the what they actuaily received, and there has wee ome talk of the Grange taking some action in the premises.
Baldwin, have ape of this section, particularly the years as the overbearing of the season of 1901 as given them, says Prof. W. M. Munson, Horti have been killed outright, and others more or les injured, according to the amount of fruit borne.
The sheep industry is not what it The sheep industry is not what it was years
ago, but it is picking up some. The higher pric paid for wool will have a tend ncy in this direc tion, but, it is thought, not as yet to any marked extent. More attention is paid to the grade of pure-bred males is beconing gencral. A flock of Angora goats attracts attention of hose travelling the back road to Winterport, th animals being quite a novelty in our country.
While many were fairly succecsful in chickens, there has been considerable complaint
that this is an of ver that thisis is an of vear in the poultry business

Healing Sore Shoulders
There are several thinys that might require to may be a fistulous growth that should be dissected requires opening ; a pocket with pus in it that a piece of skin remaining on a gailed surface that requires cutting out: or there may be noth effect a healing of the sore spoll. byefore trying to ods, it is best to make certain the knife is fo required. If a horse with a sore shoulder must he worked, do not Mace an old stocking stuffed
with straw or hair crosswise of the collar with straw or hair crosswise of the collar to
keep the draft of the sore but cut a piece out of
a a pad so the pressure will be removed from the
gall : then put some clean co reme the pad to kecp, the stuffing of the the hole in the sore well sore. At noon and evening bathe of alum-that is, water to which all the alum sin one ounco ormer, camphor five ounces

H zads Poorly Filled and Grain Shrunken.

## I.ll me what is the matere with them? Many fields $n$ this vicinity are alfected thie same way fields that

 isht to glance at it as you pass ty, and many farmers
whe have not axamined it say
$\qquad$
$\qquad$
$\qquad$

MARKETS
Toronto.
hive stock
Ceocipts of hive stock at the Western
Cattie Markee last week amounted to 123 cars, and included 1,592 cattle, 3.044
sheep, 1,302 hogs, and 457 calves. At the
thein



 Butchers ${ }^{\text {Cattle-Picked are }}$ quoted at
$\$ 4.50$ to $\$ 4.70$; good to chotce, $\$ 4.20$ to $\$ 4.50$; fair to good, $\$ 3.50$ to $\$ 4$
common, $\$ 2.75$ to $\$ 3.50$; and cows and bums, 8.25 , to 83.75 .50 ; and cows
Stookers and
Beeders-Trado Stockers and Feeders-Trado quiet, tew
cattie offering, and demand light. Stock-
 Mich Cows-The demand for good cows
is still active $\$ \$ 00$ to $\$ 50$ ench. is suil active
Colves 8 the.
to $\$ 10$ each.

 land have had markets for meats in Eng-
owing ten advance recently. owing to the tig demand ane reecruty,
nge in Danish hogs


 veume of trade must be satisfactory to
dealers, who express entire satistaction
with with the vitantitys of of buse sansistaction
movement of the che cho movement of the choice chunks or work-
ers and drivers.
ofrerings
from outside ers and drivers. OTrerings from outside
points are very small ar prosent. The
sale rings now are poorly attended.
 arivate transanctions are more numerous,
ard an encuraging feature to the bros
er in conmection with the late has been the demand for tor only the on
lheat
 buyers show a willingness to pay sub-
stantial prices.
common and the other hand



 Prices on the whole have been well sus-
tained, and a very steany tone now
thancterize characterizes the market.
There has been a chang in the manage-
ment of the C Candian und Mr. E. M. Carroll is now proprieto

 roll is thoroughly versed in all matters Derriaining to the horse imhthstry, and is
vell and fovorably known to the trade
He contemplates making extensive im
 thurgday and Monday sules during the
summer months. The Canadian Horse Exchange, Jarvis
Street, quote as follows: Single drivers, 15 to ${ }^{16}{ }^{16}{ }^{125}$ nands to $\$ 2001$







$\qquad$

## THECROWN BATK

 OF CANADACaythal Anthorivod Hoal Offics, Toronto, Ont. Edvarid Gwoney.
bVERY DESCRIPTION OF BANKING BUSINESS TRANSACTED




a. de C. O'Grady, General Manager.


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|  |  | and equal freieght for sints

Oats-The






 more. Eggs-Having failed to got prices down
in the country, merchants are now trying $\mid$ to force them up in the city.




## 

## Cheese Board Prices



## British Cattle Market.



## cotruli

Assuming that people who do not see


Man's greatest compliment to woman his conidence and askl her advico. That is the true compliment of the 2 ath century, the sort woman seake. But tho
old-time fattery han decult.

Mr. Thomas Butler,
 new sugar-beet blocker, which, it it
clajmed, will black rows of beots at once withour inut two to
the plants, at the samo time cutting out the planhe, at the same time cutting out
the
loedda and " mulohing " the ground learliged it and "muloaing." the ground,
The machine has an inderground cut, regulated to operate at the deasired depth, and does the work ao
as to separato the heets to as ta sparate the beets to a distance of
abourt nine inches apart." The machine is made to be operated by hand or horme-
power.

The Brampton Jersey Herd again makes
 rrampton, Ont., leave with two car-
loads of
orseye air to be held at Winnipeg. July 20-28 The cattle will be in usual good form. The noted champlon bull, Blue Hlood, is
oxpected to head the berd oxpected to head the herd. He is in bet-
er trim than ever belore, and will put
 the younger classes, the bulls meaness. In
well to what the
irm has prever weil to what the frm has previously ex-
hibited. They are all fine, lusty fellows, ored right. The females are, if any hing superior to those exhibited at
Winnipeg last year-not an manipeg last year-not an inferior ani-
mal in the bunch. Messra. Hull \& So nform us they are selling chenp to duce stock and dertainly is a rure op-
portunity
ts oselect something 11 . There . ind whe herd a caughtor of Eminen

 ng. Minertio of Brampton, winnor of
he sweepstnkes 1 Iast year in
Toronto,

Life, $\mathfrak{L i t e r a t u r e}$
and Education.

## Dominion Heraldry.

J. A. M., of Tregarva, Assa, asks Arms. describe the Dominion Coat of Arms
posed of the arms of the four orig inal Provinces - Ontario, Quebec Nova Scotia, and New Brunswickquartered or combined in one shield


Arms of the Dominion.
quarter being Ontario's, below that Nova Scotia's, upper right Quebec's,
and lower right New Brunswick's. It is not unusual to add the armor-
ial bearings of the other Provinces that have been brought into the
Union fince 1867 -l'rince F.dward Island, Manitoba and 13ritish Colum
bio. the latter two illustrated helow


ARms of
Manitoba.


Afrms of British Columbia.
but this cannot be done without express royal authority, and until this Douninion shield is as stated above. Dominion Flags.-The famous Eng-
"' Union Jack," is flown from all the whether under the charge of Imperial military authorities or Colonial militia forces. The Union Jack is
a combination of three flags. The red cross on the white ground is for England, the white cross with the
Arms placed diagonally on a ibluo ground for Scotland, and the red cross with the Arms placed diagonal
ly on a white ground for Ireland The Dominion of Canada has also authority to display on all pubic occasions a national dag,
viz., the red or blue ensign, a flag of plain red or blue, having the Union Jack in the upper "canton,"
or corner next the mast " and the or corner next the mast, and the
Dominion Coat of Arms in the "fly" or field of the flag.
The red ensign is displayed at the
opening and closing of Parlinment opening and closing of Parliament,
and on national occasions. The blue ensign is a distinguishing flag of the Government vessels of Canada; the mercantile marine of the Dominion
has a right to use the red ensign. The Governor-General has authority to use a plain Linion Jack in
the center of which are the Dominion the center of which are the Dominion
Arns, surrounded by a garland of Arnss, surrounded by a garland of
maple leaves and surmounted by a crown. Imperial regulations at
present, for some reason, limit the present, for some reason, limit the
use of this flag to occasions when
the Governor-(feneral is ansmer the Governor-General is " embarked
in boats and other vessels." Ihe
Union Jack is ordered to Union Jack is ordered to the flown
at the Government House at Ottawa
on ordinary occasions, the Royal on ordinary occasions, the Royal
Standard at the Covernment Houses at
Ottawa and Quebce, and at the citaOttawa and Quebece, and at the cita-
dels in Quebec and Halifax (an Imperial garrison) on the Queen s birth-
day, und on the days of His Majesty's accession and coronation. On the
and
Torento Gaverner vate flag of the Tientenant-Governor is used, and other licutenant-Gover-
nols have, presumably, the same right, though the Inion Jack is bec. This 「rovincial capital appears, also, to occupy an exceptional
position with respect to the uses of

## William of Germany.

Whether Williain of Germany has it
in mind to figure as a second Fred-
arick the (ireat in Furope.
present an interesting subject of
ponjecture. Personally. there is no doubt whatever that his tastes are
warlike and his ambitions almost warlike and his ambitions almost
wholly military. He is, moneover wholly military. He is, moreover,
of a peruliarly erratic and visionary tompreament, "xaclly the kind o
disposition which leaves little mar min as to what may be expected, of
one entowel with it one endowed with it. He is, how-
ever, most popular with the German
peophe, and durine his regime Ger-

## many has become a prosperous and powerful nation, with a standing

 powertul mation, with a standingarmy which has lost nothing of its
former efficiencs, and a now and unformer efficience, and a new and un-
tried fleet which promises to be truly formidable. It is, however, just
possible that. whaterer his ambitions may be, he may have judg-
ment enough to recouni, how far he may go with impunity, and that, country may be spared the horrors of a false glory, and his reign
marked in history by the better and

How the Door was Opened in Japan
It seems a rather discreditable re-
flection upon nations which proud ly vaunt themselves as peacethat which has been raging in the Far East should have been necessary to the advertisement of JJapan.
Marvellous, to be sure, its revelaMarvellous, to be sure, its revela-
tious have been. It has shown the Japanese as a people of wonderful resources, skilled in every artifice of modern art and science; and yct for
the space of less than half a century before the war broke out Japan was making strides in intellectual, politial and commercial lines quite as
wonderful as those which she has since proved in the arts and artifices of war. It is interesting to note that almost every advancement in made has been accomplished since For two hundred years before that Japan had been completely closed to
foreigners-a little nation. made of a people who toiled away on their
patches of farms, cultivated their patches of farms, cultivated their
flowers, fought their tril'al lattles flowers, fought their trilal lattles,
and put their criminals to death


William III., Emperor of Germany
The Man by Reason of Whom All Europe with horrible tormuntc Water. With horrible torments, all very much
 erature of China "ere thin only ones ohliged to capitulate.
hnown to Japan. Here speedily
either Shintoism, with worship and
 mate destiny of the mes the whi- ima that there were other nations a stranernment was. for mans yars, to be la red froman, and much reditary hut momimal wher, the ly resoled to profit by their enestant conflict "ith the "unping opend wide to the aforetime ""for-


ual " rulers of Japan, a misconception which was due, doubtless, to the great difficulty of obtaining any
reliable information as to-interior conditions of the country, and to whe fact that, in the first intercourse were carried on wholly with the Shogun. Under such conditions it Mas scarcely wonderim that the as a myth. Yankees to the fore To the United States is due the
credit of having begun the work of opening the door to Japan. In 1853 Commodore Perry sailed up to the islands with two or three warships and opened negotiations with
the Shogun, demanding certain trading privileges, to be confirmed by treaty. The Shogun and his men chicd with awe on the big war-
ships and their cannon, and, deeming discretion the better part of valor, made haste to assent to the American proposals, it may be necessary slightest intintion of keeping their agreement. To gain time was, at fion. history of the oxt ten years the
chinefly made door was chistory of the opening door was
chiefly made up of a series of not
very vigorous aitempts-since the resources of Japan were not yet
fully understood-upon the part of other nations, to secure a foot-
hold on the islands, the Japanese,
meanwhile to increase their fighting numbers and strengthen their fortifications. During this time anti-
foreign sentiment was very strong amongst them, and its demonstrations freciucent.
occasions,
indeed,
inissionaries and merchants who had boldly country were murdered, sometimes tortured, then hacked to THE ENGiJIshMAN'S FIST At last, in 1863, some promi-
nent linglish officials were thus Klled, and the British Govern Was taken of the demand, and a
delachinent of the British fleet welachnent of the British fleet
was sent to enforce com-
pliance pliance. The warships anchored perially fortified as the Japanese submitting, the little brown men

JULY 27, 1905,
trading privileges were granted
which had been refused to the United States in 1853 . Froun that day civilization advanced, not with steps, civiluith leaps and bounds. With
put wis free entrance of foreign ships
ine the free entrance of foreign ships
and peoples came also the free en-. and peoples came also the free en-.
trance of all their inventions and intrance of all their inventions and in-
stitutions. Occidental science, occidental educution and literature,
everything occidental, in fact, which everything occidental, in fact, which
had been proved useful or powerful,
was seized upon with an unsatiable was seized upon with an unsatiable
avidity, and all, doubtless, looaling to the time when the Land of the
Rising Sun should be no more the Rising Sun should be no
least among the nations.
The system of governnent,
was revolutionized, Long since the
people had abolished the shomu people had abolished the shogunate,
and put the reins of power into the and put the Minado and his ad yisers; and a little later, by a had aloolished the ancient $\begin{aligned} & \text { vol " they } \\ & \text { hadal }\end{aligned}$ -system under which the land had system under which the land had
been held, in order that a united
Japan might turn its Japan might turn its face to the
world. Now, in 1885, the Cabinet system was introduced, parliamen-
tary government was established on the most approved basis, and the criminal law revised, so that never
again might atrocities such as those that had disgraced the name of Japanese, even as late as in 1867, he as a blot on the fair name of the
land of flowers. To-day, not a single art or artifice
known to the Western world is strange in Japan. Steam, electricity, the science of building-all are hers. In
addition, she has launched out into invéstigation on her own account, and has made inventions and discoveries of no little moment, espe-
cially in medicine and surgery, while her sanitary system is the most perShe has hundred
mental farms. One of little experiago, a wide-awake Jap called at the samples of a few extra good issues and ideas how to run a first-class mendous efforts expended in the war, her agricultural and other operations
have gone on as usual. A wholehave gone on as usual. A whole-
sale dealer told us a while ago that Japanese tea is being exported just
the same as if no war was in progNever was advancement so rapid
and complete, and and complete, and yet the little
brown people do not boast. Silencly they are going on as they went on belore; not less startling, it may
be, will be their future achievement. Libe all other. Orientals, they are hard to understand, and they have
been applauded to the echo, and been applauded to the echo, and
idealized as the incarnation of in idealized as the incarnation of in-
tegrity and honor. Yet here and There a dissenting voice has arisen.
The Australiants fear and distrust the Japanese. "We like the Chinese
letter,", says a writer in the recent
Australian may be that the of Reviews. It little Eastern giant are right, and wat he is in all respects as
worthy of contidence as any of his
Occidental brothers. At all events, he has demonstrated his place among the other giants of the world, to
whom the open door of Japan will
henceforth be a matter of solicitude nenceforth be a matter of solicitude
and, possibly, even of concessions.

## John T. McCutcheon, whose "Bird Cen-

 ter Cartoons" have achieved an amaz-ing popularity, told a Bird Center story "The mean man of Bird Center," he
said, io took his little boy fishing one day. The boy sat with his feet bang.
ing over the end of the pier, and, losing ing over the end of the pier, and, losing
his batance somehow, he fell head foremost into the water. "A bystander plunged after him. This
hero had to dive down to the bottom
time after to time after time before he found the boy.
At last he got him, and altogether ex-
hausted he climbel ainfult hausted he climbed painfully out, and
handed to the father his wet and unconfons son. father his wet and uncon-
$\begin{aligned} & \text { his work } \\ & \text { promises. } \\ & \text { or failing to keep his } \\ & \text { He should cultivate }\end{aligned}$ the promuses. He should cultivate
hatit of oveing prompt in trites.
young Prince was once in a


Making a Man. Once I was at a Sunday-school con-
vention, when a worried teacher said tell me superintendent: "Can you tell me what to do with bad boys?"
Quick as a flash his answer came Quick as a flash his answer came :
"I don't believe there are any bad
boys." You may be sure 1 agreed with that remark, for, aiter abrced with day School, I have failed in Sunsuch a monstrosity. But, though realiy "bad" boys may be hard to
find, some are certainly much nicer find, some are certainly much nicer
than others. some don't seem to
be putting much heart into their be putting inuch heart into their fight against evil. Every boy
should make his life "tell " in the should make his life "tell" "in the
world. It is a very poor ambition world. It is a very poor ambition
to aima at simply ". getting on "" in
business, or to set the heart on business, or to set the heart on
vecoming a millionaire. You country boys of Canada have your country's hands. Are you shouldering your heavy responsibility with a will? Are you laying strong foundations
oi personal integrity-honesty and loyalty in your relations with and and man, truthfulness, fearlessness, and pure-harted honor and self re-
spect? You can make your life "tell" even can make your life school, in the playground-if in you
will only go the right way about it. The boys who influence others for


Going-on-Nine.
body, are straightforward and hon
orable in thought as well as in act
One who has never actually told he is not necestarily truthful. Sup pose that a boy accidentally broke that if he is questioned he will deny having done it. Perhaps no queshons are asked-it inay be taken fo franted that the cat or the baby
has been to blame, and the boy congratulates himself that he has not told a lie. But surely that is a he has committed the, sin; indention, there rore, in the sight of God and of his
own conscience, he is really a liar and a coward. Never imagine that
the disgrace of a sin is the shame being found out, nor that a wrong thought is not really a sin unless it a story of a man who had planned mistake, he gave some harmłess medicine instead of the poison he
thought he had in his hand Surely such a man would be in Surely reality, a murderer, though he could not be hanged for a crime that had
only been committed in intention. You can never go through hoy-
hood again; so don't be half-
hearted in your delermination make the most of these most im portant days. Many a man would chance of starting fair again. You away,'. "The boy is father throw it man, in very truth, and you are making a "man" now-adding a think you will admire him or be ashamed to own him when he is made? One thing is very certain, want to get rid of him, he wrill old Man oi the Sersistently as the
old he Sailor. The ". making of a both to the man himself errd to the small bo trifled with. A very in a store, and was asked asition he expected to engage as a " whole boy or half a boy. The proprictor question the store said that he didn't
fact that the little chap had the usual number of arms and legs, but was afraid his mind
might not be ali there might not be ali there. It might,
he suggested, be wandering about aiter a baseball game or something interesting of that sort.
The small, freckle-faced lad drew The small, freckle-faced lad drew "I like" baseball first-rate: but when l'm here, I'll be all here, and
when I'm through here, I'll be all therc. I'll play for all I'm worth ain't places, but
divide, And he wasn't. o
course who is ? know that women
sometimes keep their mind on
half a dozen things at once-when they have
to walch the children to watch die children,
cook the dinner, wash
the ciothes, etc.-but these are only outcan be a real servant can be a real servant half-hearted in the matcer. Unless you
are climbing up-and
ieel that it is a real feel that it is a real
climb-then, look out! for you must be sliping the man that is
being made inside the Then, there is an-
other thing to be conother thing to be con-
sidered. You want to be a gentleman, I suppose, and a real
gentleman-you would scorn to be gentleman-you would scorn to be
only a sham article-a real gentleman always takes special care to
wear his best Sunday-co-to-meeting wear his best Sunday-go-to-meeting obliging to his sisters, obedient and respectful to his father, and tenderly thoughtul of his mother. I somecimes go unexpectedly into a neigh-
bor's house, and find the boys of the family washing the dishes, cleaning the lamps, or doing some other indoor "chore," and looking as bright
and jolly as possible over the job and joly as possible over the job.
Don't you think it is more "manly" to lift the heavy burdens of the women a little, instead of carelessly making
extra work for them? extra work for them ? And the
wonen would $p$, nbly prefer to do these things then elves, no matter how overburdened they might be,
if the boy's help be given grudgingly if the boy's
or snapyishly.
Lastly-you are tired of this ser mon, are you not ? but it is nearly
done-lastly, I want to remark that if you set yourself to manufacture really satisfactory article in in the
shape of a man him dependable. you must make think that the easy excuse, "Oh, I
forgot!" justifies him in neglecting
and drink our cofiee." Before the
time was up the Zulus arrived and
he was killed he was killed. Perihaps you think
that was only an unfortunat and dent, was onty an unfortunate accl-
conse was really the natural consequence of a boyish habit. His mother said afterwards: ". That
was his great mistake from babyhood. He never wanted to go to
bed bed at the right time, nor to arise in the morning. He was constantly
pleading for ten minutes more. When too sleepy to speak he would When up his litted hands with the ten fingers spread. On this account I sometimes, called hin "Mr. Ten so strange after all-that a childish
nickname nickname should prove so wellfounded.
and down in front of a pacing up orchard, and could of a tent in tho
away to away for any other amusement, because, as he declared, "I'm a sen-
tinel on guard.". Later in the day
his mother sent himl his mother sent him to the store for some groceries. "Now, don't those things as soon as possible." An hour later his uncle found him " "Hellowing stones into a creddie!" he said. thought you were on duty." Ner,", sir, was the surprised annow. commission I heard her giving you cuted with promptness and be exeand, knowing you to becsuch a dospath, teriy fellow, who could not be empted away from duty for a mo-
$\qquad$ Neddie saw the point of his uncle's like a shot was ofll to the village A dependable boy-one who can dier on duty, out of sight as well as in sight-is a far more valuable per clever or handsome the place tha The boy who is bright and
The boy who longs for fame,
The brilliant boy hity,
And brilliant boy, his teacher's joy,
And the loy who leads each game-
Right
Right cordially I greet them
${ }^{\text {And wish them every }}$ Joy,
But the warmest part of my boy-loving
heart
give the dependable boys
COUSIN DOROTHY

## Going-on-Nime.

if I didn't forget how old I was,
Do you think I I'd act 1 lke I often does?
Do you think I'd you think I'd swing on the front-
yand gate, I could remember that I was elght ? If I didn't forget how soon I'd be.
Grown-up and " proper," you'd hardily Suco a picture as this of a jolly child Do you think I'd make my ma so crose
By staining my frock with bright Would daddy call me a "rattle-pate," eight? ${ }^{2}$ dorget I was hall-past If I could remember, do you suppose
I'd climb like this and Would I ? my Wouree, treg on a horrie I didyou, Ir you were as old as me ? Would ever bet, do you s'pose that I Now, don't you suy enough to cry? If $I$ ine, didn't forget $I$ was going-on-nine ? a says he believes I was meant for a Though sometimes he calls me his " dearest joy "$I^{\prime}$ 'l ever behave, but ma-she kupposs
$n^{\prime}$ ' she hugs me cloge she hugs me close with a kiss, be
cause She says I "forgot how old I was.'

1068


That's the date of Toronto Exhibition, and when you come to it, we Want you to visit us. We have the
largest stock of Furs in Toronte, and we will prove to you that our values are the best. And if you are not satisfed with your purchase, we will refund your money
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Barred Rocks tho oror tron rex tor hathing


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 Reliable information in iven to Landeeekere EDMONTON ALBERTA DISTRICTS


 Portrait of the Late Bishop Balawin


The London Printing \& Lthographing Co.,
STAMMERERS


Rose, Carnation, Phlox Dear Flora Fernleaf,-Your suggestion thought you might help me solve a few questions in flower-growing. I intend
next spring getting three plants-an everbiooming rose, a carnation and a peren-
nial phlox. I wish to know, first, what nial phlox. I wish to know, first, what
kind of rose of that strain would be best
to get (I prefer white) to get (I prefer white), and, second, how
should I plant, care during summer and should I plant, care during summer and
treat the whole three at the approach of treat the whole three at the approach o,
cold weather ? Yours, etc., BELLE. Ottawa. the rose.
Ans.-You do not say whether the rose
ou intend you intend getting is to be for outdoor
or house blooming, but we judge the former. In your climate you are likely
to have best satisfaction with the herly to have best satisfaction with the hardy
hybrid perpetuals, sometimes called " ever-blooming," "ever-blooming," although they are not
antually so. or these, Merville de Lyon Margaret Dickson and Kaiserine Augusta vhites, and may be relied on more than
wing the best of the whites, and may be relied on more than
most of those exploited in the cata-
logues. Among the darker varieties, Charles Lefebre; Gencral Jack (or General Jacqueminot), a brilliant crimson
ose ; Jules Margotten ; Alfred Colomb cherry passing to crimson; Baron de
Bonstettin, one of the darkest of crips Bonstettin, one of the darkest of crimson
roses ; Mrs. John Lang, a soft pink Baroness Rothschild; La France, in diterent shades of pink; and Paul Verdier, imson with a purplish bloom, may all Roses may be planted in fall, although early spring, before growth has started, is the better time. The rose-bed should
ine tared be placed in a sunny, well-drained situation. not too close to trees or large
shrubs, although some protection to the shrubs, although some protection to the
north, and possibly the west, is desirable. The best soil is a good clay loam, thor- small two or three inches high move to The best soil is a good clay loam, thor- small pots filled with a mixture of three
oughty pulverized for a depth of two parts food loam nud one of leaf mould,
feet, and maie very rich with
 cow manure, and the beds are the better whe foot apart each way, in beds of loam,
of being mado a few days before the well enriched with wld manure. During
if ${ }^{\text {onshes are planted, in order to pive time summer give enough water to keep moist }}$ for the soil to santule. If the soil is at the roots, not wot; cultivate frequist
for for the soil to satcle. If the soil is at the roots, not wet, cultivate frequent-
light in your vicinity you whill do well 1 y , and orcasionally work in a little anhes
to procure sume good cliy, if possible, to or soot. Ir you want to raise the plants
 When the plants are received, get them for winter blooming, pick off all the buds
into the ground as quickly as possible, that appear before September. Otherwise to prevent undue exposure of the roots. protect well during the winter, either by Placing the latter in a pail of water until the very minute of planting will be be
found helpful. Before sitting in examine Tound helpful. Before setting in examine
the young bushes carefully, and if they the young bushes carefully, and if they
appear to be "lloudded "" stock (grafted on to briar shoots) insert so that the if
proint where the grait was made is placed ic
four inches at least below the surface of Your inches at least below the surface of
the ground-this in order that roots may
sprout from the rose as well as the briar sprotond-this in order that roots may
the rose as well as the briar
par stem-then pack in the soll very firmly, and give the plants partial
protection for a tew days. A few wisps
of hay loosely bound around will prot." of hay loosely bound around will proter
linth from the sun and from any frosty
winds that may blow after the bushes winds that may blow after the bushes
wre planted.
luring the summer cultivato freouently are planted.
1)uring the summer cultivate frequently,
and in the early months work in a litheral
application of hardwood ashes about the
inches of coarse manure, and bind th

## apper portion with straw. If the wi

 hers are very severe, a yood plan is the bushes down somewhin vert over them down somewhat, and inthe top to keep out raith close lids at the top to keep out rain, but with oper
ings at the side Dry teaves or loose permit ventilation,
should be packed in titer of any kind
sole should be packed in loosely around the the
bushes, and the lids set on bushes, and the lids set on a and weightede.
Regarding pruning, some discretion Regarding pruning, some discretion
must be exercised. The best time is in
early spring, before the early spring, before the sap has time is in
ruil. (Cut out all weak shoots to ruil. Cut out all weak shoots and dead
or winter-killed wood, and if the centers
of the bushes give free circulation of air. $\mathrm{S}_{\text {and }}$ Since it only new wood that bir. Since it invers, in
order to encourage its brows order to encourage its growth the shoot,
chould be cut back, to three Chould be cut back, to three or four

- eyes,", as a rule, if only a few flowers of large size are wanted; to seven or eight if quantity rather than quality is
the chief consideration. The amount of pre chief consideration. The amount of
pruning also depends somewhat on the
rose. rose. Margaret Dickson, for instance
will not bloom will not bloom well if severely pruned,
while some other varieties require to
 sequire the strongest growers, as a rule, require the least pruning. During the,
blooming season roses should be "picked" as freely and with as long stems as pos-
sible, in order to kep follow of the best quality until the ond CABNations
Re carnations, you may procure plants from the greenhouse or raise them from
soced.
To do the latter, sow one-eighth ff an inch deep in the hotbed in Aureighth ne plants will appear in about a week, e transplanted into shallow should for winter bloomink, pick off all the buds
that appear lefore September. Otherwise overing well with litter or by taking
tither wind Wie roots into a yery dry orellar, where point. The first year but few flozers
are likely to appear, but in the second. In they have wintered well, there should
in aood show of bloom. Carnations
will not stand a second winter order to stand a second winter, hence With perbenial pillox.
 not usually bloom the tirst sont raised may be obtained from any roots, which or spring. Any buod rich either in tal will d kerep thlow. Weeds altivate often enough to
water.
on and and give plenty of Oughly and frequently if the season be . water. During the winter very littie
lry, and when sturdy growth has set in.
any protection is necessary wot before, water the roots once a week any protection is necessary, unless th
with manure water, diluted antil it is an exposed position, wher
the snow is likely to tow onf Some alout the color of ale. If thrips, or lit-
le yellowish-white nies. appiear, drench
lin under sides of the with the garden hose, if you have one.
'r spray with a strong solution of whalo. s) soap (a pint to three Eallons of
to net wenticth part of the extract of then
Heco. For rose slugs, which are small
ien caterpillars, dust the leaves when "en caterpillars, dust the leaves when
$t$ with hellebore. Rose bues. dirh
ind npod beetles, may be kot rid of hy


is that you will give " Five Roses " Plour a fair and unprejudiced trial. The results will, we know, satisfy you, as this brand is not excelled by any on the market, and is superior to most

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may get a chenp and praction oducation at the
Ontario Agricalitural Collage
Next courne opens $\begin{gathered}\text { Write } \\ \text { Sor Caleptember. }\end{gathered}$
G. C. CREECMAN, B. S. A., IT. S.

President.

## CANADIAN NATIONAL EXHIBITION <br> TORONTO, ONT.

Aurguet 2B-19OE-September 11 $\$ 43,500$ in premlums for Uke Stock: Entries close Monday, Augunt 7 th
Specially favorable railway rates. For entry blanks, prize lists W. K. McNaught, President,

Canning and Preserving Pruit.
By Elizabeth Clarke Hardy, in July black rasplberries Pick the berries over cearefully and place them in the kettle, adding hearly water enough to cover the
berries. As soon as they begin to boil add one-half cup sugar to two quarts berries, let boil until scalded Pa
eyes
the
juice
When
about
and

PINEAPPLE MARMALADE Pare the pineapple and dig out the
yes with a sharp silver knife - chop the fruit and cook it in its own five, adding a very little water:
When tender, add the sugar and cork bout an hour, when it will be thick and smooth.


RED RASpBERRIES
Sprinkle sugar over the raspberries
in the same proportion as for strawin the same proportion as for strawto a boil, carefully remove the scum
and fill the cans. A cupful of ripe currants added to each quart of either red or black raspberries great-
ly improves their flavor, as raspbery improves their navor, as raspber-
ries are rather insipi in flavo with-
out the addition of some tart fruit.

QUince marmalade. Pare and quarter and core the
quinces; and cook the cores one houl strain the juice through a strong elly bag to extract all the gelati-
nous substance. 'The quinces should, in the meantime, have been covered
with cold water. Drain the fruit on a cloth, add the juice, mash through a coarse colander, add the heated
sugar, and cook about 15 minutes,
or until thick and smooth.
plum marmalade
I'lums come a little later in the
season, but the knowing just how season, but the knowing just how to
make a marmalade that will not have
the bitter twang that is found in most plum preserves, may not in come
amiss. The plums should te peramiss. The plums should be per-
fect and not over-ripe. Cover them
with ice-cold water with lee-cold water and let them
just cone to a boil, dip out and
throw the water throw the water away. Cover them again with ice-water and heat up,
peing careful not to break the skins. Throw this water away, also, the
cook the plums in as much wate as will keep them from burning, uin il tender, rub them through a In preserving the freshness of cut wishes to prevent roses or other place some


We have to-day two letters which will be read with much interest, the first an
answer from Octavia to all the enquirers who have been asking for her; the second
a very helpful letter in regard to housea very helpful letter in regard to house-
furnishing, which has been written for us furnishing, which has been written for us
by one who, through sheer tove of the
subject subject, has made a study of it, and who has, in consequence, won for herself much
more than a local reputation in the mat-
竍 ter of artistic arrangement of the home.
We are sure her letter will be, not only We are sure her letter will be, not only
a practical help, but an inspiration
 does not change, uue yellow in some cooler in a color, gright, sunny west and so on.
Ham, use Having decided upon your color, com-
mence with your floor. Have it darker mence with your floor. Have it dark
in color than walls or ceiling, and
you care for design, use a self tone you care for design, use a self-tone or
hat design. By fat, I mean one that
will not hadrude itaelf will design. By fatt, 1 mean one that
it. not obtrade itself as you walk ove
 furniture and fittings. Have in your
dining-room a nice round or square table
simple in design ehirs ither simple in design, chairs either leather
cushioned or ru h-seated, but with phain cushioned or ru h-seated, but with plain
straight lines in frame, a plain sideloard
 draped back with cords or hung, straight
from simple, inexpensive extension rods from simple, inexpensive extension rods.
In a hom where a furnace is used,
have a fireplace in your room; it always
$\qquad$ gives cheer as well as improving ventil.
tion-tuo necessary points.
Over your

## fireplace have a simple board shel stained or painted to match your woot

$$
\begin{aligned}
& \text { especially, you are sure to find some sub- } \\
& \text { ject that interests you-almost always } \\
& \text { there is. room for some subject that you }
\end{aligned}
$$work and furniture, and on it place your

brass or pewter candlusticks, old ch na.

$$
\begin{aligned}
& \text { there is room for some subject that you } \\
& \text { study deeply. It may be only swine } \\
& \text { tending, but if you are considering your }
\end{aligned}
$$


Thest sitting-room, or living-room, tion
remember what it and cosy, Alway
rands for-a resting
Make, sure of your culor according $t$ t
light, and, first of all, have your gener
ous fireplace withmay burn your driftwood caught fro
the river in early spring. A large,the wood. lour dog irons may be mos
inexpensive, even made hy your neales
blacksnith to serict
in advertising your poultry, pigs, of
$\qquad$ mention. You see a steady advertise you. My name is really (Mrs.) Octavius
Allen, but I don't want to be a poultry in the when I am talking to my friend
ingle Nook, so I like to sign

## Some Hints on House Furnishing

ngle Nook Chats, May 25 th, has inter


If several large new marbles ar is cooking, they will prevent burn
$\qquad$
$\qquad$
$\qquad$














$\mathrm{H}^{\text {Oin }} 1$ So

















 Well pasime PROSPECTINE

the olive green; then, also, have a green
and cream paper on your wall, some and cream paper on your wall, some
nice soft muslin curtains (not cheap lace) on your windows, and just think how how
sweet and fresh your room will be Your woodwork could be white, and be !
walls grearn, if you prefer, and all. will walls grean, if you prefer, and all will
cost you very hittle. Keep a vase of
fresh flowers on your table in summer fresh flowers on your table in summer,
and a nice plant from your window in
winter. Your meals taste so much betwinter. Your meals taste so much bet-
ter for the small amount of time ex-
pended. pI hope, Dame Durden, to hear from
your column again your column again. one interested.

Cousin Bee.
Cousin Bee's questions re canning peas
had been answered by the time her let-
ter arrived. We add a few menies ter arrived. We add a few recipes for
pickes, which she may find useful any of our readers know of any way of
keeping cauliflower (other than by means of vinegar) for winter use? If so,
Cousin Bee will be mean Cousin Bee will be pleased to hear from
them. . We shall be pleased to have
your recipe for keeping tomatoes whole. your recipe
Cousin Bee.

A Few Pickle, Recipes. Pickled Cauliflower.- Take good white
heads, break in pieces, and boil for ten
minutes in rather strong salt wate rake out the pieces and lay on a water. will go and see." lying around. But I to drain; when cold, put in a pickle jar I want to take a will go with you.
and cover with hot vinegar in which has stairs, anyway." at athings up-
peen boiled a few whole cloves, sticks at and cinnamon, and a dash of cayennes pepper. At the end of ten minutes they re-
Sweet Pickles.-Over steamed fruit of with a lot of paper boxes. any kind pour a hoter syrup made of three every seven pounds one pint vinitegar for
mery be added to to the ste
tied up in the may be added to the syrup, preferailly
tied up in a thin bag.
Curried Cauliflower.-Shred and staep in Curried Cauliflower.-Shred and stoep in
brine two days; drain dry, and put in a
pan of vinegar in which three ounces curry powdor per quart has been steeped
for three days.
Let come to a boil.
An Fixcellent
Mustard quart ripe cucumbers, cut fine, also one
quart small green cucumbers, one quart green toma oes, ore large calulifower,
six green peppers, all cut fine; add one
quant small quart small onions, all cut fine; add one
Put all in a weak
brine for twenty-four hours; drain, andl boil a few minutes in equal pants
in parts
vinegar and water; dran again, nud pour
over the pickles a dressing made over the pickles a dressing made as fol-
lows: Take six tablespoons mustard, one
tablespoon turmeric, "hitespogar, one cup one four, and a half onequarter
pound mustard seed ; mix, and add two quarts best vinegar : cook, and pour over
the pickles.

## Humorous.



 numpit tor themm
 at whar oid.".

a pile of burned papere. By nothing but
what could that have been, Mrs. Bel-
den? ", "I Ion't know, sir. She hadn't any thing to burn unless it was the letter." hurrying upstairs and bringing down the washibowl with its contents.
letter was letter was the one $I$ saw in your hand at
the post office, it was in a yellow en the post office, it was in a yellow en-
velope." " Yes, sir
". Yellow white Yellow envelopes purn differently from White paper. Ah, the letter has becn
detroyed; here is a piece of the enVelope." "thene is no use looking here for
"Then the
what the letter contained", Cryce.
Jelden ? ". Jielden ?".
But - But I don't know. It was directed frst requested me to teach her how to
write write, that she expected such a letter, so
I didn't open it when it came, but
it to her." " it when it came, but gave
$\qquad$ $\begin{array}{cc}\text { " No, sir; } & \text { I was in too much of } \\ \text { Mr. }\end{array}$ Nurry. Mr. Raymond had just come,
and I had no time to think of her." "But you surely asked her some ques-
tions about it before the day was out?", "Yes, sir, but she had nothing t say. She didn't even admit it was from
her mistiess." "Ah, then you thought it was from
Miss Leavenworth?" "Why, yes, sir; what else was I to
think, seeing that mark in the corner? Though, to be sure, it might have been
put there by Mr. Claveringh, she put there by Mr. Clavering," she added,
thought fully. "You say she was cheerful yesterday;
was she so after receiving this letter ? "Yes, sir ; as far as I could see."
"Wait ". cried Mr. Gryce, and beckon. ing me into a corner, he whispered, "Now
comes in that experitence comes in that experience of Q's., Whil,
you are gone from the house and befor you are gone from the house and before
Mrs. Belden sees Hannah again, he has a glimpse of the girl bending over some
thing in the orer thing in the corner of her room which
may very fairiy be the washbowl we
found there. After which he sees swallow in the most which he sees her way, a dose
of something from a the of something from a bit of paper. Was
there anything more ? " Very well, then," cried he, going back
to Mrs. Belden. to Mrs. Belden. thought of the girl, and going to the door, opened it. The light was ex-
tinguished and she seemed asleep, so 1 cinguished and she seemed asleep, so 1
closed it again and came out.".
" Did you notice how she was Did you notice how she was lying ?
I think on her back." I think on her back."'
And that is all you can tell us?
" You know Mr. Clavering's handwril
ing when you see it?
$\qquad$
"Now, which of the two was upon the
nvelope of the letter you gave Han nah?" of the letter you gave Hanhandwriting, and might have a disguised
either hers than his." think that it was more like With a smile, Mr. Gryce enclosed the
confession in his hand in the envelope in uhich it had been found. "You re-
member how large the letter was which member how large the letter was which
you gave her ?
oh, it was large, very large ; one of the largest sort," and thick enough to
" Iarge enough and
contain this?" laying the confession be-
fore her "Y Yes, sir," ", giving It a look of startled
amazement, "large enough and thick
enough to contain that." " Mr. Gryce's eyes flashed around the
oom. "o you need to ask now," whispered slon comes?"
. What are you going to do?" I
asked.
asked.
I I am going back to New York
$\qquad$

Net come, sard $I$, as a tramping Iudging from some one at the door. had every reason to fear that an im mediate stop would be put to all procoroner wns our part, as soon as the But happily for the interest at stake
Dr. Fink sensible inan. He proved to be a very
true Crue story of the affair to recogntize at
ence its mportance, and the peocessity
the he most cautious action in the matter. chapter xxxv.

Mr. Gryce had tolt me onough of his he intended to follow was that the clew the paper on which the confession was

I was, therefore, not surprised when
upon visiting his house the next morning which lay a lady's writing a table on ptle of paper, till he told me the desk
 ou not yet satisfied of her innocence ?
"Oh, yes; but one must be thorough.",
Did you see Miss Leavenworth this " Yes ? 1 asked. I desired without it.. But it would have made but little difference if she had
known the truth । There's nothing here she need dread having seen.
$\because$ But let us see what
"But let us see what we have here," toward him drawing the package of paper
ith a look of great expeointion. "I found thls pile, just as it is, Miss Leavenworth's libsary table in Avenue. If I am not mistaken, it is What we want
Taking the
Taking the confession from his pocket looked at them closely, then held them they were of the same A glance showed "Hold them up to the light,"
did so ; the appearance presented ty
oth was precisely alppearike.
"But," cried I, "' isn't there any room monest kind. Every family on the block might easily, have specimens of it in
"That isn't so," he sald,
"That isn't so," he said, "it is let-
ter size, which has gone out. Mr. Lea-
venworth used it for he mater venworth used it for hls manuscript, or his library. But, If you are atilll in credulous, let us see what can be done," and, jumping up, he carried the confes-
sion to the window, and find covering what he wanted, came back dispointed out one of the c lines of ruling
that was markedy that was markedly heavier than the rest,
and another which was so taint almost undistinguishable. "Defects like these often run through a number of consecutive sheets," said he. ". If we could
find the identical hall-quire In this was taken, I milght show fom which that would dispel every doubt ;" ${ }^{\text {and }}$ taking up the one that lay on top, he
rapidly counted the sheets. There wore but eight. "It misght have been takon from this one," said he; but upon looking closely at the ruling, but
lound that it was uniformly distinzt. Humph ! that won't do I" came from The remainder of the paper, so somb
Tozen or so hall-quires, looked undieduzen or so hall-quires, looked undils-
turbed. Suddenly he took up the next
hall-quire. hall-quire. "Count the sheets,". nexid he, thrusting it toward me, and himself
lifting another. I did as I
He counted his and "Twelve."
Go them down. on with the rest." cried he.
counted 1 counted the sheets in the next :
welve. He counted those tn the one Ollowing. Twelve again.
With a sigh of impe one lown on tho table and tence he hung it
Halloo !. crited he .
 package," I sald, placing it in in this the li, beautiful !" he exclaimed. hand one on the outside, and both in posi-
tions corresponding the the sheet of Hannah's. to those on this you think "The veriest doubter could ask no Mary you have an Interview with Mise
 that the unfortunate individual who does not own a few good Shorthorns must
certainly miss one of the great pleasures certainly miss one of the great．pleasures
of life．The green grass and foliage are．
no doubt，fine，but when you have some no doubt，fine，but when you have some
nice cows，and calves dotted here and there it doubles the pleasure derived therefrom．The things of nature change
each year as the seasons come and go， each year as the seasons come and go，
and while the calves come in their sea－
son also，there is an added interest on son also，there is an added interest on
account of the fact that you have had
something to do with the mating of their something to do with the mating of thei
parents，and you feel that you are re新部 ing，and if the result is what you antici are pleasing yourself and bettering things in the interest of humanity is very pleas－ in the interest of humanity is very pleas－
ant indeed．These thoughts are sug－
gested by the fact of seeing some 60
calves meandering around the orchards and pardocks in connection with our
flarm，and we may modestly intimate
that they蒠 to some of the good people who visi
us occasionally，as evidenced by the fol us occasionally，as evidenced by the fol
lowing salles ：Last month we shipped to D．R．Hanna，of Ravenna，ohio，seven
cows and five calves at foot，the othe cows and ine calves at foot，the other
two being in call，a lot that would warm the heart of any modern lover o
Scotch Shorthorns，all being of the on Scotch Shorthorns，all being of the on
type－short－legged，thick－fleshed，grandly
bred animals，all of them．Mr．Robert bred animals，all of them．Mr．Robert
son，the manager of Cottage Hill Farm whose herd wor at St．Louis last year，
informed us that they had sold their show cattle in California，and he bough show cat de in California，and he bought
these to replace them．In his hands，we sters later．When a few years ago he visited Canada and bought village Belle
2nd，the International champlon，it was here he saw her，she not having been
shipped to Mr．Flatt，and in looking shipped to Mr．Flatt，and in looking
around，he fancied a little white Missle heround，he fancied a and bought her．Her first
heifer calt and
calf was funior champlon at St． calf was junior champlon at St．Louis
last yenr，and this year she has a roar last yenr，and this year she has a roa
bull．which he congiders a better one bull．which he considers a botter on
This we take to be evidence that we hav at least a few of the kind that win
the shows，when given an opportunity Last week we sold to Jno．Clough，Bin brook，Ont．，the beautiful，dark－red bull
Count Victor，calved Sept sired by Imp．Golden Dro，Vi90 sired by Imp．Golden Drop Victor
（76780），and out of the splendidly－bred Victoria cow，Marengo s Victoria Coun ess（imp．），who，as her name indicates， Her dam was Victoria Countess， Count Lavender（60545）．Count Victo is a very smooth bull of grand conforma－
tion and good size，and we look for hin to grow into an A1 stock bull．Along With him were shipped the her roan heifer call，sired by the Missim
hull，Merchantman good．useful pair of females（81686）． have no doult will fill the which w
foundation fort

James Cowan，of Seaforth，a nice liunc

Rex halfer culf at font．by Diamon This is an excellent young （imp）． Toorl enough for show if put

 ady a beatiful pair out of im
arted dams．and sired by the Missie
 an heifur colf．Snow cosplint C．aly also Th has been doing Linues to L g Golden Fimir．out of the Marr－hred can Tomma 35th（imp．），one of the celebratn Victor（76780）．Twenty－ifht of th
thirty－one sires in the redigree of Fimm


$\qquad$

THE FARMER＇S ADVOCATE

|  |  |
| :---: | :---: |
|  |  |
|  |  |
|  |  |
| On the edge of a small river in theCounty of Cavan，in Ireland，there is－ |  |
|  |  |
|  |  |
|  |  |
|  |  |
| It is not safe to ford the river．＂ | our |
| writes：＂＇The keen demand for Fair－view bred and fitted Shropshires has ex－ |  |
|  |  |
| hausted the supply in all lines，exceptthat of two－shears－and－over ewes．＂So |  |
|  |  |
| chanre |  |
|  |  |
|  |  |
|  |  |
|  ordered lots go out later on on Ho hasbeen for years a strenuous advocate of |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
| （Tndications of sheep prosperity are seen | has scoured every two or three weeks．W．．．．．Ans．－We suspect you have been freding |
|  |  |
| is taking an interest in the industry．Since wool has become so valuable， |  |
|  |  |
|  |  |
|  |  |
| instances sheeindand infrom storegs |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  | hay． |
|  |  |
|  |  |
| （Livestock World $\qquad$ <br> Registrar H．G．Wade，of the short |  |
|  |  |
| Shorthorn department of the National Livestock Reorus is now preerared to to |  |
| cates to Shorthorn breeders．Owing tothe fact that the Live－stock Recond Act |  |
|  |  |
| the fact that the Livestock Record Act had not been assented to by the | That little fellow Nogh，though he＇s past three score and ten． $\qquad$ |
| horn Association have been obliged to is－sue their certificates without the seal so |  |
|  |  |
|  | ${ }^{\text {Is }}$ tying Tie Ling in a knot that lireaks |
| breeders who have recelved their certif－ $\begin{aligned} & \text { cates without seal should return them，} \\ & \text { chen }\end{aligned}$ |  |
|  |  |
|  |  |
|  | He certainly is past the age he should be chloroformed：Yet there he stands performing tricks that younger men should do－ If Osler only knew of this，if Osler only knew |
|  |  |
|  |  |
|  |  |
| tile midiand giasoline | Kuroki＇s getting on in life and surely <br> should retire <br> Then，what＇s he doing on my left direct |
|  |  |
|  | Then，whats he doing on my left direct－ ing of the fire． |
| Ont，wakes a strong hid for man shouldr＇t do ？－ 4 |  |
| public favor，as will be seen by theil ad | man shouldn＇t do ？－ If Oster only knew of this．If Osler only know $!$ |
|  | That old man Nogi＇s worth about three hundrad thousiand loovs，Fut，oh my military pride it cortainly |
|  |  |
|  |  |  |
|  |  |  |
|  | Whond the retired nad fossilized，if Osler <br> nly knew！ $\qquad$ |
|  | Ine lielckins have lo |
|  | importations of the animals，mainly from |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  | as ker them ont The mensurn has |
|  |  |
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(iood horses scarce; plutis

Ahs will scarce; plugs are plentiful.".
he the case, for the
his worses will find ready buyers whife
cod horses will find ready buyers whife
he plugs will either have to be kept on
and or wold either have to be kept on
and and at plug
rices.
rices. Probably with the march of
me and the progress in breeding, plugs
every practical man knows that no
anter what breed of horses a brender
Ikes up, breeding has hot reached that
tate of perfection which produces
state of perfection which produces no
culls. The wise breeder will choose hrs
breeding stock with a view of the pro-
duction of as few culls as possible, but
rreding stock with a view of the pro-
nction of as few culls as possible, but
ntil breeding makes conslderable
Wgress there will be more or less culle corale
fill up the plug class.-Horse



The Paris Plow Co., Limited

your son industrous
It depends," answered Farmer Cornsin' chores, but if you ever get him on secund lase with a good hittor up lhe's
lialle to be ahout the busiest thing on At the Highland Society's Show.
Git
Glasgow this month, Hie Shorthorn class
 bull class
Marshall, Conqueror, Roan Conqueror, by Who Was champion of the
Royal Dublin and second and reserve Royal Dublin and second and reserve
champion at the English Royal, where
Royal Emble Royal Emblem was rated above him.
The latter was not at cilasgow. Strowan Champion, shown by Capt. Jrawam,
Sterling, was second, the third award going to Primrose Knight, by Primpose
Pride, shown by Mr. Marshall. In a
class of ten two-year-old bulls, Mr. R. class of ten two-year-old bulls, Mr.
P. Cooper's white bull, Meteor, by Moon-
light, and who was second at Was here first, followed by Lady Rordon,
Cathcart's Ddgar of Cluny, by the Cathcart's Ddgar of Cluny, by the
Collynie sire, Royal Pride, as second, and by Mr. Geo. Harrison's Ploneer, bred by
the King, as third. In the big class o the King, as thirr. In the big class o
yearlings, Mr. Deane Willis captured firs
honors with Orphan Chief, who wa honors with Orphan Chief, Who we
second at the Royal. Mr. A. T. Go
don's Fascinator, who was thind at th Royal, was second here, and Mr. Harri.
son's Royal Ensign, another white, bred
by Mr. Duthte, and git by Ren son's Royal Ensign, another white, bred
by Mr. Duthite and got by Royal Ed-
Ward, was third. In a small class of cows, Mr. Wulias. white cow, White
Heather, of the Kilblean Deauty tribe was first ; Mr. Harrison's Ursula second,
and Sir Jno. Gilmour's Annie Wenlock.
 won in two-year-old helfers with Emlda
2nd, by Bright Stone. Mr. Camaron
was was second with Butterfly 89th, by
Ruthven, and third went Ruthven, and third went to Mr. Mal
colm's Lady Kathleen, by Golden Mr. Haley, with Bright Jewel 6.th; by Sir George, won first in yoarling heithers,
followed by Mr. Sowerby's Eastuhorpe Gem and Lord Lovat's Lady Theazle hoan Conqueror was champlon Short was temale champion:
ayrshires at glasgow.
The show of Ayrshires at the Highland
Society's Show this year was the seen out in many years. The aged cows in milk were especially. grand. aged cows
prize went to Mrat
pr. Robt. Wilsons. prize went to Mr. Robt. Wilison's noted
old cow, Harvey 6th of Manswrae, who was also the champion female, and won the President's prize as the best animal of the breed. The second award went
to Dr. Douglas, Mc Blossom, and Jas. Laurie, Wert Heather
was third and fitth. Three-year-old, cows in milk were led by Mr. Jas.
Neil's Topsy 2nd of Barleith. Messars.
Kerr, of Old Cret. Kerr, of Old Gretna, were second with
Sonsie oth, the third going to Mr. Robl.
 Royal winner, Lady Jane of Knockdons,
Mr. McAlister was second with Ardyne Fairy, and Mr. Wm. Wrown's Kate of Springs was third. In the Derby for
three-year-old queys, Mr. Jas. Nelli was tree-year-old queys, Mr. Jas. Neill was
frst and third with Topay 2nd and
Hover-a-Hover-a-Blink,
with Sonsie
heifers, Messrs.
Bth.
In heifers, Mr. Jas. Howie, Hillhouse, was
first with Snowrift, wy Gentleman Mr. Robt. Onowdrift, hy Gentleman John. ina Sediha, by Gigantic Stunner, and
Mr. Andrew Mitchell third with Handsome Nell, bred by Mr. Jas. Howie. In
yearling heifers, Mr. Howie was first and second for Whinflower and Semolina, and Che third went to Mr. Robert Ostborne for
Haustina Scaife, by Wynholm Dunning. The first-prize aged bull and mal vear-old, Safoguard of Gennedy's four
 two-year-old bulls, first award went to Mr. Thos. Barr's Uzomo-sal; Mr. Howie's
Give and Take being second, and Mr. R. Yearimg
bulls, or " bull stirks,", third. as the Scots call


HOREE OWNERS\& USE


CAUSTIC BALSAM.


$\$ 100$ Reward

 cix
 For Race Horses , For hace orses




"THE REPOSITORY
Burns \& Sheppard, Propritoors,


Cor, Simeos and Melson Sts., TORONTO
 dirbedal Sooles of Thoroughbred Stook oon

 Wated
OHKYDIE SDA I, IE Q

$\underset{\text { and Biokilin, G T. R. Myrtle, C. P. }{ }^{\circ} \text {. }}{\text { Long distance Tele }}$
Clydesdale Stallions and Flllies.
Imported and Canadian-brod. For sale: Three

 Clydesdales, Ahorthoras and $\begin{gathered}\text { Reloesters } \\ \text { Present offoring: } \\ \text { One choie }\end{gathered}$ mare, I years old, from imp sire and dame
Two young bulls (aired by Golden Count 2040) Two young bulls
Prioces reabonab



THE FARMER'S ADVOCATE
QUESTIONS AND ANSWERS Miscellaneous.

BLAOX MBDICE-THRIPS IN OATs. What is the cause of oats being as
they are in sample, also name of weed they are
enclosed?
Haldima Ans.-The Co., Ont. tion of the lower part of the head of oats is a species of "thrips,"' regarding
which see note by Dr. Fletcher in the which see note by Dr. Fletcher in the
Farm Dept. of this issue.
The plant enclosed is evidently black medick, although we cannot be absolutel ? certain in identifying such small sp
mens without any of the blossom.
barnyard barrbn aptbr a fire A few years ago my barn was burned,
pile of manure being consumed at the same time. The soing in the barnyard is
a sandy loam, though hardly its a sandy loam, though hardly its
natural color now, as it seems burnt by
the manure no the manure. Have worked this land up,
fall-plowing it twice and plowing it deep-
ly. The first ly. The first year it was planted with
potatoes, the next year mangels, the next year corn, and th.
nothing grows on it.
Ans.-It is a pretty clear case that the
humus or organic matter has becn de
stroyed by stroyed by the fire, consequently the soil
is not in a good physical condition, and is almost certainly deficient in nitrogen.
Then, besides, we suspect there is an exThen, besides, we suspect there it an ex-
cess of soluble mineral salts, particularly cess of soluble mineral salts, particularly
potash, which would certainly render the potash, which would certainly render the
soil sterile until the excess had been re-
moved by leaching or some other means. moved by leaching or some other means.
Had the ashes, after the fire, been
hauled away and dsattered over the fields.
they would have lieen a source of profit hauled away and srattered over the fields,
they would have heenn a source of profit
instead of loss. Now that they have
been incornorated with the soil their re been incorporated with the soil, their re
moval is not possible without entailing
the handling of a lot of dirt. We would suggest by way of experiment, We manuring
with an application of corrse barnyard
nanure, or green manure. if, eeven, manure, or green manure. If, even, a
small crop of buck beat or clover could
be grown and turned under. it would sup-
mly thunns and nit arogen, at the same
time tending to counteract the effect of ply lyumus and nitrogen, at the same
tlme tending to counteract the effect of
the exxess of mineral salts. The tend-
ency will be for this land to come toack
in ency will be for this land to come back
in timie to a state of productiveness.

TRADE TOPIC


OF MONTREAL, LIMITEER-The Cana ited, have issued some handsome cata-
logues during the past few weeks.. Cata-
logue ". $\%$ " deals comprehensively with logue .. \&" deals comprehensively with
interlocking rublier tiling, and other unique rubber floor coverings. It is
printed in several colors, and all the
illustrations are in halftone. As a de-
nertan special line of goods, this publicatiou is
designed to bo far and away the finct issued by any rubber company in Canada,
or the United States. Catalogue " D"
is devoted exclusively to rulber belting
and rubber-covered and rubber-covered rolls. This beo
comprises 90 pages, with a handsome em
boossed cover in gold and black. A mas of valuable information concerning t
care and use of rubber beetiong has be
insertedt, and the illustrations



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SHIRE HORSE Whioh from birth are kept fin their natura





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Give your orders to any of our local agenti, or mend direct to TOLTON BRO:


1. Cow DEBLLTTY-LUMP JAW. 1. Cow was very thin and weak, an
coughed sometimes, before goling on pas
2. Cow has a lump on side of jaw. It
is loose, not attached to bone. It is loose, not attached to bone. It
breaks and discharges a Hitle matter
trequently breaks and discharges a uttle matter
frequently. Is it safe to use the milk?

 ond
 and feed well. 2. This is lump jaw, and as the bone is not affected, the best treatment is to
dissect the tumor out, sultch up the dissect the tumor out, stitco up the solution of carbolic wactl divelly untill healed. Follow up by glving one dram
iodide of potash three times daily for tem days. The milk of an affected for tem in
not considered fit for thumari food. salivat:on -umbilical trouble
3. When my horses were brought in off
pastire this morning they were hailifitthg pasture this morning they were winattyg
very freely. Water ran fromi (thelt 2. $\begin{aligned} & \text { outh in streams. Give cause and cure. } \\ & \text { 2. Three-weoks-old coit has a hard roll of }\end{aligned}$ welling at the navel. Colt's silfor is.
also itchy. Ans.-1. The salivation ts due to white clover,
pasture. or some weed they get $\ln$ theatment conslets
th the cause, or, in other worde, chaytngredients that stimulate the pill
glands. In some cases selivation io Handis. In some cases sethvation in
to irregularities of the teeth, but in animals are on papture.
4. An abscess is forming. Leave it then lance it (be cerefult to the centern deep), and fush the cavity out twice
daily with a Ave-per-cent. solution of
Zenoleum or Phenyle.
NON-APPEARANOR OP GGATRDMC-CON1. Several of my cows do not come in
heat. They are in good condtiton. Give cause and cure.
5. At what stalige of abtrum ahoot they be bred so as to control tox of off Ans.-1. Nature's failure to assent her aelf in cows in good condition and under favorable circumstances cannot be under-
stood or explained. We know that such
conditions occur, luut ter or control theni. On the assumption that the non-appearance of cestrum is
due to want of nervous tone, we recomvomioa three times dally, and that a bux bull be allowed to run with the cows. This
treatment Try it. 2. All systoms for controlling sex here
proved abortive. Many theories have beon abvanced, but all have fafled ta
practice. indigestion.
Cow milksing well and due to calve Oct.
15th suddenly failed in milk, and sumpination was almost suspended. I gave 1y
lbs. salts and she got hetter and in milk. This morning she is sied the same way again. The last one Th hid
that way had a bunch of hair 2nd stomach. Ans. -The cow sufrers from inatigoition.
think it is probable the hatr ball speak of was in the 4th stomach, and any compartment of the stomach whith would cause the trouble. If in the 1 st or 2nd compartment it could be removed the trouble is to determine its preence If in the 4th compartment (not likely to be in the 3rd) nothing can be done. Give
her another purgative her another purgative, of 2 ibs. Epsom
saits and 1 oz. ginger ; follow up with
dram each dram each, sulphate of iron and gentian
tree times daily, and feed lighty. she has future attacks get her examined
by a veterinarian.
midiand gasoline engine. An excellent idea of the "Midland" gasoline engine may be derived by perus.
ing the illustrated leaflet, Bulhetin No 1. Which, with entalo nee.
particulars, may be had the manufacturers, the by addrusping
the Geor,
Fingincering Works,


Turns Bad Blood into Rich Red Bleod.
No othor remedy possesses suel prfect cleasslag, healing and puri ing properties
Externally, heals Sores, Ulcers, Ahscesses, and all Eruptions. Internally, restoree the Stomect Liver, Lowels and Blood to healthy action. If your appetite is poor your enery zome, your imbition lost, B.E.5. With rentore you to the full enjoyment of havd viforome -


 THI OUNWIDE NEMTROW:
 mintirn
 MUNON OENTHAL ETOOK PAAM
$\qquad$


 Spritity Bron Stook Faiin simmom

 PINE OROVE ETOOK FAMM

 a. 0 .
 T. Pollolas boins. Siomitionis til Clyussules

 mITLE LODEE STOCK FRRIII 1854

4. W. nerren Moplo roaro p.o. ont.
 Mat


Tremotrane sition, rovere

 $\boldsymbol{T}$ Imp. cops and helfors.
 MAPLE SHADE  One Oruickshan
Invender bull reavender buvice,
A numbervice,
Ahearling
ehearling Shrop-
Bhire show rame.
JOHN DRYDEN \& SON, Brooklin, Ont. Station $\left\{\begin{array}{l}\text { Brooklin, G. T. R. } \\ \text { Myptie, O. P. R. }\end{array}\right.$ SCOTCH SHORTHORIIS

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 young bulls and females this season.
bred from our prizewinning bull, Imperial. Electric power is now being applied to
the currying of horses in Chicago and the currying of horses in Chioago and
New York. To the celifing of the stable are secured iwo small dynamos. From
each long, flexible tubes depend, and ateach long, flexithle tubes depend, and at-
tached to each of these is a small brush tached to each of these is a smail brush
buzzing around in a dizzying whirl. All buzzing aroand to do is to keep moving
the mon to do
the about, and with the finvasion the srushes about, and with the firvasion
of each new portion of the animal's
ana anatomy, dirt and dust are sent fying
from the hair of the horse. Both men
and animal seemed to he enjoying the exand animal seemed to be enjoging the ex-
aperiment immensely. The device comperiment immensely. The device com-
mends atself to grooms because of its mends gtself to grooms because of its
saving in time over the hand currying.
Expert hostlers say. it takes about Expert hostlers say. it takes about
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ordinary currycomb, and about four with
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blood to circulate properly, oftentimes
making the old-timer feel Hike a colt. making, the old-timer feel Like a colt.
". Why," declared one stableman, "I've "Why," declared one stableman, "I've
seen a cart horse shy at his own shedow
after an electric currying. And this one after an electric currying. And this one
here "- ${ }^{\text {stroked }}$ the flank of a pretty little trotter-" why, efter an electric
currying and a good rub-down, iron bioops Moung b u 118 ) W. J. THOMPSON, o Mitchell, Ont ELM GROVE SHORTHORHS Whotatam ko kian sup wid
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do not always realize the seriousness of nervous dilseases. They do not think of the helplessness of body and mind, which
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 OOOTOH-TOPPED BHORTMONNE



## In an address before the meeting of the Suoth Dakote Sheep-breoders recently, Mr. Frank Cronk  

 $\int_{\text {started in the sheep business }}^{\text {noted }}$ mrote If I had as good a ${ }^{\text {a }}$,

Here is an explanation of the old
horsesho
 workin his forge, the dovil eaved
disguise and requested Duncan to ehoe hit single hoof. The saint, although the
reocenized his mallign into recognced his mailign customer, acceded
but cuased him so much paid during the operation that Satan begged hurm to to de
sist.
This s . sist. This St. Dunstan did, but only
aiter he had made the evil atter he hat made the evil one. promise
that neither he nor any of the lesser ovill
spiritts, his servant the immates of a house where the morse shoo was displayed

Editor "Farmer's Advocate
in two or three daysumb to bleckitiog sometimes die within 8 to 10 hourth they will see from this that it depends Ypor localites, and it is practically tmposgarding the time idefinte information red may be infected before any outward
symptoms apear very rapidly the symptoms generally de velop within one to three days after tofection.
Chicago, mil

The World's Fair of this yoar, the
Lewis and Clark Contennial Exposition now in progress at Portland, Oregon opened June 1st and to close Oct. 1 Ethth,
cellobrates the celebrates the 100th anntversary of the
oxploration of the Oregon country by an expedition commanded by country by an
wether Laptains
Meriwether Lewis and william Clark, and
planned by President plannod by President
Oregonerson. Country, which Come
comprised aregon country which comprised what
aro
now the states of O Oregon, WashingCon, Idaho, and parts of Montana and
Wyoming. was tho Wyoming, was the only acquisition of
territory made by the United Statea by territory made by the United Statea by
discovery.
It
celebbrates the of the peaceful acoubratitios the conteonial
that wilderness chat has yielded up its riches generously
as a reward for the unceasing. as a reward for the unceasing toil of the
pioneer and the home-builder. dairying at
What London's The western fatr. Lat London's Great Fair is Doing to
Promoto the Duirying Interests of The great dairying interests of the Do minion of Canada have treir haodquarters
in the district of which London to the In Oxford, Perth, Middlesex and adja$t$ counties livo the dairymen who have
It up a world-wide reputation for Canadian butter and cheese.
Theee are the
These are the men who have also lorge
 Starting thirty-ight years ago in avery unpretentious way, this exhbibition an very
gone stoadily gone stadily forward, and tot the the
knowlectged forerunner of the targer
 Its cattle and dairy classees are always
well filled, and the most up-to-dato facill itien for exhibiting cattlo and dairy The catte suilding have boen prol it ited.
visitors have thatranged that visitors have the fullest opportunity of
seeing and jugging tho individual aniuals
and ber Last herds.
year a new dairy bullding was
arected erected at a o oust of darry bulling wase than sio, woo,
and has been fittod with the
 tiberating devices, so that butter and
cheoes can be shown th th wery best
form. In this building, during the fair. Iectures will be given daily by Govern-
ment experts The prizelist is a very generous one,
and the specials exceed those of any pro-
vious vear Tious year.
The e
Theretary, Mr. John A. Nelles, will give any Intormation desiricelt. it or to


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 tho ran-Amorlow mimer, ditaw fotis Mom-olass














Pave Restored Thousands of Canadian Jomen to - Fileath ani Strength Mherebeno mod for co many women to chorporion anmite fint nhí diver Cpopit and tho nimeroun fromble which chader tio Hifo of roman a round of diak nerend mitms.

 Wiil ind Milibre's Cert ont Nervo Frite halp thomergetily durinat thip priod
 pire and nowlos, palipithion the heath
 romely:
al are a wenderful offiob on a momal Guthom, mike pailes and acheo vanith. cophey
 vinlity improve tho appestito, mike riol rat hood and dippol has reak, tireat
coo. pen eox, on a ron
the Tompurneo., Luiltel, Toroato, ont

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 Atioks Btopped pormanendy. Cause re
 wo want you to romomber that
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y, Ont. BROWN BROS STEINS
 utter in seven deys. Champion cow of Can da over all breede. Sirir's dam, Aaltio Pooco the hold the world's largeet two thay pubili
tot rroord
os povnd buter. Young bull




## in the Advecate

- cosstio

 skin about elght inches wide the length
of the manger, with the rough, wooly of the manger, with the rough, wooly
side out, and aprinkle it thoroughly with cayenne pepper, renewing it occasionally. cayonne pepper, renewing it occasionally.
It. wouldn't cost much to try anyway.

Parties thinking of the new Province of Abberta as a field for securing cheap
farming land of the beat quality should look up the advertisement in this papler
by the Edmonton Board of Thide by the Edmonton Board of Trade. A
letter or post card to the secretary will bring information that may be helpful to the enquirer. The prospects for farming in that dtstrict are bright with promise,
and thousands of Eastern men are doing and thouse
well there.

Volume II. of the South Devon Flockbool has, through the courtesy of the secretary and editor, been received at
this office. It is a substantial and hand-somely-blound volume of 115 parges, con-
teining pedigrees of rams numbering from oot to 1,072 , and a register of flocks with thetr thiotory, numbering from 1 to 182,
also the constitution and by-laws of also constitution and by-laws of the
Soclety and a list of its members, numbering fpver 200 , showing that the breed is a popular one in Great Britain, while demand for them for export to the
colonite is steadily increasing. The address of the Secretary of the Association is Mr. W. W. Chapman, Room 4, Mow-
bray House, Norfolk Street bray House,
London, England

That there is a steady demand for wool is shown in the cabled announcement
from London about wool sales, in which
it is stated that wool rem it is stated that wool rales, in which
Boston was sold at an advance, which
indion whin Boston was sold at an advance, which
indíoates that wool is needed by the
manufacturen indioates that wool is needed by the
manufacturers very much pust now,
especially by the English manufacturers especially by the Eanglish manufacturers
who are now making a large amount of

biankets and woollen clothing | biankets and woollen clothing for the |
| :--- |
| Japanese for use in Manchuria. "It is |
| a sort of distribution," said Senator | Power, of Montana. "These people

shipped the wool to Boston in anticipa
tion tion of selling it, and then as anticipa-
don market opened and the demcame evtdent reshipped it to England at tribution of wool supply that means
wool is in no

Clydesdales at the highland. The display of Clydesdales at the High-
land and Agricultural Society's Show at Glaggow, the first week in July, has sel-
dom been equalled. In a latge class of aged horses, Mr. W. S. Park was firs
with Royal Chattan, who was also
awarded the male championship; Mr
Wer maty Wm. Dunlop's Baron of Buchlyvie was
second; Mr. Geo. Alston's Revalanto
was. was third, and Messrs. Montgomert,
Acme, fourth. In three-year-old stal
Aions, Mr. Kilpatrick's Yerpetual by Hiawatha, was first; Montgoomery,
Silver Crest, by Acme, was second Silver Crest, by Acme, was second, an
Mr. Wm. Clarks Dunure, by Sylvander
was third; the fourth and fitth Was ohird, the fourth and fifth were sons
of Hiawath. In twoyear-olds, Messrs.
Montgomery's Baron Fyvie Montgomery's Barom Fyvie, the champion
of the Royal, was first. Mr. Wm. Clark's
Dunnudeer, a Dunnyder, a son of Sir. Hm. Clark's was
sacondli and Allandale, by the same ware secondt and
was third.


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 John A. Moellllvray, North Toronto, Ont FA IR I I RW SHIROPSHIRES



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LLOYD-JONES BROS., Burford, Ont. Shronshires - Try mefor Shropshires this sea. Sheof DORSETS and YORKSHIRES


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months old, at sin aach.



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 TAMKVORTTHE

 Tannorth Suline aill Shorthorn Gattle
 Tourf boowties from 6 woeks tos 3 and 4 monti oiar both sexe Pairs not akiv Choose, ant



 Youlwill bros., mewoastles owti

JULY $27,1905$.
QUESTIONS AND ANSWERS Miscellaneous
GERMINATION OF MUSTARD SEED. Will wild mustard seed germinate th
same season it ripens if the ground stirred up shallow and fine? Ans.-In some experiments by the
North Dakota Station to test the ger minating conditions of various weed
seeds, many kinds were seeds, many kinds were sown Octobe
17th, 1899 , and of these, wild mustard sed was praotically the only kind that germinated the same year it was grown. dAMAGE TO COLT.
A and B's farms abut. Both have ba b-
wine fence. A has bush next the line B has crop. B felled a tree last winter It fell on B's part of lence itto A's bush
B cut the wire to make the tree B cut the wire to make the tree int
timber, atiter which he sold his farm to
C, but did not C. but did not notify co that the fence
was down. A's year-old colt got
 wire. The veterinary has been attending
it now for two months. Who is to pay
the damage? the damage? months. Who is to pay Ans.-It does not appear that A is in
a position to recover damages by aotion a position to recover damages by aotion
against either B or C

## BUCCESSION DUTY.

1. What amount must a person be
worth before the Government can take a percentage, and what per cent.?
2. Can he not will it to family to vent Government from claiming it, supposing he is worth more than amount
they state? Ans. -1 . Ten thousand dollars, ONT. percentage is graded from 5 down. 2. No; that is to say, the legacies
members of his family mat members of his family may be exempt
from succession duty, but if not within the exemptions provided by statute ${ }^{\text {the }}$ the payment of the duties cannot be evaded damp cellaar We have a cemented cellar bottom, and but it is entirely the opposite. We close
it up in the day time and open it up with moisture. We the cellar just drips last fall, and both cold-air and hot-air pipes are covered with molsture a great
part of time. We are afraidd the pipes will soon rust out. SUBSCRIBER. fully, 一Welthout knowing the circumstamees We incline to think the drainage must be bad, and that the moisture soaks through the cellar. Some foars ago, the writer
was troubled with excessive, the ain was troubled with excessive dampness in Goor in this case largely overcame the
diffculty. It must be reme diffculty. It must be remembered that
dampness will penetrate even a cement oor, and still more readily a cement careful pointing will not make and and and wall imporvinious. will not make such a rrace water so as to keep it away
rome house, and thorough for rrainage, are the only remedifes we can suggest. We assume that "Subscribe
has a draln away from his cellar. GOOD agricultural countibs 1. How do the western counties of the
Province of Ontario compare with the eastern from an agricultural standpoint? 3. Are the farmers in the western conties, as a rule, more prosperous than
those in the eastern part of the Province ? 4. Which counties in Western Ontarlo and stock-raising. Ans. -1 . The western counties of on-
ario certainly compare favorably with county in the east. In nearly every theirs the "garden of Canada." who call 2. In the extreme east, there is prob-
ably a heavier snowfall. As to rainfall, you could ascertain that by writing Mr.
R. F. Stupart, meteorological office ronto, Ont.
3. We would not like to say which are he more prosperous. In either case,
depends largely upon the intelligence industry with which their intelligence and
conductions are conducted.
4. Such counties as Huron, Oxford,
Middlesex, Perth, Wellingeston, Werth, Lamberloo, Peel Kend Norfolk
and all rank high for general agriculture, but
there are sections in others which wout there are sections in others which would
probably not take second place to those
mentioned.

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Is there any such thing as outting rape
and curing it for winter teed I If toon and curing it for winter need? If soo
when abould it be cut, and how eurred Rapo was sown about 24 th of $\mathrm{Mayy}^{\mathrm{J}}$. and 018 Inches high.
Ans.-Rapo is not suitable for curring ae
dry toed, tout wm. Remite in., s.ing (ul Farming," speaks of keeping rape to
 November 20ut with an oritians mint
 adose, leave it in the stable to thint. This method of handing would apply to
crop sown the last of June or dart ot July. Youra having beon sown to bartly the best thing you can do with any um-
ed surplus is to plow it unde
If the pig troughs or watering taak Cement makes ceane into the cracke. thent makes good corking, and they hay
the time is coming when the wholo tant will be made of it.


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