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6 THE wonder is, where do some papers go to; but the wonder is where does the 'Aovocate' not go to, as I have enquiries from all it is the Canada, the states, from Southern California to Newfoundland cate.' I wish you every success in advertise Farmer's Advo

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# Farmer's Xidvocate <br> masaman monacar and Home Magazine. 

Vol. XXXIX.
LONDON, ONT., AND WINNIPEG, MAN., JANUARY 28, 1904

EDITORIAL

## Stockmen in Good Heart.

If recent allction sales of pure-bred stoch may good demand at profitalle prices the prosipct
certainly encouraging. Time was, and not many with the terms a public sale in this country y be written a failure in advance, when twal months' credit was the customary terms, and joint notes" the usual requirement
endue of stock totalling ten to twenty thousand dollars may be run off in three or four hours, and payment secured by cheque, or cash immediately at the close. This is a great improvement, not only as an indication of prosperity, but also as a business proposition, for, as a
rule, it is wiser and better, is not in a position to pay for at the time. The great demand for useful horses, a class of stimulated importation and breeding to supply narket which is bound to grow and expand with the se:tlement of the vast tracts of farming lond now being opened and made available by the land struction of new railways.
The improved financial condition of farmers in the West, who, as time gues on, will more and taining the fertility of the land will of main edly provide all enlarged market for breeding ars will be called upon to supply. The fact that the late she buyers from harn wate at American breeders want our cattle, and one good crop in that country will doubtless greatly increase our trade in that direction.

The probability that Canada will in the near future share largely in supplying the requirements of Texas, Mexico and South America with breed-
ing stock is more than a visionaly trial shipments having a visionary proposition, and the prospect for further orders are promis-

## "g.

The dairy industry, as shown, by reports re cently published, is in a very prosperous condi-
:ion, bringing increasing millions of money to the farmers of the country. The demand for cattle of the dairy breeds never was better than at no country is better provided with high-class herds if this class of stock than our own. The export demand for bacon has been a great lery profitable outlet for the finished product, but 1so a splendid demand for breeding stock, breedis being taxed to the uimost to supply that demand.
heep breeders report their sales in the past lecidedly best for several years, and the prospect ondedly encouraging. In no country are the chan in Canada, and Ontarion the raising of sheep vill continue to be the breeding ground for the upply of seed stock to all of America.
good heart in view have ample reason to be good heart, in view of the present aspects and indicious care in breeding and management of their herds and flocks, aroiding risky specula-
confidence that there will continue to a chcerful able market for good stock in all lines

The Agricultural College: Present and Future
arion on tario Agricultural College, Dr. Mills has been way Commission of the Dominion of Can Rail latest position or portunities to do his reputation as sis upon his work at the college. Without exasger ion it ean exagerainstitution ine aflrmed that no other educational icated so apathy serve or her fits efls Colleqe during Dr Mills College during Dr. Mills incumbency of the presNow the coll
him will develige will have a new president. Upor him will devolve the work of directing the efforts of the immense forces that have developed at Guelph for the benefit of the agricultural classes latent power Now it contains within itself the elficient, more make farmers more capable, more elficient, more happy, and associated with this Ontare is that which alms to give the women of ontario the benents to be derived from the study or dome science, dairying, home sanitation, and all the other problems that a complex civiliThe dincusts upon the womanhood of the land. the therk and apprication of these forces is to his ability of the measure of ha able me measure of th
lege.
To fill the position of president of an agriciltural college that has attained the status hat of Ontario's justly famed institution, quires a man of peculiar professional experienc and with singular administrative faculties. college with a less extensive equipment and less iversified racifitics for agricutural education might requice a president who would himself be n authority on each subject taught, and who could, if occasion demanded it, relieve any one of his colleagues at lectures, but such is not the re quirement of the Ontario Agricultural Coilege or, while her president should be cognizant of the importance of every subject on the curriculum, the professors of each of those subjects should be he best authorities upon them to be found in the rovince, and so limit the work of the president to the responsibility of directing the extent to which each subject shall be taught after due consultation with the professor of that subject. We believe that the pioblem of agricultural education is too large a one to lay upon any one man out carrying it out ond derolve upon the professors of the differ ent departments. Up to the present the failure of the college to adopt this policy has been one and with a change in the presidency the progress also the a change in policy, so that every depar ment about the institution might accomplish the maximum good.
With the president should be associated a staff
experts and professors, each one of whom is
ection with the branch of farming in which he makes his specialty, or which he chooses to in vestigate. The nucleus of such a staff has al ready been provided in the coterie of professors who have been associated with Dr. Mills, but heir numbers are too small, and the efficiency mallue virk limited, owing to the mallness of the aypropriations granted them, and een compelled of false economy which they have The shurfe incur
of presi cultural cona by the agri nlarmer for for coaching and experimenting at the college. agricult behind any other similar area in gricultural production and resources, is sadly be aricula branches of urs may purs may be equal to theirs. The time has come hould one ore gob will heir re. Clectors of the con ask ores to suppor purpose fopmopiation than that for the college. ollege
While it is not the province of the "Farmer's details of or any other paper to enumerate the up in the college should take ap in the interests of the farmer, still there are ious to there people are anxious to have pursued. Foremost in this list is work in actual demonstrations of the partment the experimental department. This department has already much useful data on hand. results obtained greater scope in order to verify the college play a ducted with a tery be obtained frombe increase in yield of hay can grass and tall grass and talthy oat grass over the ordinary clover reached from was eached in small tical pres scale and the growing of the crop on a through the dissemination bulletins, are the value of the in new forms many new materials, or old ones foods, pasture making strong claims as stock the short-course he short-course work in stock judging. So problems to department of the college there are nediate nediate attention, and the earliest possible andepartments of if all how coch farmer cound crease his income by the Province would even one dollar per annum fropriations, thioberal ap instruch and capable nake sur ario a successiul agricultural college, and Onrecsive en doubtless er between ce purel expermental and the teaching departmane the , efficiency of eithe
and its imperativen of agriculture in Can-

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farmer (1) to be, more than ever, a student the natural laws and processes upon which his success depends, and (2) to apply correct busines lege must be an incentive to better directed ant more economic methods.
The establishment of aggressive agricultural colleges and other means of agricultural education in Manitoba and Nova Scotia indicates that the with such schools for their rising agricultural population; but the prestige and equipment which the O.A.C. possesses, or should possess, efficient ly handled, will not only hold the Ontario stuwhat Hon. James Young once described as " great agricultural university," many ambitious ones from beyond its bounds. As the strong educational feature of this college for the ranh
and file of the rising generation of furmers thi development and improvement of the practical two
years' course must, however, be emphasized years course must, however, be emphasized, and
given such publicity as will cause its real worth to be appreciated more than heretofore,
First of all, at the beginning of this nell era the college will realize the need of a vitalizins. enthusing and directing force that will renew itJouth, impart to it new ideals, aid its students athe only as Senator Frost the other day observell " To produce two stalks of wheat where one grw efore," but to school its students in that highel itivenship which alone exalts and makes secur.

the farmer is a busy one at all
ough in winter every hour has its season, the farmer who destined to get ahead, is is not that busy

## The Railway Commission.

 The creation of the Canadian Railwaymission, in accordance with the Railway 1903, passed at the last session of Parliament may he regarded as the most important mublic ray octionarded as ho wost inortanl moblic and general commercial interests of the country This Act abolishes the old Railway Committee This Act abolishes the old Railway Committee tribunal practically independent of the Govern ment, and empowered to control the operation mailways, rates trains, equipment, protection crossings, and so on. It aims to remove lon and short haul discriminations, provide umiform ates of classification, and is empowered to rates and control tolls. The public generally as sociates with the work of the commission relief from unfair rates, but not the least of its functions will be such oversight as will make rait ways safer to travel upon. Railway accident mortality of late on this continent has bee:l frightful. It is said that there are more deaths caused by recklessness and carelessness, in one year than in England in thirty years. There still something to be learned about railroading this continent.
First, Hon. A. G. Blair, for the past this Act probably as thorough going a Minister of Railways as this country ever hasl. Te has a bach bone, because when he disagrend with the Go

ernment in reference to the building of the Que bec-Moncton division of the new Grand Trunk
lacitic, he stepped down and out. has been complained that he was not friendly to cailways, and as he was the Fathur tool of the "ay Commission 13ill, and fought it through Parfiament, to the "Farmer's Advocate" he womld riven unprejudiced opportunit, and should now bo Iitility of what is claimed to be the most commosition to which the (iovernmacted, and in the rosition to which the covernment, despite their Next we have the Hon. M. E. Bernimed him. Hyacinthe, Queljec, late Minister oi Inland Rerenne, an eflicieat business administrator of that dopartment, a lawser of repme, and a farmer th (ou) thating powder business and other wim Whan theors of the people are concerned, hore (a) 'M in mation of "getring to the bottom 5 ) Whate ample scope for that The the depths of railroading and
$\qquad$
agriculture in the world. He is a man of indomitable persistence in attaining the ends whicl he has in view, and if he had as Colloge Presicoin taut, it was, for example, in personally coing what should have been left to a forema or cork of works in the construction of the many A. C. in recent years. things done right," He was bound to " sec trimental to his larger educational vision, and the educational advancement of the institution in recent years itself. But as a Railway Commis sioner this very faculty may stand him in goo stead. One weakness of the commission is that it is without an experienced rallway man, an another that the West is not specifically repre sented upon it, but Dr. Mills is well versed upo the needs of the farmer from one end of Canad to the other, and in sympathy with agriculture. A most superticial view will show that Hon Mr. Blair and his fellow commissioners are abou to approach the severest task to which an ex coutive hoard has ever set its hands in this cour ury, for they will have to deal with many of th oldest, keenest, and most capable railway men on the continent at the present tine, and transport tion is an intricate and many-sided business. What is it that has mado Canada, a countr of vast agricultural areas, almost limitless in their possibilities, and of as yet small poulation one of the greatest food-producing countries st market Transportation to the world's grea st market-Great Britain. What is it that ma terests of the Dominion more than any other one cause? Want of transportation facilities, in etficient service and excessive charges. What is it that stands in the way of unifying the Canadian West and the Canadian East more than any tion facilities, and charges that liear unduly upon the prodicer or the consumer, or both. Inchecked, the railroad tendency is to "clap on all
trattic will bear," and let the public, which so largely helped to build the road, look out for it elf. Now we have a railway comnission to look cost us some $\$ 10,0040$ or $\$ 50,000$ a year, we maturally expect something for our money, but let is not expect too much, nor expect it like magic the hase evers reason to believe that the work of itions of transportation in conada, and will expedite under more favorable terms the carriage i our products and manufactured supplies.
The Commisuion will need information
The Commission will need information and the et all our great agricultural organizations, such is the associations of live-stock breeders and exforters, dairsmen, grain-growers, fruit-growers, ho will collect the facts and back up the repre have complaints commission of individuals who

## Dr. James Mills

Dr. James Mills, who has resigned the presi,ume one of the Dominion Gorer College to be ommis iones. iwillembury township, Simc e county, Ontario. n Novembir 21 th, 1810 . His parents were both atives of the Korth of Ireland. At the age of twenty-one, while oferating a thresher, Dr. Mills. had the misfortune 10 lose his right arm. In In the amount of wort of a farmer was measared: with his hounds, and the he was capable of doing. arm so handicaplied young Mr. Mills that he wa Irren to enter some other profession. Accordingwhen most soung men have begun their age work. Fromi mulice school he went to Bradford (irammar Schoo!, from there to Victoria Univerity. from which he graduated gold medalist in whis, obtained the deglee of M. A. in 71 , and Citer gradnating in 68 , he taught in the Cobourg Collogiate linstitute, but was shortly chosen as Hinal Waster of Brantford High School. From a minder Iht. Shillsol, the Brantford High School rose "If the Province. In the auturnm of 1879 , the On-
 lericultural C'ollege, (iuelph, then a struggling and mwh diswelited institution. From that is Howth heinm almost wholly the result of Dr: fars offors, inn on leaving it after twenty-five his zoll and enn care, he leaves a monument to as head of on of the most shith agricultessful colleges of as enduring as the

JANUARY 28, 1904
The Agricultural Situation in B. C. he condition af association affai in B. C. is not in the flourishing condition that makes for advancement, either commercially officialdom and the association, rages between yuence, the ship of association, and, as a conse anchored in the of agress is yc The association clains the rig

The association clains the right to eleot it titled, whether that which it is undoubtedly en the officials of the Provincial persona grata with ments of Agriculture or not and Federal Depart ously to being penalized nor and objects strenu doubted prerogative, by the withholding of un aid, in the way of official recognition itheal which it is hard to get reduced rates or passe from the railroads for association purnoses, also the withholding of all financial aid by the Federal Department of Agriculture
As the association is made up of men who have borne the heat and burden of days gone by, when than it does now, these men are entitled to some consideration, and should not be subject to the whims and caprices of officialdom
A Vancouver daily recently advised editorially the abolition of the Deputy Ministership of Agriculture, along with that of another department, a
move which would be a distinct backward move which would be a distinct backward ste, , Finance Minister, an energetic, tactful, capable leputy is an essential to agricultural progress, nd to the Minister. The Agricultural Departnent is manned on a large enough scale to get csults. Besides a deputy minister, there are two eterinarlans doing public heath work, a freighttural wenty thr , about wenty-three farmers institutes, and about the he Government so thaws, also receive ald from charge the Government with neglect of the procharge the Government with neglect of the pro-
fession of agriculture. What faults need remedying will be found to exist in the way that the resources furnished are applied. The Department could well afford to lop off the local shows, which are little more than a sort of charitable distribution of public funds, and of tolls levied on the ocal merchants.
irst following improvements are suggested , abolition of the strife existing between

THE FARMERS ADVOCATE.
the live-stock association and offcials, so that the progress of agriculture (which ranks above the dignity of officials or nssociations) will not be
hindered. Secondly, the abolition of all the local shows, the elforts of the Provincial Depart shows, for fermg caled on fewe country the Now Weste, one or ind ine upper (which two have already and and (which two have already demonstrated their right now existing. Courses in live-stock should be offered, as is now done in judging Manitoba and the N.-IV.T. We are plonselt note that the Royal Agricultural and Indust Society of New Westminster has seen the nial and will endeavor to meet the want next March (although refused aid by the Dominion Departurch of Agriculture). There is room and need for a week or more of such courses, to be given alse in the upper country and on Vancouver Island In addition, a first-class horticulturist should be sccured by the Provincial Department, one with both scientific and practical training, to give lectures and demonstrations in the horticultural branches, sucti as planting, grafting (not the political meaning), the handling of fungous diseases by spraying, etc. Sucli a man can be seared from the Agricultural College at Guelph. The Dominion Department of Agriculture could well afford to arrange for a fruit experiment stacon on a small scale in the Okanagan, the retively the differe are to the upper country, owing to the difference in climatic and soil conditions; and, premier fruit district B (the Okanagan is the ciples need to as obtain in commercial life. If mer or are able to demonstrate their usefulnoss and suit ability to the work set before them, is not let them go despite the old erin, ". There is (not always) strength in numbers!"'

Because heaven is in us
To bud and unfold
We are all the younger
know that Love never is wasted
Nor Truth, nor the breath of a prayer,
And the thought that goes forth as a blessing And the thought that goes forth as a blessing

## HORSES.

The Age at which Light Horses Should be Taught to Drive.
reat extent upon his manners, and his manners depend largely upon his education. The age at pinion. Some, apparently thive is a matter of not be handled any more than sufficient he should break him (and sometimes not even that) until he reaches adulthood, or, at least, three or four years old, and is ready to be fitted for the narket or go to work on the roads for his pres
ent owner. Under these conditions he is usuall put to work without any preliminary education or fitting; he is large and strong, has spent few years in idleness, and is unaccustomed to re self-willed and a consequence, he is more or les self-willed and stubborn, is hard to handle, and
the exertion of fighting for his rorming the functions of a road or carriage hor is much harder on him than it would be if he were prepared, both in training and muscular de velopment, for the labors required. It also re
quires more strength, tact and skill on the part of the driver to handle a green, full-grown horse than it does to handle a younger animal, and in the majority of cases a horse that has been hroken in this way does not make as reliable; safe been gradually educated when young. While has consider it very unwise to ask a colt to do much work until he is at least four years old, we think it advisable to teach him to drive while quite young. For racing purposes, where money is the olds may, in a manner, be justified, but when we wish to develop a sound, strong, mature animal he should not do much work of any kind under racing animals, we will observe that a colt that distinguishes himself on the turf as a one or two year old, seldom continues to attract notice as a mature horse. Excessive continued physical ex to weaken the constitution an of any breed tends ment, and while there are exceptions to this, the rule holds good in most cases.- At the same time the gentle exertion necessary to educate a colt to go well in harness has a tendency to increase rather than impair his growth and muscular do-
velopment, and at the gradually, rather than break hime educate him advocate the very early handling of a co especially one of the lighter breeds, whose future function will be to go in either light or heave harness. He should be taught to lead when a the more gentle handling he gets at this age the ndling he gets at this age the
better. It teaches him early to not fear man, to yield to restraint and do as he is asked, and in after years he
has no stubborn will to conquer. He should be taught to stand tied the first winter, and he should also get his first lessens in bit-
ting, or, in other words "giving him a mouth." This can be done with little time or trouble by putting a nice
light bridle with an ordinary light bridle with an ordinary
snaffle bit on him, and leavsnaffle bit on him, and leav-
ing it on for a few hours each day, until he ceakes fighting the bit. He may
also be taught to lead by the also be taught to lead by the
bit, and to stand tied by it instead of by the halter adrition. he should be taught to submit to having his feet handled and oared. The paring of his feet is, in most
cases, necessary for his comort and future usefulness, as well as for his education. When the time arrives in
the spring of his second year the spring of his second year, when he is turned out to
rasture, his education usually ceases until the following fall. As soon as he is taken to the stable for his second fall and winter his schooling
should be continued. He has now reached sufficient age and development to be taught to drive, but he should not be asked to go in harness without further preparation. He,
should be given a nice, large should be given a nice, large
box stall, or if the weather be not too cold and rough; a paddock. It is good practice now to use a dumb jock-
ey on him a few hours each
day, allowing him to wear it in the box or paddock, gradually shortening the check straps until we get his head as high as we wish. This teaches him his head in the desired position. A substitute for a jockey can be made with an ordinary surcingle, crupper and sidechecks. When he has had sufficient handling of this sort a set of harness Should be put on him and left on for a few hours
daily in stall or paddock until he becomes acdaily in stall or paddock until he becomes ac-
cystomed to it. He is, or should be, now ready to drive, but should be driven a few times in the hainess before he is hitched to a rig. He chould be taught the meaning of the words of obey; as few words as possible should be used. He should be taught to stand at the word "whoa," step backwards at the word "back,", go forward at a chirrup or the command "go on,"
lessen his gait at the word "steady," etc., etc. The same word should be used at all times The same word should be used at all times to
express a certain action. We often hear drivers use the same word to express different ideas; for instance, we hear a man say, "Whoa, back," when he simply wants his horse or team to slacken their gait, or say the same when he wants
them to stand, etc. This certainly has a tendency to confuse a colt. We should say "back" only when we wish the animal to step backwards; "whoa,", only when we wish him to stand, elc. In driving with the harness only, the lines
should pass through the shaft tugs, instead of through the terrets, as they then pass along sides, and the driver can prevent the colt turning, as he has leverage on his hins. After this has been done until the pupil has learned to obey the ecome frightened at obiects on the road street, he is ready to be hitched. It is wise hitch him to a two-wheeled rig at first, as if thould turn suddenly there is much less danger kicking strap (or, possibly, we should anti-kicking strap) for the first few times. most cases very little trouble is experienced the colt has had the foregoing education, and has been spent. When once we commence time drive, he should be driven a little every day until he becomes handy. While I prefer teaching a colt 0 go in single harness first, others think it wise rompt and reliable mate can be had it a steady, is as well. We usually find that when a colt is taught to go well in either harness there is little trouble with him in the other. During the summer of his third year we consider he should again be in pasture, and his training should be con-
tinued his third winter. When three years'old he inued his third winter. When three years old he
should be safe for any person to drive, and do a reasonable amount of work, but should not be expected to do hard and steady work of any kind intil at least four years old, and we find that, with few exceptions, horses that are useful at a
very old age have not done much work until five or six years old. It certainly pays when practicabl
tured.

The Care of Unshod Hoofs
The United States Department of Agriculture has done a good work in issuing Farmers' Bulletin No. 179, which treats of horseshoeing, a only by the farmer but also by many of those who undertake the work of shoeing horses. In fact,
there are some shoers who have done this work all their lives, and yet there are many things in regard
mastered
In speaking of the care of unshod hoofs, the bulletin says: "The colt should have abundant wear gradually, and it will only be necessary from time to time to regulate an uneven wear with the rasp and to round off the sharp edges about the
toe to prevent the breaking away of the wall." ". Colts in the stable cannot wear down their hoors, so that every four to six weeks they should
Le rasped down and the lower edge of the wall well rounded to prevent chipping. The soles and clefts of the frogs should be picked out every few
days, and the entire hoof washed clean. Plenty of clean straw should be provided. Hoofs that are becoming awry should have the wall streng ened in such a manner as to straighten the foot
axis. This will ultimately produce a good
hoof, and will improve the position of the limb."

Monument for Prof. Nocard.

...... annual meeting of the Ontario Veter-<br>sity

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## Healthy Stables.

One phase of stock-raising that is claimin rore than the usual amount of attention at stables, and the effect upon stock of continued onfinement in comfortable or warm quarters. is not a fancied condition-the general hardines f stock much accustomed to outdoor life, but at actual fact that confronts all thoughtful breeders it would seem that in our anxiety to make con ditions as favorable as possible to the develop-
ment of the best types we had overstepped the ment of the best types we had overstepped the the idea of making them comiortable to tio: s more injurious to their health than the dinary temperature would impose.
There is a tendency operating in all animal life fortify 1 self against adverse conditions, and his tendency is developed by gradually subjecting tion would appear severe, but which, with gradhal and continued use, are endured without any ill effects. Writing on this subject in the Live stock Journal Almanac, Sir Walter Gilbey says
Though originally the inhabitant of climate, the horse can endure without danger, ven discomfort, a much lower temperature than is generally supposed. In this country, given
extended pasturage and water, he requires little extended pasturage and water, he requires little perhaps, being an open lean-to shed or hove wherein he may find shelter in tempestuous and stormy weather, or during the heat of summe find refuge from the annovance of flies.
It is interesting to observe the behavior
erected. They will seldom seek its protection cold weather, even when snow falls and there
frost on the ground. This indifference to cold significant, indicating, as it does, that what There can be little doubt that the
cause of most diseases to which the horse is subject is confinement in close and ill-ventilated sta hiles: the effluvia arising from excretions in ill entilated stables are harmful to his lungs an The ho
Wrik exacted from him, is peculiarly exposed to the dangers of bad air: coming into his stable after the day'c work, he suddenly exchanges the close sometimes artificially heated, building. ir acts as a stimulus. bracing up strength an Cigor. We all know the exhilarating effect clear and frosty air upon ourselves, when in, win
ter we come out of doors. Fqually we kno from experience the drowsy sensation produced h this drowsiness is produced by breathing a viti ated atmosphere
is The supreme importance of ample ventilation though, as already said, the subject has receive much more attention of recent vears. Stables have almost always been, and still are, buil
less with an eye to practical advantages than less with an eye to practical advantages than
with regard for appearances. Only too frequently the horse owner who contemplates erection o a range of stabling devotes by far the greate architectural design and external appearance.
than to the guestions of ventilation and light. Which are of the first importance in securing th When we consider how large a proportion of his existence the race horse, carriage or saddle horse spends in his loose box or stall, the vital impor
tance of ventilation becomes apparent to tance of ventilation becomes apparent to us. With
the large majority of such horses it is prohahl within the mark to saych horses it is prohably year round, the animals pass fully three-fourths of their lives indoors.
Wint Whan the erection of stabling is contemranging details of construction is to provide ariree circulation of air. The aspect of the stables is almost equally important. "Sun is life,"
The horse in confinement revels in the brightness of the carly morning sun, and his love for it castern aspect for his stable. a south or south huilt stahles during the earlier and middle do andes of the nineteenth century that a stable
chould he dark. It was supposed by some that
th. licht from a window in front tied licht from a wis whow in front of the horse for which reason windows on the manger side of made small and placed high up in eing small and not convenient to left closed, thus blocking
ingress of fresh air and light in the stable was
smpposition that light hring that foul litte Which that foul lift

Stallion Lien Act.
In your issue of the 14th inst. I notice the article Stallioner's Lien Act," every word of which, after over Chirty years' experience, I most heartly endorse. But the writer does not, in my opinion, go rar enough. When horse hills that, on a certnin it a condition in my horse hills that, on a certnin day, all my patrons patronized my horse, date of which they wero notified by mail. This saved me a great deal of trouble in collecting. They all knew where to find me, and thes whose mares were not in fonl were sure to bring them while those whose mares were in fonl usually paid the , or, if that was not weonvin, fook their note est : but if they neglected to liring their mares, and I had to make a specinl trip, I charged two dollars extra for every special trip made for collecting. Wit loss of time, as they all either came or sent a proxy. In the stallion business, all is not gold that glitter I will relate one case, out of many, which affected me
personally. A party sent two mares one year to my horse. At the end of the scason 1 was under the firm for inspection neither of them were looking like bein in foal. He said to me, when i made the remark that I expected both of them would have proved to be in
foal. © Oh, there is not a foal in their skins, to that I can take my oath." I thought it was strange for man to be willing to take his oath. It set me thinking, and I began to make enquirifes about it the nex season, for the horse was on the same route, and
found that cach mare had picked fonl during the winter the bill in full. Your correspondent does not sny anything as to One man parted with his mare. and wanted me her, but I made him come to time, because he wa I was to take money and was lietter nble to pay than it might act were passed making a licn on the mare. rouble to find out the truth, and niso to locate the mare. My experience in the stallon business clearl right to "do " the horse owner, if possible, no matter how. I do hope that your correspondent may be abl risk of importing or purchasing a good horse for the benefit of his country as well ns himself. Horse
breeder should also include in the proposed lien a clause requiring a license on all male animal, charging a service fee. 1 remember having a very fine
imported Shire horse travelling about one hundred miles from home, and when accosted as to onmount of service fee, I told the party twelve dollars "Oh." said he
"what nonsense: twelve dollars. Why, I can get what nonsense: twelve dollars. Why, I can get the use of such a man's horse, and insure a foal. for Wo bushel and a half of oats.
Now, how do you think any man having enterprise enough to bring out from Fngland a good horse could common in some parts of Canada, 11 am sorry to say. Then, wo should also raise the duty on American horsemen of this country a very great deal of injury.

## Watering Animals

There should be a prescribed system for the regular watering of all animals on the farm. The
belief is more common than it should be that ater at long intervals is not only sufficient, but that it is the best way of treating cattle. Of course, this is a mistake, and one that ought to e apparent to all who give the matter any hought. In the first place, a thirsty state is an rom motives of humanity it should be relidun $t$ is a condition directly opposed to good digestion. When thirst is allayed only when it has rrived at a stage of acute suffering, an overdose o. the digestive organs as the thirsty condition which it supercedes. Cettle should when dry feed, get water.

Wind-shield Records in a Separate Class.
The officials of the three light-harness associations which control the sport in America, at a
recent meeting decided that the so-called ... windshield "records which were made last year by nd I'rince Alert on numerous occasions, and over Which there has been much agitation, shall be
placed in a class separate from the regulation fotting and pacing recolds which are on file as ondicial marks. This action leaves Maud S. the record to high whoeled trolters, inasmuch as her

## STOCK

## Our Scottish Letter

n the new year in Canada: it is still bestowed winter festival in Scotland: it is still the great and settled down to work again, the first thing
that attracts attention is the report on the col cass results of the Smithfield champions. For many years the Live-stock Journal (London) has
laboriously collected information from the butchers who have killed the champions and pub lished these. The information is useful, and edu
cative to a degree. The champion of 1903 cross-bred heifer, Miss Charles, was mercilessly cross-bred heifer, Miss charles, was mercilessly
very poor by some outside critics, but they cut a
vice now that the carcass results are very poor figure now that the carcass results are
announced. Her buyer says he never cut up a show heifer like her. She was up to a great
weight, being the heaviest animall in the show,
and was a line model of $u$, and was a line model of a beef animal. Her sire,
Count Alatic, was a Duthie-bred Shorthorn; her ditm was a pure-bred A.-A. cow. She killed
68.99 per cent. carcass to live weight. Her 68.99 per cent. carcass to live weight. Her
average daily gain in welght from birth was 2.01
lhs. Her butcher gives her the high praise being full of lean flesh, and the best 100 -st. heifer he ever saw, as far as that is concerned. The John Cridlan's A.-A. steer, Twin Ben, and it is
interesting to see how he age daily gain was 1.80 lbs.; his percentage carcass to live weight, 68.58 , and his butcher says
he was a very well-fleshed animal. Exactly the King's champion Hereford. His average daily gain was 1.73 lbs., and his butcher says he cut
up well. One of the best animals shown was the Inverness and Edinburgh champion, "The Baron." cross as but in the opposite way irom the champion Miss Charles. He was got by an A.-A.
bull, from a pure-bred Shorthorn cow. His average, daily a pain was 2.11 lbs., and he dressed 68.53 per cent. dead to gross live weight. His not an atom of waste fat in his body. Certainly lest killing animal reported on was a Highland ross live weight-certainly an extraordinary re-
ult. His average daily gain was 14.1 he killed full of lean meat, the weight of fore and ers generally get splendid certiticates from the "Best-fleshed bullock," " "Fplendid bory of brime flesh f," o coarse meat "; such are some of the tributes o this great race. The ripentng is, however,
low. The average daily gains of the Highlan 1 ers reported on are as follows: 1.34 lbs., 1.33
liss., $0.95 \mathrm{lb} ., 1.36 \mathrm{lbs},{ }^{2} 1.44 \mathrm{lbs} ., 1.17 \mathrm{lbs}$. The ox with the aserage daily increase under one
pound is describel as a grand body of beef, full f prime meat and no waste. He was, however, years 7 months 10 days old, so that it must
ave cost a deal to make him what he was.
nly one Galloway is reported on-the Edinhurgh nampion. His flesh was well-marbled, but the carcas was altogether too fat. The average daily
gain was 1.60 lbs., and the percentage of carcass He are having open weather now, after about
fort night of fiost. Generally, the weather
serms disinclined to freeze hard. curling was in to freeze hard. Some but, as a rule, the ice
lached keenness, and a good curling day ally followed by a day when the ice had to be
left alone: 1903 , by all e.t rainfall of any year in our time. It is doubtany year of the nineteenth century. One consola-
tory reflection in connection with. rainfall tables of the nineteenth century is that heasons. The years of last century reporting the heatest rainfall were almost invariably followed
hy years in which the rainfall was slight. We
are, therefore At the close of the first week in January we
hegin to be within measuralle distance of the
Spring Horse Shows and Bull Sale is always a crowded month, and a great deal of
work has to be compressed into The Scottish Stallion Show at Glasgow takes
place in the first week of the month, and promises to be an interesting event. Good horses
are fairly numerous, and 1903 was a splendid export year-over 400 horses having teen sold. Canaloout $£ 40,000$, or $\$ 200,000$. Perhaps $£ 100$ is low. This week a small but very valuable ship-
ment has been made to Australin an Ayrshire gentleman, named Mr. The buyer is
has made a fortune out there. He placed his Craigie Mains, Kilmarnock, who selected high-
class mares in foal to the leading horses. Mr.
(iibson in this way hopes to import two animals (iibson in this way hopes to import two animals
for every one actually shipped. May good suc-
cess attend him. Canada has been our best cus tomer, and it is earnestly hoped that those who have taken out and bought the horses may have
good luck with them. good luck with them.
ers in Canada than at understood among farmrapidly progressing. The official organ of the Government recognizes the importance of the movement, and those in authority have been at all quarters. The Dane is full information from in production, but the principle is being applied in many other ways. One of its most useful examples is seen in the matter of insurance interesting company exists in Ayrshire, menbers as suffer loss through fir
pany is founded absolutely on the mutual prin ciple, and very good results have been obtained through its operations. Much is being done to
develop Irish dairy farming on Danish lines, and Canadians have undoubtedly keen competition to face in that quarter.
Several landlords
ent, on account of the unprecedg abatements of case of one estate, the whole half-year. cases one-half the in others abatements have been inade. It seems probable that the British farmer will surmount he difficulties of even the abnormal season, 1903 .

## Lord Polworth on Selection and Mating.

Dear Sir,-I read with much interest the article on Mertoun stock in the issue of October 15th, and a more recent reference. I hope I appreciate fair criticism as much as praise. I think, how ever, it is only right to correct an impression which prevails, and is much exaggerated. I refer to in-and-in-breeding. It is true that in all my atock breeding 1 pursue a definite aim, and prothe type or ideal which commends itself to my


Pride of Mertoun.
 judgment. I endeavor to mould my stock ac-
cordingly, and to perpetuate the character by line
breeding, but I rarely resort to close in-and-inbreeding. I recognize its value in certain cases but not beyond a certain point. I have also observed that just as bad results may flow from interweaving the systems of two animals in remote in blood relationship, however distinct in type and character. So on the other hand, the careful mating of animals more or less related in blood, and mutually replete with ancestral good vigor of system, will produce in the highes an gree admirable results. Even here, however, wise breeder will, more or less, differentiate so as to maintain the fertility and breeding qualities of his stock. To do this without destroying type is one of the difficult problems ever requiring Mr. A. Cruickshank has been the most striking his herd, used a number of different bulls with more or less success until in the bull Champion judgment. Then, as is so well described on pages 637 and 638 of Mr. Sanders' book (Shorthor Cattle), he permeated his herd directly and indirectly with his blood. He could not have done when I knew his herd when that famous and at the head of it, his herd was decidedly of a
uniform distinct type. That type was admirably
adapled for the country and the puriuse and My reference to this, however, here, is to indicat variety breed on such a system Squin a certain toun herd being all inbred, there are 25 differe families, or sub-families, so that even when comsparatively few buils are in use there is little of fact. I am at present breeding As a matte of a family I have hardly ever used in the herd viz., the Townley Butterfly, and another from the family which produced the sire Rapid Rhone the progenitor of my best show cows, about thirt apprehension as whis think, correct the mis pursued in my herd. At the same time, I have never known any stock prove really prepotent fo good which was not bred on definite lines equally apply, only the larger number of femalo renders differentiation easier. Reference is made thuse repurchase of sires sold. No doubt I have thus got a certain distinctiveness now and then young sires as appear to the in fleckion of such adapted for the want of the time. No doubt this means keeping back some of the best, and thus reducing the top put into the market. However, even this year, I did not hesitate to retain In stock breeding, as in other things, one ha to study fashion, no doubt, but to be led by it is apt in the end to prove disastrous. Moreover, while the production of sires is generally the main tention to the female side too, because more at such are wanted than males, and because the foundation of fock or herd is in the females. No doubt a good sire is half a herd, but the best As it was years he best dam lead in fashion, especially through the take the shows, but if Amo Cruickshank had not followe the bent of his own good judgment alone, the I may not have the same type not have existed I neither despise his type nor any other. Happily, in stock breeding, there is not only room for variety, but great benefit to be derived from The amalgamation of different strains when cross is just as disastrous. I have tried wrong few in the herd, and discarded most, even when the sires were grand looking animals and prize Royal and Highland. The best out-cross It the had was Sir Arthur Irwin, and, strange to ever was result of mating him with some grand cows of kin to him, the result was Truth, ane champion
ime have, however; trespassed too far on your time, and only beg you will make such use of these notes as you see fit. Permit me, however, C'anadian or American breeders yourself, and any have a look at my stock, and io miay care to selves. I only wish a bull such as Royal Commander, brought over from Canada by Hugh
Aylmer, might come to rejuvenate the old blood Aylmer, might come to rejuvenate the old blood
by the rigor of a new country and climate.
Yours faithfully, -

POLWORTH:
[Note.-Mr. John Graham, Carberry, Man., visit to the estate of Lord Polworth, Mertoun, t. Boswells, Scotland, and favored the "Advocate" readers with a description of the Mertoun this historic spot in the Old Land, in Oct with issue. Lord Polworth, whom we are pleased 15th have as a constant reader of the "Farmer's Adfuller e, has written the foregoing letter as a breeding.-Editor.]

## A Breeders' Organization.

## A new organization, called the American Breeders'

 and 30 th, 1903. It includes both animal breeders 29 th flant breeders, also scientists who are interested in the study of heredity in plants and animals. Hon. James Wilson, Secretary of Agriculture, was made President, and Wm. Hays, Minnesota Agricultural. College, Secreary. purpose of the new association is "to study the laws of breeding, and to promote the improvement of plants and animals by the development of expert methods of breeding." This organization had ts origin in the American Association of Agricultural hulleges and Experiment Stations, which held their anhual convention on the above datos. A full report ofthe convention, which includes addresses by many of the most advanced thinkers in the U.S.S. and Canade may be had by becoming a member of the Association.
J. D. Funk, Bloomington, Inl., is secretary of the mamJ. D. Funk, Bloomington, Im., is secretary of the memhership committee. Hon. John Dryden,

The Sheep Industry in Ontario. To the Editor "Farmer's Advocate":
Siri,--During the past six months the public and pross have apparently beent taking stock o
the livestock industries common in our Province the livestock industries common in our Province. The questions of profit and cost of labor hav
been studied as never before. The latter con bean studied as never before. The latter con-
sideration, always an important factor on the farn, is receiving more attention, and bulks larger and larger in the accounts as the years ar passing by Lines of industries, profitable wii
helpavailable, have been abandoned, as oiten th help a available, have been abandoned, as oiten the
assistance necassary could not be got at values and of the quality to furnish a living margin of profit. Hence, we see and hear and read of many carefully spying out the land, endeavoring to find reliof, and something in the way of a change of operations which will lessen the burden and make
life more enjoyable. $\mathrm{To}_{\mathrm{ol}}$ me it seems an open and a most inviting line of breeding, and work is right at hand in the business, which according to statistics and many reports has been neglected and in recent years discarded by hundreds thro
out our land, and that is the sheep industry. out our land, and that ine of livestock raising can be carried on cessfully with so little labor ; no kind of stock can be grown and matured, at so low a cos
kind of stock in Ontario has had so little tion given it in fitting for the market: and no tion given it in fitting for the market; and no
other stock can, in my humble opinion, show as satisfactory a balance sheet at the end of the year, nor is there another kind of animal w yaise to which we are so deeply and so univer-
raily
sally indebted for conforts sally indebted for con.
gentue, innocent sheep.
Many and various are the reasons offered why sheep are decreasing in numbers. Dogs are one bugbeur, but what of rats and weasels, skunks and foxes, and scores of mites and diseases
which poultry are subject, and yet do we hear which poultry are subject, and yet do we hear
that blocking the almost marvellous growth our chicken industry
Fencing is another bugaboo. What nonsense, when of all our domestic animals sheep are the easiest to house and to keep under control in
lield or in winter quarters. Just notice the slipshod treatment given the lamb crop year after year on the majority of farms, if we want to
learn where the fault. lies. Lambs with long tails, uncastrated, run marke birs, and at a time of year when prices are at the lowest
notch, just the same as was formerly done with the hogs.
Were lambs given such care and attention as the bacon hog gets of late years, and a similar
proparation for the ever-ready market, no longer proparation for the ever-ready market, no longer
would paltry excuses lead to the neglecting oi the sheep business. Nowhere in the wide world are diseases and other serious troubles among sheep so little known as in our province. Had we
half the ills to contend with that the British half the ills to contend with that the British
shepherds have, there would be some sense in the abandonment of a very profitable !ine on the farm. And over the sea do we find the sheepraisers drop out, because of the serious dificulties, unknown to us, they meet with, and also all those which trouble us, such as dogs and fencing,
th.? Not by any means. They do not so readily follow a bad example, falling in line with a cry of this or that, which, by being repeated over and over and printed here and there, has in a manner
become fashionable and the exil shadow which become fashionable, and the evil shadow, which
hus so little to harm or hinder us becomes thereby to the unthinking a terrible bugbear.
For many vears back I have heard comparisons made as to the cost and probable protits in fat-
tening lambls and catule, the difference of a dollar always in favor of lambs; and leading markets more for lambs than good quality cattl
 Having had some experience for many years in growing and feeding both kinds, and recently
having been called on to talk along these lines, I havestigated carefully the results obtained hy others and myself. The outcome of my calculla-
tions have been so far bevond the orinions helld. tions have been so far beyond the opinions heltt
that if oorrect, it would not seem right to hee them hidden. If, on the other hand, my recko
ing is astray, it is my wish that it should ing is astray, it is my wish that it should
corrected. In order to make the comparisons clear as possible, the cost of adding 300
to the bullock, and a similar amount to quired number of lambs, in given times mared, and the proits each as wel Bullec - mounds, cost 3icc. live weight $\$ 35$ Fed 1
Fed no
$\$ 3.60$;

## IHE FARMERS ADVOCATE

Sold at sc., live weight, weighing 1,300
fattening one hundreid lambs for file 100 lambs at 75 libs . each, bought at $4 \mathrm{c} \ldots . . . . . . . \$ 30 \mathrm{n} .00$ Fed on rape and grass for a month at cost of... 31 (1) Fed 120 days indoors, ns follows:

5 lus. tarnips each daily, 1,000 bu. at 6 c .
1 lb. clover hay each datily, 6 tons at $\$ 6.00$.
1h. clover hay each daily, 6 tons at $\$ 6.00$
1 1b. unthreshed peas each daily, 200 bu.

## Total $\quad \frac{120.00}{\$ 550.00}$

Sold at 5 kc . per 1 b ., live weight, averaging 120 ths. each=12,000 lbs.

Showing a profit
$\qquad$
comparison of cost, gain and profits steer during 6 months eats $\$ 27.90$ worth, to mak steer during 6 months eats $\$ 20$ pornds gain, or $\$ 9.30$ per 160 pounds.
300
6 2-3 lambs during 5 months eat $\$ 16.67$ worth, to make
300 pounds gain, or $\$ 5.56$ per 100 pounds.
steer costs daily 15 tc. making a gain oi
1 steer costs daily 15 tc.,. making a gain of $12-3 \mathrm{lhs}$
$62-3$ lambs cost daily 14 c ., making a gain of 2 lus $62-3$ lambs cost daily 14 c., making a gain
1 steer gives $\$ 2.10$ profit in 6 months=to 12 per annum on $\$ 35$ invested:
$62-3$ lambs give $\$ 7.33$ profit in 5
cent. per annum on $\$ 20$ invested
In the taken to having the lambs on the fields for month, while steers were housed when purchased It would make a difference of 16 cents less profi on each lamb, supposing the gain to be equal ou and inside, but that is not probable, as the grain and root feedzng
If my deductions are correct, they will justify my claiming that in the meat-making business the lamb used as the machine is, and has been for the past ten years, the most profitable line of meat production on the ontario farm. If threshing out of the facts, that we may learn little more of the ins and outs of our labors we are no longer grain-sellets. Animal hussight likely to provide us with the comforts we have a right to expect in tilling the land. But
we must in the future give more thought as in dividuals to what is the proper course for us each one to follow, and not be misled by unwise and
misleading statements, which, even if false, pasa misleading statements, which, even if false, pass
for currency by continuous repetition. Each year brings new problems for us to deal with. Prog ress is the prevailing watchword, and nowhere is
it more required than in life on the farm it more required than in life on the farm, gowas to keep abreast of the times. JOHN CAMPBELL.

## Beef Cattle from Dairy Cows.

 edge, we in this day of advanced liyestock know to the possibility of producing young stoct beef from cows of the distinctively dairy breeds In the dairy sections of the country, where the present scarcity of labor is most acutely felt, and people are turning about for some line of productempt is being made to raise young stock for beerf rroduction, either the offspring of dairy cows anddairy or scrub bulls, or of dairy cows and heel bulls, which are brought in for the purpose ol stitute lecturers in many parts of the country al
 no produce " calt that can be protitaliy turne.t
into heef? "That it is impossible to combine an
distinctively dairy business, based on the ilsin dairy breeds, with the produased of the we seemis
to bee a thing that has not yet dawned on a con-
siderate siderable portion of our people. Is a consp-
quence. numbers of ill-ied and ini-bred callees are
ransed to wats whd, which are a source of loss in evemome
that has ansthing to do with them.
 lelonsing to breeds that have heen bud tur mans Comont in the nature of things, he the mother of of a
will
miserable, ill-shapen, undersizet young stock forme in many dairy districts, ill-bred, ill-fed and roftable from start to finish.
parison thetween dairying and beof-raising any possible place in our agriculture, and it is imfossible to say which is the most protitalit hreeds which are best suited to its purposes, and
the characteristics of the animal suited to the We characteristics of the the dal strited to the those suited to the other. Under these circumb stances, 11 e folly of attempting to raise liee cattle from dairy cows at once becomes apparent
As a matter of fact, very few, if any, of the men who buy stockers care to touch any that show even a trace of the blood of the distinctively dany
breeds, and such animals are alwass disposed o at a disadvantage. We do not think it wise for those who are engaged in a darry business, and who have herds of Ayrsires, or beof, or to purcrase bulls of the beef breads can be used for beffproduction.
There is, however, such a thing as a dualpurpose cow, but she is found in only one breed-
the Shorthorn. This breed has been developed along the two lines of beef and milh production along the two lines of beef and milh production,
and the two strains have been largely intermixed. Hence, it is prossible to get cows of this breed that will give fair returns in mulk, and, at the
same time, produce a good beef calf, and, as a same time, produce a good beef calf, and, as a
matter of fact, the great majority of the best tockers are t':e uftspring of such cows. The e cows, however, do not, as a rule, give as
large returns in milk as the distinctively dairy breeds, and the man who would raise cattle for
beef must be content with a smaller return in beef must be content with a smaller return in
milk. In conclusion, we would strongly advise those who are engaged in the dairy business, and use the dairy breeds, to make no attempt to raise soung cattle for heef. Ary for that it is newsary faise beef cattle, owing perhaps to exceptional circumstances, they must discard altogether their dairy breeds purchase a herd of grade Shorthorns, and be content with a somewhat smaller return in milk. 1).

## FARM.

## Organizing a Beef Ring

$\qquad$ may be done by ammouncing a meeting for that purpose by poster or otherwise. When the requisite memverson who is competent to kill and dress an animal is secured to do this wolk. This person must also cut up the beef, and keep account of the amount each mem-laughter-house convenient to the butcher, and allows him a fee of two dollars for each animal slaughtered.年 Oinspection by two members of the ring appointed at animal is derieting of the ring for that purpose. The
is hillect and dressell in the catcher ty the owner, and the dispmation of the hide, heart, liver, etc., are deails that can be arranged between the ring and its

Age and Germination of Seeds.
Aumford of the University of Mi-somri, who has been experimenting with the hi beans, las and c.anots are good ior two years; Crablace amd turni, for tite years, and of beets, ai conise, sieds hilt ior so long a time should With wheat. batley onts or corn the aim shomld we to sow swed ont or corn the arrevious year's
growth tather than to sow wher seed. The loss
$\qquad$

More Welcome Than Ever.

## JANUARY 28, 1904

## Concerning Soil Moisture

pendent on climatic changes ; yet it is a matter subject to natural laws, upon which intelligent action can be brought to bear to the advantage the tiller of the soil.
Every farmer is aware of the use of cultiva-
tion in conserving soil moisture. The reasons why cultivation does so however, are too often fall is, atter the enects of winter frost and fall und spring weathering, in a state highly suscep-
tiblo to the effects of capillary attraction, und if left too long without being handled by some culplant food would evaporate, and the farmer would be at the mercy of the spring rainfall. the
amount of his crop being almost wholly dependent amount of his crop being almost wholly dependent
apon what amount of early rain such a field upon what alrount or earily attraction is the natural level than the fluid into which the lower end of such a tube is placed. To demonstrate the law
of capillary attraction, tubes of different diameter may be placed vertically with a small diart of Mhay be placed vertically with a small rart of found that the water will rise in each cube con-
siderally aloove the level of the surface of water siderably above the level of the surface of water
in which it is placed. It will also be found that the water rises higher in the tubes of sualler.
diameter, and that the height to which it rises in in uniform proportion to the diameter of the tubes. The soil and also the subsoil is a series of tubes upon which capillary attraction is always
acting, and the smaller the particles of soiv the acting, and the smaller the particles of soil the
smaller will be the tubes into which it will form It is also the case that in soil so pulverized that these capillary cells are very sinall and close together moisture is more uniformly brought from the subsoil to the surface. Evaporation is the
great dissipator of moisture, great dissipator of moisture, and its action can
be best counteracted by the presence in the soil of a large proportion of humus. Humus is the product of decaying vegetation chemicaly acted upon by the organisuss in the soil, and by
weathering. It is the soil constituent weathering. It is the soil constituent most
amenable to cultivation, and the one containing most soil moisture available for crop production No hard-and-fast rule for moisture-conserving can be laid down to cover any extended area. Local
conditions have a great deal to do in the matter to the conserving of noisture than loam or sandy soils. Soil in which sand largely predominates is so susceptible to the effects of capillary at traction and evaporation that it would seem au
inupracticable mutter to impracticable matter to materially diminish the
condition. Loam, however, is more retentive moisture and the higher the percentage of humus it contains the greater in proportion will its re tentive powers be.
molstureconserving
agent, is the greatest known t.2tes a high percentage in the soil, moisture is The reason of this is that humus, because of it peculiar sponge-like character, is enabled to hold moisture in larger quantities than any of the
ordinary clays, sands or loams and ordinary clays, sands or loams, and when this
retentive power is assisted by the formation of a mulch or dust blanket which interrupts the rise
of moisure to the surface the water content of of moisture to the surface
the soil is at a maximum.
wortionately less influence, and in light sandy soit it is almost impossible to make a mulch on soil surface; hence, it is that rarely do we find a
heavy crop on soil which is constituted chielly of heavy crop on soil which is constituted chiefly of
sand. Although such soils may contain all necessary plant food in sufficient quantity, it is only the soil supplied with moisture that the crop re ceives the full benefit of the plant food, for all llants feed through very minute root hairs, and must be in a state of golution. will absom, and such soils have also a far more retentive power in regard to moisture.
All soils, however, can be improved by the adition of humus for several reasons. Farmyard thanure is the most general way of enriching the
soil by the addition of humus. Plowing down
heavy stubble is also a plan to the saine end it heavy stubble is also a plan to the same end. It
may be, however, $a$ plan which will defeat its object unless the stubble be turned down and com-
pletely covered over, and packed so as to no subterranean apertures to foster weeds in wet weather, and add to the evils of evaporation in
dry weather. ${ }^{1} \mathrm{ry}$ weather
Packing the soil is a good way of preserving
moisture, but on the other hand it leaves smooth and even surface on which both capillary atcraction and evaporation act with greater in-
lensity. Some farmers counteract that effect by cultivating with a light harrow after rolling. An
 treatment, and the theatment must also vary
vith the climate, so that the matter is one for

THE FARMERS ADVOCATE.
the study of every farmer, each approaching th
case from the conditions prevailing in his prize House Plans.


GROUND FLOOR PLAN
The accompanying plans of a farmhouse were designed by won first prize, in the Massey-Harris compentition Toronto Exhibition, 1903.


## FIRST FLOOR PLAN

## Rattle of the Harvester

Those who are curious enough to verify the if they have access to a good compendium of the world's products, or a cyclopedia. By doing so
they will learn that this old world of ours is engaged in one continuous wheat harvest. If one could sit in some central station, with telephone connections with every section of the world, there wourd be a strenuous and continuous rattle of
the harvester from January 1st to December 31st, during every hour of hel twenty-four of each day,
This is not only This is not only novel, but, from many stand-
points, important.
For instance, with ent facilities for communicating with every har-
vest belt in the world, it would require but a
few weeks at the farthest to toad whent right from the thresher any month of the sar and get
it to any possible famine center that might de-
velog in any part of the world. eloparent that with the proper impulse of clearly there need never be a famine in any part of the
 these facts the magnitude of the wheat belt.-

## Temperature of the Soil

The variation in temperature in soils of differ-
texture is very noticeable in most soils. often happens in our prairie soil that for the first three inches during the first two weeks of seeding
the soil is below that temperature at which plants can grow, and anything which can be done by the farmer during that period to increase the warnth of the soil has a distinct advantage in
lustening plant liastening plant growth during the early spring. ountry is that the early crops are the men in this lring the best results. The warmth of the soil bears a close relationship to seed germination
and plant growth.
The experiments
which have been oarefully conducted at experimental stations heat, rye and oats gormina to show that while temperature of 77 degrees to 87 degrees $\mathrm{F}_{\text {., }}$ corn required about 98 degreess-of such is the diil-
ference in the amount ference in the amount of heat required by difler-
ent plants. For niost plants 41 degrees is the Iowest temperature at which the development of cissue will proceed, and 80 degrees the most favoravie. It will hence be seen that the earlier in
spring that the soil can be stirred and the spring that the soil can be stirred and the tem-
perature raised the sooner will plant perature raised the sooner will plant growth;be.
gin, and the earlier will harvest-time appear.

## Free Rural Mail Delivery Wanted.

## Sir,-I have been thinking for some tive

 writing you a short letter on "Rural free mail delivery." The "Advocate " has done good seryice in this, as well as in other matters pertaining hatier up agai matler up again a newspaper that the Postmaster-General did no think the country ready for rural free delivery. No a, ainst the presume to set my judgment up against taulock, but if he meant that as farmers did not want it he was mistaken ; if he meant that the Government was not prepared to meet the expense, he may have been right. Some time ago the Postmaster-General got the postagereduced froin three cents to two on letters of a certain weight, and we were told that the Post office Department paid better than it did before this reduction; then later he got the postage on letters between Canada and Great Britain reduced
from five to two cents, and the Deparitment paid better than ever.
It looks as though the rule of "Small profits and quick returns " worked well in this case, and
it the Post-office Department wished to make if the Post-office Department wished to make
money, all they would need to do would be to remuchey, all the would need to do would be to re
duce the still further. Now, I do not think the farmers of this country want the postage reduced; what they do want is a more effl-
cient service. cient service.
I am glad to know that farmers are looking
after their rights more now than they have ding arter their rights more now than they have done
in the past. I think it is hardly fair that the citizens of London, for example, with six the offices within the city limits, yet have their mail delivered twice daily, and people within two miles of the city limits have their mail delivered
three times a week at a country post-office and then have to travel two or three miles to get it. It is time for a change in this matter. Possilly welve as farniers, have been a iittle to blame ourselves in not having this remedied sooner. Governare making urgent demands upon them without running round hunting trouble. I would suggest that at every Farmers' Insti-
tute meeting this matter be brought up and reso-
lutions passed (and forwarded to the Postmasterlutions passed (and forwarded to the Postmaster-
(ieneral) in its favor, as was done at Dorchester on January 13th, at' a meeting of the East Mid-
dlesex Institute dlesex Institute.
In all probability we will have a Dominion election during the present year, and $I$ would ad-
vise farmers all over the country to party conventions and talk this matter up : impress the fact upon the candidates that if; they don't push this thing we will get others who will, and as zoon as the Governinent finds that farmers are aroused on this question I think they will
ind a way to overcome the financial diffculty There is no doubt in my mind but that large increase in the amount of mail handied would very soon meet the added expense. Newspapers all over the Dominion should press this
natter on the attention of their reader matter on the attention of their readers, as it
would benefit the newspaper almost as much as
the rarmer, because people would take mor reniently. "Farmer's Advocite", to sce that not only the daily newspapers have taken this matter up, and are giving their readers a good deal of informa in the past, you ior your efforts in this matter in the past, and wishing you greater success in the future.

## Material for Stable Walls

Mr. R. C. Clute, K. C., Yori Co., Ont., writes us
-. Mr. Peer's book on stable construction, pages 104 and 103, says: The best possible construction of a barn in attain this end (that is warm in winter and coo the outer and inside coverings.' Then again. 'I have had much experience with stone- and brick-wall base ments, and would on no account recommend them for
any kind of stock. They are, as a rule, damp, chilly and unwholesome, if not unhealthy, for a great portion of the year. I am so prejudiced against them, com-
pared with double-air-spaced wooden barns, that I pared with double-air-spaced wooden barns, that would not have one put in a barn of mine if it could
be done without cost.' What is your opinion of this Cement, I presume, is much like stone in regard to dampness, etc. Is the opinion of this writer now ad mitted to be correct? I am aware of the immens number of cement basement barns, but in, as he states, the better. I am about building a barn for cattle and horses, and do not wish to make a mistake in this re gard." Ans. -There is no doubt, all other things being equal, such a wall as recommended in Mr. Peer's book but the drier thatn a stone, brick or concrete wall either of the last named materials can be overcome Mr. Peer's experience was probably with stone walls as they were built some fifteen or twenty years ago. which to build the barn, and to make the wall and all
of the stable as air-tight as possible. Very of the stable as air-tight as possible. Very
often, too,' the site was naturaliy damp, and no care exarcised in its selection or drainage. In such a stable
dampness would be inevitable, and would be but an dampness would be inevitable, and would be but an lation. Proper ventilation and dryness are difficult to obtain in a bank stable, but in stables built on the level, as is now the common practice, such conditions
are comparatively easy to attain. We would have no are comparatively easy to attain. We would have no
hesitancy in advising our correspondent to use either cement or stone, on condition that ample provision be made for ventilation, that the basement be well above
ground, the site fairly dry, and that drainage be put in about the walls. If cement is used, the walls in about the walls. if cement fis used, The cement blocks, with air spaces inside, though more expensive, will probably insure a drier atmosphere inside, and
make a more attractive wall outside. Cement walls make a more attractive wall outside. Cement walls
have been so long and so thorougnily tested that their have been so long and. Being so much less expensive to build, as a rule, than stone, not requiring skilled artisans, they have superseded the latter almost altogether. They are the cheapest and most endurable
wall ever introduced in farm practice.

## Wheat Breeding in Canada

At the organization meeting of the American Plant and Animal Breeders' Association, held in Saunders, Ottawa, is credited with showing that Preston, Stanley and other wheats bred by him have been widely distributed throughout the en-
tire Dominion. The report goes on to say that tire Dominion. The report goes on to say that
Preston wheat has been tested as to its milling Preston wheat has been tested as to its milling and in Minneapolis, and found practically as good
and ine
as Red Fife. It is also said to be in the lead in as Red Fife. It is also said to be in the lead vield pe
Whether Dr. Saunders has been correctly $r$ ported in the abstract press report sent out by position to say, neither do we wish to detrac from the value of any good work which he may
be doing at Ottawa for this country. We believe doing breeding is, to the farmers of Canada one of the most important lines into which sclentific research is being extended to-day, and when an inveatigator can by selecting and crossing varieties produce a wheat that will yield eren one bushel per acre more than, and be of equal
quality to our best, he has added to the finan-
cial advancement of agriculture beyond estimate.

American Drovers and the Railroads. One of the most recent innovations in America railroad management is to charge stock deaters return
ing from Chicago and other markets full fare for their ing from Chicago and other markets full fare for their
passage. Previous to January 1st, the dealer who
used a passage. Previous to anuary 1st, the iealer wh-
used a car for shipping purposes was given a com-
plimentary ride to his original destination, and the plimentary ride to his original destination, and the action of the railway companies in inaugurating the
new ficy has aroused consideratle dissension among

Plan of a Convenient Barn.
In gour issuo of January 14ch, head ef te and six or eicht horses. It allowed no fedroom or machine-house, and all work of stable cleaning was to be done by hand
In the plan 1 am submitting for your inspec ion, I have taken the same sized barn, but whe he loose cattle are. It stables a few more cattl

few less horses, and leaves a machine and drive house $20 \times 28$; also, a feed-room $12 \times 15$, and all the work is horse work, as far as possible, and he barn is convenient throughout, as a
part of the plans are in present operation
A glimpse at the plan shows its convenience for a hundred or hundred and tifty acre farm, but might add a few suggestions.
The basement would be of
atter preferred) (th atter preferred), to a height above ground abo then frame or whatever desired. Underneath all drive doors would be a wide foundation, an ly sloped up with cement. If the level, and nic fioped up with cement. If the upper founda wo feet wide and one foot high, and the double widows twice the size, and all set well to the to

has.
$\qquad$

This door should be short and swing sereme nches above the floor,
The feed-hall opens to nearly all the silo feed ing catle. The loose stall will hold fifteen of sixteen two-year-old steers and twenty yearlings The cow stalls accommodate twelve cattle tied and all may be cleaned with a wagon, and taken a dump-cart and drawn to manure hea
The silo, as you see, is handy at feed entry and the chop-box is conveniently near, and th coots just across the manure passage
A very handy illustration of a chop-box is
given in your issue of the 14th inst., but on th top there should be a lid sloping to the manure passage, and the little cover at the back I would have two or three feet high, so no feed would roll
in while mixing. This box filled five feet will in while mixing. This box filled five feet wil hold a ton o
bags of chop.
bags of chop. The walls of the root-house should be snugly built, and the beauty of it is you can draw your roots in a gravel-box on your barn noor and dumi, root-house. In the feed-hall have spouts, coming from oat or grain bins above, come out near the partition
between horses, so as not to be inconvenient in between hors
feeding hay.
The doors about the horse stable (inside) are lieve horses are better in to the ceiling, as I be from cows.
Now for the main part of the building: In a barn of this size one should have two center post under a swing beall. Afler threshing, it would out for cut feed.
In filling the barn, if not crowded for room,
leave from center post out for straw, marked $B$, leave from cor The hay mow at the west end would hold
thirty loads of hay, leaving a space, $B, 17 \times 18$, for straw, but a load or two better be rolled in
here on the bottom. he is necessary to have a cement floor under
the large loose cattle, but the jearling calves do not necessarily need it. Have a cement floor in feed alleys, and clean daily. A gutter that is much admired hereabouts is a cement one, with
a drop of from six to ten inches behind the cows and gradually sioped ui) to manure passage, with about a two-ioot top. Some have the whole Massage on
Middlese

## The Prosperous West

The General Manager of the Canadian Bank of Commerce, in his address delivered at the annual hipeg manager who in considering the present position of the Western farmer, say
"He has within the past two or three years mproved his position by going into mixed farming. The cattle, horses, hogs, sheep, and all armer, have increased very rapidly in numbers on Testern farms, and as regards grade and breeding compare equally with any part of Canada, so that the Western farmer is not now so dependent upon a big grain crop as formerly, or as the maority of Eastern C'anadian people suppose. He has also been so newhat cured of the craze for more land, and is directing his attention more to improving what he already holds, in the way of better buildings for his live stock and more home .. The actual number of acres sold is less than last year, but, whereas last year large blocks
changed hands with little relaivive settlement there n, this year the sales are mainly fortlement therelement, while the prices ohtained are fifteen to twenty per cent. higher. Of course, what we
want is settlement, not speculation in wild land. The new settlers who came into the Northwest in 1902 numbered 72,800 . This year, estimating

## How Trees Breathe

Besides giving out oxygen in assimilation, trees also take in oxygen from the air through
their leaves, and through the minute openings in the bark, called lenticels, such as the oblong aised spots or marks on the young branches of
iirch and cherry and many other trees, says a
tudent of ree student of ree life. All plants, like animals,
breathe. and breathe: and plunis, like animals, breathe in oxygen and breathe out carbonic acid gas. This roress of respiration, or the breathing of the
ree, goes on both day and night, but it is far ree, gres on both day and night, but it is far
less active than assimilation, which takes place nly in the light. Consequently, more carbonic
cid gas is tiken into the tree than is given out

## OUNDED 186

swing senemy
chop－box st．，but on th
to the manur e back I woul five feet will

JANUARY 28， 190
THE FARMERS ADVOCATE

Milk and Honey
Realizing the benefit derived from a system of keep ing farm accounts，I would ask the pyivilege of pre－
senting to other farmers，through your columns，a form
of account that When that has pro account commenced a receipt and expenditure account．I also ot dignify it by calling it a system of farm book－
keeping，but it encroached so much upon my time that eeping，but it encroached so much upon my time that
dropped it，and retained the which is now over thirty years．I I would not prikent， resume upon the intelligence of the vast army like to ers of the＂Advocate＂to even suggest a system of hookkeeping suitable for the average farmer．I can， however，recommend the form of keeping accounts I
herewith present．The science of accounts is so intricate that any attempt to keepp them mind，
is oughly by one not acquainted with tho process only
results in confusion．Remember，I would not dis results in confusion．Remember，I would not dis－
courage any effort on the part－of anyone to try it，but I have observed that most business men，even in a
small way，leave this part the person employed to do of this work，though wholly to have time to do it themselves．
The inventory may，perhaps，require some explan
The inventory may，perhaps，require some explana－
tion．In making it，it would be best to divide it into sections，taking first，horses．Ne Nest to divide it into
horse，and set or nis number each horse，and set his value down in a or number each
purpose，and total that Follow the same process with the cattle．With the sheep and swine，the inventory may be taken in
＂lump．＂In taking the inventory，one should be care－ ful not to set too high a valuation on any animal implement，for，as will be seen，the proprietor is debited with the inventory at the beginning of the
year，and credited at the end，and if his books are to lie exact the inventorics must be correct．The same process of stocktaking should be gone through with in ht their cash value．The detail value of the stock and n a separate book or on certain latory，may be kept scount book．

## Name Number



$\qquad$

Etcer，etc．
Etc．
y1， 1904.
Binder
Seeder
Seeder
Etc．，
40.00

Total $-\$$
ames Jones in account with farm for the year ending
$\begin{array}{ll}\text { June } & 1-\mathrm{By} \text { inventory．．．．．．．．} \\ \text { June } & 1-\mathrm{T}_{0} \text { cash on hand } \\ \$ 959.00\end{array}$
of year．．．．．．．．．．．．．
received for
20 hogs， 3,700

$\begin{array}{lll}\text { By paid for } 20 \text { pigs } & 194.20 & \\ \text { at } \$ 2.00 \text { each } \ldots . & & 40.00\end{array}$
July $15-20$ hogs ．．．．．．．．．．．．．$\quad 114.20$
uly $30-\mathrm{To}$ sold co．．．．．
tons of hay in
$\$ 8.00$ her hay

Gug．10－my mikid during Juar

| held in haysing， |
| :---: |
| And so on to tho |

Mray $31-$ To $\begin{gathered}\text { ond of of the yeal）} \\ \text { inventory }\end{gathered}$
1，250．00
$\$ 1,670.20 \$ 1,22020$
any of our readers have a simple method of kee
outlined，or if anyone can sugne．t on tractical add
to this system，we should be ghad to place ou

## By G．A．Deadiman

In the last issue of the＂Advocate，＂we referred to the value of milk as a food．But what about honey，and why
associate these two at all ？ one is a necessary adjunct of the other，but they that any misfortune，that it has been stated that if， sweet，then drink plenty of partake too freely of the ing will soon disappear．of milk，and any nauseous feel－ of any such feeling to follow the eating of honey，be cause，when well ripened，and taken in reasonable from this，milk seldom make anyone sick．Apart arise from eating honey much beh the thirst that may Reforring an many of us are inclined to look latter，however，tod and not as something that will assist us to live and perform our daily work．We are too likely to forget food，and that no longer looked upon as valueless as nized as having a part to perfor，they are now recog－ ing and strengthening the body．Hestaining，warm－ that they should be used regularly，and that preference best be given to the sort that is found to be the
honey is superior from recent investigations that more easily digested，and can have no injurio as it is such as sometimes follows the use of sugar effect， digest it．In such acidity，the stomach being unable to Ingest it．In such a case，honey should be substituted． far as possible，instead of sugar or other sweets．


A pioneer Canadian farmer．
from Ireland in 1845．Born Dee．5ifd Dec．2，1803．
patients worthy of note that medical men allow their Shutt，M．A．，F．C．S．．Chemist is forbidden．Prof． Farm，Ottawa，says：S．，Chemist of the Experimental large measure，limits or regulates its value．It is not Che food we eat that does us good，but，rather，the ood we digest and assimilate，that is converted into When we take sugar or syrup in the moith and energy． the saliva，and converted into glucose，which解 already done in the case body．We have that work Aready done in the case of honey，so that it is im－ And Dr．J．H．Kellogg，of Battle Creek the system．＂ well－known authority on this subject，has this to say I consider honey much preferable to cane sugar as
food．It is，practically，a fruit sugar，and is read Oor absorption． $\begin{gathered}\text { Eaten in moderate quanar，and is ready } \\ \text { Eo tax }\end{gathered}$ it ought and is to be commended．．．．Honey is practicarl looked upon already digested．Long ago，honey was
 some that was found in the wood，and we read ho
it was a matter of sorrow that other
faint dare not faint dare not（because of the king＇s oath）partakere it，too．We know that John the Baptist came forth
from the wilderness strong told that his meat was＂locusts and wild honey＂， ＂Have ye here any meat？＂＂－gave Him＂a question， rolled fish and of an honeycomb．＂．From the frequent
mention made in Scripture of it was a common article of honey，we conclude that that manna tastecd like＂wafers made as we are told
may understand that it was used in＂．we
of honey is equal to two pounds of heefteak that as it may，it is now proven to be a food givi nourishment and relish，and so we need not reproach our
selves as being extran ing on this subject，a friend，well known When writ vocate，＂stated，＂I attribute my abounding＂Ad health，in my present sedentary occupation，Inrgely gon ＂We use as a food．＂He also goes on to say family of five or six，having it a year in our I suppose beekeepers themselves are ary freakfast．＂ consumers．The family of one beekeeper farges acquaintance，seven in number，uses six hundred pounds breakfast，and seldom companied with both milk and cream．it is always ac－ have not thought of the cream．If so，just bome richness next serve honey．Instead of intensifying its it．Honey is me might suppose，it seems to modify sary to keep bees in order to have and it is not neces more recommend that everyone should produce would no honey，than that bbtcher should raise their own beef stead of keeping many cases，be much better if，in－ extra of something else bes，we should raise a little mple－whose proceeds might be devoted to calf，for ex
Before concluding，I wish to give a word of advice least，honey from white to have．In Canada，at from the basswood or linden tree，aro conside that best．All are light in color．Those who lite a mild spicy wiv choose the clover，while others preferring gards our preferences，it will the basswood．As re education．They say that in be largely a matter of buckwheat honey is plentiful，there are some whe where prefer this．You can make no mistake，however，if
you choose the for clover the clover．They say，＂once a customer We must not suppose the．
wood honey is good．Honey differs all clover or bess from the same source，and it may be when gathere very poor article．Not many can explain how it is north may have honey far superi joins yours on the just to the south of you．This is due，the one living tion，but to management．Honey，when first gathered is known as nectar，and contains a large percentage of gathered，it is usually from the hives soon after it is favor and keeping qualitios，and why，lacking in rich duces an unpleasant sensation in the throat．This is what called＂unripe＂honey．Of course，more can of got in this way，but no one will ever want much through ignorance or greed of beekeepers who，either unripe honey，as nothing will so quickly discound sell ale and consumption of the good article as will this oney extractor was ore the machine known as the ever sold，because the nectar was left in honey was until the season was over，and so had pily hives thicken and ripen．Practically the same thing is extracted．In fact，when it is left to ripen before being s the best honey can the secure a better article， arker or inferior grades．Good clover or from the hey may be known by its granulating hard and white iquified by armer granulate，but when Hquified by warming it will be clear，and，in cool
weather，so thick that it can scarcely be lifded spoon．This is the honcy that ily be lifted with a Aelicious，the sort of which we never tire．
Huron Co．，Ont．

## Plan of Piggery．

Built by Mr．Hector McIntyre，Middlesex evel of the are raised ten inches above the


## Don＇t．

Don＇t allow milk to stand in the byre．Don＇t Don＇t water with the milk to raise the cream， sticking the finger in it－thermometers cream by Don＇t salt butter by guess weigh or are cheap． is fit for salting butter．Don＇t only fine dairy salt with the hands．Don＇t think rinsing will butter cans and dairy utensils clean－add boiling water sorimp the feed when the and sunshine．Don＇t Don＇t curry and brush the cows leave the pasture． stool．Don＇t keep a cow that is noth the milking feed．Don＇t breed to a scrub sire，and don＇t milk
with wet hands

## DAIRY．

## As a Farmer＇s Cow

By George Rice
No breed of cattle have had more to contend with from opposition of rival breeds than Hol－ stoins．Projudices die hard，but Holsteins have shown，wherever given a fair chance，such in－ trinsic merit as dairy cattle that they have wo their way to first place in the estimation of many practical dairymen，until now，in this great dairy county of Oxford，no breed is more popular．This has been brought about by the unbroken series victories in public test，and by the great showing made by this breed in official tests．Figures and facts are strong arguments．It is results dairy－ men want，and it is results Holsteins have shown in all sorts of tests．There are more and larger records to the credit of Holsteins than can be shown by any of the other breeds．It is not alone as pure－breds Holsteins have demonstrated their worth，but many dairymen have，by the use of good Holstein bulls on grade cow，shown grea improvement in the milking qualities of Holstein grades．The great records made by grade Hol－ steins in the herd of that zealous dairyman，the late E．D．Tillson，are known very widely．But many others working in the same line have had， on a smaller scale，equally good results，until now a black－and－white cow will sell for mor money at public sales than any other．It was oniy a short lime ago that a number of grade Holsteins sold at the large price of $\$ 78.00$ per records in actually supplying had shown such good records in actually supplying milk to the cheese as she will make in one year，and there are great number of grade Holsteins that make from $\$ 50.00$ to $\$ 75.00$ per year，and many do better A grade Holstein at the last winter dairy show made the good showing of 127 pounds of milk， hours．She was bred from the Advanced Registry Holstein bull，Sir Paul De Kol Clothllde，with several pure－bred daughters in the Advanced Registry
fadsteín breeders have，as a rule，steered clear hat have worked injury to other breeds，etc．， have banked upon performance．The Advanced Registry，wherein actual performance is the cru－ set most value standard that Holstein breeders to transmit milk habit to her descendants must possess capacity for milk．A cow may possess what is generally called＂great dairy form，＂and then be an indifferent performer．How can cow transmit what she does not possess？
cow，on the other hand，that is former may lack some of the points that some in ignorance call＂dairy form．＂What are fancy the essential A good periormer must possess the essential points－good constitution，rigor and capacity to assimilate and digest food，with the
temperament to turn it into milk．Such a cow is the Holstein．For this very purpose lias she been bred for years，and the result is she＂ghets
there＂．to the satisfaction of dairymen who value In pure－bred Holcteing
two－vear－old heifers to pive forty to fomy fon for
of milk dally，and make ten to fifteen pounds hut－ ter per week，
and a great many cows have made official tes from twenty to twenty－four pounds of butter per
week，and several have made from twenty－four to
twenty－nine pounds．This is the kind that commends itself to dairymen．＂Perform－ ance＂－not＂form＂type or such misleading and
indefinte a thing，but actual performance－ls the word which Holstein breeders swear by，an
that is what breeders are working for．This $i$ the secret of the marvellous growth of the popil
larity of the Holsteln breed，whether as pure breds or crosses．If a dairyman uses a goo
Holstefn bull from performing ancestors， the holfor calves intelligently，success is assured

## Cleaning the Cow．

The cow ought to be kept cleane
horse．This is difficult because of t the animal，but for this reason the recelve more care．Their flanks should ho bag should be wiped with a damp
falling into the milk．The amount of
filth that gets into the milk from the cow
prising，and is one of the chief causes
ranfd spolling of milk．To reduce this
further，good dalrymen are beginning to
mpeclal palls．－Professor Conn．

## Western Ontario Dairymen＇s Convention．

Thirty dairymen of Western Ontario held theil on January 12th to 14th．The convention this year was without the presence of Prof．Jas．W． Robertson，who had just returned from a trip at conventions in past years．Distinguished vis－ itors present were ：Mrs．Adda F．Howie，Wis consin，and Hon．John Dryden，Provincial Min－

PRESIDENT＇S ADDRESS
Mr．James Connolly，Porter＇s Hill，in deliver－ ing the President＇s annual address，conveyed the late Andrew Pattullociation to the family of the presidents，then proceeded to touch upon some of the most salient features of the dairy industry and outlined the work before the dairymen an armers for 1904．The past season has been and should be taken as a lesson to standpoint unfavorable years．In the future profit in dairy ing will be made by reducing the cost of produc ion，and by turning out a first－class product． his end good cows must be kept and well cared doned，and the best machinery must be obtained Co－operation in connection with hauling must be Iurther adopted，in order to reduce cost．In some districts now，where the producers of milk take of haulage of co－operative opportunities，the co of hauling does not exceed 35 cents per
while in other districts it is costing $\$ 125$ some factories the cost of manufacture is not cent per pound，while in others it is $2 t$ or $2 \frac{1}{2}$ the difference between profit and may easily mean patrons in all matters in connection with sanitary production，co－operation in hauling manufacture，etc．，the association will
endeavor to furnish＇speakers to attend the meetings of the various factorics and the annual patrons to work more together，and to try the improve the condition of things generally and we may keep up our reputation as a dairy people In connection with the appointment of instruc now，in force structors by the Minister of Agriculture of in recommendation of the Executive of the Dair men＇s Association，and subject to dismissal
the Chief Instructor the Chief Instructor，might not always work，an recommended that this matter receive the atten－ exhibit of dairy products at the World＇s Fair．St Louis，the President voiced the opinions of the great majority of the dairymen，by saying that the expense in connection with the exhibit would
hardly be justified ；that it would he renditure of money for which we would be an ex－ very little return，and unless given particularly favorable inducements we might employ our DIRECTORS＇REPORT．

## The directors for the past year were able report a most satisfactory season．Buyers

 of the work of the instructors in appreciationof the diferent syndicates．To further improve the quality of
our dairy products，the direct a resolution be passed to the effect that all that nressed its thanks to the Windsor Salt hoard ex－ the donation of $\$ 200$ ，to Windsor Salt Co．for
serond prizes serond prizes，and to be kiven to the two fac－
tories in each group that showed the preatest CMIFF INSTRUCTOR＇S REPORT

## Chief Instructor Barr reported on the instruc－

## rict marked season．Throughout the whole dis－

 rsult of the work of the instructors，buit inome few cases there are makers who will not
dope the bect mother don＇t the bect methods，whose factories are un－ This car instructors equipment is ant were allotted to thos．
The the eameines where ascistance was renulested to those
 ，ir $35 \%$ would have heen much hetter．Some anm，and some pastenrize the during the
patrons will not deliver their cream until it has developed some acid，as they claim that by so
doing they get a better test by the oil churn This trouble can best be overcome by using the Rabcock test．Much damage to our butter re

FINANCIAL STATEMENT
The report of the secretary，Mr．Geo．Hately showed a satisfactory standing for the year．Re
ceipts amounted to $\$ 7,637.44$ ，and expenses $\$ 7$ ， ceipts amounted to $\$ 7,637.44$ ，and expense
163.16 ．

Prof．Harrison，O．A．C．，submitted a few
BACTERIOLOGICAL NOTES FOR 1903.
The increase in cream－gathering creameries makes the problem of good buttermaking more
difficult．Where such is the case difficult．Where such is the case there is a
danger of bad flavors developing upon the farm Fortunately，there is always present a predom inating number of favorable bacteria，those form ing lactic acid．In normal development of produces aroma．The acigs are set free，whic has the effect of producing the right flavor and texture．Some cultures give better results in this respect than others．Besides the normal organ isms，there is Always present injurious bacteria These always increase in long－kept milk．This which have their habitat organisms were yeast． barns．In collecting milk，see that the first amount is properly soured，so that it may act a u starter on future supplies．In warining up
cream，a temperature of 140 will destroy lactic cream，a temperature of 140 will destroy lactic
acid，and in ripening cream if these are destroyed a good starter must be used．But this is poor plan．In making butter the water often
contaminates the cream contaminates the cream．In most water there is sible for much bad－keeping buter，and is respon－ the fat．The principal bad flavor，in butter is rancidity，and rancidity always begins on the out side，because the germ needs oxygen ；the active
principle of rancidity is buteric acid．The remedy Protect the milk．is end itication of the producers． it be ripened by the use of pure cultures．In some cases preservatives might pure cultures．In some acid，boracic acid，or bichlorate of soda
I．OW TEMPERATURES MAKE NUTRITIOUS W．G．Gamble，Chemist
the convention the remist at the O．A．C．，gave ducted at the college to determine gratures to ripen cheese in order to secure the emperature alooat $40^{\circ} \mathrm{F}$ ．Was most conducive a pounds，and at this valuable nitrogenous com－ ounds，and at this temperature the development retarded．Froducts，amides，ammonia，etc．，was periments throw a chemical standpoint the ex－ uring cheese

## FORMAL OPENING

Tening of the 12 th． Mormally opened on the Thomas；Mr．W．H．King，President of the Board
of Trade，and Mr．F．Mc Kelle County，welcomed the delegatec Warden of Elgin speaker of the evening deegates．The principal Nisconsin，the subject of whose $\begin{gathered}\text { re．Howie，of }\end{gathered}$ Home Making．＂In part she said
Much time is spent discussing the Much time is spent discussing the methods of is given to the most important of all，home－ making．Too little attention is given to the ne onstor，our hied，our forests，but seldom do the country there is every lives．Throughout ated farming，which all tends to of dilapid－
mesthetic youth trive the What do we do the farm． tive？Often we cast a stigma upon life attrac cupations．We often magnify the life and oc dren that we have worked often fingell our chil－ same work．The eldest boy shall he a with the lawyer，etc．Why do we not give him a good agricultural education？Why not teach him to
ally helf with the forces of nature，and be－
come come a co－partner with forces of nature，and be－ ion，in order that she receive a classical educa
ho lo longing for his father to die; is it
give her up to a dissipated life caress their dolls, how hovingly maternally they pets. Let us cultivate these God--given their utes. Do not say, "Maryese you-given attrib-
I'll do the dishes, they will" mank go and practice ishes. 'Teach the fifty knows how to red.' est of all accomplishments that the best and wreateveryday work. Never is to be able to do ew filigree tricks, and call that education girls mplishments.
teach them the value to hucation. Let us tasks. Why teach them the doctity of ordinary out for Number One when that deve of looking ness and incompetency. Let us teach thelfishfor others brides of fifteen years : ears ago we had planty of just as attractive, but at the we have many girls, have never even received a single of twenty-eight educating our daughters we have also spoiled ou sons. girl. This has led them to admire the fashion of marriage. Evenings our boys to think lightly girls who can play ragtime music with different oompany never brings a man to think sat such epithet of "Match-maker,". Mimplys gained the tain the girls of Wisconsin how to secure and re man catches of good husbands. Notice how the shakes it before the young animal. Girls, and shake them. Then, when your father's door and cured, look well to his a husband has been sehould never think that men aremorts. Women ou have made a man believe that you are when o believe that on earth, never give him rethe vain of creatures. Tell him, "Oun is the most will be feeder than he," and if he isn't he be a CLEANLINESS AND SANITARY CONDITIONS was the subject of W. G. Medd's from perfect filly at most factories are The ex trom persect, fully fifty per cent. being actually
unhealthy. Some of these conditions unsui'alle location ; rotten, conditions are due to floors: rough and dirty walls and ceali-smelling
pure water supply ; dirty, imfilthy whey used; leaking vats; unclean utensils: etc. In improving, the help of a competent in-
structor is a great benefit, and aboult remedving his own individual difficulties grassy lawns screens, gravel roads, pure painted For disinfecting drains, chlacterize each factory, or lye may be used. All main drains should be
trapied to prevent foul lo the factory, and no wash or odors returning
mixed with the whey. A FAN FOR A COOLING ROOM use of a fan to reduce the temperature with the Cuce the outside air to a cell containing ice: from
there the air enters the curing-roong
onenincre onenines, circulates freely, and is at several
through a chite tion. Hy the use of the sub-earth duct, the ice
and the fan the temperature or he kept $20^{\circ} \mathrm{F}$. below the of the room could
The fan
The temperature the chrese in the room was hreurs per davature and Mr. Ruddick sounded a note of this subject great improvement over the Bothwell was a
room, lemperature could be brought down to at least
$56^{\circ} \mathrm{F}$, and according to Prof. Dean's experiments
$40^{\circ} \mathrm{F}$. was the beet cheese. Was the best temperature at which to cure
cher
merfets in canadian butter
real, who was at the convention Mas a renresenta
tive of the Woint great prohlem before the dairym merchants. The can sell her improving our butter. New is the storage rier butter well, because she has cold
kets ; she them the churn to kets deme lises heavy boxes, and fulfills the mar defects in inds. We must do the same. The great
flavor, market demand salting and general quality. Thie lichtly selt ed, and furee grades of hutter-unsalted,
should grades. In coloring, nothing hircher to these
straw-rol straw-color is wanted. We should also eliminate
sectional navors. Our
too thing too light, and are seldom filled close enough to
the top; no salt should lie put on top of the
paper. Boxes holding 56 ths. are the right kind,
but they should be at inch thick, docetailed or nailed, not made with should be the shan, as is common now, and ities, of course must he cube. Shipping facilbeing can be marketed as soon so that ou of the wornst, for lack of keeping quality after makers must pass stringent product. In Ireland then licensed. Some examinations, and are worked to advantage in Canada. might be 1ivering and on the best methods read by and determining the value of cream for, de who visited the McFeaters, one of the instructors Cleaner methods of millinring the past season patrons, and the practice of setting urged upon crock under the spout of the separator the cream in a smaller crock plan is to let the cream stand thoroughly stir into the skimmings, and then should be instructed not to supply. Haulers
$60^{\circ} \mathrm{F}$., or with too much to cream over the length of th too much acid, depending over ing.

THE ACIDIMETER.
sion on the use of the acidimeter in a discus ing, by reading a paper an on the subject. On its
first introduction the acidinak first introduction the acidimeter was was not On it
ally pener necessary in its use chiefly to the extreme car factory results ; but, as the ripening of cont unsatis-Acid-forming process, and as the acidimeter will
show the extent

J. N. Paget, Canboro, Ont.

## Sresident Western Ontario Dairymen's Association.

stage of the ripening, it naturally follows that net test will become more popular. That so milk to the act, as it tells the susceptibility also tells the extent to which the rennet has acter apon the milk.
mile testing.
Recently, because many cheessemakers do not
understand thoroughly the cock test, and could not explain difficulties Habbeen abandoned in some, the use of the test tha for milk by weight Thic is which now pay cidedly hackward step. This is considered a de to use the Baboock test, and patrons learn how mand to be paid according to the per cent. of fat

HON. JOHN DRYDEN'S ADDRESS The Ontario Minister of Agriculture did not tion inaugurated then would accomplem of instrucgood in so short a time. But we must continue that command a hicher some dairy products vet we want now is uniformity of quality in that operation between unity of package, and more our makers of poor stuff must be educated or and The the cat of the business. This is the object of the poorly cared-for milk is not Impure, tainted and vel. Some of the instructors would like to be and cleaner factorles, but he woure purer milk educational methods. One of the most persist in features about cheesemaking is that makers will
moving the respoitibity supplying pure milk. What really is patrons of pure mill patrons who will guarantee to surd

Mrs. How A WOMAN'S WAY.
Wednesday, on "/ Maned the convention again Many men buy cows indis a herd for profit." men indicationd barns with lightning rods dairyfloor under a a dairy farm. Never put a cement tive constitutionty-bred dairy cow. The sensi treatment. Stanchions cow will not stand such abuses to which cows are subjected amo greatest needs should be cleaned twice a day, whether dair year. A not, and the walls whitewashed every strate the remarks tables to keep the record of each cow scales and the record statement of a cow's perform. Buyers conscience. often saves considerable strain on the conscience. Grooming undoubtedly strain on the day. If a herdsman is auld be performed every good tempered, intelligent and kind, for if he is are abused they are certain to retaliate. for cow
ness is essential. ness is essential; there is no excuse for carrying
milk from the stable with the surface. The secret straws and dugt upon urofit lies in the words kindness, cleanlinerd for unflagging energy.

BENEFITING THE MILK PRODUCER
Was the subject taken by J. CUR Strathroy. The lines of improvement Burgess, of be in
the direction of more intensis. higher standards more intensive production and not reach a standard of 6,000 . Cows that do year should be disposed of. Opportunity milk per be given a cow to do her best, by providing fould
der crops, should consist in milking, etc. Cleanliness disinfecting the utensils, methods of milking, cans, etc. Patrons should learn to whey in the cerest in their business. uct of the whole destroy the favor of the prod-

The Wed EVENING SESSION
address from Mr. Jabel Robinson opened with an
partook of a reminiscent character. M. Mr. Wh. which Publow, Superintendent of Instruction in Eastern
Ontario, followed Ontario, followed. The objects and work of the instructors was outlined, and some of the neces visits were mork enumerated. In many cases contamination detected. Aarms, and the sources of were purchased, and the stands erected in cans tendency positions. This class of work has interest them in their patrons and makers, and cheese are practically work. The defects in the the western end of the Province. Duse found in months of July and August the milk is ing the ing sent to the and should be kent cool before be pay $\$ 15.00$ per year for Factories in the east structors. per year for the service of the in

## AWARDS OF PRIZES

tion were made by G. H. Barr.
tiond consisted of cash of $\$ 25$ and $\$ 15$, donated prizes provement in Company, of Windsor. The the result of this competitions of the factories as 000 . competition amounted to over $\$ 1$, Pacet said the conditions of the factories J. N largely responsible for the dryness of westere cheese during. Julv and Angust, necessitating the The championship marketing
for the best cheese shown at the Winter each year tion in connection with the convention thishibiwent to R. H. (Treen, Trowhridge, and was nrethis vear scored 99 points, against 973 lates cheese The transportation question was then last year. hy Mr. McLaren. In the future he would like to the head of Lake cheese shipped to some nort at shipped from that point and there marketed and companies would comnete for the transportation products. Our agricultural export products the ing the past year, consisting of grain, stock amounted to over $\$ 100$ poutry and fruit, hav revenue from exports $\$ 500,000,000$.

THURSDAY MORNING'S PROGRAMME.
hurried during the last session. was considerably the first speaker, and had for his field the whas cork of bittermaking. In his opinion, if we are ripenake first-class butter, the cream must be ing alrout 6.7 by the acidime pure culture testsired resalt cannot be obtained by unding the de
amount of starter, use as high as $15 \%$.
rouble in most factories is that they receiv many flavor organisms developed. and safe transpen discussed the preservation Some suggestions offered were: To wash the floors, walls and ceiling were: To wash the spring with a solution of bichloride of mercury one to one thousand of water, and to take espe fining cheese delivering butter to the cars. Paraf fining cheese prevents shrinkage, mould, etc., but provided. In practicable where cool curing-rooms are provided. In paraffining, the cheese are firs
placed on the shelves for a week or ten davs, after which they are lowered into a vat of ho wax, $200^{\circ} \mathbf{F}$., for about ten seconds. Retailer in Britain claim they should have some rebate on choese that are paraffined, as they shrink concounters, but experiments when placed on their prove that the shrinkage is due only to the loss of the weight of the wax coat, and amounts to about four ounces per cheese. Something must are broken when they land in Britain. of our boxes partly due to bad arrangements in loading cars In the Government's experiments, heavy veneer about five to the inch, were used, and these give cents more. Boxes should be carefully fitted two he cheese.

OUR EXPORT BUTTER TRADE
was the subject of Mr. Arch. Smith's paper. Our reameries, uniformly packed, and regularly dopt improvements ontario makers are slow to pays to do so. The length of time which that it etween making and shipping detracts from the alue of our product. What is needed now is entral cold storage plant at the head of Lake oat to Montreal. Instances storage facilities by our butter laid on the Glasgow docks fro wher twelve days before being sold

WATER CONTENT OF BUTTEER
Prof. Shutt, Ottawa, submitted to the associa the moisture content of of his investications on the moisture content of butter, the text of which

## RIPENING Cheese

which to ripen cheese. Results of his erpature at point to the temperature of $40^{\circ} \mathrm{F}$. 28 to $29^{\circ} \mathrm{F}$ cost of obtaining that point. At from ripened at about shrinkage was lowest. Cheesc 60 , after an initial sta 28 of At a temperature of $40^{\circ}$ cheese may four weeks.
one week from the one week from the hoops. If we can get our
cheese cured at a temperature of $40^{\circ}$ our troubr Among other DAIRY SENATOR
vention was the following : passed at the conMoved by A. F. Mactar the President, Jas Connolly, M. That seconded by convention Assiation of Western Ontario, in annury action of the ared, hereby endorse the
urging unon the Board of Directors in ommend the appointment of that he rerThomas Ballantyne to a seat in the Honnrahln
confirm the resolution which adopted, a copy of which was submitted to the
Premier. This larme mentind senting such immense interests in Western repre-
tario, feel justified in demanding that he specially represented in the scmato, and he
lieve that none could so fitly teprocent them
the Honorable The officers for the ensuine vear ard Hon. President. Thos. Ballantyne are: Stratford,
 2nd Vice-pres., I. W. Steinhoff, Siratford
3rd Vice-pres., Thos, Ballantyne. Ir., Strat.
ford. ford.
Directors-J. McQuaker, M. R. Shearer, I
Rrodie. J. Connolly, W. R. Mce.end. W. A. Both-
well, A. F. Mactaren. PRIZEWINNFRS. It has been stated that the cluster will move
 and by the Windsor Salt Company, as mentioned

## 1st-Jas. Bristow, St. Thomas

 3rd-Jas. McQuell, Lafontaine3rd-Jas. Alderney Butter Sound ..
$1 \mathrm{st}-\mathrm{Wm}$. Waddell.
$2 \mathrm{nd}-\mathrm{G}$. M. McKenzie, Ingersoll.
Sweepstakes-R. H. CHEESE.

## 1st-R. H. Green ....................

1st-R. H. Green ........................
2nd-w. J. Goodwin, Brussels
3rd-A. O. Gracey, Dorchester
ist-Wm. Stace October White.
1st-Wm. Stacey, Fullerton
2nd-J. S. Izzard, Paisley
3rd-R.
${ }^{3 r d}-$ R. H. Green ..........................
Ist-Frank Boyes, Northwood
3rd-J. D. Doan, New Sarum
1st-Hugh Wilson, Kyser $\begin{gathered}\text { Octolored. }\end{gathered}$ 2nd-R. Cuddy, Woodstock 2t-R. Cuddy, Woodstock
3rd-Jno. Francis, Aden
$\qquad$
winner of the sweepstakes in cheose.
inners of the wind
ngersoll Group-1, M. McKenzle. In prizes wer
Simcoe Group-1 Crampton.
Simcoe Group-1, Jo
hn Francis, Eden.
Brantford
Seitz, Canboro

$\qquad$
$\qquad$

## APIARY

## Sweet Clover a Honey Plant.

,
so
si on account of cold, wet weather this past seaing a few hives by actual weather in June, los eally aware of it, and if it had not been I was more, as this patch kept clover I should have lost condition. In fact, they went far ahead in fair out-apiaries. I have sown, this season, five acres
more, and next spring I indend forty acres moxe, as I can rent land for out about pose at $\$ 1.50$ per acre. $I$ I intend tor this pura time when there is nothing it comes in just at ing period is longer; but the and the bloomwhite, I am satisfied, was worth to me this se

Why Outdoor-wintered Bees Die. been having unusually cold weather, We have about the middle of November, and letting up a a little. Much of the time the mercury hawing Wasing very closely around zero, and a great deal Hring times for outdoor-wintered theos These are into a very cold weather the bees will draw why in this bunch, closely compacted, as will remain
continues to be very cold. If as it.
comarm an spell seek a new spot from which they have eaten the
honey all out, they will be liable to starve to death. After a very will be liable to stapre to bunches of beess dead. The honey had been eaten
away from the cluster. for all around the cluster for perhaps twe two inchec tray bees will always he fout of reach. a sinall cluster in the effort to found that have left the
death. It was too cold for tho but chilled to It has been stated that death clustor will move, This warm spell that has just come on, even if
lasts for only a day, will give the hers


 loins and the upper jaw. At the 144th hour two
ventricles are visible and two drops of blood, instead
of the single one as seen before. The seventh day the
lirain lacine one
$\qquad$ the indone seen. In six hours after this the ribse the freastbone is


## Evolution of the Chick.

egg of the fowl-any means of studying embryology is embryos of such vastly different beings, as alike are the ing stages in their prenatal career that only arrespndstart life as a single cell from which." All animals a pin point), and although the processes of nutrition
are dissimilar, the princur are dissimilar, the principles are processes of nutly the same.
The egg contains the food Whereas the circulatory system provides it in in chick, mammals. As the germ cells within the egg in-
rease, so they gobble up the yoke crease, so they gobble up the yoke and white, and
transform the substance into flesh, bone and
either either a pullet or a cockerel. That is if feathers of length of time and squatted on the egg for the necessary
inculator the egg has been thatched if ncubator. If, of course, it has bone hatched in an
has helped to build up bone, muscle trade, it hooks for the lords and ladies of creation.
However, that and good However, that is merely by the way. So let us
come to the evolution of the chick. The incubator has
scarcely gone on its scarcely set on her eggs twelve career or the hen has
ments of the head The heart may be seen to beat at the chicken appear. day. It has at this time somewhat the form second two days, two no blood yet appears. At the end af the pulsation of which is very are to be distinte. end of artery. ventricle, and the other the root of the great
at the fiftieth hour an appears, resembling a noose folded down upon heart and afterwards in the ventrict observed in the auricle
$\qquad$ the head two bubbles are seen for the brain, and on
the bill, and two the bill, and two for the fore and hind parts of the
head. Towards the end already visibards draw end of four days the two auricles The liver appears toward the the heart than before. f 131 hours, the first voluntary motion At the end of 238 hours; and, if the chicken be taken at the end

## POULTRY

## How Much to Feed.

feed as it is important
The rato what to feed. of grain, green suitable to fowl is a combinatio or or vegetables, with anima But how






























 in summer and wheat in winter for the grain
ration.

JANUARY 28, 1904



a combinatio with anima gg production
g we all mus g we all must
a difficult one. d if one will too much or other. Th
he wild state
rts out in tha d returns at The amount o gizzard durher a mixed dig out of
practically, must comwhich he $y$-once soon
roost in the warm mash es, and scat-
duce them to
part of the the litter so
, go through the bird too littl
fill it cor
0
By experi-
summer, but good food
re grain


## Amount of Glass in Henhouse

 benhouse with roof sloping to the north buil the south side of glass, clear down to the and allso ns to be light and sung inound so ns to be light and sunny in winter. In sum-
mer time a cotton curtain would ber the front, or the glass would be white pulled over and most conducive to good be most healthful a clipping in another paper from the "seeing cate," which said, "Do not make the mistake
having one side of the house ald asking the reason for such advice. Speaking get In climates where the extremes is not necessary are quite marked, an all-glass front and cold the temperature of the house will fall very that also be warmer in the especially, and fory able amount of light is summer time. A reasonof the fowl and work of the attendor the health seems to be go to too great an extreme the present a disposition among poultrymen at moderately open shed for of open runs, with,

## GARDEN AND ORCHARD.

 Importance of Cover Crop.emphasizes the importance of a cover present winter
orchard, especially in localities where there is for the are afraid that the disaster the peach-growers of Essex when thousands of peach trees were kul repeated, freezing. There is more danger during killed by rootdhen the ground is bare from this cause than from damage to fruit buds. It is estimated that the fruit reaches from peach are in danger wnen the temperature Much came through even a lower temperature unh have vuch depends, however, on the weather that has preDecember, or a prolong cold wave. A warm spell in evere cold wave, will often result in followed by a while the same degree of low temperature preceded by in the case of root-freezing, there is do no harm. But, continued cold wave when the ground is danger from the tender varieties, that apple trees, more esper same cause. Fortunately suffer serrous injury from the country the roots are this year proteater part of the covering of snow. But this is not a sured every year, and cold waves may occur means as-
is no covering of snow, and often there
southen southward. Thering of snow, and often extend far to there
grower should it is advisable that the kind to protect the provision for a cover crop of some
Damage to Damage to fruit buds of the trees from damage.
severe cold is a tarlety of fruit from tan ening of the crop for the year. But loss of or shortroots is of a crop for the year. But damage to the
entirely kill the life of the tree. under every and all circumstances do not claim that useful injury, but it is one of the most economical and
and we con many useful plants that may be that end. There are
such as such as crimson clover, red clover, rye, and the harpose,
vetch. Crimson clover vetch. Crimson clover is very tender, and the hairy
succeed in will not
proter succeed in northern districts. The hairy vetch is
probably one of the best, and
succeser success in the Niagara Peninsula. The common red
clover is and mith great Where the orchard is next best plant for the purpose usually form a pretty is thick planted too close, it will is kept well cultivated sown in July. if the orchard plenty of moisture near the surface to give the clover
a good start, and it A cover crop should always rapid growth.
wreen through the winter. Such a crop as penemain considerable severe cold sets in, even though it makes
nothing not the that nothing better for most tocalitiest. Perhaps thane is
clover. The common red
in but, in protection they afford to the roots of the trees largely of two elements which most of our orchards adre
sadly in need of, viz rye, legumininous cover crops are, with the exceptionts rye, leguminous, or, as the Americans aptly term them,
altrogen traps.

## Russia vs. Japan.

$\qquad$ To the north is Far East question more intelligible. northern Asia, traversed by the Trans-Sileerian Railway,
which, running from St. Seter Vladivostock, is about St. Petersburg in Europe to
over which trains mus miles long. Lake Baikal over which trains must be transported by ferry, Breatly
impeded by ice in winter, is impeded by ice in winter, is its greatest drawlack.
Manchuria is nominally atly undeveloped resources, wist a Chinese Preatest drawback. as great as England and Wales. Manchuria has times how
ever, been drawn alno ever, been drawn almost completely under unia has, how-
control. The branch railwe Russian control. The branch railway runnting from the Rusharlin to
Port Arthur was bulit by Russion coll
Russia Russia might have a by Rort (Pussian capltal, in order that be free from ice in winter. (Port Arthur) Which wh whll
country, at who country, at whose head is an emperor. "independent"
and Iussia have coveted the empan
Japan's Japan's anxiety as to the possession of Corea, and
Manchuria by the continued occupan that, with possession of that Province, Russintanty
move would be to would be full of mebtain Corea, a conce, Russia's next
her ambitions to Japan herself. andions of expansion. Fast has changed somewhat. press, all Europe is looking for a peaceful settlement to
this hopeful view of the that the Czar, under friendly pressure of the the fact
powers. powers, so it is said, has intimated of the European
Minister that he is willing to Japanese to the Japanese demanding to make certain concessions
caused by the caused by the recent dispatching ox oftement has been
troops northward from poo Russian reported, for the Yalu River Arthur, destined, so it is
declarsian declared that this is no indication of authorities have break, and, ou these grounds, have refused the applica-
tions of numerous war correspond accompany the troops. spirit is still strong. The Tokio, however, the wa concessions the Russians may make mill believe that na and that war is the only possible outcome. Montana gements for establishing a Boer colony in
tana almost completed. The tana has been made by General Joubert, on the recommendation, it is said, of Jas. J. Hill, President of the
Great Northern Railway. has entered the United weeks, $\$ 5,000,000$ Irom Japan that the situation in Macedon Balkans is to the effect and munitions of war. States to pay for wheat, flour to keep the peace have ejected the sent people from the thelk
from the U. S.

possession of them from themerir
hope, and are fast beelves. ripe for the fresh insurcouling which the Bulgarian Revoluabout in the spring. anticipation of an early. In begun to conkish troops ha ing to the Bulgarian road leadA cursory explanation frontier. complicated, which is extreme The Macedonians as follows:
term are included which Serbs and Bulgars who live in Macedonfa) have who live
ized that under the ized that under the sway of
the Sultan of Turkey they can make no of Turkey they
ization ization or prosperity. More-
over, they have been distressed by heavy taxes, ro bery and the insecurity of
their lives in a country of
Mohammedan Christians' lives are to whom Christians' lives are of less
account than those of the vermin of the earth. Again out in revolt, and have called intervene in their Europe to without avall. In behalf, but last, the insurgent troops hat Colombian troops ar ar for them, and, to the troops of the Isthmus are read have enrolled to defend the three 12,000 , 9 ghting meady access can be had to Panama. The Isthmians sfy that
at these passes a few soldiers. army. passes a few soldiers can keep at bay a great in which now with the Turks, of life amounted up in the in which the lows
out their strugge sympathy and aide the Macedonians have Throughcmbroiled themselves in the Bulgarians, who have thue theless, it is for autonomy, or selfall-govern demands have that they cannot form a seld that the rebels must NeverThe Lapps are in danger of starvation. Their entire wealth consists of their reindeer, which, Their en-
the inclemency of the last spring, and the weather during this winter and been dying out, leaving the Lapps in a deplorabse have
stability, and that, since their main desinment of any
from Turbish movern must realize from Turkish misrule, and, at the same time, is to escape
the possibility of Russian rume would not object to partition of thel they dreed, they Bulgaria, Servia and Greece. Coveted by Rustween Austria on the north, by Italy on the west, and harassed by persecution within, the Balken Prost, and
are indeed in a precarione

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## NOTES AND NEWS

"Life is not so short but that there is always time
enough for courtesy "
" We live through our days of happiness without noticing them. It is only when evil comes upon us
that we wish them
Mr. Sam Wilson, of Stanwood, Iowa, thinks he has the largest calf in America. When twelve months old
A man in Soatele

A man in Seattle, Wash., sold $\$ 400$ worth of winter rhubarb from a house $20 \times 100$ feet. It is said that rhubarb may be successfully forced even in a cellar.
" Small things swell the farmer's balance at the [Farmer and Stockbreeder
Rich gold fields are reported from the vlcinity of easy, and a rush of miners is predicted this place
 Edson M. Crossman, N. Y., has succeeded in pro-
ducing an apple that is green in color, with pink flesh, resembling that of a watermelon. Its flavor is said to be excellent.
will shortly steamer, to be called the "Canada Cape," tween Canada and South Africa. This will make the


Congress has appropriated $\$ 500,000$ for the exterinteresting to us, as the depredations of the little be sect. If not checked, will have the effect of making our cotton dearer
Newfoundland is the greatest fishing country in the world. About two-thirds of its population are engaged in fishing. If Newfoundland concludes to come into Canada as one of the Provinces, our coat-of-arms
will need another fish or two.
Mr. R. H. Grant, of Carleton Co., Ont., has made a success of poultry. He keeps from 80 to 100 hens,
and is now shipping over twelve dozen eggs each week to Montreal, receiving a high price for them. Last fall he sold 300 fat chickens. He says it pays to use
hens well. ans well.
Miss L. Goodell, Canastota, N. Y., started, twelve years ago, with a borrowed hen and a setting of
Dorking egge. To-day she owns extensive poultryhouses, and clears, annually, from $\$ 500$ to $\$ 1,000$. This shows what a woman can do if she goes about it
The emigration to Canada from England last yoar amounted to over twenty-five per cent. of the total
emigration from British shores.
That is, out of emigration from British shores. That is, out of
250,000 , 60,000 have found homes in Canada. Two years ago 10,000 represented the extent of English emigration to Canada. This year, the emigration omises to be greater than
At an eastern Farmers' Institute meeting, it was
stated by Mr. G. H. Hutton that investigations carried on have shown that Canadian seedsmen hations carried the way of sending the best seed to Europe, where it commands high prices, leaving the poorer class for the Conadian farmers. It is high time that farmerg
should see to it. sharply that should see to it
certain standard.

Mr. S. Wiederhold writes us: "Having read in the
Farmer's Advocate,' a treatment thought I would give you a more simple remedy, as there are a great many stables infected. The diseased part should not be touched with the hand, as it is
contagious and very painful. Put plenty of salt in lukewarm water, and apply to the party of affected in I
have never known this remedy to tail by simply apply-
ing twice."
Jas. J. Hill, President of the Great Northern Rail way, speaking at Minneapolis lately, dwelt upon the
probability that Chamberlain's policy, If adopted, will
injure American trade injure American trade to such an extent that there will
be a surplus of from 20,000 ,000 to 30,000 , 000 of wheat, unless new markets are opened. He spoke
hopefully of these markets being found in the Orient, where, it is interesting to note, the people are just learning to eat bread made from wheat flour. It
baffles the mind even now to imagtue the quantitics of
wheat which will he required when Chine wheat which will be
along with the hord
sians, Afghans, Hindoos and all the rest of the

[^0]THE FARMERS ADVOCATE.
Shorthorn Breeders' Amnual Meeting. D. McLaren, Dunmore. To Provincial Exhibttion, Hal

## The annual meeting of the Dominion Shorthorn

 Breeders' Association was held in Toronto, January19th, and was very largely attended, Mr. Wm. Linton Pres., in the chair. Mr. Henry Wade, Sec., presented the eighteenth annual report, which showed that registrations in the herdbook have kept up well, Vol. 19 having been recently issued, containing the pedigrees of 10,444 animals, an increase of 1,227 over that of Vol
18. The pedigrees of 84 imported bulls and 428 imported cows are recorded in Vol. 19, importations hav ing been made in 1903 by Edwin Battye, Gore Bay A. Cargill \& Son, Cargill; David Clough, Whitechurch;
Balsam
Balsam : W. C. Edwards \& CO., Rockland ; W. D.
Flatt, Hamilton; Alex. Isaac, Cobourg : Flatt, Hamilton; Alex. Isaac, Cobourg; Geo. Isaac,
Bomanton ; Arthur Johnston, Greenwood; James Lawrence, Clearwater, Man.; John Miller, J Brougham ; Sir William Mulock, Newmarket, and John ceived in 1903 amounted to 9,749 , an increase of $\$ 251$ over the previous year. The total pald-up membership Is 1,936 , an increase of 174 in the last year. The in-
come from members' fees in 1903 was 83872 and come from members' fees in 1903 was $\$ 3,872$, an inyear, including a balance on hand on January ist 1903 , of $\$ 7,704.79$, were $\$ 21,756.34$, and the expenditures, including the printing of herdbooks, prizes granted at shows, etc., were $\$ 16,242.41$, leaving a the Association are $\$ 15,79643$, nfter all lia assets of paid. The Association was most liberal in its grants the different exhibitions. The delegates from Mani toba-J. G. Barron, Carberry, and J. G. Washington Dominion Exhibition at Winnipeg. The other amount Voted were: Winter Fairs, Guelph and Ottawa, $\$ 700$ Winter Fair, Amherst, N. S., $\$ 100$; Industrial Fx


The Late Wm. R. Stewart.


Culgary, Allerta, $\$ 100$; Brandon, Man., $\$ 250$; $\$ 100$ : Victoria, B. C., $\$ 100$; Sherbrooke, Que., $\$ 100$ :
Fredericton, N. B., $\$ 100$; Halifax, N. S., $\$ 100$ : Charlothetown, P. F. 1., $\$ 100$; London, $\$ 250$; Ot-
tawa, $\$ 100$ : valuable services rendered the Association, was ap-
pointed Assistant Siccretary OFFICERS FOR 1904. The following officers were chosen, being almost al-
together re-elloctions: President, Wm. Lintun, Aurora


 W. A. Heutach, Touchwood Hills, Assa : Jas Board of Mirectors: W. D. Cargill, Cargill;
,yment, Barmiry John isaac, Markham : (ieon
 Walkertion; 11. Smith, Fxeter ; John Davidson, As (urn: James al Gardhouse, Mightield : T. F

$\qquad$
$\qquad$ D. Flatt, Ha Mgstes, (to Treenwood
 Indert Wh. gates to Industrial Exhillithon- Wm. Ifin,
D. Mclaren, Dunmore. To Provincial Exhibition, Hali
fax, N. S. F. L. Fuller, Truro, N. S. F. F,
Dickie, Fort William, N. S. To P'rovincial Exhibition New Brunswick-Senator Josiah Wood, Sackville, N. II Bliss Fawcett, Sackville, N. B. To Provinclul Exhil,
tion, Prince Edward Island-C. C. Cardiner, Charlot town, P. E. 1.: F. G. Bovyer, Georgetown, P. E. To Winnipeg Industrial Exhibltion-Hon. Thos. Grect way, Crystal City ; J. (i. Washington, Ninga. Calgary Exhibition-E. Osborne Reld, Cochrane: Hon Wm. Beresford, Calgary. To New Westuninster Ex Ladner. Secretary, Henry Wade, Toronte W. I'atters Ladner. Secretary, Henry Wade, Toron
Secretary and Editor, H. Gerald Wade.

## Meetings, Shows and Sales.

## Annual meeti

## February 2nd.

a. m-Meeting of the Directors of the Canadia 80 Ayrshire Breeders' Association, at Toronto. Ayrahire Breth annual meeting of the Canadia Ayrshire Breeders Associution, at Toronto.
$8.00 \mathrm{p} . \mathrm{m}$.-Third annual meeting of the Harness, Hunter and Saddle Horse Soclety the Harnes ebruary 2nd.-

Annual meeting Canadian Holsteln-Friesian Assocla ton, Palmer House, Toronto
a. m.-Fifteenth annual meeting Shire Horse-breeders' Assoclation, at Toronto. $2.30 \mathrm{p} . \mathrm{m} .-\mathrm{Twelfth}$ annual meeting of the Canadia
Hackney Horse Society, at Toronto. $4.30 \mathrm{p} . \mathrm{m}$--Third annual meeting of the Canadian Pony Society, at Toronto.
February 4th
Clydesdale Hoting of the Directors of the Canadlan Clydesdale Horse-breeders' Association, at To
2.00 p . m.-Eighteenth annual meeting of the Canadian Clydesdale Horsebreeders' Association, at 00 p. m. - Annual meeting of the Canadian Horseebruary 5 th.-
Combination sale of pure-bred stock, Amherst. N S Annual meeting Canadian Jersey Cattle Club at Toronto.
ebruary 10 th-
S. Anderson's Shorthorn Sale, Camilla, Ont. H. Anderson's Shorthorn Sale, Camilla, Ont.
near Orangeville, C. P. 12. C. N. Blanshard's Shorthorn Sale, Applehy, Ont February 17 th.- J. Hanmer's great sale of Shropshire sheep, at
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$ March 2nd, 3rd Sing Stallion Show, Toronto Second annual C'anation Spring Stallion Show

Wastern Ontario Winter Poultry Show, Ottawa
Cuntral Cunada Suriny Horen Chow The dates for the annual meetings of the Cattle held in the Palmer House. Toromto, are as follows: ruary 5 th, 9.30 a. m.
Domention She
 Winter Fair Board, saturday. Fehruars bith, $2 \mathrm{p} . \mathrm{m}$
All persons attemding the mentinges durine this week

Sudden Death of Mr. W. R. Stewart. Macleot the territorial Horsobtreders' Ass'u. Macleold, Allierta, sudtenly dropped dead in the C.
R. telegraph office at ist. Thomas, (ontario iriends in Ontario, and on the dlay or Mr. a visit to
leath were on the way from thingetown to Galt and
iuclint Winter Fair and Horse Show Postponed. Fair-1h, Smith, Exeter; C. M. Simmons, Ivan
To Central Fair, Ottawa-R. R. Sanpater

Cidont is saide Show collarsed. The cause of the Central Fair, Ottawa-R. R. Sangster, I Iancaster insist He pirders that supported the heavy pine

JANUARY 28, 1904
Stock Judging at O. A. C
20th, and was, in many recs-judging closed January
course that has yet been the mest the most sucessful THE FARMERS ADVOCATE attendance was scarcely os large at the College. The
though some 150 men, young and in previous years of ti. The frrst three days were devoted to to bean antag four tat sters, which were subsequenging, alive, of and the carcasses cut and discussed dety slaughtered, Mr. John Gosling, of Kansas City, beve
instructive eddreave class instructive eddrosses on this phase of the geveral very
breeds represented in the thect. The breeds represented in the purebred classes subect. The
Shorthorised A number of breeders kindly lent lithe and Galloways. College. Mr. W. R. Elliott, Guelph, sent tock to the James Bowman, Guelph, Aberdeen-Angus ; Shorthorns; Mactrea, Guelphpany, Guelph, Heretords, and Col. D. D.
Mandows.
Among those who sisted with the Judging in the Among those who as-
Jolin Dryden A. A. W. Smith. Mante classes were Hon. Gosling, Kansas City. Dairy cautle were and John represented, Dentonia ${ }^{\text {Ayrshires, J Jerkeys }}$ Farm, Tartle were also well manager of Dentonia Guernseys. Mr. J. B. Ketchen,
different classes.
The sheep section presented some hard problems for
the students to solve, and proved the students to solve, and proved a very interesting
teature of the course. Mr. John Campbell
whe some valuable placing the awards, and who also gave gille,
 Whitelaw Bros., Guelph, furnished Leicesters ; Oeflords;
Bros, Paris, Southdowna Dorset Horna; and James Hume, Arkell , Tharndale
exhibit exhisit of Cotswolds. A dressed Arkell, made a nice
was also conducted with the sheep being judged allve, and the carceases the animals firs pared alterwards, with a view to to showing what the colly
handling qualilies of the living dressed carcass.
 Elliott, Galt, who sent a nice bunch of Tamworthe william assisted tu the judied some of the Yorkshires, end also
iudged judged alive, and, as in the cass of bacon hogs was
sheep, the animals were tubseonently the cattle and the carcasses carefully compared. It is worthy of and
that ansently slaughtee and that in cattle, sheep and swine, the amards in the
dressed carcass competition were the same as in the ${ }^{1} \mathrm{livessed}$ elasses.
The horse division was also interesting. Messrs.
Sorby, James provided a capital string of Alydesdales. Atchison, Guelph, In the other
classes, the College is indebted to
 horses of diferent classes. Robingon, of Erin, for supplying to supplementes, the storkse, the College stock was used
good good strong classes were furnished in nearly
tions. ourse was given in work in stock-judging, a valuable identifcation of the seeds of various weeds, and. in the of the staff, as well were addressed by different members a variety of subjects of general interest to farmers. It will
be seen, therefore the of the course pore, that the students who took advantage
sentiment sentiment of the class is expressed in weeks, and the
resolution. which was carried unanimously at the close
of the Moved hy W. W. Hubbard, seconded by W. L. Dixon,
resolved that the members of this specilal stock-k
course reeye John Dryden and R. R. Elliott to convey to Hon College who have the various officers of the Agricultural to make this course practical, usefull ind labered our sincere appreciet on of their, usfur and interesting,
that they have put themselves to Work and inco put themselves to a great deal of extra
are very
 and Prufselors Day, Reed and Cumming lectures,
taken Zavitz, who of tonducted judging pavilion, and Mr
of whom helped in every
one
oesstul.
celped in every way to make the course suc-

## Aid for the Consumptive

 haps no institution in Conada is to to will deny. PerFree $H$ Hospital 1 tor more persistence and elfect than the This horntal for Consumptives, Gravenhurst, Muskok.
tronthe many of whom thave been cured. admitted 225 patients, beneftecl But the efforts of the institution greatly crippled ly lack of funds. This year, $\$ 25$,000 will be be
required care of tar reduction of the delet and to pay for the onw yents. except for the maintenance of six beds for
reeeived. Wiven mall contrituutions will bo thankfully
 Hospitan for Consumptives makes thla appeal to the
philiantircopy of all people Into whose hands the "Farm-



## The Hamilton Shorthorn Sale

ton, Ontario, on January 20th, was at Hamilmost successful of the series 20 h , was one of the hat place. The attendance was vendues held at being filled tod former sales, the spacious pavilio class of men ace capacity with as fine anywhere on this continent found at a similar even drogressive farmers and breederging, substantial stock indue future of the country and of cont with the company And the cattle were in keering lots ever offered in one of the best all-round condili smooth, even collection eral States While buyers were present breeding Alberta, the bulk of the and from Manitoba sev tario farmers who the stock was taken by 0 a discrimination in their selections judgment and was prompt and spirited from start to the bidding hours, at the g disposed of in less than the sensational prices wererage price of $\$ 332$. No ure of the sale was pald, and a noticeable feaStates Among the buyers from the obStates were Messrs. F. W. Harding, the United \& F. Brown, Minnesota i E. S. Kelly, What Heint Lowden, and Ross \& Murrayli, Missouri; F. Stevenson, Michigan. Murray, Tllinois; and E. C. look the highest-priced Lhe last, Victor of Dallmeny

J. G. Hanmer, Brantford, Ont.

## imp, at $\$ 950$, and Mr. Kelly claimed the highest

 priced female, Rosewood 86th, imp, at $\$ 925$both of which were included in Mr w, contribution. Mr. Gardhouse's fine D. Flatt' cow, Missie 159 th, bred by W. S. Marr, was
cured by Mr and bs she will C. Attrill, of Goderich, at $\$ 800$ Imp. Chief Ruler se sho torve in February to ment. The sale was admirably a good investhing going off smoothly without a hitch everyminute's unnecessary delay, and the auction a Messis. Robson, Ingram and Jackson, did excelent work, showing improvement over all former lowing is the list of sales :
COWS AND HEIFERS.
Rosewood 86 th (imp.). 1 year old ; E. S. Kelly,
Xellow Springs, ohlo
 Roan Lady (Imp.), a years ; F. O. Lowden 800 Sea
Oregon,
Ryckmand
Imp. Ryckman's Corners
Clementine (Imp.), 2 years ; Wm. Hendrie, Hamilton ..................

 Sea Shell (imp.), 2 years; Mm. A. Mendre Agrie (race (imp.), 5 years ; Thos. Brigham....
 $\operatorname{mean}_{\operatorname{man}}($ Beauty 2nd (Imp.), i year; J. Pollard, Rosemary
grove 21 tht ( (mp.), 1 year: E. Binkley, Mill
apolis
apen (imp.), 1 year; H. F. Brown, MinneVillage Beauty of Ilderto..................................... 4 years; Ross Murray, Rochelle, Ill. ................................ \& Mina of Kyres (imp.), 1 year; Andrew Pettit... 355 Pearson, Son \& Co., Meadowvale year, S. J. Merry Girl 8th (imp.), 2 years ; T. L. Pardo. 340
Cedar Spri.......... Missie of Avondale 3rd, 2 years; Ro................................... 330 Sappho 2nd (imp.), 4 years; Ross \& Murray. 315 Liberty, Mo. ............................................. 310 Augusta Queen 3 rd (imp.), 10 months; Uriah Pierc............... 10
Mt. Amaranth C 2nd, 1 year ; W T Wylie......................................... 305 Fancy 8th (imp.), 5 years; A. Lawrence, Thames - 305 ville .......................................................... 300 Scottish Primrose 2nd 6 years; T. J. Wornell..... 300 Hodgins, Hazeldean (imp.), 2 years; J. J avender Drop, 1 year; Wm. T. Wy..................................
 Rosebud 12th, 1 year; J. J. Barron, Carberry............ 235
 Kirklevington Bloom, 4 years; Wm.................................... 225
 Caroline C, 1 year; A. Gardner, Leadbury................. 205 Mavis, 2 years; W. A. E. Bowman, Berlin........... 190
Duchess of Glas, Caledonia........ 185 Dryden \& Sou, Broolst, 10 months ; John Lady Delmark, 2 years; F.W. Harding. Wau-
Kesha, Wis.
Mina C,
 Rosie Leslie, 2 years; Robs. Millers, Stouffille.. 150 T. L. Pardo........... 130 Victor of Dalmeny (imp.), 1 year ; E. J. Steven-
son, Detroit
Magistrand (imp.), 2 years ; Thos. Brigham............................ 825 Old Lancaster (imp.), 10 months ; Heintz \& Son, 625
Fremont, Ohio...... 825 Carnegie (imp.), 1
Proud Gift (imp.), year; T. L. .............................. 600
600 field (ift (imp.), 1 year; John T. Gibson, Den-

 | The Patriot |
| :---: |
| Hagersville (imp.), |
| 10 months ; R. Nich........................................ |

 Donald \& Son, Omagh .............................. 230 Clarified Prince, 1 year; John Davidso....................................... Ashburn. 160
Spring Grove Wanderer, 12 months; F. W. Harding ............................................................ 155 Hillsburg King (imp.). 4 years: D. McMillan. Marengo's Victory,
manville $\quad$ year; G. Galbraith, Bowmanville,...................................................... 125

## President G. C. Creelman.

The Ontario Government lost no time in namAgricultural College President Mills of the Ontario ., the well-knowne, Mr. G. C. Creelman, B. S. stitutes, being appointed andent of Farmers Infanuary 22 nd the he nature of a surnouiso appointed President is to to many. The newlyst, at the same salary ta eesidence. Mr. Creelm as Dr. Mills, $\$ 2,000$ and on his father's farm at was born in May, 1869, that he is now in his 35 th year Ontario, so was of Scotch and his both natives of Nove Scotio. Hish ancestry, tion was obtained at the tublic ais early educaand in 1888 he graduated and high schools, course from the Ontario ater a three years Subsequently, he took summer vacation College. botany and horticulture at america courses in After his graduation he was ampointed colleges. and, subsequently Profecsor appointed Assistant, State Agricultural and Mechanical Collegy in the issippi, from which institution he Colege of Missgree of Master of Science. Mr. Creelmed the de married Miss Ada, the eldest daughter in 1893 Mills. In 1899 Mr. Creelman assumed of Dr. Ontario, which situation he has occupied with very general approbation ever since, being also
Secretary of the Ontario Fruit-growers' tion and Director of the two Provincial AssociaSchools. In addition to the forevoing Dairy cations, Mr. Creelition has the the advantaing qualify

## MARKETS.

## Toronto Markets.

Market prices for the past week may be said to
have been nominal. The condition of both the country have been nominal. The condition of both the country
roads and railroads has seriously interfered with marketing. As a consequence of these conditions, some lines of produce have shown considerable strength,
notably export cattle, wheat and poulry cattle show a real scarcity, apart from the effects of several shipments being delayed en demand, owing to Wheat, apparently, owes its strength to the confidence in the speculative market in Chicago. Last week, May options went above 92 for the first time since th famous Leiter corner in 1898 . Holders throughout
Ontario seem to have got scent of dollar wheat are holding their supplies, with good prospects an reaching the century mark. Enquiries from all ove the Province as to the prospects for dairy butter in rolls indicate that large supplies are ready to come clination to accept cheerfully anything but the choicest grades, lower qualities going to the bakers at much reduced figures. Hog prices hover around $\$ 5.12$, with future prices very uncertain. Local offers throughout
the Province hold about $\$ 5.00$ market are : Exporters.-Best, $\$ 4.50$ to $\$ 4.75$ per cwt . ; medium,
at about $\$ 4.25$ to $\$ 4.50$.
Export Bulls.-Choice quality, $\$ 3.75$ to $\$ 4$ : medi
um to good bulls, $\$ 325$. Export cows, $\$ 3.50$ to $\$ 3.75$.
Butchers' Cattle.-Choice picked lots of butchers 1,100 to $1,175 \mathrm{lbs}$. each, equal in quality to the best exporters, $\$ 4.30$ to $\$ 4.50$; good, $\$ 4$ to $\$ 4.25$; fair to good, $\$ 8.60$ to $\$ 3.85$; common, $\$ 3.15$ to $\$ 3.30$;
rough to inferior, $\$ 2.25$; canners, at $\$ 1.75$ to $\$ 250$ Feeders.-Steers of good quality, 1,050 to $\$ 2.50$. 1.150 lbs. each, $\$ 3.50$ to $\$ 3.80$ per cwt .
Bulls.-Bulls for the
Bulls.-Bulls for the distillery byers, $\$ 2.50$ to $\$ 3$.
Stockers.-One year to 00 lbs each, $\$ 275$ to breeding quality, of same weights, $\$ 2$ to $\$ 250$

Milch Cows.-Milch cows and springers, $\$ 30$ to $\$$
Calves, $\$ 2$ to $\$ 10$ each, or from $\$ 4$ to $\$ 5.50$ per
Sheep, $\$ 3.25$ to $\$ 3.75$ per cwt. for ewes; bucks,
Lambs, $\$ 4.60$ to $\$ 5$ per cwt., and $\$ 5.25$ to $\$ 5.50$
choice ewes and wethers for export.
Hogs.-Best select bacon hogs, not less than 160
lbs. each, nor more than 200 lbs . each, fed and watered,
$\$ 5.12 \ddagger$ per cwt ; ; lights and fats, at $\$ 487 \mathrm{c}$. $\$ 3.50$ to $\$ 3.75$; stags, $\$ 2$ to $\$ 2.50$. $\$ 4.87 \mathrm{tc}$; sows PRODUCE.
Wholesale Prices
White and mixed, 80c. to 81 c . for milling . No. 1, east. Goose is quiet but firm, at 72 c . for No 2, east.
No. 1 northern, at 91 c . to 92 c . is quoted at 94 c . No. 1 northern, at 91 cc . to 92 c .; No. 2 northern, at
track, lake, and ports. No. 3 northern, at 85 c . to 86 c ., on track, lake ports. Miliing-in-transit price for each
grade 6c. more. Corn.-Canadian is dull at 38 c. for yellow, and 37 gc .
for mixed, cars west. Old Amerlcan ts stendy
 unchanged at 51 c . for No 3 yellow, Toronto. New is 50 c . for No

30hc. middle freights, and 29 itc. high freights. freights,
white are white are quoted at 1c. less James Mills, I ustrations.
The Imported Percheron Stallion 120 Prink. of Me..... $\qquad$ The Late Wm. Cochrane, Claremont 123 Mating J. N. Paget, 127 A Breeders' Organization Barley.- No. 2, 43c., mlddle frelghts; No. 3 extra, ${ }^{\text {Hay }}$ and Straw-
41c., middle freights, and No. 3, 38c., east or middle
Hay, per ton freights. Rye-No. 2, 53c., low, middle or high freights. Hay, per ton Peas. - No. 2, 62 c ., any freights. $\qquad$

$\qquad$ 6.00
9.00 to 10.00

Potatoes, per bag ……….......... 80.80 to $\$ 0.85$
Aples, per bbl. \$3.25, in buyers' bags, f. o. b., main lines west. Ex- PQultry80 to 150 porters are bidding $\$ 3.10$., Manitoba
patents patents are quoted at $\$ 4.65$ to $\$ 4.90$; second patents, $\$ 4.50$, bags included, on the track. Toronto $\$ 4.25$ to Mill Feed.-Ontario shorts, $\$ 16.50$ to $\$ 17$; bran, is unchanged in bulk, cars west. Manituba mill feed is unchanged at $\$ 20$ for shorts, and $\$ 18$ for bran, in Oatmeal-Bags are sclling track here.
$\$ 4.8 \Sigma_{\text {, in car lots, on the the track, Toronto. Broken }}$ lots are quoted at 30 c . more.

Spring chickens, per pair …........ $\$ 1.00$ to $\$ 1.50$ Turkeys, per lb. ....... 1.00
13
10
10 Geese, per ib
Dairy Produce

Butter, pound rolls ……............. 80.20 to $\$ 0.23$
Eggs, held

Dealers report SEEDS.
essed hogs, $\qquad$ $\begin{array}{rrr}35 & \text { to } & 40 \\ 6.75 & \text { to } & 7.25\end{array}$

Dealers report an easier fecling in all classes, he-
ause of the limited export trade quoted at the limited export trade. Red clover is declined 50 c . per cwt . for the low grades, but is has er cwt. dearer for choicest samples. Red clover is better selling at $\$ 5.50$ to $\$ 6$ per bushel, with slightly $\$ 4.25$ to $\$ 5.50$ per bushel, and somewhat hisher wout be paid for extremely good samples. Tiunthy would g. according to quality, at $\$ 1.50$ to $\$ 3.25$ per

Beans.-The market is about steady at \$1.40
track, for prime pea beans, and $\$ 1.45$ in smaller lots
Prices are still a little quantity offering is pretty large.
Honey. -There is
Honey.-There is a good demand
strained is being offered in 7 c . in 60 -pound tius for dark jobbing prices being about 10 c ,

```
    Hay, baled, car lots
```

    Sressed hogs, car lots
    Dar
Potatoes, car lots
Butter, dairy, pound rolls
Butter, tubs, 1 lb
$\begin{array}{lll}\text { Butter, creamery, pound rolls.................... } 16 \text { to } & 18 \\ 21 & \text { to } & 17 \\ \text { Butter }\end{array}$
$\begin{array}{llll}\text { Butter, creamery, pound rolls....... } 21 \text { to } & 23 \\ \text { Butter, bakers', tub } & \text { coxes ............ } 20 \text { to } & 2.2 \\ \text { Bater }\end{array}$
Butter, bakers', tub .....
Eggs, new-laid, dozen
Held eggs, per dozen
Teld eggs, per doze
Geese, per päund
Ducks, per pair
Ducks, per pair
Chickens, per pair
Honey, per
Honey, per pound
Neans, $\$ 2$ per pushel, and medium, $\$ 2$ are: Choice,
letail prices, Toronto street marbet
Wheat, red, bush. ..................80.863
Wheat, white, bush. ........
Wheat, white, bush
Wheat, spring, bush
Wheat, spring, bush.
Barley
Beans, bu
Beans, hishd-wicked

## Canadian Live-stock Shipments.

$$
\begin{aligned}
& \text { and Portland. Me. for week ports of St. John, } \\
& \text { and }
\end{aligned}
$$

$$
\begin{aligned}
& 1904 \text {, as compiled by Robert Bickerdike \& Co, I.t. } \\
& \text { Dominion ILivestock Fxchange, Montreal: Catile }
\end{aligned}
$$ 1.408: sheep, 3.374 Fxchange, Montreal: Cattle

Liverpool Apple Market
$\qquad$
$\qquad$
$\qquad$



## British Cattle Market.

for American steers. dressed weight. to 12 c . per ib .
 per ib. Sheep, 1

## Chicago Market

$\$ 4.85$ to $\$ 5.10 ;$ to $\$$ good to chors-Mixed and butchersrough heavy, $\$ 485$ to $\$ 5$; lipht. $\$ 460$ to $\$ 5.15$rough heavy, $\$ 485$ to $\$ 5$; light, $\$ 4.60$ to $\$ 4.95$wethers, $\$ 4$ to $\$ 4.40$; fair to cholce mixed, $\$ 325$

## Buffalo Market.

shipping butchers', $\$ 4.50$ Prime $\mathbf{~ s t e e r s , ~} \$ 5.10$ to $\$ 5.50$
Hogs-Henvy $\$ 5$ veals, $\$ 6$ to $\$ 7.75$Hogs-Heavy, $\$ 5.30$ to $\$ 5.35$; mixed, $\$ 5.25$ to $\$ 7.75$Sheep and Lambs-Lambs, $\$ 5.62$ to $\$ 5.65 ;$ yearlings
$\$ 5$ to $\$ 5.50 ;$ wethers, $\$ 5.65 ;$ ewes, $\$ 4.35$ to $\$ 4.40$
$\qquad$
Alsike, fancy
Red, chnice
Red, fancy
Ded,


28, 191934,
Stockmen in Gcod Heart
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## Montreal Market.

Montreal.-Cattle-Choice butchers', $\$ 4.25$ to $\$ 4.50$
Buod, $\$ 3.25$ to $\$ 4$; medium, $\$ 2.25$ to $\$ 3$.

## Horses for Japan


Red, fancy

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## A FAIR BARBARIAN <br> <br> - RBARIAN

 <br> <br> - RBARIAN}is now June. I have not yet found it
necessary to apologize for you on the necessary to initiative, and set an evening took the Caining Miss Belinda and her for enter company with several other ladies, with the best bohea, thin bread and butter Capt. Barold turned to confront her,
ovidently $\left.\begin{array}{c}\text { Mr. . Francis Barold dropped his eye } \\ \text { gnnoyed at haverously, and at once lapsed }\end{array}\right]$ expression died out of his of him. All condition by no means favorable to was a "o I travelled with her from Framwich should have reached. "I suppose
slowbridge to ford to get a a 1 dropped off at Stam-
nefpaper, and the train "O grandmamma!" exclaimed Lucia. who had turned to look, "how very
pretty she is !" Miss Octavia certalnly was amazingly a rosebush again, and was dressed in cashmere morning-robe of the finest tex-
ture and the faintest pink: it had a Watteau plait down the back, a jabot of frills of the front, and the close, higg
fle around the throat which seemed to be a weakness with her. Her
hair was dressed high and showed to advantage her her head, the frills did not conceel white neck as But Lady Theothald did not share " "She looks like an actress," she said. the roses artificial, one might have some is scarcely what we expect in Slow Then she turned to Barold yesterday. not pleasure of meeting her she said. "She had diamonds in her Her manner is just what one might expect from a young woman brought up
among the gold-diggers and silver-- It struck me as heing ary and interesting manner,"" said Capt.
Barold. "It is chiefly noticeable Cor sang-froid which might be regarded as o tell me all about her good enough silver-miners, and I really found the con"ersation entertaining."
young women to customary for English
line confide in their mascuravelling companions to such an ex"She did not confide in me at all," said Barold. "' Therein lay her attrac-
tion. One cannot submit to being 'con-
fided in, however charming. This young woman, remarks were flavored solely with an
adorably cool candor. She evidently did whatever." to appeal to any emotion And as he leaned back in his seat, he
still looked at the picturesque figure noth they had passed, as if he would
not have been sorry to see it turn its In fact, it seemed that, notwithstandmake remarks of a nature objectionable to his revered relation. On thelr way they passed Mr. Burmistone's mill, which was at work in all its vigor, with a whir "Ah!" "ald Mr. Barold, putting his



had gasped. "Don't-dun't read it, my
love. L-let someone else do that.
Poor-poor child ! Trust in provideace Poor-poor child! Trust in Providence,
my love, and-and bear up. Ah, how I
wish I had a stronger mind, and could
be of more service to you !,
it is my mind," answered my lady, Octavia. a message from father," said
He's all right. Nothing is the matter
He got day." all right. He got in on Satur "Ah ! " panted Miss Belinda.
you quite sure, my dear-are ". That's what he says. Listen."
Got in Saturday Shares looking up. May ber met me your months. Will May be kept here
$\qquad$ ". Thank Heave sighed Miss BelinWhy ?", said octavi my dear, if you knew Belinde. "Ah
was ! I felt happen felt sure that something bad I never received cable message, my dear 1 never received a telegram in my life
before, and to receive a cable

much like any other to me it is pretty much like any other message."
Miss Belinda regarded her timi " Does your papa often send them. she inquired. "Surely it must be ex " I don't suppose it's cheap," Octavia replied, " but it saves time and worry.
I should have had to wait twelve days.
"but "- She broke said Miss Relinda,shake of the head. Her simple idestesed economy and quiet living were frequently upset in these times. She had begun to of awe ; and yet octavia had noting doing anything at all remarkable in her own eyes, and considered her life pretty
If the elder Miss Bassett, her parents and grandparents, had not been so
thoroughly well known, and so uni-
versally respected, versally respected; if their social posiand their quiet lives firmly established, respectable,-there is an awful possibility that Slowbridge might even have gone to tea at all. But aven Octavia out felt that it would not do theobald Belinda Bassett's niece and guest. ${ }^{\text {To }}$ omit the customary state teas would linda at a blow crush innocent Miss Bethe medium of this young alone deserved condemnation-beyond the
"It is only to be regretted," said her ladyship, "that Belinda Bassett has not such an order are certainly to be de-
and
In secret Lucia felt much soft-hearted
sympathy for both Miss sympathy for both Miss Bassett and her
guest. how Miss Belinda became responsible for the calamity which had fallen upon her. had been previously consulted as that she kind of niece she desired, or that she had, in a distant manner, evinced a
preference for a niece of this description. "r Perhaps, $\begin{gathered}\text { dear } \\ \text { girl } v e n t u r e d, ~ " ~ i t ~ i s ~ b e c a u s e ~ m a m a, " ~ t h e ~\end{gathered}$ tavia Bassett is so young that "-
"May I ask," inquired Lady bald, in fell tones, "how old you are?",
"I was nineteen in in "Misas Octavia Bassett,", December."
shid her lady-
". What do they do at such delicacies.
asked Octavia. "Hat auch places?"
abe spend some time at the teatable, my dear,"" explained Miss the tealinda.
"And afterward we-we conver few of us play whist. I do not. it get flurried too easily by enough, and I ." Inion." ing," should think it wastavia. ". I very axcitever went to an entertainment where
they did nothing but they did nothing but drink tea, and be exciting, my dear," Miss or desire to pe exciting, my dear," Miss Belinda re
plied with mild dignity. "And an im-
proving proving conversation is frequently most "I'm afraid," Octavia observed, "thet I never heard much improving conversa-
tion." She was really no fonder of masculine society than the generality of girls; but Would be any young men present, and if indeed, there were any young men in Slowbridge who might possibly bo pro-
duced upon festive occasions, even thongh ordinarily kept in the background. She had not heard Miss Belinda mention any masculine name so far, but that of the
surate of "St. James's, had seen him pass the and when sho not found his slim, blacks, she hare, and faint, ecclesiastic whiskers, espectally
interesting. It must be confessed that Miss Belinda
suffered many pangs of anxifoty ing forward to her young kinswomante Lrst appearance in soclety. A tea at
Theobald's hous. formal presentation to the constituted world. Each young lady within the years of genteel soclety, having arrived at years of discretion, on returning home at Oldclough Hall. During an to toe evening, she was the subject of watchfol criticism. Her deportment was. she performed her herlishments displayed, she periormed her last new "opliayed
upon the piano, she was drawn into versation by her hostess ; and upon the timid modesty of her replies, and the pended her future social attitudes, dowas very natural indeed that Mo it linda should be anxious.

## Be Moderate.

A great writer tells us that " moderation is the inseparable companion " moderation is another writer says running through the silken string virtues." When we try to do to ourselves thins ance we are unfitting ness which holds practical usefulwoman of affairs. She is a wid upon herself no more duties to take fully She to properly and successand strength but saves her health factory and her pleasures is thouigew, are thoroughly enjoyed. Indead there is no greater blesssing than
well regulated lifo,


Dear Friends, -
To-day I have the privilege of giving you two of the essays which were last competition. The first gives the question, "How to En ther' We think the observation that the species of amusement must be suited to the taken. There is little use of forcing on one what one has positive dislike or. At the same time, as "Farm to a great extent, to lead children to like advisable forms of recreation, one of which most certainly, is the habit of reading, and of choosing it must not be forgotten that it is ust as necessary to train the bookish hild to like taking physical exercis regularly. The parent,

How to Enjoy the Winter By a Farmer's wife, Laurel, Ont. s varied as the character of the individu als for whom they are planned. What to another would be an irksome task. One bcy will delight in games, another must have skates, while a third can only be ontent when training his favorite
oteed. While endeavoring, to a certain stent, tc cater to their fancies, and allow them to indulge in their favorite pastime, it should be our aim to cul-
tivate in our children a taste for more tivate in our chil
enduring pleasures

C Reading, for example, is not do pendent on any season, age, habits or
conditions of life, but may be enjoyed年 young and old, rich and poor alike, or, while the tastes which require physical strength decline with age, that
for reading steadily grows. It is also pleasure which enhances many others; t edds to the pleasures of society, of
ravel, of art, and leads us to take a greater interest in w
the world around us.
. I would suggest as one of the first
equisites to a pleasant, profitable and interesting winter, a definite plan of
a work, something to accomplish which we
have never done before. If school boys have never done before. If school boys
or girls, we can aim at reaching a cerbe. standard in our studies; or, it m
be, we can take the initiative steps
learning some trade or profession. older, we can plan, arrange, and per-
haps accomplish some improvement in
our buildings or home surroundings, but "In the country, for the young people,
lot us do something." "In the country, for the young people,
and young-ctld people, a literary society
could be formed or organized. Meetings
could be held essays writs, could be held, essays written, debates given, and subjects appointed fur dis-
cusion. ${ }^{\text {I mpromptu }}$ speches are very helpful in training us to express our-
selves readily and fluently, but a definite subject should be taken, that time be
not wasted in talking at random. We might choose for discussion subjects such as the following: 'Education: What Education '; The Novel: Its Origin and Use '; Canadian Poets and Poetry';
'Canadian Statesmen of the Nineteenth
C Century, or any Century," and many
others would arise from these. Do not attempt too much in one evening. Do not
Have
with your discussions interspersed. $\begin{gathered}\text { with } \\ \text { nusic, vocal and instrumental. A wise }\end{gathered}$
" The evenings spent in preparation;
rom the gatherings ; the consciousness
that you are improving yourself, and, it
may be, contributing a little to the
happiness of others, must be a source of
unalloyed pleasure. I have described
only one form of amusement for winter evenings; many others might be
gested, but time will not permit us dwell on this very attractive theme."

> Our second essay has evidently
been written by an enthusiasti been written by an enthusiastic this letter very much, and must congratulate
her faculty
of
of being able form pretty solid judgment on that which she reads, as well as her and crisp words. Perhaps Miss Mc- Tavish would like to hear what a


## The Advocate

 in the Home.That the Farmer's Advocate is fast becoming the women's paper as well as the men's, is very clear to us from the numbers of letters filled with praise of it which the women send in to our offices. One woman wrote recently: "We have to drop some of our papers, but the Advocate will not be one. We find it to be the greatest help to us." And this is only a sample of many that we receive. We are glad to know of this appreciation, and assure our readers that we are trying in every way to deserve it. We are sparing no expense to make the Farmer's Advocate the most attractive and useful paper that enters the farmer's home. Indeed, few people, perhaps, have any idea of the amount that it costs to run a thoroughly highclass paper such as ours. But we are determined that the Farmer's Advocate shall maintain its position at the very top. We ask the readers of the Home Department to tell their friends of our paper and get them to subscribe for it. Push the Advocate. You will be helping both your friends and adding to the welfare of the country by doing so.
ont an exceedingly good essay, bu its extreme length militated agains space, and our ever-increasing number of correspondents, I find it ut terly impossible to find room fo very long articles, no matter how much I shountioned the advisability of writing fairly short essays when setting the competition, but am afraid some of our correspondents lorgot all about it. However, Mon forget next time.

## Another Ingle Nook Friend <br> Doticing, in the issue of the seventh,

 request for the simpler and easier method of breadmaking than that sent to Ne Ontario Boy, I send the three-gallontried. tried recipe: cups of flour, one cup of salt and one cup of sugar, pour boiling water over this, about three quart stir thoroughly. Add four cups of gradually warm water, until the crock is three parts full. When lukewarm, add one Rcyal yeast cake, previously dissolved in warm water. Cover the crock, and keep in a moderatery warm hove to cellar and keep from freezing. This will keep a month or until used Take three cups of this yeast, add a
little more salt and three quarts of little more sait and three quarts a
warm water (this will make a large
bat make the water quite warm, or warm the flour Stiffen this ready to mold; cover closely, for molding early in the morning. Knead in the pan, then turn on a warm board knead again, as much of the succes depends on this. The better way is to molding. lay on one side of board until all has been gone over in this way; then commence at the first and shape inta loaves for the pan. Set in a warm
place to rise. This method is simple and easy, and any farmer's wife who ands breadmaking a task should give it a MRS MARY E BYCRAFT

We are very grateful to Mrs. Byequest, and dare to hope she will come again with many other practical suggestions. In conclusion, may I ask those who are writing on our new Thing I Ever Heard of," to make their essays as short as possible, the last day of To have them in by Darme DURDEN.

Domestic Economy.
solid food aids the system to throw off a cold.

Cloths (flannel) wrung from hot water often relleve neuralgia and u hicco
If hiccoughs do not yield to the slowly, take a small piece of sugar and dissolve it gradually on the
tongue. tongue.
Heartburn can be immediately got rid of by taking cream of tartar,
about half a teaspoonful in half a glass of water. It makes a pleasant effervescent drink, cooling to the

The best treatment for a bruise is an immediate application of hot hazel, vinegar and hot water or alcohol and water, put on
bandage and often moistened.

Sprains require prompt treatment, Immediately on receiving the injury bathe the part in water as hot as
can be borne, and then swathe in compresses of witch hazel, changing
as each becomes dry

Travelling Notes. Christmas, and New Year's, too, will both have come and gone be
fore my notes can reach our readore my notes can reach our read have "foregathered" without the aid of Atlantic cable or Marconi's wireless telegraphy, for we shall in
spirit have wafted our good wishes across the waters, and we shall have received in return, yours for us, just as certainly as it we had heard the vords with our mortal ears 1 think I have already described some eighteen months ago to same ome the places upon our present list: therefore, to these I must make but brief allusion now. Should a little repetition occur here and there will be caused by my not having
with me my old notes, and on that plea I hope to be excused. Our plan on leaving home was to see what we could of Antwerp, Brussels, Cologne, the Rhine, Heidelberg, Minich, Rienna, Nice, Geneva, Berne Lucerne, and Paris, "and then," said one of us, " probably the poorhouse for the rest of our lives.'
We are now, on 21st December, at Heidelberg, on the point of starting Christmas. We had a delightful stay of a week at Brussels, a most lovely place, and well worthy of more visite than one, for not only are second impressions often more lasting take in at one view all there is to sce anywhere. Brussels abounds in places of interest, and in treasures of immense artistic value. It has thousands of pictures in its art galamonget the most striking of which was the Hotel de Ville, or Town Hall, where, for the small fee of 50 centimes, or 10c., one is shown over by the law of the land, every one, without exception, has to be married, whether or no they have gone, or intend to go, through a religious ceremony besides. We three spinwitnessing one of these functions, at which, in short order, for it did not last longer than five minutes, ten couples were married at them with the magistrate dismissing them with what seemed to us a ${ }^{\text {inction, "to sort themselves," an }}$

THE FARMERS ADVOCATE
easy and pleasant task enough fo ly did not hold hinself responsible The couples walked away, arm in Some were rich, some were poor, but let us hope that they all may be greatly interested in the lace factory) from whence comes the beautiful
Brussels lace so dear (in senses than one) to the heart of woman. We were shown the pat tern of the wedding veil made for the Princess Beatrice, which took
200 women, working constantly for 200 women, working constantly fo
seven months, to bring to perfection. On asking the scale of wages paid to lace-makers, we were told that they were very sinall, ranging from 15 c . to 30 c . per day. Thin Canada, and thank God for casting your lot where honest toil meets its fair reward. It seems an anomaly, that with this pittance paid to the
toilers, lace can be purchased for far less in old London. My cousins were amused at some of the "curious ways " of the people amongst whom we found ourselves, many them not without their advantages, for instance, the hanging of mirrors such an angle that they can see what is passing in the street without rising from their chairs, and also beringers at the door-bell before giving admittance. They were struck, as I had been, with the general use of dogs in drawing the small milk and vegetable carts, and even of cows, being put between the sharts
of a vehicle large enough to carry a whole family at one time. I would not imply that there was any cruelty shown. No, indeed, on the contrary, the good moolie in cold
weather had usually a warm blanket weather had usually a warm blanket
strapped across her back. Perhaps we were more unpleasantly impressed by seeing the very hard and unwomanly work which women have to
do in Germany, and the exposure to do in Germany, and the exposure to
which it subjects them. We saw them in the fields plowing, spreading top-dressing, and grubbing up the roots from the cold, hard ground, work which must be a great strain
upon their strength, or so it seemed to us, but which appeared to be undertaken uncomplainingly enough. Two days was all we could give
to Cologne, some hours of which' we
naturally devoted to its wonderful cathedral. On our way thence to Heidelberg, our train skirted the Rhine, entrancing us with its ro
mantic scenery; each of its numberless castles having its story to tell, but none with greater romance sur rounding it than that of stately Heidelberg, this garden of Germany We three tramps are getting on grandly. Nell, more and more charmed with each new place, never wants to move on, and only once ". going straight back to Australia," and this was because she was cold. In England she was always returning by the next ship, notwithstanding she has a round - the-worla
ticket. sight-seer, poking her nose into everything, until I am beginning to be alarmed lest she may find her way into the lockup, for infringing one or more of the many rules which in One day we had about six officials chasing us, because we had crossed a railway track and got upon the wrong platiorm. It was very droll, were saying, and vice versa. However, when once they had got us fairly "rounded up", and into the right place, they laughed, and we laughed, and so the episode ended,
not only peaceably, but hilariously. not only peaceably, but hilariousty.
I expect to date my next notes
from Munich. from Munich. $\qquad$

## The Doctor.

This beautiful and touching piccure, by the celebrated artist, Luke widely is well known, and has been tells a story which goes straight to the heart. There can be but few who do not feel a thrill of deepest who, in with those grieving ones who, in wordless agong of suspense,
await the verdict, "To live" or
"to die"? The unconscious child lies hovering on the brink, and seems as though already gone over to that great and mysterious beyond, so in ness. Bre this is not death weak there sits one who, with rare skill, helped by God's mercy, is straining every nerve to bring back to strength this frail flower. The whole figur
forceful to a degree, as he watches that young face, the light thrown
upon it from the raised lamp-shade. The poor mother, with head bowed on her arms, is unable to look longer upon her darling. The father seems as though compelled to look, kind and noble face, so full of strength and self-control, will stay at his post unflinchingly, and will make no sign until he is sure, and we hope those who love her There is so much artistic merit in this picture, that one might linger long over its discussion. The wonderfully nalds its a the child's somehow it seems almost sacrilege to analyze thus. The picture is simply a grand study in human nature, and is mastery drawing stands
ception.

## The Twins at Culleston Manor

## in 1685.

It was not for a few years after their first visit to Culleston that story, with its mingling of pathos and wasted heroism, of those other twins of the picture, Dorothea and forth always called "t the brave little great-grandmothers." Nurse had related to them enough to arouse in their minds a very keen interest, as well as a sense of pride, in belonging to a family which had taken part in and a half ago, und this interest was accentuated when their great-aunt, Rebecca. Lemorne, sent them as pupils to the time-honored old school on Castle Green, which, in spite georation after generation of the daughters of the county families of Somersetshire and to be educated at which conferten upon every pupil.
As they passed through the curiousyy winding corridors, stepped up and down stairs placed in unexpected fidences in the deep embrasures of small-paned windows, or sat upon the backless benches (for what giri at that time could possibly requir any support but her own backbone ?) for their hours of study, the whole place was peopled for them by the twelve which formed the contin gent contributed by their
school to the long procession of
dressed in white, who
gith dressed in white, with Mon-knots of blue-bearing ach a flag and following the banner their hands had wrought, with its fatal insignias of a royalty to
which he had no claim marched to welcome the rebel Duke to Taunton in 1685. Monmouth had but lately landed in England to bring, as it was claimed
for him, religious freedom and every other kind of freedom in his train. How miserably he failed, how much suffering, how many
lives, including his own, lives, including his own,
were the price of tha , huge mistake, is a matter of history, but about which history gives only a very brief account, ing it to the local records, old family diaries, and mouth-to-mouth tradition to tell the tale.
This is the summing up surrection of Monmouth surrection Argyle ; both executed. Judge Jeffreys' Bloody Assize. In the Bloody Assize the King's revenge was wreaked ior Monboasted that he hald hanged more traitora than all his predecessore ilince
circuit, 300 were hanged and 800 sold into slavery in the West Indies,
100 were awarded 100 were awarded to the Queen, and
the profit she made on them was 1,000 grofineas. Ghe made on them was
great sums wer realized by the judge himself and Twenty-four (some say twenty-seven young girls of Taunton who presented
flowers and banners to Monmouth flowers and banners to Monmouth
when he entered their town, were arwhen he entered their town, were ar-
rested and given to the maids of
honor of the court as their share of the spoils. Two thousand pound were paid for their escape.
Truly, even thus pithily told, has tragedy within it?
SOME RECORDS FROM THE OLD CABINET AT CULLESTON.
Dorothea writes: "June 20th, Dorothea writes: " June 20th,
685 , Castle Green School. -My flag 1685, Castle Green School.-My flag
is finished at last, and I have been is anished at to help Bettina with hers, There was more work on hers than on mine, because she had to embroider the arms of Taunton, whils
mine was just a drawn sword and mine was just a drawn sword and a
motto. We chose our own designs and some were mightily pretty ones, zach meaning more than did seem at a glance. That with the biggest meaning of al oh, ir our cause is lost, it will go harder with our dear little Letitia Lamorne than with the rest of us. For though we keep saying, older girls do know that there may older girls do know that there may
be real danger for us, even in the very small share we are allowed to take in England's great deliverance. You see there is such a mighty enthusiasin
over the whole countryside, men, either duly equipped with arms or with no other weapons than scythes and reaping hooks; men on horse back, men on foot, men springing up
like mushroous by day-dawn from hill and dale, shouting, A Monmouth ! A Monmouth !', that we be lieve the cause is as good as won al ready. The King's militia have known to be Royalists keep within doors, and it is confidently asserted that the King himself trembles on his throne. If it is all true, it will b
something, indeed, to be proud something, indeed, to be proud ol
that the maids of Taunton were al lowed a share in the hour o triumph.

Bettina writes
${ }^{\circ 0}$ The great day is over-a day, main in our hearts, whatever may betide. I thought no girl so sweet in face and graceful in carriage as sister Dorothea. No wonder tha she should be the favorite of the
mistress and pupils alike of Castle Green School; no wonder young Ned Halliday, of Barton Regis, never has eyes for any other when our
Dorothea is by, and no wonder was it to any one of us that the great Duke himself should single har out
amongst us all for a mark of amongst us all for a mark of
special favor. We, none of us grudged her the honor, least of all banner, and presented it with fitting words to him who was presently to be announced as King of England and whose proclamation was to be and shouts of rejoicing, in the market place of Taunton Town. I think too, we were all proud of our mis tress, as, with bent knee, she offere sword, both emblematic of the beneficient rule under which he pledged to his people his royal word that the should henceforth live and prosper. w. Alack a day ! What a fool's para dise we have lived in! What a jay in peacock's feathers has the Duke of Monmouth proved himself, and how deluded have been his followers ! It
is true that they nearly won the cause for which they fought, and which they honestly believed to be a just one and true, and they could
nay, would have won it, had not the weakest spot in their armour been the unworthiness of the man
whom thry had made their hero whom thry had made their hero
His vacillation, his pasillanimity-
nas, his craven

## brought to despair and death his safe, must be safe, with Mistress

 brought to despair and death his safe, must at Castle Green Schoul. battle of Sedgmoor has been fought But here comes news of them at and lost. My husband lies wounded, my sons are, where? But, thank
"In Due Season We Shall Season
Reap.
Having said so much lately about sowing, I will now give you some
selections from Miss Havergal' poem, "The Sowers," which throw some light on the joy of the harvest. One who though she had little to sow, but did what she could because words, spoken, or " traced with timid pen." Her seed sprang up, often unknown to the sower, and
She, who timidly had scattered Trembling the holy or whispered Till the holy work grew dearer,
And the sacred courage clearer, Now her Master's own voice heard Calling shining throngs around her All her own fair harvest found.
Then, her humble name confessing Then, her humble name confessing,
With His radiant smile of blessing With His radiant smile of blessing,
All her dower of gladness crownod.
One had planned to sow much seed, to fill broad furrows, and to watch it spring, and water it with care, but God gave him other and less at laborer was laid, weak and hing on a bed of sickness, but he was not idle. From that silent room floated winged seeds of thought and prayer When he at last laid down the heavy ful throng of happy souls.

Who art thou? I never
In my pilgrimage below
In my pilgrimage
Said he, marvelling.'
And what an answer he received when might he marvel and rejoice grown and increased. These are the words he heard

## Words that issued from thy chamb Turned my darkness into light Turned my darkness into light, Guided footsteps weak and weary Through the desert wild and drear Through the valley of the night. Come I for many another waits thee All unfolded thou shalt, see, Through the ecstatic revelation Through the ecstatic revela Of their endless exultation, What our God hath wro What o

Another consecrated his musical talent to the Master's service, and to him also came the joy of harvest.

Hark I a voice all joy-inspiring Peals down the golden floor,
Leading on a white-robed chorus, Sweet as flute, and yet sonorous As the many waters' roar. He who sang for Jesus heard it Said the leader. As we listene Sold hearts glowed and dim eyes glis. tened
And $w$
$\qquad$ Till the longing and the loving Soared to Him of whom you sang. Till our Alleluia, swelling,
Through the glory all-excelling,
ap the Jasper arches rang, One cast much seed on the waters, sowing often in weariness and with The tide of human hearts still ebthed Less like the fruitful flood than barren sea;
He saw not where it full
$\qquad$


| away, |
| :--- |
| aws seed, so swiftly biorn |

When he came joyfully forward
When he came joyfully forward
neet his Master's smile of approv and lay the full sheaves at his feet a glittering throng Joined him
.. Whose voice had taught them,
o the praise of Him who brought them in a new and rapturous psalm.
Another who longed to sow much
seed had no bright grains of thought or fiery words of power to give, so he sowed, prayerfully, the words of $\begin{array}{ll}\text { olhers-lending books or copying } \\ \text { helpful verses. } & \text { In the harvest tim }\end{array}$ he only verpes. In the harvest time, of others, but, to his great surprise Great and gracious words were spoken By the voice that thrills all heaven And mysterious rule was given
To that meek and marvelling one.
To that meek and marvelling one.
A little child who loved the King cattered seeds or lore and joy, show ing a wondering world how glad an ways holding the Father's hand an looking up into His face. He, to found a rich harvest, for
Aged ones and feeble mourners
Felt the solace of his smile.
Felt the solace of his smile;
Hastened on with footsteps lighter Battled on with courage brighter,
Through the lessening 'little while,'
Till they, too, had joined the me
sions
Where the weary are at rest.
Could that little one forget them
Oh, how joyously he met them
In his dear home safe and blest
And the Saviour who had called hin Smiled upon his little one;
On his brow, so fair and tender On his brow, so fair and tender,
Set a crown of heavenly splendor,
With the gracious word, With the
One who had spent years in a stil darkened room, patiently endurin thinking that she could sow no speak no words for Christ, only "suffer and be still," found that she aso had a share in the great harves song. Round her, too, were pile golden sheaves, although she had others and no use at all.
' Thousand, thousand-fold her guerdo
Thousand, Thousand-fold her bliss । While His cup of suffering sharing,
All His will so meekly All His will so meekly bearing,
He was gloriously opreparing He was gloriously epreparing
This for her, and her for this."
God sends many laborers into His vineyard, but he does not give them all the same work to do. Some of King David's men were, on one oc-
casion, unwilling to share the spoils of battle with some of the spoils rades, who were faint and weary and unable to join in the fight. David settled the question, and made it a law in lsrael that "A As his part is shall his part be that tarrieth by the was only enforcing God's command to Moses to " divide the prey into the war upon them, who went out to battle, and between all the congregaNo one can stand alone. One may he called to preach to great congreless interesting work of cooking his meals and keeping his house comfortable. Surely the person who does the necessary housework, leaving the preacher free to prepare his sermons preach. Only God knows who will reap the
richest harvests, but surely a great many people will be surprised on
that day. Some who feel satisfled that they have sown much seed may find that they have been watering with pride and vanity, instead of can give the increase, and He loves to honor meek soule who seek to glorify Him rather tham themselves.

## The Right Way.

Dr. Norman Macleod lost his way as he was going to a place called Dafflin, to christen an infant, when he met a herd-boy, and the following conversation took place
. There's gaun to be a fine shine at the Dafflin th' neet.'
" Aye, what's going to be up at the Dafflin

The meenister's cumin' to bapteese the wean. l've got the cookies Norman did not tell the lad that he himself was " the meenister "' in question, but said, ' Noo, how d' ye get a livin'
". Oh, I'm just a herd-laddie. split the wood, und carry the water,
and bring the kye hame, and do just what l'm telt." moment's silence. There was a moment's silence.
Then the boy, turning to Norman, said, with a mark of interrogation in each eye, "' Hoo d'ye get a livin'
.' Well, that's a fair question. asked ye how ye got a livin', and ye telt me; now, l'll tell, ye how I get a livin'. I get a livin' by tellin' folk like , and young to heand little folk like ye the way to heaven. and
That little boy stood still and simply screamed with laughter. His laughter was uncontrollable. He was
doubled up with laughter. When the doubled up with laughter. When the
tumult of merriment was over, he said to Norman. '. 'That's over, heo 'un." to Another burst of laughter, and then this profound inquiry, "Hoo can yo tell the way t' hivven when ye dinna
Chimes.

## The Old Rail Fence.

## Oh, those blithesome boyhood days With their happy truant ways

When every little sorrow
Excepting just one grief
That never found relief
From the terror of the "Old Rail
As soon as spring had came With the sunshine glowing warm, And we waited in to us For we knew that it was coming or we knew that it was coming
With the yellow hammer's drumming,
The moving of that ': Old Rail Fenc Through the warm bright days of spring The birds might build and sing But all of this, for us,
Was of little consequence For what was springtide joy To a luckless farmer boy When, midest summer's toil and strain There came a friendly rain
With its ever rladsonc With its ever gladsome promis That we, too, might go a fishing While fixing up some "old Rail
Fence., Then come drowsy autumn days When all nature seand their haze, From Harvest's toil intense, But our muscles can't relax Fence them with an "O Old Rail Fence The "Old Rail Fence" is passing ;
Oh, quickly speed the day
When the last When the the last rail
Foree thay

[^1]

Having a Good Time. Annette had always lived in the city, but last summer she was sent to visit her cousins who live on a
Canadian farm. Although the chilCanadian farin. Although the chil-
dren were all born in this country, dren were all born in this country,
the father and mother came from Switzerland, and they still have great faith in goat's milk. Annette was very pale and thin when she first arrived, but after living out of doors
for two months, running barefoot and drinking plenty of goat's milk, her cheoks grew as round and rosy as yours, my dear little country
cousins. Do you see how kind Herman is? He is very fond of his little cousin, and old Nanny looks pleased, too, and seems to under stand that she is dolng a great deal How sorry Annette was when she had to go back to the city, and how she chattered to her school chum about the lovely time she had.
time always came too soon for he taste, and she was quite willing to
agree with the child who said: agree with the child who said
The clocks don't know their A B C's, And so they connot muchell:

But what good so much counting does, I'd renly like to know?-
Just sending people on to bed

But it is not only in the summer that people have a good time. I am
sure you would be sorry if the sumner lasted all the year round, and i our dear Cana you children to enjoy People who live in Florida or Cali fornia may think a Canadian winter almost unbearable, but we don't feel afraid of a little cold weather, do we
Did you ever hear of "Mrs. Wiggs of the Cabbage Patch?" She was not very warm, certainly, and her bare ellows were sticking out
through the holes in a boy'd old coat which she wore, but nothing could rreeze her cheertuiness.
way she talked one cold day, when she had to pin the bed-clothes round the children, as they sat close to the stove, and paste brown paper over a
hole in the window: " My, but it's nice an cold this mornin'! The thermometer's done fell up to zero!'" Mrs. Wiggs always tried to have a good time, and she eenerally succeeded, although sometimes she
make-believe a great deal. She was very poor, but when unexpected visitors arrived just at dinner time, it never worried her in the least. "Tain't no trouble at all," she re to do is to put a little more water to do is to put a mete more water take but one piece of bread."
When the house was burned down, she still found something to enjoy, pig instid of the baby that was burned!"
I know two little Manitoba children who were in a railway accident ang on its side all day, and the mercury outside was about forty below zero, but they managed to have a
cood time. And it is something to good time. And it is something a Though you may not have any such exclting oxperiences, still you can have a good time by pretending that you are having adventures, acting things that you have read. You land of story books. This is his idea of having a good time

At evening. When the lamp is lit
Around the fire my parents sit
Around the fre my parents sit:
They sit at home and talk and sing
And do not play at anything.
Now, with my litle gun T crawl,
All in the dark nlong the wall. And in the dark nlong the wand th forest track
Anay loehind the sofa back. Away liehind the sofa back.
Thero, in the night, none can spy. And play at books that 1 hav
Till it is time to go to bed.
These are the hills, these are the woods These are the starry solitudes;
And there the river by whose brink She roaring lions come to drink.
see the others far away,
As if in fire-lit camp they lay And I, like to an Indian scout,
Around their party, prowled about.
So, when my nurse comes in for me
Home I return across the sea,
And go o bed with backward look
At my dear land of story books. must remind you of this way of having a good time, so that you may go right off and try it. It doesn't matter whether you live in a big, roomy farmhouse or in a little shack
on the prairie. Happiness is flower that can grow in every kind of climate, and it thrives just as well in a little shabby home as in a grand palace-often a great deal wetter. It is flower splendidly geranium which can. Water your plant of happiness with love and good temper, and don't forget that rudeness and unyou don't want to kill it altogether, you don't want to kill it altogether, may be a blizzard coming on Saturday, so that you can't go skating, but worrying about it on Friday won't do anything to make the
weather fine outdoors, and it only


Having a Good Time.

But you have found out long ago one or two other vegetables, and for that the best times always come dessert there are puddings without when you are trying to make number to choose from.
other people enjoy themselves. 'It ways relish jellies, and, except for very isn't my business to preach, but I young children, pickles, if used moder
makes things unpleasant indoors, As
our friend, Mrs. Wiggs, our friend, Mrs. Wiggs, seys: "You
mark my words, it ain't never no use puttin' up yer umbrell' till it rains." I don't want you to copy her
grammar, but if you want to have as many good times as she had, you must try her plan of looking out for
pleasant things. You can always find plenty if you keep your eyes
wide open. COUSIN DOROTHY.

## The School Lunch.

If the children cannot come home to a hot dinner, their lunch-baskets should be mossible. Children should never carry a lunch put up in such a manner that they are ashamed of it. Neat little sand-
wiches filled with jelly, egg, cheese, minced meat, sardines or nuts are doll-
cious. A generous piece of good, though cious. A generous piece of good, though
not too rich, cake, some kind of fruit and pickle, and as a surprise, occasion-
ally, a tiny pie or a tart. In the winally, a tiny pie or a tart. In the win-
ter time a small glass provided with a ter time a small glass provided with
cover and filled with stewed or canned fruit will be found especially good.
Here, too, the mother must guard against a sameness. There are so
many little things which will be relished many little things which will be relishe
in the lunch-basket that there is no ex cuse for monotony. The hot dinner whether at noon or at six o'clock, 1 the main meal of the day. There should kind every day, if possible, potatoes an
cut into fanciful shapes and baked or made into tiny loaves have been tried
with success. This is for the little child : but there are so many ways if only the mother will think.

## Humorous. <br> Deeds, not words: Father (sternly)- Didn't il tell you if any of the other boys said anything to make you angry you should count twenty before you said

 anything ?" Tommy-"Yes, sir; but didn't need to say anything. Before - EnoughFather-So you took dinner at willie Stcut's house to-day. I hope when it came to extra helpings you had mannera enough to say ""No." Tommy-Oh, Father-You did, oh ? Tommy-Yes, sir Mrs.
enough.
First Scot-What sort o' meenister hae ye gotten, Geordie? Second Scot-We th' week he's envees'ble, and on the seventh he's incomprehens'ble
The gentleman who likes to a.sk ques-
tions was visiting lindergarten. Finally tons was visiting lindergarten. Finally "My boy." he said, " do you know ". to make a Maltese cross ?" ". Johnny" answered promptly
" Good lighted exclaimed the visitor, de case, at least, the work of hand and brain were going forward together.
" How would you go about it? "Why, jes' pull her tail," said
CURZON wAS NOT CRUSHED. Lord Curzon has been long noted for mo catting and cold remarks. Scme years ago, says the railway offcial who
 London, Chatham and Dover Railway, o address a political meeting at one of he Kent coast resurts. Lord Curzon was in a hurry. The train made its future Viceroy thought it the slowest train co earth. He said so to the guard. That dignitary, as usue " If you don't like the speed of this train, mister," he said, "you can, got out and walk
Lord Curzon
Lord Curzon was not crushed. Tart as vinegar came the reply

Knitting as a Nerve Cure.
It is told of Robert Louis Stevenson that one of the many things he
learned to do to keep him amused when he was restless or ill was to knit. There are many men of a generation much older than ours who with yarn and needles. But women, to be women, simply must knit after
their hair is gray, and it is good for them. you knit two hours daily," said the physician. "K exclaimed the nervous patient. ". Why. on earth should I patient.
knit ?"

$$
\begin{aligned}
& \text { knit ?" } \\
& \text { The doctor replied: "Because } \\
& \text { nothing is more soothing to the }
\end{aligned}
$$ nothing is more soothing to the

nerves ; because nothing conduces to such a calm and cheerful frame of mind. I could prescribe valerian for you, but knitting will be better. It will do you much more good. I be-
lieve that a month of it will cure you."
He went on to explain that his attention had been called to an article in a medical journal on the benefprescribed the treatment, with exprescribed the treatment, with ex-
cellent success, to a dozen women. " The shining needles," he said. playing swiftly among soft-colored
silks or wools, engage the eyes silks or wools, engage the eyes cheery and sane thoughts. At the same time they may produce admirable things-gof waistcoats, goir
stockings of wool, delicate evening stockings of silk, shawls, a hundred articles."
The woman smiled, and said, she did not know how to knit, but that
she would begin to learn at once.

## HEALTH IN THE HOME GBy a Fraized Nurse e

## The Foot-bath.

A foot-bath can be given in bed. and pillow; let the patient lie on it upon his back, covered by another blanket, with the upper sheet and remainder of bedclothes over that, and take off all clothing, slipping it over the head. The patient is now lying between two blankets. Tuck them between two blankets. Tuck them
in around the neck, and then arin around the neck, and then artucking them in also, in such a way that the sheet comes around the face The upper sheet may be taken off altogether. To do this, hold the blankets at the top with the hand, and pull down the sheet from under them with the ther . then fold anderel over the blankets, then fold a towel over the blankets around the face. Now spread a large towe under the knees, and, standing at the it of the bed, place the tub upon it, the patient putting his feet in at
THE KNEES MUST BE WELL or the patient will not be able to
get his feet in comfortably, and the get his feet in comfortably, and the
tub will very likely upset. Another person may hold the ends of the bedclothes up a little to prevent them from getting wet, or one corner may be folded back from the feet to the
knees while putting in the tub, and knees while putting in the tub, and or chilling the patient. Let the water be as warm as he can stand it. After a few minutes take out a
little with a small pitcher, and put little with a small pitcher, and put
back the same amount of hotter back the same amount of hotter
water, keeping it well above the ankles. Tuck in the clothes all about the patient and the tub. A
few flatirons will help, not placed few flatirons will help, not placed
next to the body, but on the outside of the blanket covering the patient and well wrapped
A COLD, WET TOWEI
should be placed under the chin out
side the bedclothes side the bedclothes, to prevent the
feeling of suffocation sometimes experienced just before perspiration be gins, and a cloth wrung out in very
cold water must be laid on the fore cold water must be laid on the fore-
head. This is very important, and must never be omitted. In fifteen or twenty minutes remove the tub,
let the patient put his feet down on
the towel already placed there, wrap it around them and allow lim to unbend his knee fow in the blankets for a few minutes. He
should then be washed off under the
blankets with warm water to whicl blankets with warm water, to which,
a handful of common salt may lie a handful of common sath may clean towel. Wash the back last. and
when that is done, and the patient is still lying on his side, take the
end of the blanket underneath him and roll it lengthwise towards the midde of the bed, finally pushing it
under him as far as it will go easily, then let him turn upon his back and there will be no trouble in pulling the remainder of it out on the other
side. Put on the night garment side. Put on the night garment
next. The arms go in first, then the head is raised, and the garment taken over it and the shoulders, after which it can be gently pulled down
straight under the back. The blanmoyed. The patient is then removed. The patient, if strong the tof, or the nurse can hold them
in the ordinary way, replace the
blankets, tuck the whole in, blankets, tuck the whole in, and then
draw the sheet up over the patient draw the sheet up over the patient
underneath the blankets. Leave a hot iron or bag at the foot of the bed, not necessarily touching the feet.
TO PL
TO PLACE A BLANKET UNDER PATIENT ALREADY IN BED. turn the patient upon hils side, and fold the clothes after him, so that half the bed is uncovered. Next standing at the side of the bed with lengthwise in your hands, gathering it up in them until less that half remains hanging. Lay this on the uncovered part of the bed, spread it inenly, and push the gathered part back. Then turn him over carefully upon the blanket already prepared for him, and pull the gathered part which is thus left free over that por
tion of the bed just vacated, and tion of the bed just vacated, and over, especially under the back. for any reason
NO FOOT-TUB IS FORTHCOMING and there is nothing that can b made to answer the purpose, a good result may be obtained by placing hot irons, or bricks, or bags, al
round the patient, the programme in other respects being exactly the same as when the tub is used. Great care must be taken not to burn the patient. Under unusual circumvenient or impossible to wash the patient off with water, which is the best thing after free perspiration Che next best thing is to wipe him
with absolately clean towels, an put on an absolutely clean night garment. Always bathe the face with cold or cool water.
Lastly, the more the patient per
spires the better it is for him. spires the better it is for him.
will not weaken him, but relieve his system of waste matter and impuri ties, and he should drink cold water freely while taking the bath. This is accomplished by the nurse raising
his head with one hand, which she places under his pillow, and holding the glass for him with the other The patient should be instructed not to thrust his chin into the air, but
to depress it, when it will be found go depress it, when it will be foun quite easy for him to drink withou
spilling the water. A. G. OWEN.

What Lemons are Good for.

1. Give hot lemonade at bedtime
o cure a cold.
2. Bake a lemon, take out the inside and mix with sugar to make a
thick. Keep it warm, and take a teaspoonful irequently to
drive away a cough.
a the hands and face at bedtime to move tan and clear the complexion,
but dilute it with water, clse it will darken the skin.
3. Lemon juice will quickly remove stains from the hands
4. A glass of lemonade taken every
morning will sometimes prevent hil ious attacks.
5. Lemon juice is more wholesome sauces, 7. A slice of lemon bound on a
corn at night will iemove the soreness. Don't waste the little of it grated when fresh, and added to apple-pie or aple-sauce is fresh lemon grated and added $t$ bread-pudding will make is different
dish of it. fresh for a long time if placed in a
lar of water ; but the water should

Why He was Not Promoted
He watched thay grumbling.
He was always behindkand. He had no iron in his blood.
He was willing but unfitted. He did not believe in himself. He asked too many questions He was stung by a bad book His stock excuse was " I forgot." He wasn't ready for the next step.
He did not put his heart in his work. ders.
He fe
He felt that he was above his posi-
He chose his friends among his inferiors.
He was content to be a second-

## $\underset{\text { rate man. }}{\substack{\mathrm{He} \\ \text { was } \\ \hline}}$

Insect Pests.
Sometimes, during the winter, house plants become infested with insect life to a degree whici1 change jects loathsome alike to sight and touch. You feel tempted to carry them all out and tumble them int the snow somewhere, where Jack: Frost may have a chance of cleaning them. There is, however, no neces sity of sacrificing ones plants like this for, with just a little trouble they may be made quite clean and healthy again. But it will not do to wast atmosphere of the house, these lice or aphides, as they are called mult ply with great rapidity. Moreover while here, they are immune from the host of larger enemies which prey apon them in the summer, and so ing what destruction chance for work The species of insey please. most spequently found which arc the house are: the green louse cause, in green fly, be it has wings), the mealy hug, red
spider, and scale insect. Of these spider, and scale insect. of these.
the green fly, mealy bug and scale insect all belong to the orde Hemiptera, of wnich there are ove
20,000 species. They are all pro vided with mouths fitted for piercing and sucking, rather than for hiting,
and they exude from their bodies a sweetish, sticky fluid, called honeystems and leaves of the plants on
which the lice are. This substance, which the lice are. This substance,
as may be imagined, attracts ants, if may be imagined, attracts ants,
in the vicinity, and, for this . reason, "plant lice have been
termed the "milch cows of the
ants." It has been ants." It has been observed
by the naturalists that ants, with their customary sagacit care for the plant lice it instinct) away their enemies, and even carry them, at times, to hetter feeding
grounds. However, all these inter esting things do not help us to like appear on our any better, if they It is an old saying that " prevention is better than cure," and no-
where is this adage more true than in caring for house plants. If of good, pure air about them, to steamy " atmosphere of the kitchen is a good place), and to give them
frequent washings, or spraying tepid water, there will be little
plants a good bath in water heated injure the leaves-or, if you spray it on, heat the water to 140 degrees. If this proves ineffectual, for the green louse, spray or wash the
plants well with a solution of sulphoplants well with a solution of sulpho-
tobacco soap, which may be procured from any seedsman or dealer in florists' supplies. If you cannot get this conveniently, use castile soap inIf your plants look sichly, and the leaves are dropping off rapidly, ex-
amine the under side of the latter If they look dusty, or have small, rustlike spots on them, you may take spider is working his depredations there. In order to rout him, spray the spray chiefly on the under side of the leaves, or spray with sulpho-
tobacco soap solution, or weak to Forco mater. bugs, which look like tiny tufts of cotton-batting stuck along the stems, syringe with whale-oil-soap solution, or simply wash
fresuently with warm water The scale insect is merely of plant louse, whose presence makes itself known by the ajpearance of hard brown scales, which cling to the stems of hard-wooded plants. They
also come, occasionally, on ferns is you detach some the larger scales carefully you will find the lice underneath. In order to remove this pest. hrush the scales off with an old
tooth-brush. and spray with a tooth-brush. and spray with a weak
kerosene emulsion mixture If plants are being injured by earth worms in the suil, immerse the pot
in limewater, so that the soil is soaked with it, and, according as the worms come to the tra remnve them "Fariner's Advocate " office, Lon-
$\qquad$
Answer to E. J. M. :
Bulhs may during the winter, but, after plant ing, it will lo, necessary to set the the very least, in a cool, dark cel har, where the root growth may take hace before the top stronts are and set it immediately in a bulb atmosphere, exposed to the light, the leaves will shoot up very rapidly "choke " and not mature likely to if, indeerl, they come at all. We
indee that judge that this is what you have can do now is to diminish the light conler place for put the bulb in oot-growth has a while, until the take place. Remember that you take pace. Remember that you
nunst not hurry bulbs at the start,

ANUARY 28， 1904
THE FARMERS ADVOCATE．
An Attractive Type of Womanhood． She stood
on her face，
Keeping her little world bright．＂
The groent pootes diffrer constderably in most admired by some belng unnoticed by others；but in almost every instance，
their standards are worth studyingo as their stand those of writers not so weill known ．There
stoadily－increasing class of poets con－
old
ond corning whom we know little；but whose
verses treauently supply us with what we need moest，the hellpulut thought or the
we
ingiling strain，eading to better things． ingpiring
True，the poet＇s name may never be known，but that is of little moment． And so，tco，with the lines quoted above simply a couplet printed in a paper
without word or comment，not even the without orr ortiter－but what a beautl－ ful thought they contaln
Do you not see the woman whose por－
trait has been drawn for us？In your mind＇s eye can you not pleture her And the smile would，of ccurse，be the right kind of a smile，cheorful，hopetul and glad．Yet It may have been hard
for her to smilio；sho may have had more cause for sorrow than ficr joy．But she conquered her own Inclination，and won a wictory for the right． accomplished its missind strong；and belioving this，is it not well for us to
follow her example，and constantly prac tise the art of smilling in the bost way Then our infuence cn those around，ut
will $\begin{aligned} & \text { certanty be for good，for }\end{aligned}$ wo whe certainly be for good．for whe manther by our foy more than
help
ay Agan We．are told that the mas
A．standing in her place．＂，
The two lant standing in her place，ut the two
mords are short ones，but they tinclude great deal，as the question of＂place＂＂to
Important to us all．Sometimes the place we occupy is not the one we would choose for ourselves，for other intos of
work may appeal to us more strongly Or，at times，wo may grow discouraged and think that our place tio but a nar－
row one，one from which wo would liko to chango for a broader outlook．
still．it is ever the highest wisdom to accept our 11 imitations wisely，resolving
to make the best of our place．${ }^{\text {If }}$ wo choose，we can make it a happy place，
helpful place，and more than any thing else，a sunny place．It depends entirely Hve from day to day
Then，too，there tis the last line of the verse，＂．Keeplng her little world bright．
Does that not sound very attractive， bright wcrld？And，after all，is it not what we most desire to accomplish， this keoping our world brighan did this；
not told how the poet＇s woman on her face helped，for a happy face tolls goes a lonef way in makling the world brighter and better．We may not al－ this end in view，we shall not fall of our But it is only a pen－picture，you think， and not that of areal woman．Yes，
 crue ourselves hy keeplng the intle verse In memory，thinking otten ofte and r－
solving to practice its example steadly． It wo do，it will help us in many ways， own and other lives fuller and happler， Con and worth winning here and now？
Stellarton，N．S．S．L．HARIVEL．

Sirs，－I like the＂Farmer＇s Advo－
cate＂very much，not only for the heln it gives relating to farming，
hut its moral tone is uplifting，and the Home Magazine departmont and wishing the editor，and all the staff， a Happy New Year．$W$ ．E．H．GARDINER Middlesex C

We，all uf us，try to forgive and forge
When similar treatment we crave， When similar treatment we crave，
And think we are virtuous paragons，yet
We cannet forget we forgave． Wo cannet forget wo forgave．

## Recipes

lemon cheese cake
Two cups of sugar，one－half cup of
butter，three－quarters of a cup of sweet millk，whites of six eggs，three cups of
flour，and three teaspoons baking powder．

1－2－8－4 CaKe．
One cup butter，two cups sugar，three
cups flour，tour eggs，one cup cups flour，four eggs，one cup nilk，one hell teaspoon soda．Very good．
cocoanut layer cake． Excellent．Two cups sugar，one－half cul three cups flour，and two teaspoonfule baking powder．Bake as for jelly cake，
in sixx round ting．Filling－One cup good cocoanut，shredded；
oggs，beaten to ates of three
and cup of powdered sugar．Spread this be fourth cup of cocoanut add four table spoonfuls of powdered sugar and sprea
thickly over top of cake． thickly over top of cake

Sprinkil CoLd Slaw
Sprinkle a quart of finely－chopped cab．
bage with salt：let it stand an more．Drain oflt the Hquar into granite saucepan．Then pour into
hall plint of strong vinegar，
a
piece half plnt of strong vinogar，a plece
butter（olzo of a hickory nut），a tea spoon of mixed mustard，half teaspoon black pepper，and a dash ot red pepper
Let this come to a boll．Then stir in two well－beaten eggs and three table two well－beaten eggs and three table
apoons of sweet cream．$\quad \stackrel{\text { Pour not }}{\text { over }}$ the cabbage，and serve cold．A mos delliclous relish with all klnds of meat．
tapioca fruit pudding One－half cup of taploca，soaked ove quart．In the morning cover the bottom a pudding pan with any kind of frut （paches or quincees are very nice），and sprinkle with one－halp cup of sugar
Pour the taploca over the frult，and Pour the taploca over the frult，and
baleo one hour．Serve cold with sugar bake one
and cream．
simple pudding
Put a plnt of milk in a saucepan，and as soon as it begins to boil，stir in three Let It cool a little，and put in three piecos of candied orange peol cut in
shreds．
ittle
grated nutmeg，and teacup of treacle，with one whole ogg Mix well，and turn lito a ple dish line with a nice，short crust．Bake in a ho
oven tor hall an hour．－［Masa．Plough man．

HINTS TO HOUSEKEEPERS． Those who have trouble with custards used，bet it aside until cool，and mako the custard as usual．It will not curdio．
To make cream sauce for venison，put in a saucepan，with half a plint of cream， one cooked onlon，well chopped，and in
piece of butter rolled and worked in four．Stir the whole over the Are till sidio，and mix in the beaten yolks of two egge and a spoonful of any flavoring pro ferred．sutr over the dire untur thiok ens，but do not lot th torl again．
Restore creased rllbons by laying them evenly on a board or table，and dampen
them with a clean sponge and a little clear water．Then roll them tightly and smoothly around a good－sized botleo． equal quantities and mixed with hickory－ nut meats make an excellent salad． serve on lettuce
For ag jelly filling take a pound of Agg，chopped Ane，a cuptul of sugar，and
hall a cuptul of bolling water．
Boll to to a jelly，stirring constantly． For caramel alling for cakes，bofl a
cupful or brown sugar in a hall cuptul of cuptul of brown sugar tn a half cupful of
bolling water until it threads．Beat the bolling water untlli lt thriad．and add to it
white of an ogg until stif，and and halt a



HOUR AHD MOBACCO MABMN．
A．Motaggart，m，d．，O．m．，
Poferenoes as to Dr．MoTreagart＇s profeasion．
al standing and perconal integrity permittod sir W．R．Meredith，Chief Justicer
Hon．G．W．Rose，Premier of ontario．

 Dr．MoTaggart＇s vegetable remedide for the
Hquor and tobacoo habits are healthrul，safe，

STAMMERERS
THE A Nott institute，berlin



FIERY，BURNING，ITCHING ECZEMA CURED AT HOME




 and sample of cream
Graham Dermatological Institute ote church st．，Toronto．

If you would know about ranching in the Canadian
west，read John R．Craig＇s west，read
new book，

Ranching with Lords and Commons，＇

CLOTH，$\$ 1.25$, POSTPAID．
WILLIAM BRIGGS， $\substack{20-33 \\ \text { Street } \\ \text { Richmond } \\ \text { West，}}$
Toronto．
\＄4．60 Ladies＇Suits Matanation wit

## w

## we no car




$\underbrace{}_{\substack{\text { git } \\ \text { in } \\ \text { in }}}$



SOUTHCOTT SUIT CO．，London，Canada．
Honest teaching
is what has given the FOREST
CITY BUSINESS AND SHORTHAND COLLEGE， London，Ont．，the lead over canadian schools．The school has an international reputa tion，and its attendance is only equalled by one Canadian school． Are you interested？Catalogue
J．W．WESTERVELT Principal．

GOSSIP
postroned shorthorn sale．
Owing to the severe showstorna，on
Jan． 21 st，blocking the railways，the
dispersion sale of the disporsion sale or the herd or Shotthorns
belonging to Mr．C．N．Blanshard， Appleby，Ont．，advertised to take place
on that day，was postponed，and as announced in the advertisement in this issue，will te held on Thursday，February．
11 th．The herd has been long es． lablished，has had the benefte of a long
ist of Scotch－bred sires，and should be well up to the standard of approved
type．The farm is near Burlington，on uns to Hamilton and Radial line from there to Burlington．
hanmer＇s sale of shropshires． Mr．J．G．Hanmer，Brantiord，Ont．， ase of high－class Shropshire sheep and Stock Farm，about three miles from the $\mathbf{M r}$ ． Mr．Hanmes inve．Intending purchasers will，therefore，have a rare opportuity to
procure prices．The onfering consists of 200
ond sold comprise 75 ewes in lame to be excellent imported ram，Harding＇s 282， 191934，a lifelike engraving of which
appears in the＂Farmer＇s Advocate．＂ This ram was a winner at the Dominion International，Chicaga．Viewed from a mutton standpoint，which is the princlpal
one，this ram is an excellent specimen， and should leave stock of high－olass quarity．Fitty of the above mentioned ported stock；the remaining 25 are 1 m － ported，ranging from two to five years
old（just in their prime）．
They are a strong，well－covered，typical lot that Wreaverage about 170 libs．oach，just th
breeding condition．The 75 ewe lambs， taken all together，are a superior lot，
some of them being imported．


Harding＇s 282， 191934.
Imported Shropshirev ram used in flock of
home－bred ones are mostly sired by home－bred ones are mostly sired oy
Canada King 161726 ，an imported Royal
winner．and winner，and Lord Roberts 1475£9，the
sweepstakes ram at Toronto， 1902 ． Mr．Hanmer＇s show lambs and winners of 1903 are included in this sale，as is also the 15 that（we are informed）Mr． G．Howard Davidson，of Millbrook， $\mathbf{N}$ ．
$\mathbf{Y}$ ．，refused to compete against，when $\mathbf{M r}$ ． Hanmer offered to accept his challenge
at the late Chicago Live－stock Show for at the late Chicago Live－stock Show for
$\$ 500.00$ a side．Mr．Davidson＇s reply a
$\$ 500.00$ a side．Mr．Davidson＇s reply
was，＂I cannot compete；；I withdraw my challenge．＂When we consider that Mr． Devidson＇s was one of the best flocks in
the United States，this in itself ought to be a suffcient．guarantee as to the qual－ are being offered are mcetly lambs and yearlings，just as well bred as any of
the above mentioned．There are many among them good enough to be placed a cood，useful，well－covered lot，neither culls nor over－Atted stuff being included Ame that the sheepmen of Aly the first had such a good chance to get selections fram such a large number of good Shrcp－ shires at their own prices；no doubt annong this lot． prizewinning bulls，one of them best．Two Ci first at Toronto，and the other a winner of first at both Toronto and
London，have slred a few heifors here that ought to make show animals．They that ought to make show animals．They
are Hght fawns，and are good butter

TRADE TOPIOS. A SUCCESSFUL VETERAN in the
tree business is D. Fill, Dundee, Ill. For
forty years ho has been engaged in
 growing and
for catalogue.
THE TORONTO POULTRY AND PRODUCE CO. announce to their customers
that they will not receive any more consigat they will not receive any more con-
sioduce until the opening of next season. In the meantime, communications should be
Farm, Davisville, Ont.

ARNOTT INSTITUTE.-At Berlin, Ont. is an institute for the treatment ol all
kinds of speech defects. The habit alone is not cured, but the cause of the habit is not cured, hut the cause of the habit
is also treated. Many persons with impediments in their speech are receiving
benefit from the Arnott Institute. Cases undertaken are guaranted. Remember the
THERE is AN ADVERTISEMENT in another column, in which is listed a
big selection of organs. These instru-
ments have ments have been taken by that reliable
old firm of Gourlay. Winter \& Leeming in exchange for planos, and will be sold on the easiest of terms and the lowest possible prices. Read their offer, and conform to their terms, if an instrument Is waplod.
AN INSTANCE OF GROWTH.-It is a pleasure, in this day of great industrla
combinations, to note an instance where an independent concern has attained to mammoth proportions and has grown
steadily but surely for years from steadily
a small surely for yeginning into the fullness of a sman beginning into the fullness of
the present time. Such an institution
is cited in the seed business of $D$. M. Ferry \& Co., who for nearly half a century have gCme forward each year,
constantly adding new customers and re-
taining all its old ones, until it is totaining all its old ones, until it is to-
day a source of seed supply from which day a source of seed supply from which
many of the great crops of this country spring and fower-growers ok garden after year for the seeds from which the prosperity of their fields and gardens is
to grow, and the fact that they are to grow, and the fact that they are
never disappointed in Ferry's seeds is never disappointed in Ferry's seeds is
the secret of the wonderful expansion this popular firm. Their seeds can be bought in every city, town or hamlet of
this land, and are always fresh, true to name and sure to grow. Their 1904 Seed Annual, a valuable guide in the selection of the proper seeds to plant,
will be sent free to all readers who apply to D. M. Ferry \& Co., Windsor, Ont PRESSED HAY INDUSTRY-Durin the last statistical year, the exports of
hay from Canada showed an increase of $\$ 2,315,529$ over the preceding year. For pressed into bales. This great increase shows that, to meet the demands of the
times, the speediest and hest means of times, the s compressing ha
the man who steam hay
steam
mended
factured
Ont., whose advertisement appears else-
where in this issue. This press possess es very powerful. This press possess-
effictive and a most
ent effective feeder, which raises up entirely
out of the way of the man who puts the hay ove
dropper
interfere
interfere with the feeding, nor cannot block at the wrong time: while the th
chine is devised so ger of acci
supplied
chaf-rrate
has ar record
and
is claimed
and
 states that an extensive thay operato trat
trial ound the "Columbia" all that it was
recommended to be. Messrs. Wigle \& Conklin ar
ville. Persons interested fortory at Kingsille. Persons interested in hay pressing
hould correspond with them.



Port Perry and Uxbride

 7 Head Registered Shorthorn Cattle



 G. McAllister Shog wit Cillo


SCOTSH-TEADPEOTCHAND SORS
Thursiay, February IIth, 1904.



 WINDMILLS


CANADIAN AIRMOTOR
beware of newfangied WINDMILLS
Ontario Wind Engine \& Pumn Co

| 'Perkins' American Herbs' |  |
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| e, Bematecomplimut ind |  |
|  |  |
|  |  |
| the above diseases or money refunded. Sampsent free to any address. |  |
|  |  |

Buff Orpingtons

30 High-class Scotch Shorthorns 50 High-class Shropshire Sheep Also some Clydesdale Mares
 tole WEDNESOAY, FEB. 24th, 1904.



[^2]
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

MILBURN'S

january 28,1994


QUESTIONS AND ANSWERS. TARRDEANA.
Several of my sheep have had
diarrhcea. Some partially recovered and at, but do not thrive, others died after a few days. 1 feed hay and roots, no
grain. Ans.-The diarrhco is doubtless due to
local causes. Probably you are feeding local causes. Probably you are feeding
too many roots, or the hay and roots may be of poor quality. Change the
mood. Give clover hay of first-class. lood. Give clover hay of first-class
quality, and feed oats twice daily. Give no roots for a while, and then feed in
small quantities. The diarrhoea can be checked by giving hall a drachm of
powdered opium, two drachns catechn, powdered opium, two drachins catechn,
and four drachms prepared challs, in half a pint of cold water as a drench eyery
four hours until the diarrhoa ceases.

$$
\begin{aligned}
& \text { Foul in sHEATM. } \\
& \text { Steer became clogged in his sheath so } \\
& \text { that he had difficulty in urinating. I } \\
& \text { got a veterinarian to attend to him, } \\
& \text { Dut ne is filled up amain. }
\end{aligned}
$$

$$
\begin{aligned}
& \text { got a veterinarian to attend to him, } \\
& \text { Dut ne is filled up again. } \text { G. W. H. } \\
& \text { Ans. - The only treatment is to re- }
\end{aligned}
$$


secured with hobbles. Inject with a
four-per-cent. sclution of carbolich acid
in warm water, after removing the ob-
struction, struction, and it is good practice to in-
ject the sheath about every second day. especially in cases like this that have re-
surred. It is probable the condition is due to too much lime in the drinking
water, and a change of water might preit. Some steers appear particu-

FOUL in sheath.

miscellanéous. tURNIP LICE.


## We ration for milch cows.

 RATion FOR MILCH COWs.We have some fresh milk cows. We
feed them, per day, 25 lbs. mangel:
(pulped), 4 lbs. bran, ${ }^{4}$ liss, crushei wats, half 1 lb . pea meal, 1 lb. cotton-
seed meal. This mixture is fed with roots in two feeds. Also ald tho
timothy and clover hay that they will enough; if not, what is? Should heifer, two and a half years old, get nuch as an cow? the cows consume, we cannot tell the ex non-nitrogenous constituents that go t the cows' maintenance. But, assuming and roots, a cow weighing 1,000 lbs. have about the proper amount of dry matter, but a rather narrow nutritive
ratio. To remedy this defect, ratio. To remedy this defect, some
chaff or cut straw might be fed, or the
cott cottcoseed meal taken qut of the ratio
and renlaced by peas, or bran allowenc and replaced by peas, or bran allowance
Elightly reduced. If the ration were to be improved at all, it would be in the genous substances, or widening the tritive ratio rather than narrowing it and by following the course indicated,
this would be done. A heifer two and a half years cad, in milk, will scarcely
eat as much as a cow of years of age, and in reducing her allowance be guided by the amount of
roughage she eats, reducing the roughage she eats, reducing the grain
allowance in proportion. Some in-
dividuals, homer dividuals, however, may possibly eat as much as an aged cow, in which case give
all they will clean up.
bones in the carcass-quality. of your paper how many pounds, proportionately, is there of bone to the 100 how much in the finished animal? 2. How many bones are in the verto-
breo of the cow and horses respectively? 3. Dos the coarseness or the fineness
of these denote any difference in the quality of the animal? R. E. M. Ans.-1. Prof. Armsby gives the following
percentage of bone in the dressed car-

| Well-fed ox bones Per- <br> centage. <br> Half-fat ox bones $\ldots . . . . . . . . . . . . . . . . . . .4 . ~$ o. |
| :---: |
| 2. There is not a fixed number of bones |
| in any specimen of either class. In the |
| neck there are seven, in the back eighteen or nineteen, the loins six, |
| croup seven, and the tail from thirteen |
| cf twenty, averaging for the harse |
| sixteen, and the ox eighteen. |
| Yes. In speaking of the |
| horse, fineness of bone is invariably |
| e of the associated characteristics. |
| Fineness of bone is cne of the most |
| tain signs that flesh is also fine-grained, |
| hough a fine-boned ox or cow may |
| ry some fat or flesh that is far from |
| ng fine in quality, but |
| must always be associated with wh |
| known as quality, especielly in the |
| EQUEL TO DISTEMPE |
| About a year ago, my pure-bred Per |
| stallion, three year |
| stemper, swelling under jaw. It |
| hind legs around hocks. I would like |
| to get clear of the swelling. What |
| treatment do you advise? |
| parently has no effect. Would |
| blister be beneficial? HORSEMAN. |
| Maple Creek, Assa |
| Ans.-Chronic thickening arcu |
| cks in stallions are frequently har |
| rid of. Would advise you to pre- |
| $m$ for a physic by feeding him on |
| an mashes for a few days, after which |
| give him one ounce Barbadces aloes and |
| one-half ounce of ground ginger, either |
| in the form of a ball or as a drench |
| shaken up in a pint of tepid water. |
| After the above has operated, procure |
| the following: Powdered digitalis leaves, |
| mms ; potassium |
| drachms, and potassium nitrate, one |
| ce. Mix and divide into twelve |
| Give one each morning and |
| feed. Give him regular exer- |
| mild blister might be |
| do not blister too severely, especially |
|  |

## Unreserved Auction Sale

of high-class SCOTCH-BRED SHORTHORNS At his farm at Markdale (on Owen Sound branch of C. $\mathbb{P} . \mathbb{R}$.), in the County of Grey, Ontario, on
WEDNESDAY, FEBRUARY 24,
Mr. Thos. Mercer will sell his entire herd of

## 54 HEAD SOOTOH-BRED SHORTHORN CATTLE

including 3 im ported bulls, 4 Canadian - bred bulls, 19 heifers, from 8 to 15 months old; balance breeding cows in calf and calves at foot. In this herd are a num ber of show animals.



Importail Clydes \& Shires, Shorthorns \& Yorkshires
MiveClydegdale Stallions; one Shire Stallion
eleven Clyde Filies; three Shorthora Bull eleven Clyde Fillies; three Shorthorn Bull
Calves, imp in dam in few imported Heifers:
 Clydes by such sires as Prinoe of Carruoban,
Crince Stophen, Prinoe Thomas and Royal
Champlon. Champlon Write for prices, or come and see. ou

GEO. ISAAC,
Cobourg Station, G. T. R. BOMANTON, ONT. BAWDEN \& McDONELL.


Exeter, Ont.
neromeras op
Glydestale, Stire and Hackney Horses
Our new importation
 HLDESDAL MARES Recietored maris, from three years old and NELSON WAGG. Cheromont station, C.P.R, 2 miles.


Largestimporters and Breeders of
Shire Horses

in the Dominion, Including
first-prise winnei
at Royal

 best Shire mare, donated by
then Shire Hore Asociation
Hongland; three silver medal
 Industria kichibition, Toronto, 1903
imparion and mares al and home hred and
froported, always for sale. Over 50 to ahoose MORRIS \& WELLINGTON, Fontilll P. O., Welland County, Ont.

 OM BHORTHOBN CHATTI.


ABSORBINE


Puffs,
Pufis,
Tumors,
Tharough Pin, Capped broor. aptra. SWellings, pa W. F. Young, Manutactured by LYMAN SONS \& CO., MONTREAL
Ho Evergreens
 HOLSTEIN BULLS FOR Panline

QUESTIONS AND ANSWERS. miscellaneous.
tanning seins.
I should be glad if you would kindly of the a recipe through the columns animal skins. $\begin{gathered}\text { Ior the curing }{ }^{\circ}{ }^{\circ} \text { SUBSCRIBEI. }\end{gathered}$ Ans.-See January 21 st issue, page
hice on cattle
Would you let me know the test way Ans.-See answer to same question in oughly sweep the walls, and white wash the whole inside of the stable. roofing material. I have to put a new roof on my barn,
and as it is a large one, 1 would like some of my brother famers to give me their
experience as to the best kind. Some are getting galvanized iron, and quite a few rubberoid, four ply. I put some on
a shed last year; it seems to make a very good roop, but will it last It
cost the same as shingles, but is much eakier put on. Any information will be [if - any of our readers have had paritive test of the merits of different kinds of roofing material, we should be
glad to learn the results.-Ed.] cows fatling to breed We have two registered Shorthorn heifers, four and five years old, that fail
to brsed. They come in heat regularly to breed. They come in heat regularly, seem to be all right in every way, and
are in the pink of condition. The younger heifer dropped a calf at two years old, and has failed to breed since.
Can anything be done to induce them Can anything be done to induce them
to breed? Ans.-The only suggestions we can offer ere to try a change of bulls, or an examination by a veterinarian to ascertain
if the neck of the womb is closed, which examination should be made when the after opening, which is done by a rotalory motion with the finger. The application of belladonna ointment to the
part is said to facilitate the relaration of the closure.

GOSSIP.
In our advertising columns, J. Bergin, Ayrshire bulls, for sale. Ays some choicely-bred
Ayres are
now having their innings, witness the
 Fairs last month, at Guelph and AmFairs
herst.

SMITH \& RICHARDSON'S IMPORTA

Trumans Pioneer Stud Farm
BUSHNELL (McDonough Co.), ILL.


IMPORTERS AND BREEDERS or

## SHIRE, PERCHERON, SUFFOLK, BELGIAN, HACKNEY STALLIONS

 Shire Society, and gold medal. offered by American Snire Horse Apsociation, for best Shire We have ont the farm at the present time imported Shire mares that won the f. llowing premims at the last International. list and 2nd in aged class; ist in 3-year old class; 2nd in
zyear-old classi nad and srd in yearling clase ; 18t fur beot three mares, and gold medal for
 tham you wat a prizowliner, oome to tho pamie place that our compellitorn du to find
 to leave Europe. Our warrant les are good and not given with a view to get your money
only, but to give you a good, honest deal. We will garge you no more tor hese prizy
 Write for our asth annual catalogue and poster.
J. G. TRUMMAN, Mgr., Bushnoll, MCDonough Co., Illinois.

## 

 introduce new discovery and represent us in their district, to introduce new discovery and represent us in their district, dis-tributing large and small advertising matter. No experience, only
honesty required. Write at once for instructione honesty required. Write at once for instructions. experience, only
EALUE MEDDIOINAL OO., LONDON, ONT.


Varicocele $\}_{\text {Oured to }}$ stayy Oumed in 5 Day (Mo Gertling Gr Pelno Guarmioged curbi





 Compespondence Gonfidential


LIONS
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E MEIN Trity states
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ence, onl
N, ONT.

JANLARY 28, 1904
HE FARMERS ADVOCATE


Percherons, Belgians, French Coachers, mportations inoludection Ever Cot TOCETHER NOW ON HAND.

 DUWHAM, FLETCHER \& COLEMAN, wamo, pur pago

## 20-CLYOESDALES-20

We now offer for sale 20 head of Clydesdales, including fillies and prizewinners. Also a few young Clyde stallions and Shorthorn cattle. People wanting to buy should come and see them beHODGKINSON \& TISDALE, Berorson, iont

## ALEX. GALBRAITH \& SON

 BRANDON, MAN.have on hand a magnificent collection of

## CLYDESDALES

SUFFOLKS and PERCHERONS, with a faw choice HACKNEYS and GERMAN COACHERS
Prizewinners at the Royal Show, the Highland Stow, and the Interna-
tional. The best horses in North America at present for sale at able prices, on easy terms, and every stallion guaranteed. A safe motto "Buy stallions only from those who have a well-earned and established

JAMES 8MITH, Manager, Brandon, Man.

## IMPORTED CLYDESDALES

I have just returned from Scotland with a fine lot of Clydesdalestallionsof great breedingand individuality They are indeed a fine lot, and just the kind the country needs. Write for prices and description, or, better still, come and see and be convinced of what I say



International Importing Barn CLYDESOALE, SHIME AND HACKNEY STALLIOMS





## Thorncliffe

Clydesdales



ROBERT DAVIES
36 Toronto Street, TORONTO.

CLYDESDALES AYRSHIRES and POULTRY. A. Iless \& Sons,Howlch, Oue importers of Clyde, Percheror
and Hackney stallions, Ayr shire cattle, and poultry, have
for sale 5 Clyde stallions, sired for sale
by Ban's Pride, Sir Everitt
and and Royal Carrick, I Peroheron, and I Hack
ney, winners. Ayrshires of both sexes, ant

## trade topio.


ydes dales 8 stallions and 6 mares
of this year'simportation
for
 T. H. HASSARD Millbrook, Ont.

 Fimen altato offoring now con. Three Imported Two-year-0 Clydesdat
of ohoioest breoding, best quality and immense
size. Inspection invited. Geo. Stevyart Howiolx, P. Q. Imported Clydesiales just landed. Five olds and one 3-year-old. The gets of Ma-ine of 4 milles east of Uxbridge station, on the G.T.R.
 Seven Imported Aydesdaleyillies,

 PATTERSON BRROS,
Millbrook on G. T. R. Cavanilile, C. P. R.
THR KINDRRGADTEY STUD FADE GITYJAMRS HURLEY, Proprietor.
$\qquad$
FOR SALE: Rinmonatite


Clydesdales and
Hackneys Eaf.
 Nation
为

JOHNGARDHOUSE \& SONS asion
 Sirir Horsess. ineoln aitit Luesestar sinees. Ampand

JERSEYS
for the next 60 days; heary-milking
strains. Write for particulars to
W. W. EVERITT,

Aberdeen-Angus Bulls

WALETER EALL, Wablictong Ont.
High Parlk Stock Farm Gallomer Gattle, at, toricem:

 R. 8. LEEs, wullamsford P. O., Ont ${ }^{\circ}$

## GOSSIP

 The Smithfeld champion, a cross-bre shorthorn-Angus heifer, killed 68.99 percent. of her live weight; the King cent. of her live weight; the King
champion Hereford steer, 68.58 per cent. and the Rosehaugh cross-bred ox (Angus
Shorthorn), The Baron, 68.53 per cent. $\begin{array}{cc}\text { Mrr. Arthur } & \text { Johnston, of Greenwoot } \\ \text { Ont., writes this office in making }\end{array}$ Ont., writes this office in making
change in his advertisement, and says change in his advertisement, and says
"Our Shorthorns are in the nicest forul though not fat. .The hard winter has agreed with them better than with their pecially well-never better-and we tes pecially well-never better-and we hav
hever had a better lot. We have recently made a nice sale of twelve good ones
to go to California. ever sold to go to that State. The lot pills. We have also sold three very nice females to go to Dundas Co., Ont besides scattering ones to various quar
ters. Sales have been very much eatt ters. Sales have been very much better
than any of us expected.."

Messrs. Dunham, Fletcher \& Coleman Wayne. III., importers and breeders Percheron, Belgian and French Coach stallions and mares, write: "D During
the past few weeks, we have made some very satisfactory sales, and our visitor Have come from parts of the countr very widely separated, and as they hav it stands to reason that the selection we now offer the public is of the sort de in which mapy wo-date buyers. One sal of our grand big harse, Picador, whic Exposition fo well at the Internationa looking better than ever when he lef chased fy the hrunswick Perchero Horse Ooc, Lake Co., Ind., and if ever there was a stallion well-calculated to do good work in a new locality, it is sales recently made cover the country from the Canadian Northwest Territor to New York, and on the west in the States, and south to Vitah and ola
Mexico. Wo have a splendid hand of the big-boned, short-backed sort and can suit the most fastidious of buyers. Our new barn, on the site of historic No. (lately destroyed by and, in as much as the plans were pre pared with the assistance of the leading model of sampanies, we think it is a shall be glad; at any time, io show this barn and its principles anyone who is thinking of building a stock barn in which he desires to com
bine safety, convenience and eccion A FEW DON'TS. apples,": or "" them anything else ";" say
" these pigs," " "these pigs," "" these apples," if the
objects referred to be close at hand, bui use the word 'A those ". if they be at mine, those are my neighbor's."
2. Don't say ". I saw'." Say "I seen " anything: Say
On cther hand, remember
that with an auxiliary " have "." or ". was." you must use as the
word ". seen." saying instead of "I have saw." and him" did anything; say .. he and question.
4. Don't neglect soundin,
in words th
as easily sa
much better.
you intend to show that "will," unless a voluntary one. ". Will," when used in
the first person always implies voluntary action. Thus you may say "I will see if this is done." Use the wrd "shall,"
when you wish it to be undfrstood that your action is dependent upon something
outside of your will, as "I shall be sorry if he does this."

## Carnefac Extibition Prizes

 entered for the Carnefac Competition can be entered, of course, for all other prizes in the class. WRITE FOR PARTICULARS.

Castleavery, Man., July 23, 1903. The Carnefac Stock Food Co
Gentlemen,-After using your Stock Food for some time, we take great pleasure in We have found it an excellent preparation for preventing calves from scouring, and as far as a flesh-producer is concerned, no wise
farmer will be without it. We have also fed it to our horses and have found it very beneficial to them for keeping the animal in proper condition for work. Hoping that this ase your Stock Food.-Yours truly, (Sgd.)
GEO. \& WM. BENNIE. GEO. \& WM. BENNIE.
P. S. - We have had practically no sick-
ness since we started using the food.
since we started using the food


The Carnefac Souris, Man., July 23, 1803. Dear Sirs, - It affords me great pleasure testifying to the merits of your Stock ening a calf which was forn on January th, 18003 , and to-day it weighs 623 lbs , which I claim is due to using your Stock Food, as I have stood the feed he got. I have found it econd to none in keeping horses in good ondition, and eepecially for preparing them or spring woping it will be an inducement for ther farmers to find out the value in the use of Carnefac, and wishing you every uccess with same, I remain, Yours sincere-
y, (Sgd.) J. HERRIOT. ly, (Sga.) J. HERRIOT.
dealers may try Carnefac at trivial con
65 Front St. East, Toronto

## PAGE METAL GATES <br> 3 foet wide, 4 feet high, inoluding hingos and latch..................2.75 , including hinges and la



Elm Park Siock Farim
Wer call how sell a few good females, either




JAS. BOWMAN,

JANUARY 28,1904
THE FARMERS ADVOCATE.

TROUT CREER SHORTHORNS


Eeven Imported Bulls for Sale AB. sMith, , Mugrove, dat om Himmiton, obit
R. \& S. NICHOLSON Syluan P.o. Parkhll Statuon, ont.
SHORTHORNS 18 nipo itruiniver
sefo tan ould to Imp. spley Donant.
 oak Lane stook farim. Shorthorns Cotswolds Yorkshires and Barred Rock Fowls.
 6000FELLOW BROS., omagwt.
JOHN DRYOEN \& SON CRUICKSHANK SHORTHORMS SHROPSHIRE SHEEP.


Catalogue of twelve young bullis of oforoses
breoding and splendid quality sent on applicar
tion
 SELEECT EWRY, HUNTLYWOOD FARM SHORTHORNS And

SOUTHDOWNS We have for sale two fine young bulls of the
hot or briroan hooks tribe and one secret.
for ritice W.H. GIBSOM, Mgr., PointClaire P.O. . Quebec
T. DOURLAS \& SONS, Brempres
or
spor
Shorthorns and Clydesdales


$\underset{\text { class }}{\text { Hlgh- }}$ Shorthorn Bulls ${ }_{\text {Sale }}^{\text {For }}$

Arthur Johnston, Greenwood, Oint.


Bred FOR SALE.
Brod in the herd that produced Topsman
and Monesfuffel Lad: sweeneataree at Toronto, all ages competinge wilo Stanley, junior champion over all beef broeds, and heading three first-prize herids at World's
Fair, Chicago. Yonge St. Troules Cars from Union Station
Toronto, paess farm. J. \& W, RUSSELL, RIOHMOND ONTLL,

SHORTHORNS FOR SALE.

W. G. PETTIT \& SONS , manav ort
Scotch Shorthorns





## Spring Grove Stock Farm

Shorthorn Gattle and Lincoli Shepp.


roon heifer call, having for dam Beauty
of Wcodside, winner of third prize in
Shorthorn dairy test, $1903 ;$ to Messrs Kyle Bros," Ayr., the imported Shosss.
horn heifer, Marchioness, bred by C M
 breders are building up a goo.d herd of
Shorthorns of the right type..

Mr. Wm. Colquuboun, Mitchell, Ont.,
writes that he has sold and delivered to
Mr Mr. B. Bender. of Falmenston ontivered to to
imported four-year-old
Clydesdale stal-
lion
 gregor (1487), dam hy Prince of Fashion,
grandam hy firarney (222). Mr. Bender
and his district are to he
$\qquad$
$\qquad$ das to his value.

John Miller $\&$ Sons, Brougham, Ont,
write: ". The first sale of Shorthorns we made this year was the imported bull,
Royal Prince (71490), to Dovid Birrell Greenwood, Ont. He has beend our chine
stock bull for six years, and we now
hote have nearly thirty of his get in our hord,
including some extra nive young bulls.
In the tot is one of the

$\qquad$
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$\qquad$

just nine months, Gold, and Locks. He is
very large bull. make a
Iow

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Hawthorn Herd or phorthitive For sale Firve young bulle alibo a Rew
females, by Socto surea.
Good onea
om Wm. Grainner \& Son, Londeshoro, Ont.

 FITZGERALD BROS., Mount St, Louls, Ont. Shorthorns, Clydesdales, ORKSHRES

 SHORTHORNS (Imp.)


EDWARD ROBIMSOM, Marhham P.O. \&Sta GHORTHEORNO.
 SHORTHORNS FOR





 GRANDVIEW SHORTHORNS:



## SHORTHORNS.


H. K. FAIRBAIRN,

## SHORTHORNS.


 EBDIIOND BROS..: millorook sta, ane P. a Shorthorin Cattlo, Lineolin Stivep

## Imp. Prime Mantaer ot head of hade It monee innoilea mon more timy hit



MAPLE LODGE STOCK FARM, 1854 Am oftering a vols supertor 100 of
Shorthorn Bullsand Heifers

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& \text { something VERE attr } \\
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Chbioo awes rot boi imported "stiteley", and bred to om A.W. SMITH, MADLE LODO O

 Greangrove Shorthorns Noubbor ${ }^{35}$ hem




 Shorthorns and Clydesiales:


$\underset{\text { laremont Sta, C.P.R. }}{\text { JOM }}$ \& Brongs.

 Imp, Shortherns and Lineolns nodarion moguan. nomivoir. r.o. An ora...

Scotch-bred Shorthorns,
 L. K. WHBER, Hawkesville, Ont. MANITOULIN SHORTHORNS
 SPRUCE HEDGE SHORTHORNS


GMAS. RAMKIM, WYEBRIDGE, ONT. mprones and matron or SHORTHORN CATTLE and
OXFORD DOWN SHEEP. Firid berded by Pride of soothend (fimp.)
 Hots HORTHORNS

Shorthorins Lincolas A tome ohoioe


Shortions, Borkstires and Leicestors.


SHORTHORNS ${ }^{\text {EOLR}}$


 parchusides. RICHARD WARD, Balsam, Ont. FLETCHER'S SHORTHORINS



 Scotch Shorthorns. Leicestor shoep For




WILLOW BANK STOCK FARM. SHORTHORNS AND LEICESTERS
 herre We breed the best to the best Leicester
sheep of rare breeding and quality. Address

 Scotch Shorthorn Cattle and Berkshire Swine


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partiasid, to make any ow under $O U R E$
L. P. Sstiegk. Drugerot.

The New Remedy for Catarrh is
A Grand Rapids gentleman who repro-
 regarding the new catarrh cure. He savy ". After suffering from catarrb of the
head throat and stomach for several years, I heard of stuart's Catarry
Tablets quito ecocidentall s, and, like every thing. else, I immediately, bought packeage and was decidedly sururised at
the immediate reltel it affrcrded me, and the immodiate rim
stil more to the
several weoks

"I have a little son who sings in a
boys" chor in one of our prominent
churches and he is on tiy currches, and hi is greatly troubled with
hoarseness and throat weakness, and on
and my return home from a trip, I gave him
a few of the tablets one Sunday morning when he had complained of hoarse
ness.
He was delighted with their nessect, removing all huskiness

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| :---: |
| strong. |
| As |

 ing him to use them regularly. were an antiseptic preparation of un-
doubted merit, and that he himself had no hesitation in using and recommending
Stuart's Catarrh Tablets for any form Stuarts
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ment.
They act upon the blood and suucous
memban
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## 12

Shorthorn Bulls

R. MITCHELL \& SONS,

Nelson P. O., Bulington Jct. Sta.


> TRADE TOPICS.
$\qquad$
borthorns and benkehimes


 CEDARDALE FARM, For sate thro young

 "Triby" "Bount" and "Morn" dams, DR. TM SIORTIOR GOTTTLE AND




## 3 SHORTHORN BULLS 3

FOR SALE.
Two 2-ygar-olds, 1 bull oalf, all of good breod
ing and from deep-milking stralins. right. Also heifers for sale.
W. B. ROBERTS. - SPARTA. ONT Shorthorns, Leicesters FOR BALEE-1 yee and Berkshires. $\quad \begin{gathered}\text { ling bull, bull } \\ \text { hedifo } \\ \text { ehire balves; } \\ \text { boars }\end{gathered}$
 Mertoun Herd of Shorthorns



## D. HILL, STAFFA P. O., OMT.

 Scotch-Topped Shorthorns -(Imp.) Cuptain May Elmira P. O. and Station. on G. T. $\mathbb{B}$ Queenston Heights Shorthorns

Two Sootch bull calves, ohoice
heifers, at reasonable prices.
HUDSON USHER, - QUEENSTON, ONT.
Farm 3 miles north of Niagara Falle.
CHOICE SHORTHORNS.

?

SCOTCH SHORTHORMS


 J. \& E. CHINNICK. Chatham, Ont.
SiIX Eihorthoirn Builie

 Prospect High-class SHORTHORNS FOR SALE: 8 balls from $\ell$ to 18 monthsold
2 sired by Aberreen Her itmp.), 6 by Royal Sailor (imp.). Also some heifers.
S. R. MeUALLUM \& \&
J. WATT \& SON,


 Barcn Lee thin Write fordeene great aweepstakes SHORTHORN BULLS FOR SALE:
Some ready for service, young, and bred fro
 SHORTHORNS, ${ }^{8}$ young bulls, 11 heifer




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 ATTE AND duality．young duairty．Young rearling ball
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OERIMTT， inke P．O．， thohils ，wix Exam Ros． 2Bule mex Ofthoilis为
 4 2x 2 en exw en ine 2 4 Hitixiz widiz

Januait 28,1904
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 managment of his Mis ssouri tarm．

THE FARMERS ADVOCATE


## 3 FEEDS EOE ONE CENT

## HOW＇S YOUR HOGS； HOWS and HORSES？

$\qquad$
Drar Sir：－Wh Food Dkar Sir：－When we first tested＂laternational separate pens，and gave them the same amount of day over the The pig being fed＂International Stock Food，＂shortly after using it，made a gain of one poond per it upon our horses while doing heavy wort milch cows and calves，over two pounds per day．Have also tested out of the horse－power while threshing wetter stock food．One of our mares got cut badly by being thrown sults．Any man who keeps stook should have it on hand your＂Silver Pine Healing Oil＂with the best of re－ mendation of your goods that I have tested．I remain，Very truly，fours cat say too much in recom－






## A s300000 STOCK B BOOK FREE

BOOK OJNVANE 183 CARGE ENGRAVINGS OF HORSES，CATTLE，SHEEP，POULTRY，EYO








Waster I．ynedoch（imp．）．Sunnsstde，
Hark
tark bay，white strip．and three whit
tmentary conmilteess by the names

等：

## a our Present offering wa <br> 17 SCOTCH BUILLE

## Innported

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e日aling．
and reasonable prioes Catalogue are



## AYRSHIRES

WATSON OGILVIE， PROPRIETOR






## ROBERT HUNTER，Manager．

Unara mintifromel olootrio oara．Lachine Raplds，P．Q．

Special Notice for＇Imme－
diate Sale！

Two Ayrshires，One Guernsey，
 from selected dams，importcod sire，firtst quality，woolled correcty．ISALEIGH QRANGE FARM，

## Riversido Holstoins

 Matt Richaris son \＆Son conaconin wo．


 Brookbank Holsteins Mashaty


HOLSTEIN BULLS
 Lyndale Holsteins
 Sid
 brown bros．，Lya，Ont
HOLETHLNE

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HOLSTEINS Axp TAMWORTHS


 Mildgedtele Farim Holstelins Bulvand he itor
 Re wrath we. votow Pry, G. T. R., and ATRPAHIRE BuI1s. Two it for servioe two Maroh oa
 MiOH-OLAB8 AYRBHAREOATTLE



DAVID LEITCH, CORNWALL,
AYRSHIRE CATTLE. Altew choioe bulls fit for service, and bull
 G.T.T.R and O.N.


 Royit star ot ste Anot (T916, vianer of ittot To.


 STOOKWOOD AYRSHRES.


Manie Stack Farm andioididid
 SPRING BROOK AYRSHIIRE $S_{\text {for prod }}^{\text {for prodt }}$


 DAVID A. MCPARLANE,


AYRSHIRES AND YORISHIRES $\left\{\begin{array}{l}x^{2}\end{array}\right.$

YORKSHIRES in pairs not akin now
ready for ahipment. sIX AYRSHIAE BuLLS out of big, strong,
deep-milking dams. and sired by Comrades
Heir of Glenora (11996). Cheap if sold before \& SEND FOR CATALOGUE. ©
J. G. CIEARE,

 ductiveness. Come or write. For Sale at SPRING BURN STOCK FARM


 J. BERGIN, Cornwall, Ont.

the value of charcoal.
Fow People Know How Useful it is Preservipg Health and Beauty.
is the salest and most omelont dialmis the salest and most amelont dialnroalize ite value when talton into the human system for the name cleansing purpose.
Charcoal it a remody that the more
you take of it the botter: it to drug at ali, but stimply aborbe the not a and impuritioe elwaye present in the atomach and intertines and carrios them out of the ayatom.
Chareoal sweotens the broath aftor and other odious vergetables. the compleation. it whitears the tooth and further acte as a rieturel and eminently It atherthart.
It absorbs the lijuritous gasos wheh disinfocte the mouth and throat from the polton of catarrh.
All druggiste bell charcoal in one form or another, but probably the bert char-
coal and the most for the money to tin
Stuart Stuart's Absorbent Lozenges : they are
composed of the finest powdered Willow charcoal, and other harmlose antiseptics in tablet form, or, rather, in the form
of large, pleneant-tavting lozenges, the charcoal belag mixed with homey.
The daily use of these lozenges will of the general heeith. bettor comploxions, beatuty of it is, that no possible harm can result from their contlnued use, but on the contrary, great benofit. beneats of chercol. apeaking of the Stuart's Absorbent Lozenges to all and bowels, and to clear the complexion and purify the breath, mouth and throat,
I also believe the liver is greatly bene also believe the liver is greatly bene
ated by the delly use of them ; they drug stores, and although in some sense a patent preperation, yet I belleve I get
more and better charcoal in Stuart's Absorbent Lozenges than in any of the
ordinary charcoal tablota." IMPORTED AND HOM
AYRSH|RES The average butter fat tert of this herd is
4.8. A few young bulls and females, all ages, Roht, Hunter 8 Sons, Maxvillo, Ont.

AYRSHIRE CATTLE 2. Pounck Fowl and
J. YuIhi, \& SONS.

Maple Cliff Dairy and Stock Farm BERKBHIRSEMRE OATTLE TAMWORTH PIGB, Sperial offer this month of TWKNTY-
FIVE YOUNG BOARS, fit for fall service.
They are good ones.
 SUNNYSIDE AYRSHIRES.
 .
.W.LOGAN, Allan's Corners P. O.. Howick Sta., Quee.
"THE HUME FARM." FOR 8A LEE: The 2od-prize under-1-year, bull
of Toronto, tuil brother, dropped Aug. 88,193,
and ont

Ayrshires for sale


## Dorset Morn Sheep

 hibition and Canadian exhibitions. Con-
laine morere Royal winnera than any onther.
A warded 5 out of 8 first prizes at Toronto, London and Ottawa in 1900. Flock of 300 .
Stock for sale ellways on hand.
ohn A. Mcfill|lray. Uxbridge, Ontarle. IYRS HIRES

## GOESIP.

When Lord Kitchener was in Ireland he visited the Wishing Well at Killarney, with two plain, elderly spinsters. Beside the well sat an old Irish woman,
ho looked up into Lord Kitchener's handsome face, and asked
" Pbwat are you wishin'
What do you think I wish for?" "he good-naturedly inquired.
"Och, thin, for a beautiful
He pointed to the two spinsters, who stood at a little distance, and sard :
" Don't you see I have two with me?"
"Ah, thin, it's the grace o' God you'll
etic old woman.
In a cathedral. one day after service,
the bellows-blower said to the organist Cie bellows-blower said to the organist,
I think we have done very well to-
day." "We !" suid the organist, in no small menial: "how can ycu pretend in
have any merit in the performance? Never let me hear you say such a thing again. ime, but when they were next playing flating the organ. The organist rose in wrath to order him to proceed, when
the fellow, thrusting his head out from behind the curtain

Mr. John Lahmer, VIne. Ont.. writes:
.- My sales of Berkshires for the year
just closed has exceeded my expectations
just closed has exceeded my expectations
very largely. the result of advertising
cent. of my sales last year were mail
orders, many purchasers repeating their
rders. In the mons
orders. In the monch of Novemter. I
I sold to Mr. J. Haycock, near Inperscli,
seventeen pigs, the largest consigment
of Berkshires to an Ontario buver in
of Berkshires to an ontario huver
many years. These hogs I deliver
personally, and, upon my visit to M
personally, and, upon my
H.'s farm, the thought struck me, how
fortunate it would be for pure-bred stock
generally if they landed in such pleasant,
roomy and comfortable quarters. The
roong and comiortable quarters. Water,
larder well provided with lots of
and the eye and the vigilant hand of the
 genial mistress and famtly made my sho
visit one long to be remembered."

Dun-edin Park Farm. the home of Mr.
W. W. Everitt, Chatham. Ont., breeder
W. W. Everitt, Chatham, Ont, breeder
of Jersey cattle, Was vistted by a repre-"
sentative of the "A Farmer's Advocate."
of Jersey catne, Was armer's Advocate."
sentative of the "Far.
who found Mr. E. busy preparing the
product of his herd
who was waiting for it. Mr. Everitt
has twenty-6ive head or registered Jer-
seyc.
seys that have every appearance of boing
heavy producers of both milk and butter.
They are mostly of the St. Lambert
strain, several of them naving a daily
Records of see enteen pounds of butter in
seven days, and four hundred pounds in
ne year are also to le found in this
herd. Carnation's Flower, hy the cham-
pion. Belvoir King
ion, Belvoir King, also Charity of Glen
Rouge, bred by Mr. Rolph, of Markham
nt, are among the cows that have
ven, and are still giving, excellent re
Whd Rose of Kent is another
of Slvecial mention Rosy's
Rol
Minden Oxforde Imported and home-bred stock of the
choicest breeding always on hand.
R. J. HIINE, Dutton, Eligin Oounty, On

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A few good ones, bred to first-class imported
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Rock cockerel Rock cockerels, equal to the 1902 biriss, which,
with out ex eception, pleased customers. Prices
$\$ 1.50$ and $\$ 2$

JOHW CAMPBELL, Woodville, Ont.
Lincoln Sheep and Shorthoorn Cattle
 and
F. H. NEIL, PROP.

## W, W. CHAPMANI,

soentiant of fhe Mational shoop Brood-
Socrotary of top Font or Rommoy Marah
and late soertary of, the Southdown


Androses:
: MOWBRAY ROUSE. MORFOLE ST, LONDON, W. C.0 ENGLAND.
Cablee-shoopeote, London.
SUSSEX CATTLE




c. Warde, West Farlelgh, Kent, England. SUNNYLEA FARM

## THE RIBY IIERD and Flock

or BHORTHORN CATTLE AND
LINCOLN LONG-WOOL SHEEP HENRY DUDDING.
Riluj Grove, Great Grimsiy, Lincolnshire. To frot Champlons by the produe of
Champlons These can always be becurod
from the Riby Grove Herd and Flook, the from the Riby Grove Herd and Flook, the
largest in Kogland comprising the ooloiost
lines of hlood extant Thire liargest in bood extant. Themirs It a world wide
linputation, and sufloe to ear that at no poriod
 giron in 1901, and oqually good results zeoured Smithifild Show, Whero its pen of wethers won Con of sheop of any she or breed; and at
Cheas itve stock show, in Deoember latit. Wrizo offered for the heaviest sheep in the

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" RESERVE" POR CHAMPION IN THE SHORT CLAB8Es, 8MIT,

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This hishly valuable ENGLISB BHEFED OF matzartity and hardinees in of oononderition, aly capted to
all cllimatea, whilst in the qualty of mith all climatea, whilst in the quality of matton and passod; and for orosealig porpues with any

JAMEX E. RAWLENCE,

BALIBBURT, ENGLA, IN
CLAYFIELD STOCK FARM Cotsw
and ye and yearling ramp bred ewes and ewe lambe ; in ported and Canadian-bred. My flock has won 131
firtes and 85 seoonds at Toronto, London, Guolph and other oounty show, aleo sil ver medal and tiv
diplomas, during the last two yeare. Shorthor ready for shirment, Two yearling bulls, noe six
montes bull and several yong heitere of ohoice
breadis.
 three very oboloe two-year-old and three yoar-old

Me Rioter, the Toronto champion, b
illium's Rioter, he ty Canarda's Si
eorge, a wonderful show and
hey are thrifty and of good dairy form,
ih strong constitutions, and should
near future. Vita's Riotress, a heif
hister is well-tanced ulder. Hery young

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When the liver pets torpid and in-
active, bile is left in the blood-causing active, bic
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Indigestion results, because the liver is an impartant organ of digestion. the liver is nature's own cathartic.
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Cem-pain, suffering, chronic disease. By their extraordinary influence on the
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the use of this great medicine. Lock for proof to the thousands of
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 Fery to broed and youngor fooot, all ot the ide
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    Then the thation. and now they are going from us,
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    Uhe agricultural community from other parts
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    hey stay within the Empire. They are not altogether
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    ve wish them golden fortunes. Making due allowance
    or the bright colors of a sanguine optimism, there is Co Atlantic than they have been here for thirty years the Atlantic than they
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[^1]:    sheaves one day." Only God knows who will reap the

[^2]:    

