## PAGES

MISSING

## $\Sigma_{h o}$ <br> Persevere anc Succeed - <br> Farmer's Molvocate and Home Mragazine

Vol. XLII Gow

EDITORIAL HOW SHALL THE BURAL SCHOOL BE RE FORMED ?

Farmer," "The Farmer's Advocate" for Novemuse, N. Y., by United States Secretary of Agri-
ulture Wilson, on the ." Inprodutive Fise which he charged the educational system with ping thene only for other pursuits. mended the agricultural secondary schools, which rould be fueders of the agricultural colleges, and or beginning the study of what pertainc optunities ife-work. "But why," we asked, "should the beginning' date in the Secondary or High oundation is laid, and, for the great majority of sur growing population, the educational supermompleted ?".

An attentive and critical reader of ". The Farm-
r's Advecate," whose opinions we rites. though not for publication, interpreting he article as not altogether approving the be-
tinning of agricultural instruction in the High ichools, as is now being tried in Ontario. Now, "lasses as a hopeful sign in the movement for a ion against speedy and great expectations a cauattituld, we believe, shared by those who planned work will not remain in these High Schools the gradually work down through the public schools y means of the agricultural instruction given hose whe purpose becoming public-school teach-
Thes. ers. These six High-school class teachers are
carrying on a campaign in the counties where carrying on a campaign in the counties where
they are situated, attending meetings, arranging or short courses, and showing to farmers that hey can give instruction of value to their sons demand for it
Our corvespondent states that he does not see e public schools without a pretty expected in rganization of the school system.
That is precisely what we are contending for Thoughtful people have begun to realize at what a cost to themselves their children have been lured irom the country, and inspired with no love nor
ability for success in its pursuits if they remained there. Confessedly, there are difficulties, but the problem will not be solved until solved aright. All but a comparatively small fraction of the Cotal school population, cities and towns inTuded, receive their education in the common
schools, and 58 per cent. of it, we are officially chools, and 58 per cent. of it, we are officially
old, depend upon the rural school alone. Its haracter is, therefore, vital to the education of
he people. Agriculture being the most impornt industry of this country, the school system - should have some relation to it. A reform at ' the university.
In the Ontario school system there has been an optional provision for teaching agriculture as a
sprecific subject, but with very indifferent results. specific subject, but with very indifferent results.
To teach agriculture, per se, as an art, or the

I,ONDON, ONTARIO, NOVEMBER 28, 1907
First.-Improve the grounds, buildings and
quipment. Good schoolhouses and churches are neighborhood, and enhance the value of its farms. Make the grounds roomy and mo there and be proud folk will delight to school garden for growing flowers and Provide plants. Teach the students to use and other A more mistaken notion never got abroad tha that education is just accumulating facts tha memory. To be educated, is to be so trained as to use aright all the powers of the man hysical, mental, and moral or spiritual. (Watcin The Farmer's Advocate" of Dec. 19th for and resume of the experience of teachers in chool-gardening and its benefits.) Inculcate the herity of labor and the wholesomeness and supe walls and the appara. Let the pictures on the the farm and the farm idealize and relate to bright hooks on nature and the flenty school library, with some that parents in th need be, refer to. Don't fill it up with a lot good literature.
Second.-Revise and improve the text-books. Put more of the beauty and purpose and atmos-
phere of the farm and farming into the phere of the farm and farming into the readers Color arithmetic with problems that relate in preve farm and the farm household phasec of the enquiry. Give the mathematical phases of the mechanics, chemistry and commerce erage and commission make more of the intimate relation betwe migh subject and farming. out an enlightened and liberal policy, giving the preference, at a better salary, to a man or woman teacher brought up on the farm and in sympathy with farm life, rather than one from a hition from the farmer's or her from estimating life Fourth farmer's point of view.
select men for the position county councils to spectors who are in sympathy with agriculture and agricultural education, and who have had sue cessful experience in rural public-school work. The Departmental regulations governing the qualifications of inspectors should lay as much emphasis there as on his university attainments.
Fifth.-Wherever possible, maintain the ad vanted or continuation class; do not allow the school to be run as a mere feeder of High Schools Restore the prestige and ellciency of the rural and extra High-school education outlay, maturing the scholars under the more wholesome home and local school conditions, cultivating their self-re by kee, and sustaining the progress of the teacher should be encouraged by inspectors in every way possible, instead of crowding them into the High Sixth.-Modify the public and High-school courses. Since it is in the latter that teachers secure much of their cademical training, it fol-
lows that the progra ime of studies, which has lows that the progra ime of studies, which has
been biased in favor of "professional "pursuits, such as law, pharmacy, medicine, etc., and mer cantile occupations, should be overhauled, so as late more directly or indirectly to agricultural life, and which can be used to quite as good educational purpose as foreign languages and Ancient Seventh-Readjust the teacher-training in Model and Normal schools. Here, in our humble
ion. In these institutions the teachers its made and public-school teaching receives quire, through the Provincial Minister of Educafion, exactly what is being dono at the Normal schools that will minister to the needs of the masses engaged in farming. What is to be the character of the new Normal Schools being esthem ? Are the staffis being chosen to man rural life? Why sympathy with agriculture and tion with the Ont an infusion of its spirit might be received ? We are told in the newspapers that, along with their training in the science and art of teaching, the Normal students are to receive much more academical instruction. Is it to be of the old High-School-University pattern, or upon the broader lines of The New Education? A new and younger president ing a new educational page of Education is turn-

ECONOMICAL FEEDING OF CATTLE
The summary of results, given on another page of this issue, of an extended series of experiments in wintering the Missouri College of Agriculture, crops alone young cattle on different forage rations, should combined with different grain ers at the prosent special interest to feedtricts fodder is millfeeds high in price it is important that farmers should have an intelligent knowledge of the most economical methods of carrying over young stock and dry cows, in order that the former may continue to make some increase in weight, and that the latter may be kept in condition to make the best use of their feed when coming into milk again. And the experiment stations, having the necessary facilities for decermining the resulcs of different methods of treat private individuals, their investigations should be accepted as throwing valuable light on these proble
Among the important lessons conveyed by the bulletin in question is the relative feeding value of clover and of timothy hay and cornstalks, showing clearly the superior nutritive effect of Cover, especially for feeding in combination with the carbonaceous fodders, such as corn and timthy, and strongly emphasizing the importance to quantities this commonest of the legumes, and the one requiring the least expense or skill to grow, harvest, store or feed. Clover is one of the most valuable stock foods produced, and, instead of impoverishing the land, adds immensely (o its fertility and its power to produce more bountiful crops of grain or roots or corn, gathering from the air nitrogen, one of the most valu able and efficient of fertilizing elements, and storing it in its roollets for the beneft of future moisture in the soil and food for the plants that follow. As a sequence the gospel of clover grow ing, which is the salvation of farming in this country, should be more earnestly than ever preached, and taught in season and out of season, through the press, the Farmers' Institute system, the dairymen's associations, and every other available channel, so that enthusiasm for the culture of this great forage crop, in conjunc tion with its legitimate running mate, corn, may become more gencral und widespread
In view of the unusual scarcity and the proba-有

THE FARMER's ADVOCATE

## and Home Magazine.

## तhe leading agricultural journal in the

 DOMINION.
John weld, managrr.
Farmer's Advocat
W. W. CEAPMAN, Agent, Mowbray House

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nidual connested with the papers. as below, and noi to any
HHE WE FARMER'S ADVOCATE,
the william weld company (Lnems
Lommon, carama
tity per acre to sow, the best method of covering the seed to insure a catch, the best grain crops lecting the seed down, the best means of proheat of the sumg plants from destruction by the crop, and of avoiding the harvesting of the grain and heaving out by spring froezing in winter gage the attention fing frost, may well enfor discussion and interchange of form a topic ing the winter months. It is an acknowl dur fact that heavy losses are sustained in some years from clover seed sown with a so-called years crop failing to prove a satisfactory catch or rom being burned out after harvest, or heaved or value of the And the loss is not only the cost a crop of the seed, but the consequent loss of and soil fertilizers, iost valuable of stock foods proved system of crop rotation with the most appoverishment of the land by a sucessiang im crops. The title " nurse crop" in this connection is really a misnomer, as there is ground for believing that a grain crop robs the clover plants
of moisture, and shades them so that the tendency is to a slender growth and peculiar sensibitency the heat oi summer, seen in case of dry weather after-arly in historvest, but we presume it is yet too carlo in history to advocate sowing the seed other crops of sowing it with a stronger-growing crop, taking chances for success or failure as long as the ex perience proves that the prizes are in greater proof consideration, whether by sowing less grain per arre than has been customary, an equally good vield of the cereals and a stronger stand of er prepared to resist a urought aftor the emain Another good point, which we have already arom
gume which should be more widely gro
the greater portion of Waters, in his summary is alfalfa in its best condition is, without are th and wheient than either clover or cow ea either of in ordinary condition is fully equal

NATIONAL ASPECTS OF LIVE-STOCK HUS BANDRY.
In a country like Canada, ectuliarly wel the rearing of pureck general, an various Provincial Departments of Arriculthe have, in the past, naturally and wisely dircter their efforts largely in that direction, by means exhe securing, the dissemination of information, and he securing of better transportation facilities, The Provinces have received aid from the Livericulture, under the Dominion Department of Ag . Sydney-Fisher the administration of Hon. lated upon the servicter, who is to be congratumore thorough organization rendered. With the service in the older Provinces the agricultural tion in the new Western Provinces its inaugurashould be relieved of such educational Dominion Farmers' Institute lecturing and live stock jud ing schools.
The most signal and important achievement in ecent years, at Ottawa, relative to the pure-bred live-stock interests, was the adoption of a system headquarters ang upon a national basis, with trol of the breeders Capital, but still under conBranch will then, the Dominion Live-stock wider questions affecting the energies to those ment and improvement of sur all its national aspects. For this tock trade in the Live-stock Commissioner, Dr. Jery reason ford, is wisely associating with the service well versed in various aspects of the inductry and seeks to strengthen his hands by means of the National Association, called again to meet in in " The Farmer's Advocate,", as already outlined in "The Farmer's Advocate."
and ranned-goods inspection of the dressed-meat edly tend to encouracetion service will undoubtproducts. It is a ane an export trade in these public abroad is a most evident fact that the some foods, and though there will insist on wholeand there in its inauguration may be friction here ice has not come an hour to inspection servand cheapened facilities, with soon. Improved getting dressed meat to its destination speed in be demanded, as well as for finished beeves soon hoof, and a thorough inquiry into the production of the latter, with a view to greater certainty shofitable returns, is assuredly in order of should involve questions of breeding, feeding and early maturity, as well as transport. In view its relation to beef-raising, as well as dairying. gramme of research in relation to the gunstion the combination cow, upon which farmers would And then, what of the Canadian sheep and supplied with toothso are our markets not better there not many areas of the country peculiarly well adapted to an extended shcep industry? Has the sheep any place on a dairy farm? What direc be done with the predatory dog? What's to trade? These and many other it of the of the upon the cxtension and ather problems bearing
may well receive may well receive greater attention on the parting a national live-stock organization than they have
in the past
The collection showing thection of accurate statistical and drouta.
stoch industry of Canada. indicating of the liveareas or conditions in which crotain hereeds of useinl field for national effort another large and

taitor "' The Farmer's OF TH
The farmers of this Proving great obligation to "The Fa are under a w for the article in a recent issue under Advocate

Farmers are proverbial grumblers doesn't always suit them, and prices are woth ways adjusted to their way of thinking. The
feeling has been growing of late years that farmer has not been getting a fair share of the rovaing prosperity. For the farmer's failur various reasons have been offered, and the of life liffeutairy before us. Perhaps the solutionsue is sk if the in the farmer himself, and I wish as he should? For instance, work and himsel yer from a distant city is to be his guest ancertain day. How will this legal friend be on a tained? is it not a fact that the best in celler and pantry will be put at his guest's disposal suppose that his guest should be a farmer from an adjoining township. In this case, would there not, why not. involved more than answer to this question is Anothere than we think.
farmer is, sav, is worth considering tional reputation at a fair, the one a successful one will the farmer be the politician. To which Again, a farmer's marriatere likely to defer two successiul young men at a daughter meets professional man, the other a farmer Matters a wealth and character being equal between the of roung men, in the event of both of them becom ing suitors for the daughter's hand, which of the aro wifl the farmer and his wife be the more kely to encourage?
of snoblishness for a moment accuse the farmen well to think mor funkeyism, but farmers will do their vocation. worthily of themselves and of more exacting demands upon the world makes tual faculties than is made by farming pation in the world has brighter prospects before it than are held out before the Canadian farme just now. No doubt agriculture has its draw admire the business every other occupation. We cessfully manages a departmentan who sucsometimes forget the but w wine and its orchard, its garden, its horses, it concern, with all the problems really a departmenta mental store, together with scores of problem connected with living organisms that the city gards the dreams about. In importance, as re far transcends that of the race, the farmer's work fessional man the wide any manufacturer or pro One of the problems world ove
 litter of the into his own. The noise and ittle to do with making some have had not a women believe that farm some young men and drum, but the present financial panic proves huma deal of what seemed so attractive was, after all, only empty show. When many a business Inan is being crowded to the wall, and bcorisess
men reputed rich men reputed rich are being proven to have pos-
sessed fortunes of only fictitious value, the age Canadian for only fictitious value, the averge Canadian farmer has the pleasant the aver-
$\qquad$ furnishings, in comparison with tho convences and house, are turning out to have been huge arm-

INSPECTION OF RURAL-SCHOOL CONTINUATIO
answers itself. Let the Department make $\mathrm{Mr}_{\mathrm{r}}$.
Cowley Assistant Superintendent, and let his purcific duties, outside of the Department, his
Rural se County Inspectors back the Continuation Classes.
Ctawa, Ont Ottawa, Ont.
R. STOTHERS.

## HORSES

QUALITY IN HORSES.
There is no sabject upon which there seems to than as to what constitutes amongst horsemen than as to what constitutes " quality " in a
horse. It is a term in very common use but if you ask a number of horsemen what they mean by it, you are sure to get a variety of answers. One will say it means breeding, another conforma-
tion, another finish, another " class," symmetry, another individuality, another an an ac centuation of all fine points, another magnetism, tion of some or all of these perhaps a combinasay that quality is recognizable, but undefinable and unexplainable. cating a special attribute in an individual indias being well bred, well conformed individual, just finish, are attributes of some individuals. When that he has a special attribute whity," one means may not be combined with any which may or may not be combined with any or all of the
others mentioned. Of. course, there are varying degrees of quality, so that the term can only be used in a comparative sense. In the light mously with breeding, Certainly, the more warmblooded a horse is, the higher the degree of qual ity he is apt to possess ; but one may take two equally well-bred 'Thoroughbreds and find one gree of quality than the other, so that breeding and quality do not mean the same. Neither does quality signify the possession of symmetry, good be defective in any or all of these A horse may still possess a high degree of "quality." He may be fiddle-headed, lop-eared, ewe-necked, sway-
backed, flat-sided, slack-loined, cow-hocked or backed, fat-sided, slack-loined, cow-hocked or calf
kneed, and yet show much "quality", Much confusion is caused by using the term "quality" synonymously with "class." Horses are spoken of as high-class, medium-class, and so
on, indicating the degree of excellence which they possess for the purpose for which they are best suited. Two individuals can be taken as an ex-
ample, showing equal "quality" but one ample, shewing equal "" quality," but one of
them, on account of better conformation, more them, on account of better conformation, more
style and action, may be worth twice as much as the other, consequently he is a higher-class individual, although the two are equal in "qual-
ity"" so that "quality" and "class" do not or conformat quality" does not mean breeding or a combination or symmetry, or finish, or class, does it mean? It is an easier matter to explain what constitutes "quality" than it is to give a nition of what it is. It may comprehensive defifined as fineness, in contradistinction to coarse ness of texture. How frequently one hears a prosperous purchaser say to a dealer : "He is a very nice horse, but very light in bone." The
dealer replies, ", Yes, but his bone is of good "quality.", It is a fact that the bone of gome horses is much more dense or compact, and is, as the dealer expresses it, of better "quality " than auses this
of some individuals than density in the bones The fibres that form part of the the of others?
individual of high "of an individual of high "quality" are more slender than those of one of less " quality." One can
appreciate this even with the naked eye in exam ining the walls of horses' hoofs. 'In a horse possessing a fairly high degree of "quality," the ing the basis of the wall, are most palpably finer than in those of the wall of the coarser individual. So with the bone; the elements that combine to
form it into a horse of high " form it into a horse of high "quality " are fine coarser individual.
What you find in regard to quality in the bones of an individual, you find pervading all the with coarse bone and fine skin, or coarse skin and fine bone. If the bone is fine, or has "" quality." in an individual, the muscles, tendons, ligaments, skin, hoofs, hair and all other tissues which enter
into his composition are equally fine equal "quality." The "quallity" of a horse's bone may be perfect, but undue or disproportionate length, or other defective form, or faulty reconformation very imperfect, indued, so that it is difficult to understand why some horsemen think there is any relationship between "quality" and A high
A high degree of "" quality " is apt to be asthat a horse can have too much quality. Size, or, more correctly, substance, is strength, other
things being equal. A horso with a high degree of quality may be so lacking in substance as a to impair his power for the performance of work or severe tests of endurance or sneed. He may be
so light-limbed that he cannot stand the wear and tear of hard work and romain the wear sound. We often find horses that are superfine with disproportionately small feet, and every ex perienced horseman knows that it is seldom that such horses do much work and remain sound. providing it is combined with suffcient substance for the nurnose for which he is required. A high


## THE FARMER'S ADVOCATE

most important attributes in contributing
perfection in horseflesh
There are many everyday evidences of the ill consequences of deficient quality in horseflesh. You and he points about the skin of the fetlocks, to inclined to fill which extend up to the sheaths of his wack tolls dons, and whose hocks are inclined to be puffy
throughout. If any kind to the skin of his legs, the consequent swelling is apt to extend, and is inclined to re main. Abrasions, cuts, cracks and scratches to rebone are very much inclion and direct injury to enlargement, such as inclined to result in bony have not well-defined limits. Standing out and legs. There is rapidly produces stocking of the Feet are inclined to predisposition to greasy legs bruised. Thes active nutrition, a meagre blood supply develop windgalls and Horses with " supply and in ficient cause, but their character subected to sufthose of the coarse horses in being clean-cut and well defined, and not having the tendency to bog spavin, but horse with quality may have a prominence, and not as a round puffiness of th Draft horseut.
or more than those whe "quality " just as much breeds. The difference in the " quality ". of ing dividuals of the draft breeds is just as well marked as in the light breeds. Take, for inhave a considerable quantity of lor of which will back of his legs, which is often referred to as "feather." If this hair is found to be fine and is possessed by an individual that shows "中at it ity" throughout. His skin will not be coarse and beefy, his legs will be fluted, his bone will structure. The hair of his mane and density of fine, like that at the back of his legs. tail will be nence and depressions formed by the bones of his in fact, shows ": thact, shows "quality." when compared to vell bred; as far as possessing the characteristics of the breed, and as far as the studhook is a ample of the fallacy of the view is a further ex and breeding are the same thing.

## CANADA'S GLANDERS POLICY ENDORSED

 It is a tribute to the common-sense merits the Canadian method of dealing with glanders, in rector-General, to find that, after noting the Di sults of the work done in Canada during the past three years, Great Britain has adopted much the same procedure, viz., by the use of mallein as adiagnostic or discovering agent, then slaughter the reactors, for which compensation will he paid Half-hearted measures have heen found of little or no use in dealing with such a disease. In 1906 nearly 2,600 horses were destroyed, at a cost for
compensation close on $\$ 150,600$. The Western
Provinces were the Provinces were the ones chiefly infected.

## A WARM RECEPTION

 Enclosed find remittance to end of 1908 , Nopaper that comes to us has a warmer receptio
Haldimand cos.

# HANDLING COLTS 

The winter season now being with us, and the men and boys of the farm, not having much to handling the short time each day profitably in od of " breaking colts" by hitching one either with an old horse, or two togetiner, and without any previous preparation expecting them to go to work, is wrong, few will deny. With many many, especially highly-bred, nervous animals the results are not good, and with none are they as good as when some time and care has been spent in gradually preparing the colt for service.
The ultimate value of a colt depends greatly on his habits and manners, and these, of necessity, depend largely upon his early handling "eolts should not be "broken," they should be thatucated." We do not mean, by " education," they should be gradually taught and prepared to perform the functions for which they are designed. While we do not approve of working imwork, we think that they should be handled while quite young. The colt should be taught to lead fand tied, have his legs or feet handled, etc., beshould be taught to lead behind a racticable, he beside a horse in single harness for exercise during the winter months, when he spends the most of his time in the stable, and unless turned out All acknowledge that exercise is beneficial growing animals, and, if given it in this way, it teaches the colt manners and obedience, in addi-
tion to affording the advisable be continued the second and third winters if this the addition of added education given gradually he will be practically educated for service by the
time he is three years time he is three years old, when he may, with
safety, be asked to do light work light road work. We wish to speak now farm or idea of the manner in which a colt that is pracyears of age should be treated at three or four granted that he has been halter-broken (we for the word " broken " because it is a term so use used and well understood). If he has not been must be understood that be his first lesson. It ing him, we should have halters, harness teachetc., that are so strong that he cannot break them, in order that the teacher, trainer, breaker handler, or whatever we wish to call him, may,
on all occasions, be in a position to gain the mastery. While it is unwise to have the will of
the colt and the the colt and the trainer to come in contact, i in a position to gain his point. The colt being halter-broken, the next thing to do is to give him a mouth, or, in other words, get him accustomed to the bit. This cannot be done quickly. If he once, he will fight the bit, plunge to drive him at his mouth sore; and if the practice be continued A light a danger of spoiling his mouth for life. Ahould be selected. With an ordinary snaffle bit left on, with the colt in a roomv box stall or paddock, for a few hours in the forenoon, taken in the afternoon atc for a fow for a few hours he will fight the bit, but soon becomes accustomet to it, and will be quite contented. and even eat and drink with it in his mouth. Then some pres-
sure should be put on the bit. sure should be put on the bit, to teach the colt
to yield or submit to its restraint. This
done by one done by the use of a dumb jockey, or by putting any ordinary surcingle on and attaching a strap

Foreground.

withers forward, and 18618
withers forward, and buckling to the bit ring. If
a portion of each strap be elastic, all the be a portion of each strap be elastic, all the better.
Gentle pressure should at first be exerted on thi bit, and left so for a few hours once or twice daily, and the tension gradually increased untir
the patient becomes accustomed to pressute. It is good practice now to take hin out on a long leading rein and exercise him either in a circle or straight away. All this trainer. Now a set or restraint and obey his should be put on him for a few hours daily, and he allowed to run loose in stall or paddock. The straps, should be allowed to hang so that the etc., but not low enough for him , abdomen, hips When he has become accustomed to this $h$ should be driven on the road or in a field withou to go ahead when told to; to stand at the word $(1)$ whoa, step backwards when told to the word He should be made accustomed to the sights that asually frighten horses, as wheelbarrows, rigs, and, in fact everything piles, traction engines, he taken to teach him that certain words of ommand demand definite actions ; for instance means to step backwards, "steady "" "back " slacken the pace, etc. If we notice means to teamster or driver, we will be surprised to serve how careless he is of these points. He uses team to stop. If the he wants his horse or wants them to go slower, he again says ; whoa, or often "whoa, back," and if the team does as told-that is, stop and step backwards-he wil? he uses the same word or words to express many different desires, according to circumstances. This would prove confusing to a person, and, of necessity, much more so to a horse. If all horses
were taught from the first that certain words command demanded cortain that certain words of ditions, they would soon learn to obey readily but when we use the same word of command we can readily see why we are not conditions. ly obeyed. If. whenever we say "whoa." the horse knows that he is supposed to stop and mand promptly and stop under obey that comditions, and we would thereby avoid many accidents. Hence, we may say that the failure horses to obey commands is largely due to care harness, he should be hitched a few lessons in hitching a colt with a well-broken, prompt-acting horse. We prefer hitching him singly to a two hitched cart, or to a cutter. Whatever he is the harness, as a breaking of either, and a conse quent runaway, teaches the colt very bad hahits him in should be strong, and, if we are driving over his hips and attach it to the shaft a strap should to make it impossible for him to kick He tances at hitched often, and driven short dishitched and unhitched accustoms him to being to stand tied while in harness. For this taught should, strong rope should be used The rope through the passed around the neck and then solid object. It is wise hit, and tied to some or partl a building. so that he cannot walk or the He should around it, as he can if tied to a post break the rope so securely tied that he cannot even though he try as. if he awhich he is tied. casily acquill try all the harder next time getting we commence the habit of pulling. When ance him regularly until he has become quite handy as standing idle for a few days makes him too
fresh, and harder to handlle. When once he be-
comes handy we comes handy, we may increase the distance, and probably do some driving that has to be done. is giving us ; but we must remember that he is not
vet thor yet thoroughly educated, and that we must stilr fome may say that all this is too much trouble. time has been much time, but, after all, little
and the after results and we begin to drive him
and ot out of a well-broken or weli-easure we wilt 0 hg into consideration his extrable value if offered the Catuathe for family or ladies' use. "WHIP." son. of ham Mantoha stallion-owners who ner wal throll thoir horses according to the neg dramution tomk place at Dauphin, and The reconict if guilty, Other cases have-


NOVEMBER 2S. 190
LIVE STOCK
ENGLISH SHORTHORNS IN 190 In reviewing th. path season's doings in shorthot

The than its most urdent whartizans ever anticipated
shine of success and Roran . has basked in the sull shine of success for several yoars hask, din in the sun
Argentine trade; but many considered this state th
affairs would not some of the early sales in Buenus Ayres came to hand
coupled with the iuct that somin of 0 chases as usual, some began to think that many pur-
cooming on the horizon. Then came the news of the
lest scandal in Buenos severe check to the export trade was expected of this, ever, when one comes to look very carefully into the horn breeder hope and encouragement. give the Short some of the Argentine sale averages is explained away by the fact that a number of the animals submitted specimens failed to fetch a remunerativa have high-class exposure of fraudulent practice as regards figure. The the test, has also not been without its benefits. has denounced those who have resorted to dishones
methods, and caused renewed the exporters who have always dealt with theircedin in a fair and honorable manner. The only regrettable feature is that the delinquents were not more severely
dealt with. The sales-ring. eason have in Great Britain throughout the whol the spring, the trade was very good, high prices being requent, Mr. Duthie paying the top figure, namely,
1,000 gs., for the red Hetherwick bull, Achilles. At Kirmingham, there was a large entry, and, though the average showed a decline, and many good bulls changed
hands at lower prices than usual, the prizewinners and hands at lower prices than usual, the prizewinners and gs. being again paid for a bull, in this instance Mr.
Maclennon beting the purchaser nimal being the red Shenley Victor South America, the reeder. Mr. Rapheal, in Hertfordshire. The sale at he Royal is now becoming an important one, and here
he trade continued good. Mr. Royer took out Mr Rothwell's Lord Brilliant II., second in the junior yearling class, at 1,000 gs., and many other animals sold Mr. Harris, a Cumberland tenant farmer, held a The animals were mainly pure Bates, and four females realized 200 gg . or over, the average for the whole
herd being $£ 9018 \mathrm{~s}$. 1 d . A very important series of erd being $£ 90$ 18s. 1d. A very important series of sales are conducted annuanly in Scotland in October, ng the leading event. At this gathering, some sensational Shorthorn history has generally been made; $\mathbf{M r}$.
Duthie's having gone on breaking his own records year Juthie's having gone on breaking his own records year
after year, but his latest success crowns them all. Higher individual prices have been paid; but the astounding average of $£ 407$ for 17 calves, gives ShortTHE SHow-ring
We now come to the events in the show-ring, and
a look through the exhibitions of the past year tells us that we have still some splendid specimens of the Shorthorn left in our land, though the export drain
has been enormous. The old bulls naturally claim precedence, and here one animal stands out alone.
pretion this bull had a
We refer to Linksield Champion. This great record last year, but he was unfortunate in encountering such a phenomenal youngster as Bapton
Viceroy. This year, however, Mr. Millers's great bull
 first and champion at Dublin, and followed this up by
taking the male championship at the Lincoln Royal taking the male championship at the Lincoln Royal
first and the gold medal for best of the breed at the Highland, and first and champion at the Welsh Na tional at Abergstrogth, as well as 50 -gs. cup at the Royal Lancashire, and first at several other importan shows. Linksield corl wears. He was a great hull we have hast year. and this time he comes out well-1-1ig perfection. His beautiful head, full of character, surmounts a magnificent front, while his enormous wealth of flesh and great scale, without a suspicion of rough-
ness, at once takes the eye. He is, perhaps, not quite theless, he is a bull of the type that a beef Shorthori
should be. We understand that Linksfield Champion has should be. We understand that Linkstield Champion has
been sold to go to Chili for $£ 1,50$. Sir Richard heen sold to go to Chili for
Cooper's Meteor is an old favorite of show-goers, and
and though ye at the top of his form. having grown more
this year and thighe that was
massive, and lost the weakness of his to previously noticeable
the Oxiordshire, first and champion at the Nottingham-
shire and several other prizes, but it is regrettable that
 heaten was pat above him. This was at petervory
Metoror has been extensiveiy used in the shenstonn. herd,
he calves by him show great promise. and have

THE FARMER'S ADVOCATE
 King's Royal Windsor, a beautiful roan in Hon of Luxury, thassive frame, and yet showing all the essential points
and Rememberance, by Count Lavender. and champion at the Royal Countier, first and first Adeane's famous herd. Priceless Princess, from Mr. serve champion at the Royal, first and reserve re- pion pedigree dairy Shorthorn at the Royal and chamit the Rove Highland, and first and reserve champion again we have a very perfect speoimen, for she is (illy. stylish bull. carrying Royal Windsor is a wonder- rich-colored, stylish cow, showing beautiful quality, In expansive and carrying a great covering of flesh on has an indication of finishing at a remunerative while ne in his lines, and shows every indication neat and for the butcher when useless as a pail-filler olds were Chather season. Other good two-year- Che dairy Shorthorn.


Beauty
fine type of non-pedigree dairy Shorthorn in full milk. First at Royal Lan-
cashire and first at Cheshire Shows.
Stonecrop, and Mr. G. Harrison's Flvetham Sweet
There were some excellent yearling pulls shown, and
in this section the in this section the Royal herd from Windsor held a
particularly strong hand, with particularly strong hand, with Golden Treasure and Viceroy, was second to lis herd mate at the Bapton Counties, and first at the Bath \& West. He is a gay, Evander with a lot of quality. The dark-roan wonder is by Royal Chieftain, from Eliza XXI. He
Won first at the Royal Counties and the Shorthorn So ciety's prize, won first at the Royal Lanceashire, and first at the Highland, and, if he keeps his present form, will be a great two-year-old, being well grown, very level, parand having along the back and behind the shoulder, well's Lord Brilliant II., the highest-priced Mr. RothRoyal, also won a number of prizes at imp at the The cow classes brought out some a real dual-purpose type, the best of these being exhibited by Lord Calthorpe. This was Sweetheart, by he great bull, Royal Duke, and bred by the late queen
victoria, a magnificent roan cow in every respect ideal Shorthorn matron. She has size, thick-fleshing, and a wonderful udder; but, more important tban this, she can breed winners herself, us well as win, as her
son, Evetham Wweetheart, and several progeny testify. Sweetheart was very successful hen 1906; but, this year, she has improved her record very considerably, being first at the Royal Counties, first and female champion at the Royal, first at Great
Yorkshire, first and 50 -gs. cup at the Royal Lancashire, and first at the Highland. Ursula Raglan, a voluminous winner of Mr. Geo. Harrison's, was also to the fore at a number of shows, including first and
champion at the Oxfordshire; a wonderful type of cow

There is a strong moven pow prossing in
animals, with plenty of size a
cellent dairy quaiifications
now progressing in
Eng lind towards
the encouragement the encouragement
of the cultivation of long - pedigigee
dairy
Shorthorns $\underset{\text { and }}{\text { dairy }} \begin{gathered}\text { Shorthorns } \\ \text { rapid }\end{gathered}$ and $\begin{gathered}\text { rapid } \\ \text { are } \\ \text { aring } \\ \text { Many }\end{gathered} \begin{gathered}\text { strides } \\ \text { made }\end{gathered}$
grand Many grand animal of this type are now
to be found, and new herds are springing up frequently, while
proper reconaition proper recognition ie
being given at the being given at the
showis, supported by a society of breeders
interested interested in this
class of cattle. But class of cattle.
perhaps but
better
 tained if breeders
would use' bulls (bred would use bulls (bred
from millking strains, of course) with more
robust robust trames
rather than the
weedy animale whose weedy animale whose tion is a " Milky"
pedigree. The class of pedigree. The class of
cattle fouhd in the Cumberland dalee are the typea-deep, herrly Bailie " Tavlor's two-year-old heifers was undoubtedly sifer of real Sto trebud II., a very, sweel hort legs, and a beautiful rich roan ind blocky, on aghter of Golden Dawn and Rubina was alor. Th ner in 1906, and this season she won first at Dublin,
first and champion at the Rool S weetheart; firstion and the Royal Countios, beatine at the Royal, and first and champion to swoetheart serve breed champion at the Highland, and was after wards sold at a high figure for export. And was after
year-old deserving of mention Pansy, a very level heifer of great substance, Roan rather on the small side, conslderlig great substance, bu
at a number of shows at a number of shows, including the hath \& \&ese. Weat, and
was second to the ritlivie heiter was second to the ritlivie heifer at the Royal. She
The yearling heifers were a creditable display, a though there was no Lady Amy 7th or Golden Garland fore with Mariorie, a pretty herd was again to the fore with Marjorie, u pretty roan heifer, showing a lo
of character, and carrying a thick covering of hair but inclined to be a a trifle wealk in the back when standing. This heifer secured the premier award at the
Royal Counties, Royal Counties, Royal, Highland and Royal Lance
shire shows.
GILBERT H. PARSONS.

The Dairy Shorthorn Assoctation of Great ing year, to offer $£ 160$ in prizes for pedigree Shg year, to offer £1G0 in prizes for pedigree
Sorthorn cows and heifers.
Some of this amount has been allotted for competition at the
spring show of the Royal Dublin Society.


The Result of an Impressive Sire
Five bulls, by the Irish Shorthorn, Bright Meteor. All purchased for export to the Argentine, 1907

THE FARMER'S ADVOCATE.
FOUNDED 1866

TREAT THE SHEEP FOR TICKS. In order to avoid trouble in the flock from
ticks. , Iice or scab, the sheep should, without fail, bicks, ice or scab, the sheep should, without fail,
bips teate twice a year with one of the proprietary
dips one market. In a fevv days nittor sheardips on the market. In a few days after shear-
ing the ewes in the spring, the lambs should be ing the ewes in the spring, the lambs should be
dipped, and some of the preparation rubbed over the ewes. Again, before winter sets in, the whole,
flock should be either dipped or have the " dip,
 other vessel, the wool being "shed "or opened
at intervals of four or five inches "o that at intervals of four or five inches for that pur-
pose. With short-wooled sheep, dipping at this
 loug-wooled breeds, the waste of material is such
that pouring is much more economical that pouring is much more economical, as no tank
is required, and much less of the dip is used to is revuired, and much less of the dip is used.
facilitate the work of pouring, three persons required, one to hold the sheep, one to shed the
wool and anothe to wool, and another to pour the liquid, which sheep first sets it wapon its rump, the back leaning against him, and with his hands sheds the wool
on its neck and breast. while another on its neck and breast, while anather man is
shedding on the belly, thighs and lower sides, and the pourer attends to both. The sheep is then allowed to stand up, an opening in the wool is made the full length of the spine, from rump to
crown, and crown, and a liberal portion poured in, which
runs down the sides, completing the operation, about a quart of the solution being suffcient $f$ o each sheep. Two men and a boy, or three strong and active boys, will thus treat from fift to
seventy sheep in a day and the expense seventy sheep in a day, and the expense for labor
and material is so little, compared with the prof it in the growth of wool, to somp nothing of the comport and thrift of the sheep insured, as to make it a prime necessity in the management of
the fock. The fact that no ticks mav be notice able at this season is no reason why the treat ment should not be used, as the pest may de
velop during the winter velop during the winter, or scurf and scab ma,
appear, causing the sheep to rub their wool of and fail in condition, when the treatment cannot well be administered, owing to the ewes being orward with lamb and the weather too cold. If atrer the fock has been treated, sheep from ul
treated flocks are purchased, they should be sul jected to the process before being permitted Join the flock, as they may infect the cleansed ani mals with ticks or the germs of the dread disease flockmaster whose flock is suffering from any these preventable causes, will also suffer in his
pocket and in his mind from his pocket and in his mind from his neglect, while.
on the other hand, having done his duty by his on the other hand, having done his duty by his
sheep, he will enjoy seeing them healthy and prosperous, and will be well repaid in the increase of wool and mutton or strong lambs for his lalior
and the small expense involved.

EXPERT JUDGES
Edito
 pose of educating the farmers and breaders of thi
Province in the right line of stock-breeding. County of Lambton, we had for judges, or educators as you may call them-an I understand that is the
purpose in which they are sent out-one purpose in which they are sent out-one an under-
taker and the other a butcher by trade, the former
taking the dairy catule nnd swine to taking the dairy catlle and swine classes, while th
atter takes the beef cattie and sboep classes. men out oi so many good farmers and experienced men out oi so many good farmers and experienced
breeders as we have in this fuir Province breaders as we have in this fair $\mathrm{P}^{\text {rovince, men capable }}$
of doing the judging of breeding stock without calling on undertakers and butchers to do the work
I may just mention some of the work done by tho I may just mention some of the work done by thy
sheep judge to show how expert he was. At the tirs
show at which Cotswold class. In yearling ewes there were five
shown.
of course, there were first, second and third shown. of course, there were first, second and third
prizes awarded, all very well. Three of thess shee, were winners, the other two not winning. At the nex
show, two days later, one of the latter two he places first, and states she is the kind of a ewe he likes to
see come before him. At the next show, two days later, this first-prizo ewe Next show the was strict
 against same sheen) at all the shows. 1 may just
mention a few of his placings in the Lincoln class. In
yent
 out, and calls himn a two-vear-old of course, at all
the erest of the shons she wast rulded out by the same
judge
But when to cull judge But, when he cenme tefore another the same. he
was a yearling and ill right in his place. And in yearling ewes at the irht ' 'Wo shows, one yearling ewa
was a yearling all rictht it the third show, he puts

and hoping that owe Department will find men mong
the faruers nad orecers capabte of doing the judging
of breeding stock, where type character tundity ind underpinning is taken into charactir. quality and nothing about the
Itambton
Co

## wintering yearling cattle.

tricts view of the scarcity of fodder in some dis. to the fooss and methods pursued in the " wintor ing over "process. Our readers will, therefore nick of time "from the Missouri Agricultur College, by H. J. Waters, B. S. A., director, giv
ing the results of seven vers ing the results of seven years' careful work in
wintering high-grade yearling cattle on differen forage crops and grain rations. The effect these rations upon the gains in winter, and some cases upon the capacity of the animals
make gains in summer, has been carefuly studied make gains in summer, has beeu carefully studied
In the experiments ing raugh fodders were used: Timothy hay whole=corn stover, shredded-corn stover, siloed corn stover, clover hay, cow-pea hay, and a con
bination of whole-corn stover and clover hay In the four years' : experiments in which limited amount of grain was used the value
the following rations the following rations for wintering cattle wa Shelle
Shelled corn and timothy ha
Shelled corn and clover ha
Shelled corn and clover hay.
Shelled corn and cow-pea hay
Shelled corn and alfalfa hay
Shelled corn and millet.
Shelled corn, half corn stover and half clover
Shelled corn and whole stover.
Shelled corn, cottonseed meal and wheat straw the principal results obtained in those exper
day be summarized as follow:


Firist Dorset Shearling Ram
comparison of various coarse fod Timothy Hay Alo Ti cral age quality was found to be nutritious an aver a. little more than maintain the weight ough to ling steers that were in thin condition of bear-
with. That is, steers of this class were wintered on timothy hay of fair quality without loss in weight, and, on the average, made a slight gain.
The gain, however, was very small. varging arom a slight loss in one experiment, whent the weather the quality of the hay was good andl the weathen was dry, bright and crisp. hay were required show that 18.25 pounds of weighing 50 pounds for theser resullts. ${ }^{\circ}$ an on this more than a ton and a half of hay to winter a steer of this size from Novermber 1 to April 30 a
six months-and, accordiny the steenths-and, according to our experiments, make a gain of about so pounds the averale of of our four years' work. in -Taking that whole field--ured corn stover, wand hatled as as in
ordinary farm practico yearling steers moderately thin to buite maintain That is the average of ally our trials shows a with monthy "intering period, or from Dovember is $33 \frac{1}{2}$ pounds of stoverts, we onily per stem an anvery of
 requite thee tons of stover pee stwe for an siv
tuon, he wintering period.
limit of error, Clearly, so far as our experi
ments show, there was no ments show, there was no enhancement of the process.
Almost as much shredded stover was refusel or left uncaten, as of the whole stover. She
ding, therefore, would the ground of greater convenience in handling and the protection of the fields against injury hauling stover out in muddy weather, etc., rather
than upon that of the enhancement of its value than upon that of the enhancement of its value
as a fed.
4 . Siloed Stover Without Grain.-Siloed stor er without grain produced very much better sults than did field-cured stover, either fed whole
or shredded, but the results or shredded, but the results
warrant a definite conclusion

$$
\begin{aligned}
& \text { Grain. - In everyation of Clover and Stover With } \\
& \text { Grial, equal parts of clover }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Grain.-In every trial, equal parts of clover hay } \\
& \text { and corn stover proved to be more efficient than } \\
& \text { did timothy. }
\end{aligned}
$$

$$
\begin{aligned}
& \text { did timotyy. By combining stover with clover, } \\
& \text { therefore, it is possible to bring its feding }
\end{aligned}
$$

$$
\begin{aligned}
& \text { up to that of timothy hay, or, on the assumption } \\
& \text { that stover has little fecding value the conclusion }
\end{aligned}
$$

$$
\begin{aligned}
& \text { that stover has little feeding value, the conclusion } \\
& \text { is justified that clover has practically double the }
\end{aligned}
$$ is justified that clover has practically double the

feeding value of timothy. COMPARISON OF
COMPARISON OF DIFFERENT KINDS
ROUGHNESSES COMBINED WITH

$$
\begin{aligned}
& \text { GHNESSES COMBINED WITH A LIM } \\
& \text { ITED AMOUNT OF GRAIN. }
\end{aligned}
$$

$$
\begin{aligned}
& \text { 1. Shelled Corn and Tinothy Hay.-This is } \\
& \text { the standard ration with which all others ar }
\end{aligned}
$$

$$
\begin{aligned}
& \text { the standard ration with which all others are } \\
& \text { compared, and is chosen for the standard becausa }
\end{aligned}
$$

$$
\begin{aligned}
& \text { compared, and is chosen for the standard because } \\
& \text { it more nearly approximates farm practice than }
\end{aligned}
$$

$$
\begin{aligned}
& \text { it more nearly approximates farm practice thar } \\
& \text { any other single combination. }
\end{aligned}
$$

$$
\begin{aligned}
& \text { ny other single combination } \\
& \text { This combination proved }
\end{aligned}
$$

$$
\begin{aligned}
& \text { This combination proved very unprofitable in in } \\
& \text { every trial, and was not to be compared in } \\
& \text { economy with the use of some legumo hove }
\end{aligned}
$$

$$
\begin{aligned}
& \text { economy with the use of some legume hay with } \\
& \text { corn. }
\end{aligned}
$$

$$
\begin{aligned}
& \text { 2. Corn and Corn Stover.-This proved to be } \\
& \text { a much poorer combination than did even corn }
\end{aligned}
$$

$$
\begin{aligned}
& \text { a much poorer combination than did eve } \\
& \text { and timothy hay, as might be expected. } \\
& \text { 3. Corn and Millet. This was not }
\end{aligned}
$$

$$
\begin{aligned}
& \text { 3. Corn and Millet. - This was not as satisfac- } \\
& \text { tory a combination as was corn and timothy hay }
\end{aligned}
$$

$$
\begin{aligned}
& \text { tory a combination as was corn and timothy hay } \\
& \text { in either of the two years through which the } \\
& \text { trins extended }
\end{aligned}
$$

$$
\begin{aligned}
& \text { in elther of the } \\
& \text { trials extended. }
\end{aligned}
$$

4. Corn and Sorghum.-This did not prove to be as efficient a ration as one would be led to
expect from the reputation this hay has throug out the State as a feed. The gains made on limited amount of corn and all the sorghum hay the animals would eat were larger than from
millet or stover, but less than from a like amount of corn. 5. Corn and Clover Hay.-By substituting
clover for timothy in these trials, the efficiency of clover for timothy in these trials, the efficiency of
the ration was practically doubled. That is, a
bushel of corn when fed clover hay, produced essentially double the with ber of pounds of gain that were produced on sim
lar steers with the good timothy hay same amount of corn and 6. Corn and Cow-pea Hay. - What was found $t$
be true of clover applies cow-pea hay. That is, so almost identically t
cow-pea hay of our results good quality. with pratically ceas on the vines, has about the practically no
leeding
lalue as value as good clover hay, and, like clover hay.
"hen combined with corn, When combined with corn, is capable of producing whout double the amount of gain that can be oband Alfalfa H indicate a material difference - bur results do not
value of alfalfa and the feeding hay olf alfa and good clover or good cow-pea
hay is safe to assume of ordinary quality is fully however, that alfalfa these hays in their hest condition. Alfalfa in of best condition is, without doubt, Alfalfa in its
than either clover or efficient 8. Corn, Clover Hay Hea hay.
was the case with this combination of rover.-As producout grain, in every trinl the coughnessproduced larger gains than did good timothy hay.
This means that. with a material like stover to be utilized of coarse most uspful materials to be utilized, one of the $t$ is a limited quantity of clover, cow-pea or al alfa hay. To combine with this stover, food-
stuffs, which do not remedy its chinf low protein content such as millet. Sorghum. Conmuic results with the will not compare in
a. Corn Cotensed legume hay.
sumple the protein in eottonseed was sought

and al limitwow by combunt of corng with cottonseed meal"I was and in was nsod, such as clovere on-0。
in , and an and

length; three blocks, 6 inches by 12 inches, under feed
It has been stated that by means of the stanchion,
calves can be taught to eat age. Young calves, invariably, have a a craving forly
something bulky, and this desire is well whole oats are supplied. Oats are easily digested, and they furnish bulk as well. It has been found by comon scours.
As the calf becomes a little older it is tice to supplement the oats with a little shelled corn parts of corn and oats has been ration until equal good practice, however, to feed ground grains to
calves. Their stomachs, are very susceptible to calves. Their stomachs are very susceptible to many
diseases, and meais sometimes, from exposure, become diseases, and meais sometimes, from exposure, become
contaminated, which acts very unfavorably with the youngsters.
Bran makes a very good food, as its composition
is largely mineral matter and protein. It has bee is largely mineral matter and protein. It has been
found, however, that it is a little too laxative when fed along with, skim milk; the mitte too laxative when
the protein needed furnishes all the protein needed. As a general thing, if the farm grains are fed wisely, there is no need for commercial watery, because of its laxativenes ut early is, therefore, not to be recommended calves during the summer, when the pasture is at its best unusually irritating to these young animale seen good practice to confine the calves in a roomy, dar shed during the day, feeding them succulent food, and during the night, alluw them freedom in a good-sized
paddock, where there is an abundance of grass.
four days old. At this age you simply clip the hair
from from where the rudimentary horns or buttons the hair pear, and with a moistened stick of caustic potash rub
over the button until the skin becomes inflamed and more or less tender to the touch. A scab will appear a few days later, and further growth of the horn will it is advisable to wrap the end with corrosive action, to
ithent the fingers, and care should be exercised not to allow any to run down the face of the calf, es it is exceedingly painful.
not be hastened. When milf is a matter which should old, one might commence to dilute the milk, and, be
fore the midd fore the middle of the sixth month is reached, it may be of such pour quality that you are practically
feeding colored water. At this time, the calf should bee receiving a light and wholesome diet, and the milk
will be little missed. Especially should the calf be receiving a liberal ration of grain at weaning time. by very warm. A good-sized, well-ventilated shed,
free from draits, makes ideal conditions. adapt themselves to conditions by growing a thick, long coat of hair, and, with a liberal supply of straw to require sunshine, hence on sunshiny days during the
winter they should be allowed to stroll about in the Calves should have plenty of fresh water before turity. Soft water is preferable. 'Salt should also be before the calf at all times. A small box placed conwill. Loose salt is preferable to rock salt. lick it at
The rearing of calves is one of the most interesting hases of stock-breeding. With the exercise of skill and attention to details, calves may be reared on skim
milk very successfully. Probably no animals are more responsive to skillful treatment. The skillful feeder will Hee will not permit the calf to leave any food in its
Hanger, but rather place just sufficient before it to have manger, but rather place just sufficient before it to hav
it all eaten. He will also watch that he makes al Raising calves on skim milk is certainly a less ex-
change gradually
pensive method of iroducing the first few hundred pensive method of producing the first few hundred
pounds of beef than to permit the calf to draw the pounds of bect than to permit the calf to draw the
whole milk from the dam; and, while they may have
less bloom aud rotundity of form, they will have sufficient dizestive capacity to insure good future gains.
FEFEDER.

## THE FARM.

## THE SPLIT-LOG DRAG IN NOVA SCOTIA.




 The difrovent piecees of rond chosen varied in comv-


petition were: Capt. J. J. Buckler, of West Dalhousie,
Deputy-Warden of the County, and Mr. Isaac Young. Superintendent of Streets for Middletons, two practical men emineutly qualifed for the position.
Previous to the onening of the contest visited each section of the road early in May and noted carefully the condutions of the road, the kind of soil. the drainage, etc. Upon the close of the competition, on October 15 th, they again visited each piece
and observed closely all improvements made and observed closely all improvements made
B. Fiske, of Clarence, the successiul competit
B. Fiske, of Clarence, the successful competitor, had in ably the worst piece of road in the county. The judges decided that his road showed the most improvement
during the season. The drag was used from twelve times.
The judges
The judges in their report said: "We found the competitors, without exception, thoroughly convinced of the value of the drug. We do not look upon the com-
petition as a full test of its merits, as it should he used throughout the season, particularly in the early spring; yet, after carefully comparing the roads upon
which the drag was used, with similar pieces on which the road machine or no machine was used we are convinced that the drag is a most importani acquisition to our road-making machinery. While it be used with advantage on stony roads, yet it is on the clay
results.
it "S is extremely the strong features of the drag are that it is extremely cheap; that it not only makes the rood
good, but keeps it so; that it may be used to supple. ment the work of the road machine, the disc harrow or the pick and shovel; that it keeps the road continuously in good condition, from the beginning to the end of
the season, and that it gives a straight smonth hard the season, and that it gives a straight, smooth, hard
well-rounded road that no other means appears to provide.
Annapolis County believe that if in every road district in Annapolis County a split-log drag were used through-
out the senson under the direction of the surveyor. and out the senson under the direction of the surveyor, and
paid for out of the regular statute-labor fund, it would prove of the greatest benefit to the county.
Whe greatest interest will naturally be taken in the Work of the winner of the prize. Mr. Fiske chose one
of the worst pieces of road in the county. The soil was clay and loam, the land very flat, and the road is lined with forest trees which shade the road. He
first opened up the ditches to get rid of the water, then Irst opened up the ditches to get rid of the water, then
dragged seven times, using only one pair of horseo The drag was eight feet long, of hemlock, the pieces thirty inches apart, the rear piece was shorter that the front piece on the side next to the ditch. The front
piece was also shod with iron. An hour was required to drag half a mile satisfactorily. imaained than that found by the judges. scarcely be
visited the road in Mav, they visited the road in May, they went through ruts hub
deep, the horses sometimes being scarcely able to pull the carriage. On their October inspection, they trotted over the entire half mile, Which was as smooted,
straight and round a bit of highway as one cares to

## BOOKKEEPING FOR FARMERS

 Some weeks ago we received a copy of a boonentitled, "A Simple Method of Bookkeeping for Farmers, Market Gardeners and Dairymen,., K. W. Kersey, Lecturer in Bookkeeping at thi and at the Horticultural College, Swanley, Kent, Fingland. In the preface the author states, what we know to be true in Canada as well as in Eng-
land, that, ". Very few men enaged in farming. market-gardening, and the like have the know
edge necessary for keeping account actions in the same way as those in business in
towns and cities." The object of the book is to provide a simple method of bookkeeping which
will give farmers and others a thorough knowl edge of their business.
By devoting a short time each day to accounts financial year, the following at results ness. ness. (b) His profit or loss from the year's trans-
actions. (c) His cash balance.
(d) The amounts owing to him or hy him.
In addition, he is able to find out how loss has arisen, if there has been loss, or where and
why profits have been smaller than they should
 he is spending too much for his means on 'numself The first part of the book explains the hemping
of accounts by single entry. For the encourage thent of farmers who are deteryed from stant ing ooks required. we would sraw attemtion to the ess is dome, omly one book is act wally mont hansi namels, a cash-book. Most canmultul Mommer
it should be kept can be obtained from him. book, in which transactions, whether of sale purchase, may be entered, and all particulars, as stated. In addition, notes may be of delivery event of importance that takes place, and to which a reference may be useful, such as times of sowing, harvesting and threshing; quantity of seed
used, with resulting yields; weather used, with resulting yields; weather conditions,
etc. The keeping of such a book, while not absolutely necessary, will give much satisfaction Separate books, such as wages-book, stóck-book and granary-book, may also with advantage be
kept; but the one that must be kept, if there is to be any record of accounts at all, is the cash ceoived On the left or debit side all moneys re are entered all moneys paid out. Simplicity it-
self. "Expenses," and it is well to have only ane month's transactions on each double page.
At the end of the are balanced, and valuations made of accounts implements on hand, and grain made of stock and unsold. Thus, the financial standing and the gain or loss of the year's business are known loss account, for valuations, and for profit-and balance sheet, are given. explant second of the book is taken up with an which. it is claimed, possesses keeping accounts of double entry, but with a considerable saving systeme and trouble. The chief book used in this stead of the ordinary cash-book Cash-book." Inmoney columns, a larger cash-book is necersary with several additional money columns on columns are and payment sides. The additional payments. For for analyzing the receipts and Accounts," the headings of the column of "Farm receipt side would include Live Stock, Grain, Hay and Straw, Poultry, etc., and those on the payment side would contain, in addition, columns penses, etc. As each item is entered in Cash Column, it is entered also under the particular heading to which it applies. Thus, \$100 received also in Live-stock column. Five dollars. and for groceries would be entered as cash paid out and in column for Household Expenses as well.
By totalling up these columns By totalling up these columns at the year's end,
the sums that have been received and expended in each department of the business can be found out We are of the opinion that, for many Canadian this analysis have but few business transactions. at the end of the year, and would be for made interesting and profitable.
Professor Kersey very properly insists that supplies from the farm consumed at home, such
as milk, butter, eggs, poultry, as milk, butter, eggs, poultry, fruit, etc., should household expenses. If this were done honestly. many farmers would be quite surprised at the on themselves. sixpence in the purchase invest one shilling and fully study it purchase of this book, and care though, as the title-page much more than repaid pecially adapted to those under tutors taking
short courses at agre

## THE DAIRY

A NEW PROCESS OF BUTTERMAKING.
botter which will keep, is promised by M. M. I.
Fhrmann, a French cuperience has been disappointed in the quality with butter taken from cold storage. in the quality of
frequently purchases a few pounds of good butter,
possibly when the market possibly when the market price is of good butter,

NOVEMBER 28, 1907
and to its keeping qualities. The effect Whem pure carbonic acid is used, the butter prepared by my process will retain its sweetness,
freshness, and original flavor. ." The cream can be treated in two ways,
either by the wet process For the small farmer, a small cylinder of carbosic
acicl, with a reducing valve, will be a sufficiently
convenient 0 For the benefit of those not familiar with the
nature of liquid carbonic acid, we may say that
it is purchoe it is purchased from manufacturers, who send it
out in heavy steel drums. The drums hold from about tea cents a pound liquid gas, which costs similar soft drinks. The gas is also used in all
) According to the directions for using, the vats hy blowing the gas through cans or in the cream, or the
water used in the making of the water used, in the making of the butter may be
carbonated, and this applipd to the cream, butter and utencils.
The quantity of carbonated water to be
ity int the cream is about onc-fifth the quanrequired in summer, also when the crearm has is ee sent to a distant place or factory, or has to ,e kept for a long time before being churned, or
when the cream is overripe. If the butter has to be sent to a distant market, or to be kept for
weeks, more carbonic acid is to be used in the
"T The cream can be churnci directly after it
has been carbonated, or some time afterwards,
and the lutter is manufactured as and the loutter is manufactured as usual.
". Carbonated cream keeps sweet longer than non-carbonated cream. It is never longer than
carbonate the milk, as a quantity of carbonic acid "arbonate the milk, as a quantity of carbonic acid
would have to be used much larger than is required by the cream, and would be subsequently The foregoing are some of the main points in very ingenious, and deserves, at least, some in-
vestigation. Instead of sending out preservaestigation. Instead of sending out preserva-
tives of various kinds to patrons of creameries, we may see in the near future small jars of car-
tonic acid on the cream wagons, to be delivered to ratrons for carbonating their cream. These
iars would also furnish material for making irs would also furnish material for making soft
Irinks during the summer. These soft drinks would tend to keep people at home, instead of patronizing lemonade stands, pop, shops, and
shops where stronger beverages are dispensed The shops where stronger beverages are dispensed. The result of all this would be to make persons more the quality of the cream. The carbonic acid in
the cream (and in the patrons) would mean betthe cream (and in the patrons) would mean bet-
ter raw material for the buttermakers, which ter raw material for the buttermakers, which
would enable them to make better butter, which
would bring more wealth comfort and happiness to dairy farmers and buttermakers. In faet, it seems to be another case of the clover-seed crop
depending upon the number of "old maids " in depending upon the number of "old maids" in
the locality. On being asked to explain, the originator said: ". Old maids are fond of cats cats kill the mice, which destroy the bumble-
bees; and the bumblebees, if destroyed, canno bees; and the bumblebees, if destroyed, cannot
aid in fertilizing the clover blossoms ; therefore aid in fertilizing the clover blossoms; therefore,
the clover-soed crop depends upon the number of old maids in the neighborhood.
But, seriously, there would seem to be some
merit in the process, if not too expensive. At the price which liquid carbonic is sold in this country, we should judge that it would be too
expensive to use in large creameries for carbo nating cream to be manufactured into butter. It might, however, be used by cream shippers and cream dealers who receive fancy prices for their
cream. There is also the question of the effect of the carbonating upon the flavor of the cream, The originator claims the effect to be beneficial. I use carbonic acid to wash out from the cream
any volatile impurity detrimental to its quality, any volatile impurity detrimental to its quality,
says the inventor.
So far as we know, the process has not been nvestigated in America or at any of the Euro-
pean experiment stations. We shall await developnemts with considerable interest. H. H. D.

Butter is the greatest tell-tale on the farmer (C) of any product he turns off. It tells to the conmade it, whether they were neat and clean in
their ideas and methods: whether the cow their ideas and methods; whether the cow
houses were foul and badly ventilated, whether the feed was musty and untit for use; whether the
separator and milk vessels were kept clean and sweet; whether the packages that contain it were
in right condition. Everything that comes of ignorance of good sound dairy and sanitary sense,
ine butter tells with a loud voice--[Hoard.

THE FARMER'S ADVOCATE.
AN AWAKENING REPORT FROM NEW ZEALAND. New Zealand, is pablished as Bulletin No. 10, De
partment former Canadian, having resigned the Kinsella, a Dairy Commissioner, the present occupant, a New Zealander, we understand, was appointed in Nov.,
1906 , to this important powite report is a valuable contribulion. Mr. Mo Cuddie's ture, and we extend to him congratulations. He Seems to have grasped the essential points. He
dairy business of the "New Dominion." have stated these with a conciseness that is a pleasant relief from the ordinary much.

From a Canadian viewpoint, the most striking part is the table of comparisons, showing the relative prices of Canadian and Nhowing the
cheese, as compiled from weekly the High Compiled from weekly cable reports by average difference in price in favor of New Zealand cheese is one cent a pound for 1905-06 nearly one-half a cent a pound for 1906-07. Com-
menting on this fact, the New Zealand Commissioner says ""With reference to the comparative figures for Canadian and New Zealand cheese, it may be pointed out that the higher prices for New Zealand cheese have been obtained at the
part of the year when Canadian cheese is off the market; but, taking the twelve months, it will be
seen that the been higher than that ohtained for cheese has Canadian cheesemakers, is this so ? If so why, when and wherefore?
('RFAMFRY BUTTERMAKING
Tnder the hesding, " Creamery Butter," the re-
port says: "We have altogether too much but-


Mabel Denton 186243

er passing through the grading stores whic merely scores the minimum number of points for see, there is no valid reason why the standard of quality in the greater portion of this butte should be raised to a higher level. Better raw naterial and closer attention to the well-kkiown to bring about the desired improvement
The writer also mentions, in this connection
that the pasteurization of cream has resulted in cream-gathering creameries. Under " Points Relating to Manufacture," the graders suggest more coaling at the working of the butter, improved the uniform salting of the butter. In order to improve the quality of dairy but-
ter, an instructress has been appointed by the ter, an instructress has been appointed by the Government, who visits the farms for the purpose might be improved. In her repert, the instruct ress says she visited 93 dairies during the year Of this number, the majority were in a very fair condition, some of the others were far from pass
able, and a limited number should be condemned, She further reports an improvement in these latter since her first visit, where she suggested im provements. These improvements consisted of
concrete fioors, ventilation, drainage cleaner byres (stables), cleaner utensils (the separator churn and butter-worker are often covered with grease and dirt), purer water, and the use of
drainage from cow sheds and dairies on the garden as manure
It would seem as if in Canada we might at-
tempt sornething along this line. With all our
exceltent system of instruction in dairy work, it must be admitted that we are not reaching the Our machinery is ehe indifferent dairy farmer. sults? Is there unity of purpose, combined with
brea breadth of view, to meet the various conditions from one thing to another and We seem to fly one line of action another, agh to not continue One year we hear a great hullaballoo about an experiment station or stations in a cheese factory or creamery. Next year there is nothing said year about the great advances made in dairying in each of the various Provinces. We must be near perfection now, or else were very low at the deginning. It seems to us that we might very of the Royal Family on systematic dairy instruction, with a purpose in view.
Butter boxes are sometimes made of green
timber, according to the report, which grese limber, according to the report, which causes
trouble with mould on the butter. We are somewhat surprised to hear that butter boxes are not paraffined at all times, which is a great improverespect of uniform shape of butter box the New Zealanders are much in advance of Canadians. In ann ta, hearly all the manufacturers have their wn ideas about shape, fasteners, etc. A uniform
how they foster cheesemaking.
The writer refers to the fact that more inter in butter, owing to the fact that Zealnnd than have heen so steady and uniformly firm throughout the scason. Many of the direntors of cream erins are considiring the andvisnhility of cream-
able to make pither chese or hing r hittor, though this
involves ant expendiinvolves an expendi-
ture in some cases
of $\$ 25,000$ or $\$ 50$, of $\$ 25,000$ or $\$ 50,-$
000 . Think of a Canadian dairy com pany being prepared spend this
mount of money on dairy plant! This is sufficiont to cause
tho average Canatho average cheese or butter manufacturer to. die of financial right ! The report
calis attention to calls attention to
the fact that 1,000
ons of butter - fat, nude into cheese,
 and this, together
with the increased
production likely to
 nerkely. prices ad
The New
vers.
Coaland ommissioner gives Canawhen he says: "The New Zealand butter meets on the British market is certainly very inuch keener than, that which is of much-vaunted Canadian cheesemakers' prowess, has it come to this? Are we in'a Rip-VanWinkle state of mind in Canada? Let the band
strike up "The Maple Leaf Forever"! Two shrewd observations of value to Canadians conclude the question under discussion : (1) There is ample room for the development of both the butter and cheese industries, and therg th no oc-
casion to develop one of them at the exfenise of the other. (2) The keener the Competition for the milk between the different dairy companies and factory proprietors, the more difficult it beomes to obtain a good-flavored and sound sup-
ply. It is needless to say that poor-flavored or ply. It is needless to say that poor-fla
tainted milk means bad-flavored cheese.

TURNIPS AVAUNT
In an extract from the report of one of the graders, we read: " The first shipment of spring
cheese showed signs of turnip flavor. There is no doubt that the long and injudieious feeding of turnips is a serious menace to the dairy indusry. The same may be said with reference to
the feeding of turnips in Canada. Turnip flavors are prevalent at present.
Instructor Singleton, who, by the way, is a
Canadian making his mark in dairy work in Ne Canadian making his mark in dairy work in New ealand, says of methods of shipping cheese, that
they are not entirely satisfactory, and urges the mportance of dairy trains running at night, hav ing minimum of time en route. Apparently trains with dairy produce on board have a sim
lar habit in New Zealand to those in Canada lar habit in New Zealand to those in Canada
viz., arrive at their destination at "any old

## THE FARMER'S ADVOCATE.

Founded 186:
to have the cheese curing-rooms thoroughly flavor in a larger percentage of our already suffil
cleaned and disinfected during the off season. ciently inferior milk sunply. In the hands of met
"Mouldy chnose in "Mouldy cheese in a curing-room do not present a ciently inferior milik supply. In the hands of me pleasing appearance, while a lot of clean cheese be ohtained, but a number of suppliers who may
of uniformu size
 be obtained, but a number of suppliers who are
getting the machines are not competent to look
after them mroperly, The value of ripening or curing cheese at mod
erately low temperatures, is also commented up
on, and the Dairy
on, and the Dairy Commissioner recommends that
his Department be authorized to
investigational work in this connectiv on some the dirty milk can.
Returning whey in milk cans seems to be the
 Undoubtedly responsible for a quota of bad flay
orse."
one factory has adopted the plan of hat
One factory has adopted the plan of hav
ins two whey tanks, each of which is capable
holding all the whey for
holding whey the whey, each of which is capable of
is thoroughly cleaned on one day The one tank
being used, and next day the latter is thotoughly
cleaned
cleaned. The manager of this factory reports an
improvement in the flavor of
improvement in the flavor of the milk suppl" as
a result oi adopting this plan. Here is a sug-
gestion for Canadian cheeso-factory owners.
says the report, has of pure cultures or starters,
quality of our buttere to improve the
change in the system of manufacture. It other generally recognized that, unless a starter is kept going it the factory, trouble is likely to occur
with regard to the guality chese. It would pay every cheese factory, and perthats butter factories as well, to provide a
special room in which to keep the starter coing special room in which to keep the starter $\begin{aligned} & \text { oing. } \\ & \text { This room should be fitted with facilities for } \\ & \text { heating and col }\end{aligned}$, heating and couling inilk, and with fee facilities for
gether for this alto gether for this particular branch of work.
Similar troubles with reference to mik. are ampar troubles with reference to milk supply
 milk on their farms would appear to be quite
oblivious to their tion, or to the bespornsibilities in this connec-
has on the fefinished eart whtich ill-flavored milk tions that as muchen asticle," The writer men- 6 . 6,000 to 7,000 pounds milh
have been rejected in have been rejected in a single day at a simgle
factory during the past season. If some Cana-
dian factories reiected this day, the cheesemaker might as will in a single
play play baseluall for the season-he would have noth Under "Caring for Milk," it is advised to re ${ }^{0} 6.5$ degrees, the lower the better. Dairy. 60 of milk will greatly enhance the efficient cooling butter and cheese made from it, prevent of the having the milk returned, and help to improve
the good name of This is good advice our dairy products generally We were much pleased to ser
covered milk-stands, and water collustrations of proper coling of the milk, as practiced on Now
Zealand for
In this connection i/n MACHiNE
In this connection "Milking by Machinery" is
given considerable space in the bulletin. The fol-
lowing extracts will place te nadian reader
favor among the dines are rapidly coming into Pavor among the dairy farners, and it would seen
that the time is not far distant when chines will be in active operation in every dairy-
ing district in the colonv, laining suitable hands to do the milking, and the of the farmers tor any length of time tomploy with the high wages demanded for this clagss
work. have been the means of inducing Work, have been the means of inducing chine here can be no doubt that the milking ma the labor, from the dairy farmer's point of ovew,
The writer goes on to say that, while this is sall true, the machines have not been an unmixed
blessing. "We have amplo proof tor the milik drawn by the ample proof that some of
for the maneo tis quite unf mit cheese," He, however, thinks this is is due to care-
lessness on the part of operators clean, sound milik is deliveredors, daily by fars that
who thoroughly wash all parts of the machine who thoroughly wash all parts of the machine.
nothing is done to check the delivery of tinf milk from this source, the milking machine
ultimately
result in lowering the stand quality of New Zealand cheese and butter, which it has taken years to build up
Instructor
Singleton
samples of milking-machino milk A number of come under my notice. A number of these season not attract special attent ion for inferior quality,
but a considerable percentage were very but a considerable percentage were very inferior provement in the quality of the milk brought by some suppliers, but the majority I met reported
the reverse, viz, that. prior to the installation of the machines the quality was good, but since that
time the quality has been decidedly ind is no doult, in my opinion, that the qeneral use
of the machines will cause a greater inferiority in

## Thder "The Testing of Milk," it is recofded

 every dairy factory in the colony." In this re spect, also, our sister Dominion leads the procession. this point before long in Canada, when the sin moviny cream been putting water in milk, or become thoroughly aroused to the cheseries, their sin. In this connection the enormity of story told, if I remember rightly, by our mutual
friend, ex-Coy reputation of heing a man who had the hood, professed to get converted. in the neighborimpressed upon him that before he could secure peace of mind he must restore fourfold to all
those whom ho hnd those whom he had wronged, one night he made
a public announcement that if ho had wronged any man, he was willing to repair the wrong to the extent of four times the value of the injur
About 3 a on he ing on the back door. $\begin{aligned} & \text { He stuck his houd knock }\end{aligned}$ the window and said, ./ Who stuck his head out o answered. "Jim Wigss !", Jim Wiggs? What
are you doing here at this time are you doing here at this time of night?
"Wal,", said Jim, "I heerd you say nt the meet. in' las' night, if you had wrousced at the meet was willin' to restore fourfold. an' I mought yo come nirly, 'cause there's goin' to be a devil of a
rush !". There ought to be a "c rush ", for honest payment of milk at Canadian cheeseries in torest 1908

Crfam separation on the farm Wiscussed in the space to mention one more topic Milk on the Farm." After pointing Semation o vantages of separating milk on the farm the ad pared with hauling milk to factories over long
distances, more especially where the roads are of a heavy, grade, or very bad, the Commissioner savs: "As a matter of fact, the separating of if it is curried out under first-class disadvantages on similar lines turder irst-class conditions. of and creameries. Unfortunately, howeyct factorices conditions are seldom adhered to or even these the dififculty the dairy farm, and herein lies all
thenger in regard to this system of dairying Thorough cleanliness, proper coolfactory, would reduce if daily delivery to the obiections raised auce inst the remove, many of the
vises the following pain." He adfarmers who run their wn spearators : dairy place, away from the milkine shed sot in a clann
erablv in a small
nrefl concreto floor and drainaze
2. Wash the mach ine after each and of using.
senaratod col the cream immediately alter it is 4. Crean from night's and morning's milk
 transit. Protect the cans from the sun's rayscdurine the space between this rooste inch apart, and



 REFILIINGMIIK BOTTIES WITHOIIT WACHIMG And the remainder of the space to the whato is
 dompre of filline uncllarned milk practice of cortnin milk should he removed, and the space may bo coveshed still in tham, or ndhriums, in some cusses with milk iront, should have a projection of slopes to the




sidespe of refincin taste, and liable to spread disease, it would if put inco sterilized bottles. Unlesse proper It is a pity that official action_should be necessary prevent the bottling of milk in unwashed vessels. © mon decency, to say nothing of business interest, shoul.
be enough to forbid it.

## POULTRY.

## AN UP-TO-DATE POULTRY-HOUSE

The nature and habits of the domestic her not require that her shelter be very expensive
is doubtul if any two poultry-keepers would impressed in exactly the same way by any given
style of house, for no two people are alike. Hens therefore imperative that or damp, places. It is he dry. And if the birds are obliged to remain
indoors for long periods the receive the direct light of the sun for anace should the day at least
Hill certainly are exceedingly sensitive to drafts, and pecially while on tu not shielded from them, es nature an outdoor n rimal, the hen will Being by retain good health if she is deprived, day or right, of pure air charged with oxygen.
Different
ion of poultry houses. The range difent construc in which hens are comiortalle is great. Aperature well-fed scratching hen will not feel cold with ten cidedly uncomfortable frost, but she will be deExcessive heat ruins more hens and more egg grinst than excessive cold, and should he guarded houses should equal be so cone. Therefore, our poulted that the confined night summer comfortable as possible day and With this explanatory preamble, I will now de Scribe what 1 consider the ideal poultry house. The house is 36 feet long and 10 feet wide ; it is Ieet high in front and 8 feet high in the
rear. from top of sill to hotom of plate. In dhe center of the house are two roosting rooms partition between the two roost rome house). The house into two equal pens, the 10 by 12 dides the at each ending being a scratching-shed. The wintow at have a closed front, in which is Aroppings platform, 22 bat of each roost room in a number one foot above this are the roosts two ach other, and and distant the same distance from from rear wall and the front edge of the platform, re-
spectively,
the rousts is is roofed over at a heom occupied by from the floor This makes it height of five feet
tions where winter temprearatures fible, in secयero. there winter temperatures fall to below moan- of curtains. making a small, closed apart. hent that will hold the animal heat of the birds The boards over the roost rooms should be netting . The and the space may be covered
Shoof. which slopes to the Wut will do without any on of 12 to 15
, brojection at the
back of the house.



The Adare Open-front Poultry House, Victoria, B. C
roosts the whole length of each 18 -foot pen. Six
inches from the dropping-boand in roost, on the center scantling, is a curtain of can-
vas, which drops just below the vas, which drops just below the dropping-board,
for use during the winter and cold nights. The
floor is just the floor is just the sod covered with sand and gravel,
also scratching litter. so that floor space is available as a scratch pen. of the an average of 18 birds in each pen, which allows
six square feet to each hird six square feet to each bird. On the under side
of the ridge-board is a cable, traveller, with hooks attached, carries a pulley water and eggs from end to end, which makes it both easy and quick work to feed and olean out, etc., besides being under cover during the wet
seasons. which is also far better than toin the seasons, which is also far better than doing the
work from the outside, with the rain from the roof trickling down your back. Another advantage of going through your houses is that the
birds get used to you and become far more tractable. You also soe whether there are any tractlaid in the litter, or whither there are any eggs of condition. Since having put my birds out of hard scarcely any sickness, the birds pens, I have tented, their plumage is much brighter, and their egg production greatly increased. $\begin{aligned} & \text { Feeding } \\ & \text { trough and water fountains are }\end{aligned}$ trough and water fountains are under the nest
boxes. Since this photograph was taken, runs have been put up, which adds much to the appearance
of the houses, and all who have seen them admit of the houses, and all who have seen them admit them to be the best, and the most handy and
economical houses yet invented. And they have proved so successful that two more are under proved so successful that two more are under
construction.
E. M. WROUGHTON.

## GARDEN 新 ORCHARD.

ANOTHER CASE OF SCALLION ONIONS.
Editor The Farmer's Advocate
experience of an onion-grower who had several to the poor onions from soed purchased in Torontol acres of that red Wethersfieid seed from a seed merchant in onions were and for think ninety-nine per cent. of the containing four stufl. Thave a bed, sixty feet long, Were all right. WALTER RIGSBY are in Rigsby obtion to state that the frm from whom Mr. whom the Collingwood firm was not the one through goes, however, to show that the cause of thick-neaks or scallions, is chiefy, if not entirely, in the seed.-
Editor. 1

POLLINATION AND FRUITFULNESS.
Lindley the Central Experimental Farm, Ottawa, the shy bearer, produces large crops and good bunchei Prof. Macoun attributes this to the fact that they have some 200 varieties of grapes on the farm, and he In the Annapolis Valley, Nova Scotia, he observed some Northern Spy apple trees that were producing ex. ceptionally well, evidently because they were surrounded
with some other kinds.


## Third Convention of Ontario Vegetable-growers' Association <br> LETTUCE ON THE TORONTO MABKET

Vegetable-growers' Association met in the City be safely built anywhere. The single-house may

Hall, Toronto, November 14th.
The President, R. J. Bushell, Williamsville, Ont., reported the progress of the year, and emmasized the value of organization in securing
(GREENHOUSE CONSTRUCTION.
The first paper read was on " G
struction for Vegetable-growers," by J. D. Thaser, Leamington, Ont. The farmers of Leamcount of the failure of the peach croph on at count of the failure of the peach crop. As the
snowfall is light there, it is possible to use wood-and-glass construction, but this is now being discarded largely. Cement walls are best. Supports are best made of gas-pipe. The glass is usually butted-not overlapped-and, if square glass, say 20 by $20 \mathrm{in}$. is used, you can have the
choice of sides, and possibly make a better fit. (6) For heating, Mr. Fraser would use hot water, high, in order to secure better ventilation. Most of his benches would be on ground level, but he Would have a few raised ones for forcing. Mr .
r'raser's paper was full of practical hints for men who have the older style of greenhouses. Mr. Robert W. King, Toronto, a greenhouse
expert, led the discussion, and outlined the most approved methods of greenhouse construction o
the present day. The construction of greenhouses, of ridge-and-
furrow por farther north, was a serious problem furrow plan, farther north, was a serious problem a few years ago on account of the heavy snowfall.
But that is now settled by building iron gutters,
with
is good, if one has plenty of land. The houses sheltered land between used for crops; 50 to 60
feet is the best width for a single-span house heating the greenhouse.
The theory of heating was well discussed, because if the theory is understood the practice
is usually correct. The reason why pipes are not placed on walls or in the center was well described by showing the courses of convection cur-
rents set up by them. The best results are now obtained in high buildings, with the pipes hung from the roof, 7 feet from the ground. Dunlop's last house had an 8 -foot wall, and Dales,
of Brampton, are putting up a 9 -foot wall their latest house. Even though there is a much larger space, actual tests show that they are more easily heated. With the pipes up 7 feet, and a exort distance apart, convection currents of large plants, apparently there is good circulation, and. in large greenhouses, horse cultivation is easily pursued. PAINTING GREENHOUSES
Mr. King also emphasized the proper painting
of any wood used in construction of any wood used in construction. Drier must
not be put in paint for first coats. Put on,
first, raw oil, allowing plenty of time to in: second, raw oil with a little white lead third coat, add a little drier.
The discussion of greenhouse management largely turned on the growing of lettuce, and this
crop inspied the chief discussion of the convencrop inspired the chief discussion of the conven-
tion, both under the head of "Greenhouse
Management," led by T Delwert Management," led by T. Delworth, Weston, and
"The Marketing of Vegetable Crops." led hy "' The Marketing of Vegetable Crops," led by a
paper of Frank Williams, Ottawa South.

The members warmly discussed the lettuc supplied with good lettuce; it was not wapplied with lettuce in proper marketable form, and did not know how to use lettuce as many other cities in America yse it. It was claimed by Mr. Fraser that they ought to eat twenty times as much,
and could be "educated to do so if good lettuce were put on the market and sold according to some real standard, and not by the "bunch."
The bunch system was responsible for it all limited the growing of lettuce to near-by gardeners; the lettuce was put on the market in an immature state, and wilted quickly; it was forced
in heated greenhouses; outside growers, who grew large, crisp heads, could not get into Toronto
market, because they market, because they sold by the pound. The Toronto system was stoutly and warmly de
fended hy the Toronto growers. evidence, however, showed that Toronto mass of used lettuce for garnishing, etc., but did not yet done away with. When the bunch system was and 16 ounces to the pound, the husiness woald increase.
TOBACCO-STEM SMOKE FOR GREEN APHIS. The green aphis is the worst insect in Mr. good results by using cigar-factory and gets stems. The stems are dampened and burned, the hick, heavy smoke thus produced doing the killng quite effectively. Powdered stems, scattered able fumes are given off when water falls on the tobacco. The bad results from tobacco obtained hacco. In discussing the green aphis, Mr. Mc-
Means. Means, of the O. A. C., said they used a certain
absolutely product, and two applications killed
THE WHITE FLY OA ClCUMIBERS AND TO-
MATOES.
Mr. McMeans also discussed the White Fly, Which attacks cucumbers and tomatoes. Good
results were obtained by the following solution: results were obtained by the following solution:
One-fifth ounce pot. sulphide, two-fifths ounce sulphuric acid, one ounce water-for every 1,000 ,
by Mr. McMeans, as cheap building recommended stable manure can be used. The method of using the copper in greenhouses was mentioned, where at one end, and the zinc at the other. W. W. Rawsons, of Massachusetts, claimed excellent result
from this.

HOW $\$ 2.00$ MUSK MELONS ARE GROWN
E GROWN. ever experienced the exquisite pleasure of a slic delivered by Mr. Gorman himself following facts terest. The methods of himself, must be of inthese world-famous fruits ought to be of great in same methods used anywhere in Canada as the bring similar results, and Mr. Gorman assures knew how do the same work as he if they only knew how. A detailed description of Mr. Gor
he seed is selected
is sown in a hotbed about April 1st, in drills. It inches apart. When in first leap, two plants are
transplanted inter in dill other bed. When these are grown placed in anleaf, they are transplanted to grown to the third io be matured. The land where they are grown coat of manury two years. It is given a heavy 12 to 15 feet apart, and 18 to 20 inche Trenches wide, are then opened up, filled with horse and nure, packed firmly, and covered with several
inches of soil afternoon, the plants are day, usually in the late under each sash. The frames are out, one pot long, and each has three sashes; so made 12 feet
three hills to each there are off about 8 a. m... frame. The sashes are taken of the frame is lost in the afternoefore the heat plants are placed out, the centers are pinched the make then well throw more numerous branches. They advantage is taken of showers during thgiven, as by removing the sashes. When the vines sumer grown about one and one-half feet long, they re-
quire "earthing," quire "earthing." To do this, remove the center, level the earth between the beds out the a furrow for drainage, replace frames, but place yines to or stone under each corner to allow the form. One week before they will soon begin fo rames. Turn the melons frequently, to prevent "blisterine." Pick almost-ripe ones daily and
be inexhaustible, according to Mr. Gorman. His Iruits are sold from his storehouse for $\$ 10.00$ a
dozen. They are always stamped "Gorman," to prevent fraud. They often sell at $\$ 2.00$ each. Such are the circumstances under which the farous Montreal melons are produced. Cannot
citrons and watermelons be matured by using the same methods?

THE DESTRUCTIVE CUTWORM
The address of Dr. Fletcher, Dominion Ento mologist and Botanist, Experimental Farm Ent tawa, was, as usual, brimful of valuable informa tion. His subject was " Insects That Trouble The first great remedy to remember is a shor rotation. of crops. The most destructive insects are cutworms, of which there are, in Caneds about 360 kinds. The eggs which hatch into the flying moths, mostly in the full. The larver be come partly grown and are ready for the crops in the early spring. The larve do their eating by night, so that they are rarely seen, as they bur will certainly kill insects, but may often eaten several days, as it is a slow-acting poison. The practical way to feed it to cutworms is by means
of a bran mash. The method of preparing this is important. One pound of Paris green to 100 mounds bran, moistened slightly, is sufficient. To into a pan of bran and about one cupful of water bran will be thus slightly moistened, but will stil e dry enough to run through the fingers. Th slightly-moist surface of the bran will cause the bran is sown about the field, it does not. If jure hirds or chickens, as they do not get enough of it. When tomatoes or cabbage are threat ened by the cutworm, they may easily be wrapped
with paper about 4 inches by 8 inches sheets of paper are nailed on the side of the basket when setting out, torn off one at a time, and eally involve little labor. It is always done at cutworm will climb trees Farm. The variegated buds. A band of cotton around the trunks will tively. The habits in that direction quite effecsummer, when of of the Variegated in eating all in early, when other cutworms are mostly through

THE CABBAGE Butterfly larva. deal of damage. Thiterfly larvz also do a great America. The practice of now common all over and water, or Paris green and flour, is not green pound Pyred. The best remedy is to use one pounds cheap flour. ${ }^{\text {or }}$ Mixsect powder, and four ister, leave 24 hours, and then apply. jar or canhigher is an insect poison, and does not injure the green is dangerous to to any extent. The Paris green is dangerous to apply to cabbage becaus
a limetimes paris green gets in, and a very little sometines severely poison some people. by a bellows such as is used for Paris blown $u$ may be dusted on in the following cheap manner Put the mixture in a muslin bag tied by a stri six inches long to a stick; with another light of mixture will be deposited. In and enoug peat the dose, and the insects will be cleaned for the seaso ROOT MAGGOTS
Root maggots are those white fellows we
the roots of canbage e turnips radidehes
in the rots of cabbage, turnips, radishos,
In seasons, when they are numerous, they
Very hard to manage. There is no practical
remedy which will attacks. The egss are liaid on the stom or rom
close to to the
cround, and after the ind in, they cannot be got at. If a the insects bore paper is put on the plant, and pressed down tar its eggs on the winged adult often will not lay A remedy, when is to put, when one knows the plant is infested hellebore in a pail around each plant. The tes F should be first dissolved in hot wate oap, water onion maggot, carbolic wash, made week, will keep the maggot from put on once eggs. Gas lime, the supply of which, however its fows. is effective when applied between the Poisoned bran is effective for grasshoppers TURNIP FLEA-BEETLE
The turnip flea-beetle is often destructive
turnips are sown the third week in June, is a period between the time of the first and which harm broods, the seed leaves are likely to be sec than from a better quality of turnip harvested If the seed leaves are attacked by the pest ust with Paris green mixed with flour land The Doctor concluded his address with a word GOOD one and a NEW one use nozzles. Use a asily. One day applying the lime-sulphur wash wears out the disk. Bad results are often caused

DELEGATIONS
A delegation waited on the Minister of AgriAlture, asking that representations from the Advisory Board of the Horticultural Expen on the tation at Jordan Harbor Station for fruits and vegetables; also, that legi lation be made to compel seed dealers to give a guarantee with
their seeds. This matter was beyond the diction of the Ontario Government, however so that the delegates will seek the legislation from The Federal authorities.
onventio
meeting. meeting.

## The Important Question of Nursery Legislation.





#### Abstract

are the abbreviations of ontario growerg. of the laws. Following Idaho.-All nurserymen doing business in this $S$ Stare required to furserymen doing business in this state thonsand dollars), conditioned bond of $\$ 1,000$ (onethat their firmentatives must have a certificate showing have givenThat stock being shipped into the state has been examined by a duly-authorized officer, and tificate of inspection


FROM THE FRUIT-GROWERS' STANDPOIN$)_{\text {cut }}^{\text {pent }}$
premises,
trees. A ohart furnished by the former owner called
he whole orchard and was not an Early Rivers in during the entire ripening go over the whole orchard
be missed.
i" M ne
order for firty trees each of the following varieties
order for ifity trees each of the following variettes:
Governor Wood, Knight's Early Black, Napoleon
Bigarreau, Eckhern Wigh
Bigarreau, Eckhern, Windsor, Black Tartarian, Lapge
fruited Montmorenci, and
Governor Woods were about one-third true to name; th
others are mixed varieties, many of them black, later
Early Black are conspicuous by their. The K'night'
of this lot of fifty trees is true to name, but one
have proved to be a
ith Black Tartarian. A large cherry-grower, along
visited the orchard, advised me to tear them out, as he
had some of the same kind and that they would never
had some of the same kind and that they would never
pay. This is my reward for eleven years of care
manuring, spraying, cultivation and pruning. The the
Napolenn Bigarreau were apparently
Napolenn Bigarreau were apparently, on first inspec
tion, nearly all true to name, but now the similarity
is just in color. Perhaps one third are true to name
ripening. The Large-fruit Montmorenci are and time
name, but are Montmorenci ordinary, Early Richmond
and .. My My next experience was filling in my original
liable ", nurseryman, went direct to a self-styled "re
a few other cnotce yellow-fruited varieties ordered,
I got a number of trees which bear small, sour, white-
Igot a number of trees which bear small, sour, white-
fleshed peaches, that ripen about the time of the first
${ }_{\text {rosts. }}^{\text {i. }}$ My
were procured elsowhere, and I really think the nursor
man attempted to fill the orders as ordered, they being
My experience $h$
ar to the experience of far too many; all suffer more
less. Only this year these mall
peaches have cropped out in a neighboring orchard,
Nov, 1st they were none too ripe, but suffering the
elfects of a frost. Another intended to make sure of
having his stock true to name, and, therefore, supplied
ne nurseryman with the buds to bud the stock, only
oo find after the trees came into bearing that they
年
were some poor, worthless variety. One not interested
n the commercial growing of frult, especially tender
ruit, cannot appreciate the of losses direct and indirect
an example of legislation in the fruit
"Canadian fruit has borne a fairly good reputation,
but it was deemed in the best interests of fruit-
growing for the Dominion Government to pass the
hut it was deemed in the best interests of fruit-
growing for the Dominion Government to pass the
Fruit Marks Act It was ridiculed by some people,
and criticized as impracticable, but later revisions have
and criticized as impracticable, but later revisions have
made the law no less stringent, and now the wisdom
of its enactment is becoming quite evident. And yet,
otwithstanding its undeniable advantage and success
e find that as late as January 23 rd to to 24 th. 1907
the Western New York Horticultural ${ }^{\text {Society, }}$
(Committee on legislation, reporting on a resolution in
rrades of applesal and to provide for the the vario inspection
and

neunt of the lack of trained help, and the want of tha
necessary knowledge of growers and packers in general
it would give too much power to inspectors. To get
he most out of fruit, the grower should be allowed
grade them according to variety or season, more
The proposed lesersslation sugrests strongly
The
rss and packers across the line do business, but which
-ppears quite foreeign to the free spirit of this country,
or as another speaker calls it, the freedom we enjoy
as another speaker
mitted to the cramming process without thinking that cramming at this age retards the development of the to be or to consist in a better understanding between the teachers in the academies and the district schools, of on a far more organized effort to keep the mind starts school until he finishes, without trying to he out finished scholars at the age of fourteen or fifteen. it seems to me there is a brighter time coming soon for educational matters, when, by the aid of school
gardens and nature-study work the mind of the pupil will develop more evenly, and be more ready to retain What it sees and hears. As we muke progress in education, we will develop into an intellectual and cultured
nation. nation.
Hunt

## MICHIGAN FORESTRY CONVENTION

The third annual meeting of the Michigan Forestry Assooiation was held at Saginaw, on November 12th
and 13th. During this meeting there was a conter of the forestry offticials from the Lallodstates, Michigan, Wisconsin, Minnesota, Ohio and Illinois. The conference was called in order to discuss and arrive a
some definite policy in regard to the forestry problem some definite policy in regard to the forestry problems
confronting the above-named States, and Ontario officials were invited to attend and assist in the discus-

The conference took the form of a discussion, an
the topics were introduced by brief papers The the toples were introduced by brief papers. The ques tion in Relation to Forestry; State vs. Private Forestry. Protection of Forest from Fire; Reforestaaxation was shown to be a very difficult problem America, we have not arrived at a satisfactory method of taxing forest property. The chief fault at present is that the assessment is liable to be made upon the
value of the standing timber. When the private owner finds that he is being taxed upon this basis, it natural that he should clear off the timber. It, seemed
to be the opinion of the meeting that ah combination of to be the opinion of the meeting that ah combination of
annual ground tax and a harvest tax would be most conducive to conservative cutting. At every forestry gathering in North America the
fire problem takes probably the largest share of the fire problem takes probably the largest share of the
programme. At the Saginaw conference we again than the lumberman had ever converted into lumber. Two systems of fire protection are in vogue at the present: Fire warden and fire patrol.
The fire-warden system district authority to cail out men to assist in putting out fires at dangerous points. This system endeavors
to put out fires after they are under way, while the fire-patrol system tries to keep them from starting,
which is the only real urotection patrol system since 1885, and has gradually developed and improved it so that now we are receiving valuable protection.
Reforestation received considerable attention, an it is gratifying to see the lumbernien are beginning
realize the practicability of replanting waste Several prominent firms are carrying on planting oper tions. The policy of the Lake States at present is
to buy back all non-agricultural land, where such land exists in areas large enough for management purposes. and place these areas under rational treatment as permanent forest lands.
Farm forestry occupied a prominent place on then programme, and was distussed under the topics Farm Wood-lot", and "When is Land Better Suited "o Forestry than Agriculture?" The farm wood-lot ha of as a permanent part of the farm. It is the light stand of the forest against the march of agriculture The farmer does not depend upon the wood-lot for revenue, and does not keep accoont of the amount therefore. exists as to the condition of the wood land. Many are awakening to the fact that the well-
managed wood-lot should be a permanent part of the managed wood-lot should be a permanent part of the
farm equipment, and that it may be a source of centue as well as protection. Frobably the per that of mismanaked farms. There exists about 8,500 square miles of Parm woodlands in the Province
Ontario at the prusent time. aiding the private individual in tree-planting, either by the system of free distribution or bonus.
The system of free distribution with inspection is probaby giviny the a legitimate function of the State. Minnesota is paying, in the form of a bonus
planters, atout planters,
$\$ 700,000$
soils " is gaining kround in America. It is very difficult to alwass say when land is better sutted to
forestry than agriculture. There exist extreme cases of




THE FARMEK'S ADVOCATE. prizes for road improvement
$\qquad$ Motor League, for the best work in mile ontario provement, have been won by the townships of litoliCoke and Markham, in York Co., Ont. Further prizes of $\$ 50$ and $\$ 25$ each were awarded to the supervisors Etobicoke is on the Lake. The mile of highway in Humber made on the recominendation of Mr. A. iv Cammere Ontario's Deputy Minister of Public Works and Cood mittee of judges for the competition, other judges bein William lobie, of Toronto, on behalf of the League and William Pugsley, representing the county of York Mr. Campbell, in reporting, commended very highly
the work on the Lake Shore Road, where $\$ 4,000$ was expended. Part of the improvement consists of laying a foundation, 12 feet in width, throughout the length of the roud, consisting of eight inches of flat rock,
over which another foot of broken stone was laid the whole covered and rolled with road rollers. eleven miles of road were entered in the competition by six municipalities. While all of these were not finished sults of the competition. Thescribed as the worst piece of road between Toronto and Hamilton. The additional section of the township of Etolicoke, as far as Etobicoke Creek, is now being improved, and will be finished nevt yenr. Peel
County, which adjoins Etobicoke, has improved its section on the Lake Shore Road, while Wentworth County has just entered plans with the Government for road im-
provement, including the prounty.
As Wentworth is about to improve the section of
road in that county, and Lincoln County, adjoining Wead in that county, and Lincoln County, adjoining
Wentworth in the Niagara Peninsula, has entered plang Wentworth in the Niagara Peninsula, has entered plans
for the improvement of the roads in that county, the entire Lake Shore Road, not only from Toronto to Hamilton, but from Hamilton to Niagara Falls, is In the East next year
The only other highway outlet from Toronto in need of improvement is the Kingston Road, and it is probnext year to have the Norway Heague will take steps
which has been in very bad state for a number of years, put in good
condition. Whem all is completed, farmers living alons the highways will probably have the pleasure of stand

CONTROLLING THE BROWN-TAILEU MOTH IN NOVA SCOTIA.
pillars of the Brown-tailed moth nests containing cater large numbers in parts of King's. Annate found in fairly Cormouth C'ounties, Nova Scotia. With the hearty caterpillars were destroyed, these counties, many damage prevented. However, and much temporary there can be no doubt but that specimens of this serious pest will be observed not only in the sections in fected lust spring, but also in adjoining localitios. The
people of Nova Scotia are determined insect, and it is, therefore, important that the men this reposed ancial Department of Agriculture, in whom is reposed an oversight of these matters, and to whom the formed are tooking for information, should be kept infrom the Agricultural College, at Truro 1 teachers and citizens in various sections of Nova scale and co-operation with work occurrence of thy School teachers are particularly requested to find the conditions existing in their sections, and report as soon as possible to 1rof. M. Cumming, Secretary for
Agriculture, Truro, N. S. or to I'rof. H. W. Smit Sological Department, Agricultural College, Truro
$\qquad$ body, and hence called the Brown-tniledinations to Hying during July, and has probably reached localities laid and hatched previously been found. Its eggs were an inch tong, which hatched (Nout from these eggs, have an inch long, which hatched out from these eggs, have
been feedding on the leaves of fruit and other tries, and constructing the nests in which they will pass the
winter. These nests may now ho foumd tached to the nests mayng branch bee found uswally at
 cality Ansmere rendme this circular. Who knows of a lue
amunicate, at the cancts


## SPEAKERS FOR CHEESE FACTORIES

sind speakers to attend their annual Agriculture tothe fall and winter their annual meetings duringhave alreadybeing arranged fold, and a number of others awish assistance in it to be hoped that those w
once. Those who want assistance ..... a
Dairumen
no cost for sending speakers to these meetings, excent
spealerested persons are expected to entertain thi where the speaker drives to the next place of meeting the factories concerned will be asked to make arranko 0 monts for the transportation of the delegate without instructors will be asked to attend these meetings; al arrangements can be made the factories so desire would be prepared be made to send a delegate wha velection and Impre the subjects as: "The Growing of Crops for the Feeding of Derd : The Applications should be sent to G. A. Putnam. Directe. Buildines. Torector
of Dairy
Ont. $\qquad$

## FORTHCOMING EVENTS

Not. 30th to Dec. 7th, International. Chicago
$\qquad$
Dec. 9th to 13 th, Ontario Winter Fair, Guelph Dec. 12 th. 1 p. m., creamery meting Guelph

Jan. 6th to 11 th, Fastern Ontario Fat-stock and
Poultry Show Witnan Foultry Show. Nttawa.
Feb. 12th to 14 th, ${ }^{2}$ Ontario Horsebreeders' Show, May 4th to 9th. Canadian Nntional Horse shom

## CREAMERY BUTTERMAKERS TO MEET

A strong programme is urranged for Dee. 12th ( $W_{\text {in }}$
AcQuaker will wive creamakers from all quarters. John
Herns, Secretary of the Western Dairy Association. FrankRohertson will discuss creamery work of past season1. W. Scolt, the scales in taking samples for seastingDean, followed by W. W. Moore, Chief of the Harkhivision, Ottawa, on the live topic. Transportation
termining moducts, H. 1.. Fulmer, on methods of do
(ermining moisture in butter, and an address by Geo. A
D. WARD KING FOR THE ONTARIO WINTER FAIR.
ment will be pleased to learn the good-roads move Missouri, the inventor of the split-log drag King, of livered in the lexture on "Good Roads Right Now," to be de on' Wednesday afternoon of the Ontario Winter Fair lowing day he will pive December 11 th, and the fol Master." Je will give one on the "Horse and His pleasing and effective speaker, and all who a is a very Should make a elective speaker, and all who can do so Mr. A. W. Camplell, Ontario's eftcient Deputy
Minister oi Fublic Works and Good Roads Coinmigeion

A CHARMING CHRISTMAS PRESENT
$\qquad$e


and 近就rationt．
［Contributions on all subjects of popu－
lar interest are always welcome in this
Department．］
SOME ALTRUISTS IN CANADA．
IAs they revealed themselves at the
second annual convention of the Ontario Horticultural Association，which met in the City Hall，To
and 15th，＇1907．］
Society Convention to a Horticultural Society Convention before，and， must in the City Hall，Toronto，whic November 14th，with a feeling dan gerously on the border of boredom It seemed to me a city affair，bor
and bred in the town，a sort of hot house product，dealing with conserva tory matters，with the disposition of checker－board front lawns and clothes－line back yards，and pretty
much foreign in interest to us of the broad fields and true country．It is with great pleasure，however，that I confess a complete enlightenmen My little band of city people cumscribed by the horticultural nec－ essities of the town alone，turned
out to be a large and representative cathering，composed almost exclu sively of townsfolk，it is true，but
ownsfolk whose sympathies ranged over almost every foot of ground of
this dear old improvable Dominion Veglected cemeteries，defacing bill oards，desert－like schoolyards，tree less highways－all these were brought and，while the beautification deserve， rural home itself was not especially touched upon，it was auspicious to hear the assertion made by one of
the members，Mr．Pearce．Park Com－ the members，Mr．Pearce，Park Con
missioner of London，Ont．，tha ．／The cou
much as the town．＂This is and the fact that atten
called to the matter
earnest of an altruistic is an added the part of the members，and a pos－ sible anxiety that people from the
rural districts should become rural districts should become mem－
bers also，and join hand in hand with the city in changing the face of the Dominion of Canada into one of uninterrupted h
Altruism was，in fact，a striking characteristic of the whole c
tion．The Horticultural Soci
not a money－making concern． not a money－making concern．It
gets（often more inadequately than
it deserves）only to pive in in mood it deserves）only to give＂in good
measure，pressed down and running
over．＂ and donations is expended in premi－ and in prizes for the horticultural arged to give freely，when the root dividing seasons come round，to buy．Above all，the Society recog nizes the influence of beautiful sur－ the of the peophe．the rinement hess in life that come from a love he one whose chief aim in life
money－getting，is not the happiest
man；and this the Horticultural Society fully realizes． itself－I did not count the attend ance，but judged that about a hun
dred delegates and others，represent ing every part of the Brovince of Ontario，were gathered about the tables in the hig，red－carpeted，olive－
walled．graple－friezed room of the walled，grape－friezed room of the
City Hall，in which the meeting was The retiring President．Mr．Bur goyne，of St．Catharines，who has
filled the position most acceptably for the past two years，occuppied the chair during the first part of the session，vielding it，after the elec－ Major of officers，to the new President
Major H．J．Snelgrove，of Cobourg． Mr．H．B．Cowan，the Secretary Treasurer of the Association，in pre senting the report for the last year，
spoke of the oncouraging growth the So of the ancouraging growth of
the Society，and the consequent hop of a larger Government grant． The new Superintendent of Horti－ Wilson，followed in an exceedingly elicitous address，which will appear in full in a later edition of＂The Farmer＇s Advocate．＂Before clos－
ing，he issued a cordial invitation ing，he issuer a cordial invitation to visit him at any time at his office the Parliament Fuifldings，to talk over the progress of the work．This
nvitation will no donht be taken


An Attractive Home in P．E．I

 Following his address，the ques．of thousands of homes in tharemess
tion as to how corporations if a house has no might be approached for funds．was al beauty，it may be colered with
brought up．＂When you go for a vines，flowering clematis grant，＂said Mr．Coway，＂don＇t go sweet，etce These may be bot che the begging．Go as if it was your by ordering in quantit，，Much shrubic
right．Go to the council with at as Tartarian honessucka．and line of work prepared and show on the people，Whe shomal be thrims
them you are doing a good work．＂ond too much When the matter of getting funds money on seeds and limllis which ath
and Major Snelgrove followed with an exposition as to＂What Horticul－ Civic Improvement．＂Do to Promote these very excellent papers reached the very pith of many things which much as the town，we have made as rangements to have them published in full in＂The Farmer＇s Advocate＂

> A Practical discussion In the discussions hinging on these brought up．Mr．Pearce emphasize the necessity of cleaning up and hoautifying the cemeteries．They ing to a said，be planted accord－ an attractive and harmonious whole The Horticultural Society requires an＇t sparkers．＂he continued．＂We whether local or from the of them； The work must also depend largely houldicultural literature，which cated in the considered，be incorpo－ forticultural Society should hery fower shows，and the children shou given a division in each exhibi tion．Through them．the parent ADRRFES by ADDRESS by PROF．MACOIN． Trofessor Macoun．of the Experi mental Farm，Ottawn，on arising ta
$\qquad$

Which should surely book him for a did the at agricultural conventions． of him．Leavinir floriculture hold much alone，he came out flat－footed favor of＂agricultural＂educa－ course．Agriculture public－school ture should，he considered horticul－ pulsory in public schools，A cono－ lution to that effect had been adopt－ might well be considered by this one sociation．The horticultural sol cieties he looked upon as a great means of breaking down the dividing

As a result of the cussion，a special committee dis． sisting of Messrs．Burgoyne ，con－ and Rev．A．H．Scott，was ap present to the up a resolution and to the embodiment of egricular and horticultural instruction in the Following series of school books foard nuisance asion on the bill sisting of Messrs．Pearce Snelgrove and Rev．Mr．Harris，Guelph，was rial to the ing that the dispositionsiature，ask bill－boards be regulated．and size of noted that in many places bills wha be posted only upon cylinders made

Major sinelgrove＇s paper also gave Hard maple，Norway maple and trees were especially recommended as decorative trees in Canada，provided feet apart．grown not closer than 30 laken in pruning any kind of trees only those who thoroughly under－ tood the work should be permitted be cut off a tree，except，possibly the soft maple，as the result would likely be to kill the tree in a short Rev．Mr．Harris，of Guelph，spoke result of the distribution of flowar and vegetabie seeds among the chil－ dren of Guelph，a work which will be
undertaken for the children Province at a later children of the Hutt，of the O．A．C．．Mr．Harris
thought the bach yard needed espe－ cial attention．and that a vegetable
garden might weli be regarded as a
place of interest and hauty ai utility．
A ICMI 1 AM）MEMBEB
$\qquad$ Mr．McDowall，the delegate from
Wwen Sound whe how to dran out wembers to know larious of the local societies． harions schemes were solieties． localitios．In（irimsty in different oi the members，and ai the houses russed at each，and one paper dis－
athectes of lessons，e．y．， found of flowers，＂te were alse moll was to ho！d metetings during the these incetings flowers，for whic At prizes were given，were placed on ey


WH, F FLOWERS WORTH GIROWTN

The last address of the session wa Hamilton, on the above topic. The gardener who would make a success
oi wild flowers should visit them in their natural haunts. Among the earliest flowering of the wild flower
which may be cultivated in gardens which may be cultivated in gardens
is the hepatica, with white, blue or pink sepals, woolly stems and flowers borne on scapes. Thickly set, these
llowers make handsome borders. lowers make handsome borders. after becoming well established. The liowers resemble orange blossoms, and
the foliage is very handsome. Among the foliage is very handsome. Among
other flowers he recommended the other flowers he recommended the
rillium, so common in our woods the bellwort, with numerous pale yellow, nodding, bell-shaped flowers;
violets: aquilegia canadensis, with violets ; aquilegia canadensis, with moss pink; northern bedstraw; flowering spurge; showy lady's slipper, which requires deep mould or peat,
aud the yellow variety, which is more and the yefow variety, which is more swallow wort, evening primrose, especially primula grandiflora: lilium
Philadelphicum or wood-lily: Turk'sCap lily; wild bergamot or bee-balm; lobelia cardinalis or cardinal flower, growing by brooksides; asters, many of which will repay cultivation in
gardens, especially if grown in clumps, the New England aster being especially good. . He, also emphasized the fact that most of our
native shrubs and vines may be sucnassfully grown in any garden.
Mr. Scott, of the Toronto Normal School, in commenting on Mr. Dickson's paper, added a iew other varie-
ties: Thalictrum or meadow-rue. ranunculus repens; smilacina stellata species of Soiomon's seal; some of the gentians and rudbeckius. After all, nowhing like going out to the woods The flowers are best in their own en vironment. As Emerson says
I thought the sparrow's note from heaven, at dawn on the alder
Singing at bough ;
brought him home, in his nest, at
He even: sings the sung, but it cheers no
For I did not bring home the river and
sky ;-
He sang to my ear:-they sang to $m$.
In closing this report I can only express my regret that space con-
siderations forbid the publishing oo every address and discussion ver batim. But we have one word
more. Why should there not be branch of this Horticultural Society in every village and town in the country, through which townsfolk
and farmfolk might meet to discuss and farmfolk might meet to discuss
the problem of rooting out ugliness from our country and substituting for it a beauty which cannot fail to iit even the most prosaic, at times, from merely sordid considerations?
There is inspiration as well as instruction awaiting at such meetings, and the social intercourse, which, whatever the recluse may say, is very ture. - Again, why should not women of Canada take a greater interest in this thing? As Superin-
tendent Wilson truly renarked ""The women know ho w to make things beautiful." Why, then, should they not be active in the societies and send more representatives to the
conventions? There were only about seven women at this convention, and two of them were merely reporters. Cannot the women of Canada do
something towards stirring up this something towards stirring up this
matter during the following months ? The evenings are long, and winter is usually regarded as a rest-time among
farmers' wives. It is theirs to see farmers wives. It is theirs to sec
that $1 t$ is not merely a hibernating that "is not merely a hibernating
time, but a scason for the mental improvement which is to so great an extent crowded out by the neces-
sary manual labor of the busy sum-
worr months mer months. The Horticultural So

Kay our forming population fully pass without avail during this winter season of 1508 , and may the next tended by not one hundred, but many hundred horticultural altruiste

REPRESENTATIVE
OUR ENGLISH LETTER
AROUND AND ABOUT OLD wid chester.
III.

In my previous letters, which told you in condensed form something about old Winchester itself, I omitted to maike special mention of the name
of Bishop Walkelin, the cousin of William the Conqueror, who over eight hundred years ago might almost have been cousidered as the actual though much of his original work has been lost to it by the destroying hand of old Father Time, there still septs, and here and thorman Tran nants of his artistic taste.
Here is an anecdote worth repeat ing, as throwing a little side-light proof, not only of the forcefulness character which enabled him to carry out under very adverse conditions
work of such magnitude work of such magnitude, but also o
his sense of humor. There is lage in Hampshire, not far from Win chester, which is said to be the sit of what was once Hapening Wood. O what rashly made the promise to hi


Choir and Nave, Winchester Cathedral
might have for his cathedral os nuen In a day; whereupon the Bishop got ogether so great a posse of laborer from all the country round that he cut down the whole wood! The whom 1 quoie, peter Lombard, from Episcopal sharp practice, was as fol
lows: © The King's languaco bews: "The King's language may bo grew calin, and after a good blow he Torgave the lishop,"
Referring to the coming pageant Referring to the coming pageant,
to be held at Winchester in 1908, the same writer says: " Pressed down and running over are the memories which coms pouring in to our national archives as we think of Win-
chester." and of St. Cross he says ". There is not a more charming say in all England. I hope we shall have it well to the front in the pageant, whilst for miles and miles around Hampshire villages. churches, man sions and manor houses are built up-
on historic ground. From Southampton Water to the ltchen valley selves. Joining hands with aborikinit their common enemy the Danes thus forming the Kingdom oi "Wsse
which became afterwards the Kine

That, of course is very ancient hist tory indeed, but had Hampshire $n$ beauty all its own in its wide stretch tions and mounds, some of them with a claim to the title of hills (such as St. Catherine's Hill, which smiles or occasionally frowns down upon St.
Cross), some of these spots having Cross), some of these spots having
clumps of trees, to nearly all of which some story is attached. In approaching Winchester one could see
a veritable panorama of villages, a veritable panorama of villages
with their churches and rural surroundings, if only one could soar o outstretched wing instead of being a
mere prosaic traveller in railway mere prosaic traveller in railway
train or carriage. There would be
, Trest train or carriage. There would be
Alresford and Alton, Tichbourne and
Hurslow Hursley, with its memories of the
saintly Keijie, and quaint little Saintly Keisie, and quaint little
Croslebury, which claims not only to be the scene of the story of the Mistletoe Bough," but the present possession of the very chest in which he tragedy occurred.
ject has disappeared which existed as ject has disappeared which existed as service of our own day, i. e. the
"Semaphore," from which started a "Semaphore," from which started a
continuous line of signals to conver intelligence from Southampton an l Portsmouth to London ill 1795 , at he tinie of the French war. But it linger so long on my "ay, I shall
ire you before I ask you to cone with me to St. Cross.
Tinder the namic of St. Cross is in cluded not only the grand old Nor-
ran. church of almost catherral
dimensions. Luilt hy Henry do Blois.


Som of Fngland, under Fxhery. it

Now all the old lucks are in ruin
old St. Crosse, lurothers, " workilly
days are over, its foundation the Hospital or St. Cross was placed under the charg. of the knights of St. John of Jerit tion of the "Tan," or the adol cross, a Crusader badge which been worn on the left breast of every 10

Cross
reneticiary since the days of the Cusades. its four arms, pointing ercmption. Is the years rolled on many abuses 1., and the intention of iunds crept as outen forgotten, but under the later oi Carainal of Weaufort, who has heen considered the real restorer of di. Cross, brighter days dawned. Its fiity years, has nut teen without blemish, but I am thankiul to know that the clouds have been finally liited, und a wise change of managewidened its scope of benevolence anc Even in my young days the marble of the massive pillars of the church was hidden by whitewash, bats and tory during our Sunday services, and our pews were mere seats grouped together in an "anyhow " fashion, pitched in a wilderness. Now rever erent hands have restored much of its earlier beauty, whilst architectural treasures have leetl revealed
which have been lost to sight for enturies.
Memory crowded upon memory as
I passed under Beaufort Tower and I passed under Beaufort 'Iower, and
had a few words of greeting with the wite of the "Brother" in charge, who
had, it was most delightful to find once been a scholar in the Sunday School founded by my mather in our Whi grounds, when space in the ,een denied her by the cross-grained und seif-greeny old master of St. ross, under the old regime of misAs I have said beiore I say again, * "hen you visit Winchester do not fail to visit St. Cross. Ask to be shown instrel's (iallery and the leathern on in which the thereirom the kitchprepared. Which is a perfect museum if old-time cooking appliances. Ask hit of bread, with its horn of very
small beer, which you may drink or not as it may please you. Request to be shown the table of Purbeck the Cloisters, upon which, it is recorded. that the money was placed in readiness for its being paid to the
original masons and builders of nearly 8on vears ago. Then before you return to 11 anchester, by before yon Walkine, strill the water-meadows, if
church outside the Church until youl come to the quiet ditue hurial ground in which repose
of momtal as woll as practictor and


## The Quiet Hour

THE FARMER'S ADVOCATE

THE MIGHTY POWER OF HABIT


.

We have not wings, we cannot soar,
But we have feet to scale and elimb By slow degrees, by more and more,
The cloudy summits of our timive

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## The Young People's Department.

utilation, a chief cut off a finger of one
of the womien; but desisted from further orturing on the angry protest of Cham-
pace was close at hand, surrounded by fields The young Hurons in advance saw the roquois at work among the pumpkins harvest. Nothing could their rustling hare-brained and ungoverned erew. They screauned their war-cry and rushed in: killed or wounded fhed their weapons, sssilunts, and drove back the rest dis were forced to interpose; and the report of their pieces from the border of the
woods stopped the pursuing them their dead and wounded.
It appears to have been a fortified
town of the Onondaga of the Iroquois confederacy. Chat
plain describer plain described its defensive works as much stronger than those of the Huron
villages. They consisted centric rows of palisades, form contrunks of trees, thirty theet high, of
aslant in the earth, aslank ine earth, and intersecting one a kind of gallery, well shotproof timber, and furlended by woocen gutters for quenchimg fire. A
pond or lake, which the palisade, and was led by sluices within the town, gave an ample supply provided with magazines of stones Champlain was greatly exasperated by Huron allies. And fainst procedure of his now withdrew to the distance of a can non shot from the fort, and encamped in . 1 was moved." he says, . tho enemp! them roughly and harshly enough, in fraer to incite them to do their duty,
foresaw that, if things ing to their fancy, nothing but harim could come of it, to their loes and ruin." In the morning, aided doubtless by his ten or twelve Frenchmen, they set them-
selves with alacrity to their prescibe task. A wooden tower was made, high enough to overlook the palieade, and arge enough to shelter four or five
marksmen.
Huge wooden shields, Four hours sufficed to finish construoted. and then the assault began. Two dragged the tower forward, and parrionts t within a pike's length of the palisade. where, aryuebusiers mounted to the top. opened a raking fire along the galleries
now thronged with wild and alaked de. now thronged with wild and maked de-
ienders.
But nothing could restrain the allgovernable Hurons. They abandoned their mantelets, and, deaf to every com-
mand, swarmed out like bees upon the war-cries, and shot off their arrows;
while the Troquois, yelling deffance from tones and arrows inl reply a shower of stones and arrows in reply. A Huron,
bolder than the rest, ran forward with
fire-l) rands to burn the palisade, and dre-rrands to burn the palisade, and
others followed with wood to feed the
flame the leeward sitce, without the protecting or water, poured down from the gutters above, quichly extinguished it. The con-
fusion wust anus yolling at the top of his throat. and

EARLY ADVENTURES IN CANn bec was a Frenchman, named Samuel Champlain. Getting tired of everyday
life at home, and being anxious to some fighting, he started off for the new citing adventures he had, as you may read in Parkman's book, ". The Pioneers
of France in the New World." I am going to give you an account of one of
his later adventurees from this book. Champlain had been visiting a village guest of an Indian camp or village is idleness without repuse, for he is never
left alone, and the repletion of incessant feasting. Tired of this inane routine,
Champlain, with some of his Frenchmen, Champlain, with some of his Frenchmen,
set forth on a tour of observation, while Walting for the arrival of allies for the their ease, they passed, in three days, Ave palisaded villages. The country de
lighted them, with its meadows, its deep woods, its pine and cedar thickets, full
of hares and partridges its widd and plums, cherries, crab-apples, nute and raspberries. It was the 17 th the
August, 1615, when they reached the Huron metropolis, Cahiague, in the
modern township of Orillia. rejoicing, the fixed stare of wondering squaws, and the screaming fight of terri-
fied children, hailed the arrival of Cham-
plain. Hore wac the Chival and the town was filled with gathering warriors. There was cheering news; for
an allied nation had pyomer the Hurons in the enemy's country, with
live hundrod men. Feasts and the wer tive hundrod men. Feasts and the war-
dance consumed the days, till at length dance consumed the days, till at length
the tardy bands had all arrived; and, shouldering their canoes and scanty
buggage, the naked host At the outlet of Lake Simcoe they ail for a commissariat. On the morning of shivering in his blanket, awoke to see the meadows sparkling with an early frost, soon to vanish under the bright
autumnal sun. The Huron fleet pursued
$\qquad$
$\qquad$
$\qquad$
$\qquad$
woody point, and the canoemen killed
them with spears and arrows as they
took to the river. Mhamplain and his
friends keenly relished the sport hut

NOVEMBER 28, 1907



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seized me, child though I was, that
I should have confused Henry Car-
Cind

EASY to mix this.
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many people here is the articte tuk
from a Now York daily paper from a New York daily paper, giving
simple preseription, ns formulated by noted authority, who cluims that he has found a positive remedy to cure almost
any case of backache or kidney or blaul der derangement, in the following simply.
prescription, if taken beforo the Brescription, disense
Fluid
Fluid $\begin{gathered}\text { Extract } \\ \text { ounce; } \\ \text { Compound }\end{gathered}$ Kilion,
Compound Syrup Sargaparilla,
tanres. Shake well in a bottle, an
$A$
when well-known druct
Mhen asked regarding
stated that the ingredien
less.
and can
cost from any $\begin{aligned} & \text { anod } \\ & \text { pharmacy, or the mlxuro }\end{aligned}$
up if asked to do so. He further stated
that while this presering scribed in rherescription is otten pro-
splendid resultic affictions with spiendia results, he could seo no reason
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most important organs and helping them to sift and filter from the blood the fowl acids and waste matter which causo sick-
ness and sulfering. Those of our readers who suffer can make no mistake in kiv-
drenmed I slept in an editor's bed
When the editor was not nigh,
And I thought as I lay in that dow

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| GOSSIP. |
| :--- |
| Geachburg, N. Renfrew |

The annual meeting of the American
Oxford Down Record Association will be
held Wednesday, December 4 th, 7.30 p .
m., at the general meeting rooms of the
m., at the general meeting rooms of the
live-stock Record Building, on Exchange
Avenue. Union Stack

Avenue, Union Stock-yards, Chicago,
Ill.-W. A. Shafor, Hamilton, Ohio,
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Nov. 28th.-Mossom Boyd Co., Bobe
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Percheron horsos,

Dec. 20 th.-W. S. Carpenter, Simcoe
Ont., Shropshire sheep.
Ont., Shropshire sheep.
Jan. Gth, 1908.-EEtate of Wm . Hendrie,
Han. 8th.-H. M. Vanderlip, Cainsvile
Ont., Berkshires.
As will be seen by his advertisemen
in this paper, Mr.
in this paper, Mr. O. Sorby, of Guelph
Ont., must have a remarkable and re
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nowned lot of stallions on hand at pres-
ent. It is questionable if there are
many good ones in any one stable in
America, and it would be well worth any
Sterested horse-lover's time to visit Mr.
Sorby's stable, whether wanting to pur-
chase or not, to see such a
chase or not, to see such a collection of
Scotland's best. It is gratitying to Ca-
nadians to find Mr. Sorby's stock horge adians to find Mr. Sorby's stock horse,
Acme, taking eighth place amongst the
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Britain.
No other horse imported to
Canada has ever taken such a leading
osition, and the test of produce is the test that tells. Roselle, another in-
luded in this stable, has stood well inded in this stable, has stood well up
in this list. Canadian stock at the interIn the list of entries for the Interna-
tional Live-stock Exposition at ChicaLional Live-stock Exposition at Chica-
go, the frrst week in December, totalling
several thousands, are 310 by Canadian reeders, in the breeding classes of Clydesdales, Hackneys,
Hampshires, Leicesters, Hampshires, Leicesters, Lincolns, Cots-
wolds, Southdowns, Dorsets, Oxfords and
Suffolk Downs, and in the fat claseg for sheep, 196 entries. The exhibitors of horses from Canada are Graham Bros,
Claremont;
Graham - Renfrew
Co., Bedford Park; Oak Park Stock Farm Co.,
Brantford, and R. Ness \& Son, Howick,
Que., whose entries in all total 45, leavQue., whose entries in all total 45, leav-
ing entries of 460 sheep, something over ing entries of 460 sheep, something over
oo of which are supposed to be en-
ered for the auction sales to take place
ouring the Show.



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& \text { Dept. H. } 355 \text { Yonse st., TToronto. }
\end{aligned}
$$

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stallions dust Arrived.
I am prepared to offer for sale more old Oountry promium and $\mathbf{H}$, and A. Soolety


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Imp. Clydesdale Fillies by Auction
15 TWO AND THREE YEARS OLD,
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My latest importations are the sons of Baron's Pride, Up.to-Time. Baron Hood,
Fikekle Fashion and Sir Christopher ; are up to a ton in weight; with strong, Fiokle Fashion and sir Christopher; are up to a ton in weight; with strong,
flat bone, the ebest of feet and ankles, and big, smooth. flashy tops. A choice
lot. My past 47 importations and atraight way of dealing are my gnaranteo Wm. Colquhoun, Mitchell P. 0. and Station, 'Phone,

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Do yout vear
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Name.
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For want of stable room will , ell oheap 10 heifer

 J A MES MOARLES, ONTARIOMUR,

JOHN LEE \& SONS, Highgate, Ont
 BMORTHORNS \& LINCOLME Tho ohamplon herd of 티․
 coloetion of yours coms and

Spring Valley Bhomthome Bulls in service
Ohancollor are:
imp. $)=40359=(78286)$ Olipper Chief (imp.) $=642$ tvLE BROS., - As

Ayr. Ontarlo.

3
 and seen us. Brithforet Po. O. Weoton

MAPLE GROVE SHORTHORNS ootoh and dairy bred; ap-bodato in typo; prise

 YOUNG SHORTHORN BULLS Am now offering 2 grand ones from Scottish
Peer (imp.). Will make show animals. Also


Brown Lee Shorthomns ! Nonpareil Victor $=63307=$ at hoad of ord.
Yonns took for salo at all times. Pricee vory ble AYF. L. P. R.' Drambo. G. T. R.
ELM PARK STOCK FARM Clydesdales and Berkshires.

Sootch Shorthorns Representing the ohoi oest strains.
etock of both fexes for sale. F. W. Ewing, Belem P. O., Elora Etn.

QUESTIONS AND ANSWERS Miscellaneous

TOP-DRESSING WINTER WHEAT Would youk kinaly tell me ns to when
Whe beast time to tond sthe best time e to topraress whent, bo Anss-Top-Thessing with short. well
,oted manure before or or just anter soll ing the wheat is preferred, but it not vait till the ground is frozen sufficiently ot carry the horases and wagon, otherwise
the kround would likely cut up prety Salls. Green manure, with consideratule
 INFERIOR ONION SEED. send to you a parcel of vegetable
ich have been called onions. I should ve liaseso to have you examine then

 Ans - Cvididenty sous
 market this year. We have had mali
complaints siminint to
 the name of the varietys but evident
then are rom poor seded that is, se
which hase been which has been gathered from immature
onions. Soil and season sometimes
affect ther ripening of the onion cop. affect ther ripening of the onion crop; bu
this year the trouble has been with th
seed rather than soil seed rather than soil or season.
$\begin{aligned} & \text { U. A. C. }\end{aligned}$
H. L. HUTT. WOOD SHAVINGS AS MANURE I require some 300 or 400 loads of
manure every season for my market
sardens. $\begin{gathered}\text { Owing to the scarcity of }\end{gathered}$ yardens. Owing to the scarcity
straw, our liverymen and hotelmen hav been using shavings for bellding the
animals. These shavings ard animals. These shavings are from the
planing mills, where large quantities lumber are planed here in transit fror
the north to places in the south west of us. ow owing to their abundance
wher there is very little good straw manure
o be had in town. The shavings ar from all sorts of lumber, but, I think
Ine larger part is from birch and spruce 1 write to ask your opinion as to the
cifect such manure would have on my
crops; whether it would be likely to cuse fungous growth of any sort? M
and is of considerable variety-some sti
clay some black muck. and some cla or ten acres of tight sandy soil, which or ten acres of light sandy soll, which
has been heavily manured for fifteen or
lwenty years, and is now in very good Wenty years, and is now in very good
condition. I can secure plenty of this
manure, but am afraid to use it until I


| Shorthorns BELMAR PARC. |  |
| :---: | :---: |
| Jelin Douglas, Peter Whit |  |

 beifers in calf by him. (imp.), alleo ooo and and



\section*{ xolusively Herd bulls: Scottish Hero (imp)

$=5042=$ (90065),
 Duchese of Gloterer. Young stock for sale Long-
distance 'phone in house.

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##  <br> Nothing is better for fattening steers quickly and patting them on the market in prime Condition than Oif Coke Meal. Thousandis of Canadian and Eng ish etockmen wie


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## 8

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Cattie have a Large Stock and Feed is Scarce. Cattie we have, so that it is useless reens cance. Most of you know the Kind of ur stock, so that we may be able to pull thre usual formula. In order to Reduco which will Well Repay the Purchaser who has feeder, we Will Sell at Prices ve pretty nearly anything You want. If you can has feed to keep them until spring. We
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We affer: $\left\{\begin{array}{l}\text { Ten high-clase bull calves. } \\ \text { Ten high-clase heifer oalves. }\end{array}\right.$
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bulls for sale.
Our Leicesters are exceptionbulls for sase. Our Leicesters arre oxeeption-
ally goo this your. Rams and ram lambs
and ewes for sale. A. W. Smith, Maple Lodge, Ontario

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PLEASANT VALLEY SHORTHORNS
For sale: 3 yenng bnlls by Old Lancoster Imp.,
from Imp, damas, including Lancaster Victor,
fres
 Geo. Amos \& Son, Moffat str. \& P. O Valley Home Shorthorns and berkshires.
 Heaven is either now or never.
Many a trial is a test before promo Lon.
Love fills even family jars with perfume. lift of your life is the proof of
The
your iove. The iove.
The best social refinement is to be re-
fined of self.
fined of self. help is always a sad hin-
Unnecessary drance.
You cannot give a quart of love out of
a half-pint heart half-pint heart.
The only way to leave the bad is t Ieave to the good.
There are people who never appreciate
the rose until they apprehend the thorn. ety is nut vigorous enough to stand Heaven may he the home of praiss, but
it will do no hurm to let a few cheers Some men think that they are doing a


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The present generation of women and girln
heve more than their share of misery. With have more than their share of misery. With
come it is nervousness and palpitation, with some it is nervousness and palpitation, whith
others weak, dissy and fainting spells, while with others weare, is a general corlupspo of the system.
Milburn's Heart and Nerve Pills tone up the Milburn's Heart and Nerve Pills tone up the
nerves, strengthen the heart and make it beat nerves. strengthen the heart and make ip beal
strong and regular, create new red blood corstrong and regular, create new red buoyncy to
puscles, and impart that sense of bey the spirits that is the result of renewed mental and physicel vigor.
Mrs. D. O. Donoghue, Orillis. Ont., writes:

- For over a year I was troubled with nervousness and heart trouble. I decided to give Milburn's Heart and Nerve Pills a trial, and after using five boxes I found I was completely cured Prioe 50 cents per box or three bores for 81 Prioe 50 cents per box or three boxes for $\$ 1.25$,
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"THE MAPLES" HOLSTEIN HERD
 ve monthe old for sele.
Walburn Rivere, Folden's, Ont Benver Greak Hord of Holatelns
 bred from good milkers. Glanuued Stock Farm Holatelne and


Ridgedale Farm Holsteins -1 yearling ball,


From time immemorial there had been a.law in Applegate, county Warwick, England, to the effect that the mayor had the best of everything in town, and, for instance, one should say he had the
beat in the place he must add the words: "Except the mayor." One day a stranger came to Apple
gate and had dinner there at the inn. After paying his bill, he said to the
Alandlord: "I've had the best dinner in
ling the country."
The Landiord.-Except the mayor.
The Stranger.-Fxcept nothing : The Stranger.-Except nothing
As a result the tourist was called be-
iore the Magistrate and fined 10 for
his breaking of the laws of the place.



## BOOK REVIEW.

insectis injumious to vege-
This book has been written by F. H. partment of Agriculture, an expert in the subject of which he treats. He is known
as one of the world's best authorities on as one of the world's best authorities on
insects that in inure veecat consisis of 3 on pages, bound in cleok and is profusedly illustrated. By possessing it, one may know how to combat insect pests by simple and inexpensive remedies, "also how to prevent their recurrence when possible. This is a book which recommends itself especial
ly to farmers and gardeners, and it
should be in the hands Who conducts a rural-school garden. In-
seet pests in the sect pests in the garden are becoming
more serious every season more serious every season, and this book
appears at an opportune time. It is pub-
lished by the Orange-Judd Company, New York, but may be obtained at this otrice
$\$ 1.50$. - tractical painy nacterat. This is anothor of Dr. w. H . Corm
 Where is no need, at this period of the
world's enlightenment, to dwell on the
impor importance that attaches itself to bac-
teria, especially the bacteria that affec teria, especially the bacteria that affect
the dairy. This book has been especial ly written to meet the needs of all prac-
tical dairymen as well. up-to-date, and contains the most re-
cently determined facts and the newest methods. An invaluable book for the
class-room the the newest will prove a distinct help in the great
bettle for pure bettle for pure milk. We note that Dr
Conn dedicates the volume thus. . T mon wife in appreciation of the constan
massistance received from her in this ossistance received from her in this and
otrer scietific works." Fully illus
trated, with 340 pages, and irata, with ${ }^{\text {² }} 40$ pages, and cloth bind
ing, for $\$ 1.25$. Published by the Orange Judd Co., New York, but may be ob
tained at this (Farmer's Advocate) office.

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An agricultural college education, in an ideal sense, should embrace a perfect
combination of the theoretical and prac
rical. Theory and practice must go hand rical. Theory and practice must go han
n hand in agriculture as in everythin wearly this essential principle that ha cess with too many agricultural in
stitutions; that has made them rather
institution Institutions for switching men away from
the farm than for affecting improvement

 environment. that so grounds him edu-
cationally that he can hold his own as a
citizen in the work and public alfairs of
the coln
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 (
 Holsteins and Ayrshires GEO. RIGE, TIllsonburg, Ont. RECOKD OF MERIT HOLSTEINS FAIRVIEW HERD


Maplal Hill Holistilin-Frisiains Ball calves from No. 1 dams, sired by
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sired by imported ram, for flocil sired by imported ram, for flool
headder: also yearling owfo and ew
lambe. Price rearrongble.
40 IMPORTED SHROPSHIRE RAMS champion ram of Conad
JONE BROS.., BuTford, Ont. Orford Domin Shopp, Shorthorn Cattle
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71 Years Without change means been importing and breeding them that Shorthorns followed very soon, that we have portation of Shorthoms, Shropshlres, Clydesdales and Welsh sale, write me. ${ }^{\text {mon }}$ IROBERT MILLER, STOUFFVILLE, ONTARIO.
Shropstires and Cotssululs/Southdowns
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20 ram lambs: 3 shearling rams by an
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H．J．DAVIS，WOODSTOCK，ONT．
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 JOSHUA LAWRENOE，OXFOR̊D CENTRE P．O wooderoor atatron
FAIRVIEW



Wednesday，January 8，1908，at 12 o＇cloot H．M．VANDER Bee large ed．in the Christmas number．

M．VANDERLIP．
Yorkshires and Tamworths－Eitherbreed


EImfield Yorkshires Meado mbrook Yorkhires．











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Willowdale


 SUNNYMOUNT EERKSHIRES！
 milton P．O．and sta．，o．p．R．\＆a．T．R．

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LARGE ENGLISH YORKEHIRES．－We have A limitod number of ohotice youn



Moun Proment Tamworths and Holsteins．

 Subscribe for＂Farmer＇s Advocate＂，

Customer－－What on earth is ，this broth
nade of，waiter？
Surely $y$ it isn＇t Wrot or，waiter？Surely it isn＇t chicken
Waiter．－Well Waiter．－Well，sir，th＇s chicken broth in
tot＇s made out of tho

## BE A FREE MAN! <br>  <br> Feel the Spark of <br> Life in Your Nerves, Recover the Vigor You Have Lost.

If you are a man whose youthful tality has been wasted by indiscretions excesses or overwork, of want to as of exhaustion er feebleness ositive element which you have wasted, viz human elec tricity, can be put back into your body. When you get it back your weakness will dis appear, and you will become strong in nerve, brain, muscle, and every organ, and filled with joy that you are once more a perfect specimen of manhood. DR. McLAUGHLIN'S ELECTRIC BELT will fill your system with the power you have lost. It does this in gentle, glowing, soothing way while you sleep. You get up in the morning refreshed, all aches and pains disappear and you feel strong enough to attempt and accomplish what any other man can or may. It makes you feel like a new man, because it restores and develops the vigor originally given to men by nature

Pick out the men who have worn my Belt. See them with head erect, chest ex panded, the glow of health in their cheeks, courage in their hearts, and a clasp of the hand that tells you "I am the man."
Dear Sir, -I can safely say that I feel much better after using your Rolt. My buck is stronger. not so muct
routle with my organs. I have been very careful with my food, and now I aim able to take more exercise. I re troulle with hy organs. I have bsen very carefulu with my
main, W. H. HARWOOD, No. 204 Oxford Street, London, On
Deno
Dear Sir,-I have been wearing your Belt for thirty days, and feel that it has done me a lot of good. Th
losseas have stopped almost altogether, and my nerves are much stronger than they were 1osses have stopped almost altogethe
GORDON DUNN, Paris Station, Ont.
Dear Sir.-- You will excuse me
til this month. Yes, sir, my back
It is a permanent cure my hand
It is a permanent cure. My head
name to certify that your Belt

 plished wor
not done
say that I

The reason so many men neglect to we my beite that they it will fait ib Other things they have tried. Now, the security that I offer to the doubtful man is that he need not pay for my Belt until it does for him what I say it will do, if he will in turn give me reasonable security that he will pay me when cured. P'ut aside Electric Belt cured them or not. Give me reasonable security. I will arrange the Belt and send it to you, and you can

## Pad TVhen Oureed

this electric life into his body every nigy and unnourished in appearance, and I will pour it into the muscles and tissues, and I will ar three months, with proper exercise to draw it into the muscles and tissues, and I will add twenty-five pounds to his weight, remove
every evidence of his weakness, and restore his strength. worn my Belt, and you will see men of force, men of power and contidence, men who re worn my Belt, and you will see men of force, men of po
My Electric Suspensory is Free with Belts for Weak Men This Suspensory is made for the special ailments of men, and assures a cure of
Waste of Strength, Early Decay andl Defility. Its current is invigorating and wouler ful in power. It develops all weak organs

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 Association, frankly promised that he
could tell

## minute

The discussion was led off by Pror.
Macoun, of ottawa, who stated that as Macoun, of Ottawn, who stated that us
fur buck as 1635 it was debated in EngAmerican Pomological Goodman read the following extract fro the ${ }^{1}{ }^{1}=1$
$1635:$
fruit $\begin{aligned} & \text { If } \\ & \text { bou graft apples, pears or any } \\ & \text { bear }\end{aligned}$ un fruit upon a fig-tree stock, they will
bear fruit without booming. If wou
take un apple graft and a pear graft of take an apple graft and a penr graft of
like
iigigness, and having cloven them.
ioin them join them as one body in grafting, the
fruit they loring forth will be half anne
 tree, or other tree, on the holly or op rum
the cypress, they will be green and have
their tenses their leaves the whole be green and have
winter be never so bitter albeit the Mimer be never so bitter. If you grait the
either peach or plum or any arta Whit upon the willum or any stone stock the truit
which connes of them will be stones,", of them will be without
Carious leters come to the fine mental Farin from peresons with Exiperi-
of queer notions on this sutite
 his audiorship, Prof. Macoun ruxninted
are unen stock and scion
anited thy grafting. they
 and vessels of the scione The not fores
physivtogically with the fibros unite
 of Control or the one varieties. The Board
nitant Station Fruit Experi-
nent ments at ations has commenced experi-
something something can be done to ose whether
besetting trouble ein that district besetting trouble in that district of root-
killing of peach trees, by budding peaches killing of peach trees, by budding peaches
on plum roots. As this identical practae was recommended years ago in
fand, Prof. Macoun was rat
 us long on plum stoachs, would not
theless. it lasted long enoughe
trontanto crove proftable crops of fong enough to to bea
prising what diverse potten sur Kood unions. Juneeverry, for ins insta
as been successfully

 ing the tomato horbaceous plants,
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(i)

When Writing Please Mention this Paper.


[^0]:    Pure Scotch
     New York State Fair, at Syracuse, for 1907,
    assisted by Imp. Scottish Pride. If you want a choice young bull do not fail to ask
    f. G. PETTTIT \& 8ONS, Freeman P. O., Ont., Burlington Jct. Sta.

