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WINNIPEG, MAN. MARCH 1, 1905. LONDON, ONT

Editorial.

## Seed Distribution by Experimental Farms

hanced with benefit is 'seed distribution,' which is done to Westerners on a ridiculously small scale. The farmers who will, or can, afford to bother with a three-pound sample are few in this country of rapid growth and short seasons. Not
only so, but the work entailed on the farms by such microscopic distributions is far too expensive from either the standpoint of initial outlay to the
taxpayer or results. If it is desirable to distaxpayer or results. If it is desirable to disystem, and send out the seed in larger quantities, at least enough to seed an acre? It would be better if seed sufficient to sow five acres were furnished, and a fee charged, which might be re
funded on the reporting of the results of the tests: unded on the reporting of the results of the tests, free to the agricultural societies. who would be responsible, and sce that such were not wasted." The above states briefly our view with regard to the distribution of seed in the West by th Dominion Experimental Farms. Herewith the goes more into detail regarding the scheme at present in voguc.
One serious disadvantage of the small-lot dis tributions is that there is a tendency to mixing of varieties, which, in wheat-growing, has proved
of great damage, resulting in the lowering of the grade in many cases, in voluntece crops, irregula ripening, the introduction of softer-strawed
wheats, which succumb to the rust fungus quite wheats, whil socorre In the Brandon report for 1904, we find 161 three-pound samples of grain were sent out in
1903 , and in the previous year, 401 ; while from Indian Head 1,158 three-pound samples of grain samples, but the reports do not state the results, in the way of reports by experimenters, from such distribution. It is fair, however, to assume that such are in the same proportions as from the distates that 74 reported of the 216 supplied with tree seeds, and only 13 per cent. reported in 1903 on the trees supplied them in 1901. The scarcity cases, been far too busy, or did not consider it
worth the trouble, to complete the experiment whereas, we understand, in cases where the large quantity, five bushels, has been sent out, the responses and reports have been most encouraging. sample will give enough to sow a few acres, it wheat, and put on good land, four acres, and will yield, under arerage conditions, a setting which the threo-pound and bushel, awkward to thresh, even with the flail pure; or, as it happened with one farmer we know the sample taken from the machine to the granary on the last load was thrown to the pigs, the of the sample. It might also be well to mention here that the Macdonald seed-grain competition called for one acre as the minimum plot, thus demonstrating that he believed, as we do, tha an such work of education and improvemen

with. Such only serves to show the correctness
of our contention for larger samples of grain, and that the Director hardly appreciates the relative importance of wheat and potatocs to the prairie destined for the table, is of sufficient importance to warrant the sending out of a three-pound sample, surely THE STAPLE CEREAL CROP OF THE COUNTRY, WHEAT, MERITS A LARGER AMPLE FOR DISTRIBUTION. Again, the work necessary to the planting and harvesting of the potato samples is infinitesimal compared with that of a three-pound sample of grain. Not only
so, but the potato-sample owner is likely to get results in one season one hundred times greater than and with onc-tenth of the trouble that falls to his fellow experimenter with the threc-pound ample of grain.
We find that this seed-grain distribution has been going on for years, mention being made in he Experimental Form reports over ten years the Experimental farm reports over ten years
ago. WHERE ARE THE RESULTS? TURE SEED, EVEN OF RED FIFE, IS VERY HARD TO GET AT THE PRESENT TIME. esota Station once asked the Director for one hundred bushels of Preston wheat, some five or six years after it had been introduced by the Dominion Experimental farms, and was informed that such a quantity could not be had. While mentioning the Minnesota Station, we might refer oo their method (described in the columns of the Farm Department) of distributing a new varicty own idea, namely, the inculcation of the doctrine fimproved seed amongst the farmers, and not the turning out of a her menters. The seasons are far too short, labor is rant the present plan. We think the management of the farms might well consider these matters We must also in Conada arese matters. development of any "/ free-seed sraft ", which in the United States, has grown to be a colossal scandal amounting to as much as $\$ 200,000$ a year, distributed by senators and congressmen among their pap-loving political friends. The Minnesota plan appears to be designed to promote
individual effort and enterprise, which is the proper principle underlying the proposed seed-

## A National Exhibition at the Coast.

$\qquad$ rant larging the Now wostminstor B C annual hibition. The date of holding the great national Vent has been set for September 27th to October th. The assurance that Government assistance ancentive given to augment the prize hist shound be an he eyent The possibilities of British Columbin he event. The possibilia as a market for pure-bred stock are immense, and Pacific Coast will afford on exposition at th venient opportunities that could be desired by stockmen to develop trade with the breeders of advantageous rates that it is expected will he in force will be utilized by Canadians who have long cherished a desire to visit the mountains and valsweeping prairies of Manitoba and the Territorios and to learn something
minster is fortunate in securing the national as
The Grain Growers and Their Work rowers convention at Brandon was the repre growers convention at Brandon was the repre
sentative character it possessed. There were sentative character it possessed. There were
there, the calm and judicial fellows whose travels among their fellow men have made them broader in their views and less ready to jump at conclusions or impute base motives to the other fellow Included in the assembly were a few who, fortified at home by enthusiasm, when confronted with resolution in print, lost that fortitude and prayed for peace. There also was the individual smart ing over pin pricks administered by a stupid or much-worried station agent, the loss of a grad or an absent car door, who came to air hif grievances, fancied or real, and thus gain relie to his feelings. Others were there for informa ion from such authorities as inspector Horn raffic Manage Sand, Seed Mnspector Murray
 mon good. The business was done as expeditiously as could be expected by such a gathering and with e machinery possessen, no valid reason why the local organizations could not submit their resolutions to the executive or a committee ap pointed for the purpose, a few weeks before the convention, so that when the delegates assemble the resolutions, in print, could be put into thei hands, with the name of the local lodge to speak to the resolutions attached, speakers being limite five minutes. A copy of the resolutions ap proved might be sent to each local lodge a few days before the convention, and the local organ ization could discuss such and sefect their mai speaker, if their association is appointed to de bate any particarar resolution. He exccutive and secretary might well advise each local organ ization in what respect the resolutions sent in by such were unworkable, or already disposed of, if lot of unnocoscary wasto of time at the save a tion and the avoilawe of a too prolonged meeting We might also suggest, both to the Territoria Grain-rrowers and the Manitoba Grain-growers, that they consult with their hosts re future ban quets. Such, in too many cases, call for feats of gastronomic or auditory endurance, and we would commend the system followed by the Canadian Club, viz., shorter table sessions, fewer loasts, and less hot-air. Thrce hours is long enough to sit, eat and listen, and the graingrowers should deprecate after midnight sessions, risint shouk hearde the modern bustress view of More firmeses can afforl to be shown by hairman, if the system we surgest above by howed and we have coulfore enuw is bron cunce of the farmore that parliamentery mul inges will be strictly observed and adhered to. In the matter of resolutions, such as agains the lumbermen wo submit it would help the farmars cause to not only affirm the position of the ar ention, fut suggest the advisability of look methods of the states and the manufacturing arith a view to showing that the demand for help , he Federal Government is the seres practice of ancient methods in place The presence of Mr. Horn, Chicf Inspector added to the interest, and his straightforward pestions did much to disabuse the representative
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sent back to be fixed, it may be an indefinite, ar ber of times, until the grade is made. Such, w itism, and we see no reason why the inspection a machinery should be enterprise. re order point and sample marknt has cansect disquiet in some breasts, ats in it they see the
coming of the mixing elevator and the dogranta tion of the reputation of our whewt.
A few utterances of the Chinf Lispector ar
 be graded is being overdone-such of gramples the cars are likely to result as railroading progresses, was the opinion of Mr. Shaw, (. N. R, and is,
we consider, a businesslike move, and omly to be
expected, and it savors of interierence and be
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men.
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get for their next convention speakers from
ing systems, such as the Rockwell system, employed in those States. The debate on the coal resolution disclosed a favoring of corporation by consumer in the matter of freight rates.
The educational sessions of the convention were well attended and appreciated by the delegates and there is abundant opportunity to carry th ducational gospe in suad as and rading grain, treatig inceas and smut, and in local organirations, it being evident that many of ocal organizations, it being evident that many o he rules of the walket and the trade and lecral machinery available for use by the farmers. The convention adjourned in a happy mood the organization is thriving, and will agai

## Live-stock Association for the Eastern Territories.

Assiniboia and Saskatchewan renders imperative he speedy formation of a live-stock association o look after the interests of breeders of purered stock in the 'Jerritories mentioned. The Government should be relieved of a large part of tock shows, and if a vigorous association is ormed, with an energetic secretary and director ate - the work would become more interesting to and participated in by a larger number of hreeders... An opportune time to form such an association would be at the time of the fat-stock show at Regina, April oth, when cheap railroad
rates will be in force, we expect, and the attractions of lectures, demonstrations, etc., will draw solely because we believe Calgary is a distance to get a large attendance of the men quite central, with railroad connections north south, cast and west, and it would not be hard for men on the Soo line, also, to get there. To
the stockmen of the Territorics named, we say, think it over, and come to Regina at the dates mentioned prepared to do your part in the building up of the agriculture of the country, an agri-

Never Write a Letter Without Signing
$\qquad$ nearing an end, and the spring season about to our office would be sufficient proof. For the past monirioss we have practically been deluged with (Whe have signed their names to their letters monuiry we give prompt attention, but there are some without P. O. address. These we canno answer, but if those who have omitted to sign fiving the necessary signature, we shall be pleased to answer their questions. The name and

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label, ON YOUR PAPER THE DATE TC WHICH YOUR SUBSCRIPTION IS PAID. IF MACE We woUT IT IS NOT PAID IN AD AT ONCE, AS WE ARE PUBLISHING TOQ COSTLY AND TOO ARE PUBLISHING TOO PEiLMIT OF SUBSCRIPTIONS REMAINING IN

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## Forses.

## Hackney Action

havine structural development of the Hackne less important property belonging to the breed must now be referred to, as a trotter, howeve speedy he may be, is certain to receive but ver his action is defective. Any horse in fow-ring if more than half his value if he fails to "" move, and there is just as great a difference in th action of animals as there is variety in the gait of men. The Hackney in one respect stands alone movement short, for he rarely gallops, and relies entirely upon the trot and walk as methods of locomotion. The former of these gaits is so entirely characteristic of the breed, that one can
readily believe the truth of the statement many a Hackney can trot faster than he can gallop, but, be this as it may, it must clearly be understood that no pacing-by which expression the moving of both legs on the same side of the missible in the case of a Hackney whose trot is a trot pure and simple, and unassociated with any eccentric exaggeration whatsoever. In fact, ney as he pounds four of a true-actioned Hackears of an enthusiast, and no breeder of the horse will ever, it is certain, be prevailed upon to try to do without it.
Hackney action, however, like everything else spect, as in all others, judges have been known to differ very materially in their views, though aone of any position have ever been known to give a prize to a palpably shoulder-tied horse, from the same. As in the case of every other breed, the shoulders, knees and pasterns are all called upon to contribute to the front action, but in no varicty do the shoulders exercise such imthe importance that has been bestowed and hence scription of his points given to the length of their bone, which ensures a good and elastic serratus magnus muscle. If a horse does not result being that when he bends his knees, as he should do, it becomes a case of all action and no go, which is absolutely useless for every practical
purpose, for if a troter purpose, for if a trotter does not get away in lost. Consequently plenty of freedom and liberty about his shoulders is to be regarded as being a sin qua non in the selection of a Hackney, not onl on the grounds of the additional grace which such because, assuming that his pasterns are also good, he is far less likely to knock his feet pieces against the ground when fairly let go, than he would be if he only lifts his knees up and Smashes them down again in an almost perpen
dicular position. A good knee action is, of course, essential to
the success of any horse, and the higher they ar raised-assuming always that they are straight peculiar poise which many of effict that mose the admired. Eeneral the action of the horse will be only obtained at the expense of fred usually shoulder, and few things are more irritating to ing hit at a show than a good-looking horse lift putting knees nearly to his muzzle, and then place from which he raised them. the identica Reparding the use that a horse makes of his a short when he trots, it may be explained that naturally upright joint promotes concussion, and, one, is not being so flexible as a long springy straightened when the horse is trotting. The feet in the case of the animal which has good pasterns down smoothly and levelly, without up and put dishing or throwing from sithout any of trat
simply spoils the action which mover. The pastern joints are, therefore, it fine in seen, valuable co-operators with the shoulders in providing the Hackney with the desired front will be found to assist in brineing the animal tributes so largely to gentleness which conThe stifles and hocks, and, of course, the pasterns, to a small extent, are the joints which bearing hy far the most important share of the movement when the animal is on the trot. else no pace will be secured, but the chief merit he moves his hocks. When these are firle which he moves his hocks. When these are first well
superfuous lumber, and his gaskins powerful, his tion; that is the normal presentation when the propelling power will then be tremendous. No horse, Hackney or otherwise, can ever get over the ground at a reasonable pace if he leaves his
back legs behind him, added to which, it deprives the action of a Hackney of the regularity which is its greatest charm, if all the four limbs do not
move in unison. Many good Hackneys possess move in unison. Many good Hackneys possess hocks, which is unsightly, although the act is frequently accompanied by undoubted speed. It has been stated that a barrow might almost have been wheeled between the hocks of the fut, then, it must be remembered that the great horse in question was not a trotter, neither does the maker of the observation appear to have remarked that his action was evelopment of a propensity to go too wide behind, although an eycsore, need not necessarily prove that a Hackney is unsound, and, moreover, it is probably in many instances the result orse, by which he is enschooling a young horse, by which he is old enough to take any liberties with his action. Horses that turn in their hind feet ought neve to be passed, whilst in cases when the to be more or less cow-hocked, which, likewise, is a very serious fault in an animal who should stand square and move truly ab ackneys. having been discussed, a few observations may now be directed to the scarcely less important walk. which is so priceless a blessing when added o the other virtues a good sadale horse. walk, as the possessor of it steps out all round, throwing his front legs well before him, and his back ones right under his body in a style that makes his stride enormous. Many of the leading means good walkers, and nore's the pity, as if means good walkers, and nores the pity, as to their stock it would add most materially to their worth as sire
in the market

## Watch the Mare at Foaling Time.

$\qquad$ watch a mare closely when the time for parturition is approaching. Some breeders claim that mare, and that in ninety per cent. of cases no ex traneous interference is necess primipara (a female bringing forth her first young), the presence of a man during or inmediately preceding parturition has a tendency to increase excitement, while i others the presence of the groom who has attend
ed to her, or the person who has habitually driven her, has a salutary effect. A young female under these conditions is experiencing sen sations and pains with which she is totally un
familiar, and if she be highly lored and of familiar, and nervous temperament, she will probably seek nervous temperament, she
solitude, and if she be confined in a box stall, or a paddock, the presence of an attendant wil probably increase excitement. In such cases, the attendant should keep out of her sight as much as possible, but, at the same time, be able to
observe how things are going, and, if necessary render assistance, or send promptly for an ob stetrist. On the other hand, there are cases in
which the mare becomes more excited when her master is out of sight. The presence of a man master is out of sight. The presence
whom she knows well, and who has been kind to her, appears to give her confidence, and in such
cases he certainly should remain. To the aver cases he certainly should remain. To the aver-
age mare, the presence or absence of man during age mare, the presence or absence of man during
this very important act has practically no effect so far as her actions are concerned. She is so
interested in her own affairs that she treats man with indifference, and in a large majority of
cases she will seek solitude if possible. We cases she will seek solitude in mare should
think that in all cases the mast in marturition is eminently a physiological act, but it differs from other physiological acts in the fact
that in the most favorable cases it is not performed without more or less pain and distress the mare, and there are so many abnormal conditions liable to occur which may endanger th safety or the life of either dam or offspring, or
both, many of which can be remedied or removed both, many of which can be remedied or removed
by a little prompt and skillful interference, that by a little prompt and skillful interference, that
we consider it wise for the owner or his employe
to be in a position to render such assistance to be in a position to render such assistance
when necessary. The duty of watching mares
ahout to produce should be entrusted only to a person who is strictly reliable. He should have a
reasonable knowledge of the manner in which normal parturition takes place, hoth as regards
time and manner, as too hasty or precipitate interference is sometimes as disastrous as too
tardy. He should have a comprehensive knowledpe of the anatomy of the cenerative organs of hy manipulation, the normal presentation of the $100 t u s$ is being delivered fore feet irst, with nose
between or upon the knees, and the abnormal pres entation when the hind feet of the foctus are being delivered first. Knowledge of the proper time to interfere or render assistance, and the
ability to detect by manipulation whether the presentation be normal or abnormal, and to rectify the latter when present, is the first requisite of the veterinary obstetrist. In tho majority of cases where the presentation is nor interference, but there are cases in which the volume of the footus is large in comparison to the size of the genital passage of the dam, or causes, comparatively weak. In such cases, even though the presentation be normal, it is wise to exert steady, but sufficiently forcible, traction on the foctus in order to complete parturition in a reasonable time, in order to prevent disaster and agony to the dam. At the same time, it must be understood that in no case should traction be applied, untess the presentation be normal, as ex and the genital passages very roomy can delivery in case of abnormal presentation take place with out serious, and often fatal, results to either dam or footus, and in some cases to both. Hence the
necessity of the person who interferes heing able to discriminate as regards presentation. In order that parturition may take place, the expulsion force must be in excess of the resistance. Abnormal resistance may be due to the volume of the foetus, to its presentation, or to disease, or
it may be due to some abnormal condition of the dam. One of the most common maternal causes is a non-dilation of the passage through the neck
of the womb (called the os uteri). In some of the womb (called the os uteri). In some may be present, and somewhat severe and promay be for hours, and no apparent progress be made. In such cases a manual examination will membranes are usually not ruptured and the safety of the fortus is not endangered, and unless the pains are very severe, so as to endanger the life of the dam from excessive muscular exertion, and possible rupture of a blood vessel, it is well to
wait a few hours longer and allow nature an opwait a few hours longer and allow nature an op-
portunity of effecting the necessary dilation. If instruments have to be used, none but a competent obstetrist should operate. As stated, the
more skill the person who is watching the mare more skill the person who is watching the mare by someone, and if abnormal conditions which are not understood or cannot be rectified by him should present themselves, he can, at least, go many conditions which can be rectified by the ordinary stockman who has no special knowledge of obstetrics, which, if not rectified, will prove disastrous. We will treat of these in a future

## Purchasing Farm Horses.

$\qquad$ ng the country whem brought their farms to such a state that good horse leams may now be purchased to take the of the the purchase hoses is a subject for much mental cumination. Often the impression gains ground that in the larger cities and in the older-settled districts horses are plentiful, and only await buyers, and that the horses neighbors may have for sale are inferior or 00 high priced. Of course to make a good purchase idea of what constitutes a valuable or serviceable horse but one of the greatest mistakes a man can make just up a little moncy, is to invest practically his all high-priced horses. Valuable horses, like other things two at in time, so that by experience one comes to know the treatment that best suits stock that some
other man has bred, reared and fed; nor need one imagine that only by going long distances are good horses to be had. The available supply in the hom district should first in investigatea, might on to some well-known dealer who gets his supply from the ranches, or the East, or to reputable breeders. Th precaution to invest a fair amount in og big, drafty ity, for there are few investments one can make that insure so much satisfaction and return such handsome partly-crip as tho draft brood mare. Unsound and considerable slavery, and the better class of geldings a certain rolisince, but the brood mare often take the place of the former, while at the same time she is producing fo
In the purchase of no other class of stock or othe aying of horscs. Peoploch trepidation as about the wind and hard keepers can be doped for a few weeks to fraid for sate, and the prospective buyer is always the wisdom of buyng from someone of known integrity, or from neighbors whose horses are known. The dange deception can be very much reduced if the intendin bayer places the proper estimate upon high condiah to test his wind and does not fall into the error of at taching too much importanco to certain charactoristics such as a strong neck to the exclusion of a careful ex re the or feet, joints, back and shoulders. Thes should not be lost sight of in the admiration of a body


Sample of Clydesdale Stallions in Stable

Our Scottish Letter

| The Scottish Stallion Show of 1905 was noe of the very hest of the long series. It was held on. Wednesday, February 1st, in the new show grounds at Scotstown, (Alasgow, and in spite of wintry weather was well attended. The display of horses was exceptionally good, and two results stood prominent. These were the dual victory of Mr. Matthew Marshall, Stranraer, who won both the 50 gs . Cawdor Challenge Cup and the 100-gs. Brydon Challenge Shield, with two sons of Hiawatha 10067 , and the wonderful success of the stock got by this horse, a third of his sons being winner of the Glasgow district premium of $\mathfrak{L 8 0}$. This is a very unique record, and there can be no doubt of the supremacy of Hiawatha stock at this show for several years past. This is more interesting on account of the fact that he |
| :---: |
|  |  | lock, Paper Mill, Langside, and had a remarkable better record, and it is doubtful whether ancon Cup three times is good. He woll the Cawdot champion at the H. A. S. Show at Edinburgh in 1899. He was got by Prince Robert 7135, an Mr. Hunter, Garthland Mains, Stranrae usual lines, two benches of jus conducted on th usuat lines, two benches of judges making selec

tions in classes to some extent similarly consti tuted, with the result that, in respect of two horses in one class, the respective benches differed the public with a surprise, but rather a difference The public with a surprise, but rather a difference
between the bench as to the points mainly to be
emphasized emphasized. One bench favored action, while the foot, rather than action. The winners of the Gasgow district premiums were Mr . Walter S .
Park's fine horse, Royal Chattan 11489, and Mr. John Pollock's threc-year-old Carbrook (12080) The former is a son of Clan Chattan 10527, ormer premium horse, and the latter is a son
Hiawatha. These horses were in the open classes, the judges there having fourth horses to select from which were not entered f the Glasgow district premiuns. The winner it the aged class was Mr. Matthew Marshall's Mar cllus (11110), a wonderfully level, well-balanced Cawdor Cup winner in 1903, and the H. \& A. champion horse in 1901. The 100-gs. Brycto Chatenge Shicld, which can only be awarded to a
horse which passes a
stands at and horse which passes a V.s. examination, and
stands at least 17 h.-h., with proportionate scalc.
was woul of his time. Ha. Was followed in the class hy
two sons of Haron's fritle 9122 . Mr. Willimi two sons of Maron's Pritle 9122 , Mr. Willian
Dunlop's Maron O' Buchlveip 11263 , which stont econd, and Mr. George Aiston's IRevelanter 118-1 the Cawdor cup wimner of last year, which stoo
third. These are horses of beautiful guality, wit first-rate feet and limbs. They show fully. more atter move with greater of Hiawatha, but th horse was Mr. W. S. Iark's Royal Chattan, that
which there was no fruer Clyydestate shown. II
is first-class action. Followine him horse, and has thick Clydesdale, British I.ader 12067 , one oif Malcolm ('urrie. Kirkintilloen, and is ounce by Mr horse fore Canada. Wow the second time in she
cession, he was awarded the preminnm for the hon
 inge, liaith, Bothwell. This is an inncommont
good horse, with tho best of foet and legs. good action Roval Times Ie3t2, a hige ant Whenal heresearatold dass was led hy that phat
again scored. Mr. William Clark, Nethertee, wa
first with I)umstleet 12557 , A hist with Dunnydec
horse, with good act
James Kilpt James Kilpatrick was second with a thick, goond moving colt by Balmedie Queen's Guard.
Eighty horses service in 1905, and of these thirty-six are hy Messrs. A. \& W. Montgomery, Kirkcudbright Only five of these eighty were shown at Glasgow lions were senty-five of the best Clydesdale stal heen wresent, what an exhibition we Had the had! But horse-breeding societies are increas ingly in favor of the horses being put on the stand in hard condition, without being overfed or show purposes. This is sound policy, bu

## Harness, Hunter and Saddle Horse

## Society.

 At the annual meeting in Toronto, on January 30th Treasurer's report showed a halance on hand of $\$ 150$. the Industrial Exhibition was passed. $\$ 10$ forriage pair athe Officers for the year were elected, a President, W. Harland Smith ; Prected, as follows: Hon dent, Dr. W. A. Young : Secretary, II. J. Pecticesident, Dr. W. A. Young: Secretary, H. J. P. Good;
Ireasurer, Henry Wade. Directors: T. T. Merry, (ico. H. Gooderham, H. C. Tomlin, Noel Marshall, R. I. Fleming, Ald. S. McBride, Dr. G. A. Peters, Majo: Harbottle, T. A. Crowe, and H. M. Robinson. Representatives on Canadian Horse-hreeders' Association, J.
J. Dixon and Dr. W. A. Young: to Camadian Nationa Exhibition, W. Harland Smith amd Noel Marshall; dele-


Sand Boy

Fitting up Horses

Stock.
The Grade Durham as a Dairy Cow. ar, on account of the increasing demand for the roducts of creameries and cheese factories. It, therefre, behooves fa:mers, and those interested in this
great industry, to try to find out the most profitable
the agricultural papers on this arcies are written The majority of dairymen consider important subject. attle (such as the Jerseys and Ayrshires) the of dairy cattle; the Durham and grade Durham are ause farmers and breeders have not looked on this articular breed otherwise.
th a farmer in Ontario was personally acquainter ith a farmer ill Ontario who was struggling to get
long in the world (as many more aro) man who only had ordinary grade are). He was it lairy cows, but he was a live, wide-awake fellow, who saw farther ahead than his neighbors. To improve his herd, he purchased a pure-bred Durham bull of good
stoak, and startod from that time on tol stoak, and started from that time on to grade and all common cows. This man sold his farm and effects ome few years ago, and it was the unanimous opinion the finest herde at that sale, that those cattle re the finest herd of grade Durham cattle they ever can do by following his example ; therefore, by citing this incident, this fact is shown, that while by built a rd of excellent Durhan cattle, he offected a doubl
 grain, green feed and
roots for winter use
that this thaternis means Inaking
"nnene to a
ening in this
$\qquad$
then when the factories begin operations the milk sup ply is gradually lessened for a time, then it is finally shut hay is fed ; afterwards, when the grass is sumflicent ly nutritious, they are turned into a pasture field kept
ior trat purpose, then the following winter they get for that purpose, then the following winter they be
excellent care. they are four and five years old? Very few, as it would not pay. The majority of steers are factene that age there is the most money in them. The prin ipal point which should come before the mind of the
ceader is this: What breed of cattle is wanted on the farm to get what is known as the dual-purpose cow

## forhams.

 Durhams. Our correspondent is correct in his con-ention for the breed, but selection must be rigidly car (ention for the breed, but selection must be rigidly car-
ried out. In Great Britain many dairy herds are of pure-bred Shorthorns or their grades, and such herd milking provensities, and the extreme craze for

A Beef-buyer's Testimony re the Mexican.

Dear Sir,-Notwithstanding the fact that have a larger number of cattle in Alberta tha year, and notwithstanding the large sales of purebred bulls, the percentage of cattle fit or expor
is decreasing. This is principally due to many is decreasing. owners disposing of their breeding stock and pure-bred bulls, and importing eastern stocker cattle to fatten on the range. As thes stockers come from districts in Manitoba and
Ontario which depend on the dairy interests Ontario which the breed is not the best for the production of a finished beef steer. When it is considered that thousands of these easter dogies are turned out on the average quality of our beef steer is not so high as when cattle men maintained the standard of their herd by the use of well-bred cows and first-g ing bulls.
well as the eastern "' dopies," excent that he may perhaps be considered a better "rustler" on the range, but on an average he does not produce as winter feeding (for spring beef).
The larger the number of eastern dairy-bred and Mexican cattle that are imported to this dit lit for export.
The problem which confronts the cattlemen
This district is to find a market for the butche stock, of which we now have a surplus. The best
solution is to improve the quality of the beel steer, so that a larger number will be fit for the old Country market. inferior quality of steer.
be raised by continuing produce as of the Alberta stockmen should be to ing along the right line by bringing not wo The best results will be of ing cattle and the best bulls that money can bus We are favored by nature "rith a beef-produch scientific feedin

A Packer's Hint to Increase Profits on Pork
packing establishments of Winnipeg, the write Was looking over some pens of hogs and was :he hows coming forward character over that of a few years ago, the farmer raising many such hogs did nimself and the pork-packing industry an injury by keeping hogs too long
Mans hous were shown us twelve or more month ord that were only up to the select weights, 18
Such weights should be obtaine three or four months earlier, for the reason tha farmer, and, as the packer states, tends to pro duce too much muscle and not enough intermingling Iat and lean. In applarently in good breefling
line-looking sows, applation
condition. It was a pity to see such sacrificed condition. It was a pity to see such sacrificed
being due probably to the low prices prevailing for hogs a short time ago. which disgusted thei owners and caused him 10 resolve 10 ,o out of short-sighted move, as prices have rison since The pendulum has swung, as it always docs. an
he is now without brood sons. Thin in-andonn

Incut lirught forward to show that graude cutte frown
xurnive bulls are bringing any more monny on the ore

## 

Thinks We are the Farmer's Advocate in Every Sense of the Word.
will not improve his cattle, nor will he buy puretrey matter the most earruest consideration. J. E. of the fact that it is not merely because cattle ary
, but because they first are flesh-formers, after wards they characteristics may be trunsmitted. Unfortunately

## Raising Calves.

The easiest way to raise a good calf would be to follow the weathod practiced by breeders of pure-bred beef catlle-let the calf run with its
mother for a time, and afterwards let it have access to her morning and night. That save the trouble of milking, and ensures a fine, thrifty the calt tice to lose the butter-fat, and therefore wo mus do the best we can with skim milk. Breeder bringing calves up on skim milk, not alone because like other people they preier not to lose the but ter, but because they believe, no doubt with goo
reason, that if a call is allowed to get very fat its value as a dairy ant least-some say for three
For the first day at lon lo days-it is better ior nothre have her way for a
together. Let kind nature hat little while, the cat awful peril-will more likely be averted. Feed new milk only for one or two weoks, and when the change to skim milk is made ing should be done at regular intervals, three times a day and two quarts and no more each lime. At the end of three weeks the calf may the ante a day only, but horease six weeks old, when the quantity may be gradually increased, until at the age of four months it is getting ten quarts daily in two feeds. The most common mistake made in feeding skim mik
calves is in giving too much, and giving the milk cold. The feeling seems to be that, as the poor creatures have been defrauded of the cream, the lack should be made up by an extra quantity of What is left. Indigestion and diarrhcoa follow watched, and if any sign of scours appears, lessen at once the amount of milk given. Great care should be taken to have milk at proper tempera
ture. Some recommend the use of a ture. some recommena hered to oxactly 98 de gralmost from the start it is well that a cal should have a chance to chew at some nice hay This ought to be fed in a small rack to hinde its being betouled, and at ince given only
handfuls the amount being incrensed according to the needs. But something more should be given, and here is where difirence of opinion
comms in. Some fecu oil cake boiled and put in milk: others ground flaxseed, treated similarly some give oatmeal porridge, and others grounc are obtained by all; but on the whole, we think nent the nilk ration is wholc oats. At the ag two weeks or over, if a little handful is pu in the calf's mouth after it has had its milk, it will begin to chew, and soon ind the box whery onlv what will be eaten up. them onto grass until the heat of summer is past While young and getting a sufficiency of milk they thrive hetter of from the Dlacuce of fices They ousht to be kept in roomy box-stalls pens, and not allowed to suffer from lack of bed ding. Calves treated in this way will be in fin condition to and pasturage, or on pasturage alone. They wil look like but distant relatives of the stunted wrak, pot-bellied creatures which disgrace to many farms, and which, by their wretched ex
pression, scem continually to be wondering why
you have achieved hy making the . ${ }^{\text {Farmer's Al }}$ ne, and you weekly the four editorials are reall解


Lonk Ram Lamb.
has oftener been crossed with the Heath sheep, and then the legs and faces are black or gray, or potted and more springy and elastic than the wool of the scotch Blackfaces. The L.onk is larger, thicker nade and better woolled than the latter, and was

## A Subject for the Convention



Champion Junior Lamb and Reserve Grand Cham-
Champion Junior Lamb and Reserve Grand Cham-
pion Southdown Ram. cll represented at the Royal Sho At World's Fair, st. Louis. Owned and exhibited hy
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$\qquad$

[^1]
## Fads in Breeding.

ciation, recently, held at the the University of of inso
nois, Hon. John Dryden, ex-Minister of Agriculnois, Hon. John Dryden, ex-Minister of Agriculin Breeding," and said: very orten represents some quality considered essential
emong breeders because it has become fastionable Why among breeders because it has become faskionable. Why
this is the case would be as difificult to answer as to on wearing a special kind of hendyear, which is not only unpleasant to behold, but is decidedly umcomfort-
able and dififcult to control. Th either case it is sufficient to know that it is in the fashion; no inguiry is Take, for instance, the present-day shape and turin of the horns of the popular Scotch Ayrshire cow. Thesed certainly not ornamental, but they are fashionable. In an ugly bull they may be useful for his own defense.
but not tha slightest aid to the owner's escape. $I$ amm but not tha slightest aid to the owner's escapp. 1 amm
told that when the horn is not naturally of correct form it is trained by the use of pulleys and weights. I am sure no one would be found to declare that it has
the slightest utility, Nor can it be said that it has any syecial beauty that one could desire it ; yet it must fad.sent because it is fashionable. I call that a Take, if you will, the extreme covering of the whote
face of the Shropshire ewe with wool. It is of no real servico ; it is difficult to shear, and of little value, back ; yet to-day it is practically invaluable. I i call that a " 'fad." ".
Then an imported animal is assumed to possess some charm not found in an animal equally as good, better in form, in breading, in color, or in constitution,
vet the imported animal will be sought anter solely yet the imported animal will be sought after solely
because of its birthplace. while the other is entirely neglected. I call thai a a "fad." "he ther among Shorthorns. It did much damage, because it was not red. No one can give a good reason for dis-
warding the one and clinging to the other : yet most carding the one and clinging to the other yet mos people insist even now in having a ared." and not a roan
or white. This also becomes a fad.
But I would not have it understod as my opinion that everything which may be said to be fashionable is
necessarily inferior. For instance, the existing demand for anything closely akin to the late Mr. Cruickshank's Shorthorns may not properly be spoken of as a fad
because it has been proved by actual experience that
these cattle have reall merit. They are everywhere held in high esteem, and aro in consequence fashionable, hence the demand for catlle of their breoding is not yet ai

- fad." But let us perer a little into the future, and in
venturo
 that they
famili es. degenerated into merely a ". fad." given me for my subject, it will be readily perceived how undesirable it is to allow ourselves to dirit beyond
a well-defined limit in following the lead of others, how ever excellent the course may have been in the begin-
ning. That limit has been reached when the reality
 long since extinct
In breeding domestic animals we must insist on reality in all which reach the distinction of being con-
sidered fashionable. The ultimate end of all true breed-
 he prize-ring, but to the butchers' block. What rosults.
vill the animal show when the cross-breeds appear in theso Chicago Stock-yards ass prime heifers or bullocks.?
Or what nbility do thy show ns producers of mikk in the ordinary farmer's stable? The name of the family will not be consid dred in either case. The length of
pedigree will not fill the pail, nor the name of a Duthio or a Marr give quality to the meat. At that stage wo
have come to real things, and mere names have no
$\qquad$
$\qquad$

[^2] hrough some personal exprorimence or some early improson. It may be milar pointe none of which is in wowno or other ance, yet standing niltogethe
the onlooker, and likely"d in the mind of the breater tar ns to boceonn
No animal eemsm absolutely perffect : there is nlways Shorthorns, Herefords. Pollod Angus nud others, them
To properly balance th

$\qquad$ The buyer who is seeking to become the last owner forchance, because he knows best the proper come bestvalue of the respective parts, and in his case all senti-ment, all fancy and all fashionable notions give wayThis man is not likely to be carried away by practical.of any kind. Ho is at the last stage, and is lookingfor value received as expressed in dollars and cents; sothat the color of the muzzle or the shape of the horndoes not count in his calculations.
whe are breeders learn a lessofrom his practical manner of dealing with the animal
produce the real and the valuable, rathor than follow
$\qquad$
loss?" Yet we must not be debarred from cultivating
some points which do not count with the butcher, pro

$$
\begin{aligned}
& \text { vided they are not put so forward in our esteem a } \\
& \text { on shat out that which is of much more value. } \\
& \text { instance, it adds much to the beauty of a horned an }
\end{aligned}
$$

$$
\begin{aligned}
& \text { instance, it adds much to the beauty of a horned ani } \\
& \text { mal when the horns are evenly turned and symmetrica }
\end{aligned}
$$

$$
\begin{aligned}
& \text { in form, and it does not injure the animal in any othe } \\
& \text { part, but in this we must not be willing to sacrific }
\end{aligned}
$$

$$
\begin{aligned}
& \text { part ; but in this we must not be willing to sacrifice } \\
& \text { the greater for the less. The butcher does not care } \\
& \text { whether the legs are straight and properly set, provided }
\end{aligned}
$$

$$
\begin{aligned}
& \text { whether the legs are straight and properly set, provided } \\
& \text { the carcass suits him, but to the breeder who is carry }
\end{aligned}
$$

$$
\begin{aligned}
& \text { the carcass suits him, but to the breeder who is carry } \\
& \text { ing forward his animals from one generation to another }
\end{aligned}
$$

$$
\begin{aligned}
& \text { ing forward his animals from one generation to another, } \\
& \text { it makes a very great difference whether the limbs be }
\end{aligned}
$$

$$
\begin{aligned}
& \text { lit makes a very great difference whether the limbs be be } \\
& \text { strong and straight and capable of such free locomotion }
\end{aligned}
$$

as may be necessary to prevent the continued healthNor would the butcher study very much the "chatits power to transmit tof future generations its own
him, and never thinks at all of a successor. The
breeder has an entirely different view. He values the
animal not merely for his individual price, but for his
power to transmit his useful qualities to future genera-
tions, and therefore an animal with every evidence in
hrepotency, will he well as in his breeding, of strong
prepotency, will be considered of iar greater value than
another with the equal number of pounds of meat of
fine quality, but no breed character. How
we fuax as the value of such an animal? It is plain
other. To a man with females of a proper quality, a
sire of great excellence and power to transmit it be
Champion of Fingland among Shorthorns, and his aston-
ishing prepotency, what would be his value if he could
be presented to a modern Shorthorn crowd? Certainly
way beyond the value of many a grand farm of con-
circumstanced as to be able to reproduce him by many
lundreds. The ordinary farmer looking on would say:
'. Surely.
"Surely this is a fad." Rut it is not; we have not
in such a case passed beyond the reality ; only the value
is not reached by calculating the probable number of
pounds of beef.
SIGNIFICANCE OFTEN MISTAKIEN.
farmers, that one of the sure signs of a first-class milk
ing cow was a dip in the back. This, he claimed, wa
infallible, and that breeders should aim to perpetuat
his frame structure. The man is now dead, and I pre
ame his theory died with him. A good cow may ha
a hollow back, but we know it is not essential, and
certrinly is not desirable : therefore, to advocate i
perpetuation in any breed is but to follow the phanto
of a " "fadl." But I have said enough to make clear my view
But
Doubtless there are innumerable fads which might be
mentioned, and which should be avoided ; it is not
necessary, to enumerate them here. When the thing
advocated is a mere name. or notion, or sentiment, and
nas no real a value, either from the breeder's standpoint
a that of the consumer, it may safely be discarded as
My closing words to the young men just beginning
not the imarinary Keep always before you the real and
mental, the future as well as the present, and heware
of following a mere fad. which

Pat Burns Hits the Nail on the Head re Mexicans.

Some Pertinent Advice to Range Men re the Hereford.
ceady demand for market for expor
If the cory fis all suitable for export purposes, the market local one, lower prices must prevail as the mark blace ofome overstocked with inferior beef taking the also discourages the raising of a better locally, and This must be disastrous to those engaged in the business and interested in improving the quality of th beef in Alberta, making a reputation for size and qual in the export markets of the world known as first-clas 1 would stramy wre fors and ing to Alberta and making it their home (Alberta is
$\qquad$
"ritton some pithy sayings under the title of "Here and from which we make the following excerpts : breeds at the old Exposition Building in Chicago. We face, and the Hopes, the Goslings, the Harveys and the Renicks were playing their parts. They were making istory, not pleasantly in many cases, but they were laying a sure foundation for bovine improvemont. So
far as commercial cattle improvement is concerned, Gilette was probably the superior of all others. It mat remains that he was able by his ability, energy and animal which , was a world-beater in its line. It is a die. They set the pace. Unfortunately no one catche their mantle, and much of their work no one catches business in a narrow groove. In Shorthorns it is is his or Witton blood is demanded Herefords, Ancient Briton you hear echoes of Ericas or of tuneful Blackbirds. The English pasturds, as we knew them in old days want of mellowness about them ; but they weve and on the markets it was surprising how ripe they were bad but their middles good. of view their end come, there as here and the lok the chate hat ment catcle. It is the breeders of the the Hereford of to-day is not bone and constitution
$\qquad$ that made the change necessary, and with aggressiv
men behind the movement, much has been accomplished rival breeds. It is doubtful if our Shorthorns in th good as they were twenty-five years ago. They may deen-Angus are holding their own animal. The Abey Hereford to show a great forward. It is left
$\qquad$ valleys of the Rockies. The Panhandle men left thei hulls-good, had and indifierent-into their of Herefor mottle-faced calves dottid a couple of years white o which had never been tested, and it is stranger an ideal ment. It was a sort of jump in the dark. The flop

Thid herbegrid weakness showy
Q84. The herd wastance with the $\mathrm{S}_{\text {wan }}$ herd
$\qquad$
$\qquad$
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$\qquad$
concerned with a herd that is ever under the eye of the master. Our observation during the past four or five in bone and size, while the big herds have made serious decline in this respect. nothing by halves. The turned the stream of Hereford blood into their herds, and have kept at it, with a few notable exceptions while it has improved the cattle generally, has at the same time developed many weak points. The Hereford stand much hard usage-but the female very quickly de teriorates in bone, in breadth, in mellowness, IT NEEDS SOME GENEROUS INFUSION OF ALLOX TO KEEP UP THE STANDARD AND TYPE OF A
PROFITABLE BU'TCHER'S BEAST. Give us two o three more decades, and the herds of the Panhandle, as
exemplified in the big pastures, will be pigmies whan lined up against the cattle of the North or those which have had an infusion of foreign blood, be it Shor

We make the reservation that the Heveford calf of
to-day, taken from his mother, transferred to the corn belt and dealt with generously, is a beau ideal feeding
animal. For example, look at the results Black, Teare, Brevoort, Tod, and others. The forcing process is so successful that we do not see the weak-
nesses that follow igto the older ages on the range, but even our best feeders think they are on the edge
light bone and small scale. It is the yuality that light bone and small scale. It is the quality that saves
the day, and if we could turn the whole product of the improved Texas herds out on Illinois feed-lots with the compluint. It is very easy to slide downhill, and
even for such a trade our Hereford breeders must exerWe are not running down the Hereford, or trying to attack thei: magnificent service to the range, but the whon the slightest sign of decline appears. The decling is here, and we must ofset it. You hear the remark do no good without merit. A race-horse without speed bone, with thin hides and a herd of cattle without scale and beef-making qualities, is a big toser. (It is a That we have lust ground in weight in the rante arge try is evident to everyone. True, we have gained qual-
ity, and there is little doubt that the latter has on set the former, and left a big balance on the proper this advance there has been a retrograde ; or, in ol in words, the concentration of Hereford blood has no been so beneficial as it might have been. Both cnds of
the herd have been neglected. The quality of the bulls has not been watched close enough. THERE HAS
BEEN TOO MUCH WORSHIPPING OF A WHME FACE. "Beauty is but skin deep," and while grouped
together or wandering amid luscious grass nothing is more attractive than a herd of cattle strongly infused
with Hereford blood, yet THE FINAL TEST IS THE SCALES at the slaughter-house.
On our Scottish farms the best beef cattle wo have
ever seen were blue-grays, a cross betwixt a Shorlhor bull and an Angus or Galloway mother. They" grow steers come from the Hereford on a the range the best tion. Fifteen years ago we had samples of this : their way to the Dakotas and Montana. What from level-backed, deep-flanked specimens they were! -perhaps something that could be built upon. Topped with Hereford quality and the rustling ablility of the breed you got your typical steers. As with the blue-gray,
THE FIRST CROSS WAS THE BLST, There are plenty of men who will not admit this, but practical And he is backed up by the men who daily deal in the goods.
For the past twenty years the Hereford has been
the keystone of the breaders' arch west of the viscouri (O) the range, in the pasture, he has had no missourt On the range, in the pasture, he has had no opposition.
His votaries have been glutted with success. As in a
Ciovernment it is not sllways well to have anesided party in power, iust so a healthy, vigorous opposition
would have been a God-send to the average rangeman. treat becf breeds to draw from, for at that time the country, was not much in evidence.
WHERE THE SHORTHORN FAILED. Naturally the ranchman in looking for good Whool
drew upon the Shorthorn, and with great success. Thim country was full of Shorthorns, but about 75 , when
the West was calling out for good blood, the Shorthorn
$\qquad$
$\qquad$
$\qquad$ cessful, but it was too expensive to keep up the supply
The wear and tear was too great.

Some breeders turned to the Aberdeen-Angus, but to
no avail, for the bulls of that breed were indolent, and
made no mark on tho herd. The result of these experiments led up to the Hereford making such a success.
He was red in color. That was his first advantage He had constitution, more then than now. He was a natural grazer, and he had a tough hide. He was
active, aggressive in the harem ; while the Aberdeenactive, aggressive in, the harem; while the Aberdeen-
Angus slept and the Shorthorn was worn out, the
Hereford was at work. Morning, noon and night we have seen him busy on the plains. Picking a mouthful of grass here and there, but his eye ever vigilant and
his angular body ever on the move. As a prolific calfgetter he has no equal, and in the Western cowman's THE bIG RANCH IS DOomed.
But there is a change coming. The range country
being curtailed every vear. The day is not far dis tant when there will be no open range. It will be all
pasture and semi-pasture. By the latter wo mean that pasture and semi-pasture. By the latter we mean that
cattle will be inclosed in pasture near a haystack in winter, and go to the open range in summer; but the
country will be so fenced that they canuot stray away, and will always be under control. The tendency among the pastures will be towards a smaller area every year, more than quantity.
$\qquad$ to get the calf from his mother and carry him along
never losing the gift gained from a mother's milk. It is not likely we will ever get to that stage, but we are
approaching it year by year, and there is little doubt approaching it year by year, and there is little doubt
that the feeder is growing more critical in his purchases.
With contraction of free pasture lands, with population increasing, cheap grass is passing away, and, as which the Hereford will meet greater competition. There las been too much concentration of Hereford blood.
With the gain in quality there has been a loss in quanfity. Under the pasture system, and more especially
the small pastures, the owner can to a great extent control his bulls. We want early maturity, but we also
need weight, and to get this we inust also have bone and scale. The Hereford breeder will tell you that he
has it, but the progressive range breeder thinks differ ently. In the stock-yards the loss in weight is ap$p$ arent. It is not necessary to specify individual ex-
amples. It is the general average that we must look at, and if the Hereford is to maintain his premier position in the West the selection of bulls must be more fresh blood, giving more scale without losing early maturity. If not, the Western man will look primarily of the Shorthorn, next to the Polled breeders, to find
what he wants.

## Is the Farmer's Paper


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Dominion Shorthorn Breeders' Association Executive Committee, 1904


Farm.

## Plan of Prize House.

The illustrations given upon this page are house-plan comptition. The illustrations are sufficient explanation of the arrangements of the ing gives the following additional information Our house was built in 1903, and cost $\$ 1,770$ not including our own work. We hauled stones, brick, lath, shingles, and lumber, also excavated the cellar. The dimensions of rem are
given on the plan. (it is 41 ft . long, 24 ft . across front and back, and 8 ft . of projection.) t is solid brick walls, well plastered and back foundation is 7 ft . in height, 3 ft. in ground and 4 ft. upwards, making a nice height for cellar: and leaving cellar windows clear above the ground outside. The kitchen can be made to
extend full width of house, if so desired. We have wood-lox built outside in woodshed, and by opening a door into kitchen it is handy to get the wood. You put the wood in from the out side, and it keeps the house so much cleaner We have, also, in our kitchen a funnel running way, shop in this whe hops never freeze up in cold weather, and we have no running outside with them; they can water is hented cellar through woodshed. The gallons, besides the range with pipes going int bathroom and over sink in kitchen, which is The eded for convenience
The closets in each room are much needed, as may be raisod be kept free from any dust which fitted with dumb-wnitor which saves mantry into cellar, especially in warm weather The cupboard is fitted with three large
drawers and shelves. grawers and shelves. We find the doon venient. It is fust as easy getting a mory dining-room as in kitchen.
hung on rollers, easily adjusted windows ar large windows, which are so awkward to manage otherwise. The fanlights above bedroom doors windows are hung on hinges, easy to open. There are also flues in chimney which can be opened for
ventilltion $\underset{\text { This }}{\text { ventilatio }}$
This house is heated with a furnace
all the roons being heated by registers, thoss
upstairs bring in the stairs in the floor
heated the room above the kitchen The flues in chimneys are fitted with soot-pans. There is also, in the outside chimney, of this chimney act in ventilating the fistues out night say here, we have a tap going out cistern into furnace-room, which is useful for many things. in cleaning out cistern, etc. We have a
swinging door, as you will see on plan. froml kitchen to dining-room, which I would not be
without.
ALBERT JOHNSTON.

Would Not Like to be Without It. We appreciate the "Farmer's Advocate" so the land of weeds, who are businesslike in thei
nuch for its useful and valualle information that dralines and who have the conturn



FRONTELEVATION iirst-prize House Plan.


How Minnesota Experiment Station Dis tributes Seed Grain.

to become growers of certififical seeds of field crop Men are chosen who have good land, and whi rotate their crops in a manner to give the best
possible conditions for sect-growing. Those who kepp live stock that they may grow a goodly pro dralings, and who have the confidence of their Arrangements are made with these farmers th Lrow seeds of varieties which the State Fexperi
mont Station has tested unt it it is assured that
they will succeed in the they will suceced in the contities to which the
are sent. It seemss wise to sende out comparative
Iy few varieties, and to to all the preliminary testing at University Farm and at the sub-station farns. The secd is to he sold in some quantity "sually in bushel or bag lots, that each sced-grow-
"F or farmer may grow them in fields, rather than
in small patches, and the station desires that

In the Larger Wheat Markets In Winnipeg and in certain cities in the Middl Western states, grain-dealing is one of the prin
cipal occupations of the business men. $\quad$ For thei
 porations that have built splendid structures in which to meet for the purpose of buying and sell.
inc and in connection with the market place in these buildings there is arranged the most per fect system of communication with local and outside points.
The grain exchange in Chicago is typical of
other institutions where business is conducted on other institutions whore business conducted o smaller scale. In a large room in this grain exchange are arranged in circular form a row o three steps leading up to a platrorm encircling a
space on the floor, to which three more steps lead space on the floor, to which three more steps lead
down. Within these circles men meet to do busi ness. In the space allotted for wheat-trading thiss circle, or pit as it is called, is about twenty five or thirty feet across, while those for corn other coarse grains and hay are much smaller. In
such a market, grain and other produce is bought and sold on two distinct bases-one, that actual trade, where there is an agreement, on the one hand, by an agent acting for an elevator com-
pany or private individual holding pany or private individual holding grain, to de
liver a given amount of the commodity in ques tion, and, on the other, by the purchaser to give satisfactory security and a statement of the party, usually a miller, either local or foreign upon whose order he is purchasing. The other
basis is speculative, and grows out of actual legitimate trade.
The routine of buying and selling wheat on th exchange is not by any means a dull or lackadal sical occupation. $\left.\begin{array}{l}\text { In the first place, admittanco } \\ \text { must be obtained } \\ \text { to }\end{array}\right)$ membership upon an exxMust be obtained to membership upon an ex ex
change, which may cost, in Chicago, from one to five thousand doliars, depending upon the demand for the privilege, or the exigencies in which any member may find himself. Annual fees are the Then the real strife of the business begins. Large sums are spent in advertising among the pro ducers, or by means that will reach the local
buyers, and also in trade buyers, and also in trade journals that circulate
aunong the millers in the different consuming alluong the milers in the difierent consuming
centers. Recently we. were informed, on quite re
fiallese authority, that a cortain firm of grain hrokers doing busnat a certain firm of grain
the neighborhood of a quarter of atest invested in
million dollars the neighborhood of a quarter of a million dollar:
annually in advertising. Then, iust as if shop had been openced, orders begin to come in for wheat from local millers, and from abroad for present and future delivery, and sellers consign
their wheat to the brokers to be sold from the their wheat to the brokers to be sold from the
cars at an order point or at a ternuinal elevator,
fither for ionded
"ither for inmediate or future delivery. It it is for
the purpose of executing these orders that brokers meet on common ground in the pit, and in the
process of this execution the wildest sconnes process of this execution the wildest scenes en-
sue
To the uninitiated, the operations in the sule . To the uninitiated, the operations in the
pit resemble, more than anything else, an excited crowd of auctioneers, all crying and selling axt the
same timee, but each is intint ame time, but each is intent in all that is going
oround him, and through the veritable Pandemonia which reign through the veritable
pect, naminely, to buy co cash wheat. May wheat, July wheat, or wheat avorable opportunity ather time, at the most In the respects above mentioned, our own ket in Winnipeg resembles those of the larger
cities of Chicago and Minneapolis but the difier in that in the roomn where but the latter
pits are



First Principles in the Education of the Farmer's Son.

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lot, is attributed to the fact that the soil cast their they were nurtured through so many generations was
very bountiful if much effort was put forth to till $\{$, but gave grudgingly of its favors if not sued for then
dilikgently tugs dillgently, thus producing an industrious people, and
industry is the keynote of success. Changed conditions have, however, consideramby handicapped condeytion,
farmer of to-day, especially in the older sections of the In the early history of the country, a young man of
good constitution and industrious habits, with but rouplere stock-in-trade than a yoke of oxen and a plow
with the goodwill of his neighbors, who needed his in turn, could own a comfortable home with all
necessary buildings in a few years. tal than his father did when he began life. or than he Would have needod had he started under the same con-
ditions as did his father. It is the conditions that have changed, not the men. There is one way, how-
ever, by which the boy can increase liis power, and
隹 have placed upon him, and that changed conditions have placed upon him, and that is by taking advantage
of the opportunities and facilities at hand to acquire
an education. Now, when I speak of an education, I an education. Now, when I speak of an education,
do not mean one that is worn
dor adornment like
button-hole bouquet-but an education for everyday one that may be relied on to lighten labor and ssve
time, for compotition has bocome so keen that, in order to succeed, timesaving brains are as necessary
as timesaving machinery. Then, it may be concoded hat an education, in order to be beneficial, must be
practical. We are inclined to be proud and boastlual because of our standing in matters of educa-
tion, and rightyly
so, too the the the tore to much cramming of information into the child's brain,
witheut considering whether or not the information is Irropery. digested and assimilatated. A man may have
gathered together in the schools and colleges of the Country enough Information to enable himm to procure th gain him a living ; but such is not an education in
the true sense of the word. After all, the little infol mation that is gained in the schools cuts but a small
figure compared with what is gained through the aftertuon of the education of our children is laid in the IUblic achool; and as no business, no matter how ex-
cellent the superstructure, can be called a good one except it rest on a solid foundation, it becomes vastly
Important that much attention be
 would do excellent work, are handicapped, on account
of the fallacious standard by which thoy are judgod ns leing successtul or otherwise. The gett ing of pupis.
through certain examinations is not the true stand It is not orly the amount of information a child
gets in a given time, but olso the use he has made of that information, that should be taken into account in
determining whether or not he is benefited and developed determining whether or not he is benefted and developed
thereby, just in the samee way as you would deternine
by the muscular develomin bot his muscular development of the athlete whether or
not his training was juudiciuns. The brain, like the
body is

$\qquad$
 must learn frst from his own surroundings, it would by
well to pay especial attention in the pultic school
 more important place in the school. The course of
study in the common school should embrace as full an

By all means give the young man who intends to
child should become familiar with the difimal life. The grains, trees and flowers o noxious should be dis tinguished from the useful, the evil from the good, the crude and undeveloped from the perfected and beautiful Animal life might be studied in the same way. Th why he knows. How many of us walk through life practically blind and deaf to our surroundings, although we were born with good eyes and ears? How many of us can distinguish the different calls of our native
birds, or know the faces birds, or know the faces of our flowering plants as they
present their beautiful colors to our unseeing eyes ? And yet how much of both profit and pleasure are losi to us on this account, and much of this loss is attributable to lack of early training. I have said proft and
pleasure are lost, but pleasure is profit, for without pleasure are lost, but pleasure is profit, for without
pleasure and happiness there can be no profit pleasure and happiness there can be no profit; for what
shall it profit a man if he should gain immeasurable riches, if he should become possessed of ""the golde touch,"" and gain not the power to enjoy his gains ?
It would be well, too, if a business or commercial It would be well, too, if a business or commercial
training was begun early with the child. Something raining was begun early with the child. Something
after the manner of teaching employed in commercia colleges, but, of course, simplified to suit the young thild, might be introduced into the public school ; there he boy could trade or do business with his neighbor,
using material at hand with which he is well accuainted dealing with the familiar instead of the fictitiourated this way the boy would get a practical knowledge business that would be part of himself, and could Business men are waking up to the inadequate trainng of the schools, and are placing their boys in posi-
tions where they will early learn business in the practical way ; that is, by doing it themselves. In proof of the foregoing, many boys of wealthy parents are to this way the boy, having an interest to protect, ever small, early learns business methods.


 cussing educational methods, we

## anence lighty. The child there, as well as at school,

 to detail, etc. The child's whole time whon, attentionployed, either in rest work (which should be appor tioned according to age and health), or in healthful should enter into both, work and play heartily, doing nothing indifferently; , he should be directed without
ageming to be directed. own are with platiy of eleaneading
are furnished him, he will not be drawn towards vicious. If possible, and it is nearly always possible. the boy should be given a personal interest in th
to give him to understand that you a boed so much of his brain as well as the help of his hands. The let him have a voice in the management of the busi-
ness ; and if he makes some mistakes that total up to a few dollars, better have him do so when under guid
How often have we seen boys left valuable properties by thrifty fathers, who have always attended entirely
to the business without consulting their sons, and how iten have we found the recipients almost helpless as ew on much hette able property, and had gained from experience a thorboy's education has been carried on alonge the if the suggestod, he will, by the time he has finished the pub-
lic school course, have become methodical, self-dependfrom industrious, observing, and well fitted to gather ournals and likely a close student, and from newspapers, but if the boy who chooses farming as a profession i pursue his studies in the high school or even in the university with advantage. There is, however, a danger profitably spent in acquiring a special training, and while it is not advisable neither is it profitable for a
man, no matter what the nature of his business may he, to give his whole time and attention to it to the
exclusion of all other interests; yet, when competition ime seen as at present, it is wise to spend as much life work passime in receiving a special training for the Thaining for a farm life is at an agricultural college. practical training and information which would require ears of close study and experiment to learn for himsimilar to his own; there he will form congenial friendsurrounded by others who are pursuing the same course Ry all means give the young man who intends to
make farming his profession as long a time as possible thools he may have attended.

Valuable Data on the Rust Question.
$\qquad$ the rust in wheat crops the last season, I am please readers. I had in a crop of be of benefit to you on summer-fallow, some on fall plowing, some on spring plowing, and the balance 156 acres on new breaking The first I sowed was 28 acres of summer-fallow, which was the first I cut; 18 acres was slightly rusted, but was spring and fall plowing, which was not rusted cut graded No. 1 northern. The next sown was 72 acres of summer-fallow, which was badly rusted, but was well
advanced in the ripening stage before I noticed the rust hdvanced in the ripening stage before I noticed the rust had struck it. I cut it as soon as I had done cutting
the earlier-sown fields, cutting with three binders and as I had never had any experience with rust in twenty hy the advice of others, and cut this summer-fallow but the most of it was of the straw was golden col but I was agreealily surprised when threshing was dosi and I had 1,400 bushels of fairly good wheat, which
when I sold it graded No. 2 northern. The 156 acree of new hand was the last sown and last cut, and was ly as good as the provious-mentioned summer-f equal only graded No. 4 northern, and yielded 13 bushels p That the early-sown grain, both on summer-fallow a thit fall and spring plowing stubble, escaped the rust, an iallow and new land was badly rusted, and was not good, being not so far advanced when the rust blight of escapiny frost, hail. grain has every advantage; that liable to happen for when horvect time arwives day that the grain remains standing means a day's ris teaching the farmer the lesson to take time by the for
lock and sow his seed in early seedtime, and not so many who either put in more than they can get in froperly in time, or waste the time in getting read previous seasuns of 1903-4-one of snow and the othe to embrace the golden opportunities presented to us the

## Dairying.

The Dairy Situation in Manitoba. subject in Manitoba, and even in the Territories flourishing propaganda of dairy instruction wa popular, nor a the lo to Farmers' Institutes. What has audience change? Not, certainly, lack of demand fo dairy products, as during the past year the out put has been barely sufficient to supply the loca not that there are fewer cattle, well up. It is hlame for the present want of interest in dain ing tee ascribed to the shortage of feed during the much of 1903-1904, although this doubtless had of the past season. The Province of Manitor ther trying superintendents were appointed, cheese and butter inspectors were kept travelling the Province vere sent throughout season, expert lecturers Farmers Institutes and agricultural fairs, advo able methods and illustrating, describing improved institute More than that, a dairy school was $t$ very great maintained for a number of years and, naturally, sprung up like mushreoms at utlook Province. Indeed, so promising was the endent of orre the that Superinnarket for the surplus product among the Coast One large creamery was of the Pacific Province sive plant for packing in onepour an expe port to the Orient, and for several vears ship ments were actually made to that market the present lifeloss at the decrease in output, and ince, will very naturally ask, what in the Prov the expense and effort done? How has the cound No doubt, there was unwise money invested? spent without justification, but there is money
many a settler was helped through pinching times simply because of being able to hang on and tide But, it may be asked, if dairying is such a good thing in hard times, why is it not a good
thing at all times? So it is, but for the last thing at all the people of this country have struck something better
The cause of the decay of the dairy industry can be summed up in one word, and that one word is also the cause of the "success of the whole country, and that word is wheat the failure of our wheat crops, everyone will vote for the good crops, even if we have to buy our butter from Ontario. With good crops, money certainly can
be made quicker and easier out of wheat than through the dairy, and in face of such conditions men and women will not tie themselves down to the milking stool.
The dairy enthusiast, if there be one left, need not despair. There are sections of this country
where wheat cannot be counted a saie and profitwhere wheat cannot be counted a sate and pront tions change. The profitable dairy cow is no
myth, and as sure as day follows the night she myth, and as sure as day follo
will again come to the rescue
The quarter-section farmer trying to emulate
the methods of the wheat king must learn his limitations. Light, thin, warm soils must'be re supplied with humus and fertilizing elements or
become barren. Owing to the increasing settle ment and rising land values, unproductive vacant lands must come under occupation. The improve ment of farm buildings, fencing, seeding down grass, and all other incidental changes of fark more possible and profitable the dairy industry. The Dairy Association may, we believe, take courage, and, at its annual meeting, to be keld in February, take up the discussion of offering essity, depend upon dairying. Right in this con nection there would seem to be an opportunity for doing good work in some localities with travelling dairy outfit. Giving special attention to impreasing the patrons' profits out of cream supincreasing to the creamerics or to the city trade wher these lines of work are followed

IXED FARMER

## Quiet Heifers

Every dairyman knows that it pays well to be
intimate terms with all his animals, young on intimate terms with all his animals, young
and old. "But," says one, " there is other work to do besides petting the calves." True, and yet it often pays to drop some of the other work and and convince developing animals. Groom then Manipulate the udder frequently, and go through velop the udder and familiarize the animal with the process, and soon she enjoys it, and expects you to thus handle her. How often do I hea
 can. If your heifer or cow kicks, you are to no business not the animal. In fact, 'Thou heifer's udder for a few days after calving is swollen and s nervous and excited. She ha dled her and fully gained her confidence previously she will now look upon you as a friend in need,", and if you approach her gently, speaking
to her kindly, first rubbing the udder, and then drawing the milk very gently, using plenty of time and patience, she winl fecl the great relief, and not only have full confidence in you, but transfer
to you her maternal affections, and ere to you her maternal affections, and ere long sh This is not preaching. Every animal in my stable was raised on the pail under any one, from the seven-teen-year-old to the eighteen-months-old that had and finish milking, and not a foot will be lifted It pays in more ways than one to be on intimate
and friendly terms with our animals.-[Farmer's and friend

## Alberni Creamery

## in the prosperity of Alberni, B. C., formed an creamery, which was completed and declared ready for operations by the farmers themselves. Was largely subscribed by The services of Mr. J. W. Stephenson have been secured as buttermaker, whose record as a suc- cessful operator for many sears in one of the Dominion creameries of the Northwest should the

 an ample quarantee th:lout ter will be turned ou district, and its establishment is causing th future, as it practically secures for them a good
market for their product. creamery butter being
now so greatly in demand all over the Province The want of such an industry has hindered vers whole valley is well adap age being exceptionally good. The climate is mild, and in many winters the
subsist outside without being fed.

British Butter and Cheese Imports porters and the dairying industry of the Dominiu, give the quantities and values of butter and cheess 'ron 190.4. as shown by the British Government Trade Report just issued

BUTTER

| ssia | 404,717 | 346,315 |
| :---: | :---: | :---: |
| Sweden | 206,791 | 5,170,118 |
| Denmark | 1,708,619 | 43,815,033 |
| Germany | 4,080 | 99,995 |
| Holland | 252,262 | 5,965,404 |
| France | 371,061 | 9,543,990 |
| United States of America | 68,754 | 1,433,642 |
| Austrelia | 474,813 | 10,856,399 |
| New Zealand | 294,982 | 6,786,348 |
| Canada | 268,607 | 5,814,805 |
| Other countries | 186,319 | 4,438,137 |
| Total | 4,241,005 | 102,770,186 |
| Cheese. |  |  |
| Holland | 233,602 | 2,640,327 |
| France | 44,268 | 673,006 |
| United States of America | 224,830 | 2,449,452 |
| Australia | 350 | 4,044 |
| New Zealand | 84,947 | 1,057,459 |
| Canada | 1,900,556 | 20,609,311 |
| Other countries | 65,745 | 1,006,096 |

## $2,554,298 \quad 28,439,695$

The quantity of Canadian butter exported to Great
Britain for year 1903 totalled $185,464 \mathrm{cmts}$, and the value was $\$ 4,315,745$, an average of twenty and fourfifth cents per pound. The increase in the shipment or 1904 totals 83,143 cwts., and the average price
ealized was nineteen and one-third cents per pound. The shipments of Canadian cheese to Great Britain
for year 1903 amounted to $1,848,852$ cwts., of the value of $£ 4,823,090$, or $\$ 23,472,371$, an average of teven and one-third cents per pound. The increase in
the shipment for 1904 totals 52,404 cwts., and the average price realized was nine cehts and sixty-nine siderable shrinkage in the values of butter and cheese on the English market took place last year. The im-
porters are looking forward to higher pricos this coming season. $\qquad$ McNAMARA,
Commercial Agent

## A Sanitary Milk Pail

## strongly is the necessity for pure milk

 recognized to-day in the manufacture of butter terests of health, that any invention to secure sweet, clean milk will be welcomed by every farmer, as well as every dairy ", which is oly pre duced by particles of manure and other filth in either milk, cream or butter. fected a milk pail which promises to do much in the way of securing comparative purity, and as there is no patent on his invention anyone is a liberty to copy it. The variation consists chiefly has an open space in the center, and hooks placed on the outside. Over this open space, and at tached by the hooks, is placed a layer of absorbent cotton, contained between two pieces of gauze. The milk passing through this covewill, as may be seen, be filtered from those fine particles of dust which are always in a stable even after every precaution towards cleanliness has been taken. The cotton must, of course, be renewed at each milking, but the expense is
trifling in comparison with the benefits attained The use of the Gurley milk pail is not, however intended to do away with any of the precautions observed by first-class milkers. Ventilation,
cleansing of the cows, wiping of the udder, clean cleansing of the cows, wiping of the udder, clean
hands, clean utensils, are all considered just as hands, clean utensils, are all considered To those interested in securing pure supplies of milk and cream for town and city, as well as country
homes, it merits a careful trial. Dr. G. M Twitchell, of Maine, advises us tha
have been tested with entire satisfaction in that

The "Farmer's Advocate" is Practical good practical subjects for farmers tor rat an
practice.
JAS. EBERLY. practice.
Okotoks.

Caring for Cream.
biperpontent asks the lollowing question which calls for a treatise on the subject
nuch could I use per gallon of cream? Should mor be used in winter than in summer? How long before Horning should the starter be added? How long must starter keep, or do you make fresh for every churning ? Should any more cream be added after the starter is of salt is usual per pound of butter? Is it wrong to wake the butter up churning, or should it be worked a second time? What In order to make intelligent use of a starter one must understand why it is used and how it
It is generally conceded that cream, to make a properly flavored butter and to churn easily
must be of a certain degree of sourness or ripe ness; that is, it must contain a certain amoun of acid. But acids may be of several kinds it is important that the one that gives the bes flavor shall predominate in the cream. In th natural course of events, when milk is souring the lactic acid, the acid that gives that clean characteristic flavor to sour milk, develops, but
it is just possible that butyric acid, or some o the other acids that cause rancidity, or other un desirable flavors, may develop more rapidly tha lactic acid, and so spoil the flavor, and it is als velops so slowly that before cream has reache a sufficient degree of sourness it has become fla or stale. It is easily seen, then, how usefu would be any agent that would help to contro the rate of ripening of cream, and such an agen
is a starter. Sourness or acidity in cream is due to the development of very minute organisms and the rate at which the acid is developed de organisms in the cream. Here then is the secret and value of a starter, for a starter is
nothing more than a large number of the lactic acid organisms in a mecia of milk or othe add a certain amount of liquid containing lactio acid organisms to cream in order to ret it to ripen. One must be certain that the organisms That cause rancidity or bitterness, or other of thavors, are not dorminant, and must also make gree for the best growth of the organisms. Know ing the nature of a starter, and the most favor step is to prepare it. Patented starters are mex hy blending in certain proportions the organisms That cause the flavor and aroma of good sour
milk, but a homemade starter can be used that will answer the purpose equally as well by tak
ing about a cluart of nicely-flavored buttermilk or sour ailk the access of undesirable forms. This sour milk or buttermilk, since it contains large numbers of ane desired orm, is added to a crock of cream provided the temperature is encouraging. The amount of starter to use will depend upon
the rapidity with which it is desired to ripen the cream. In a gallon of cream of average good
flavor and freshness, a pint of real sour milk would cause ripening, but a quart sould be added without danger. In winter, on account of the summer, but experience would teach how than in ore churning to add it. Some dairymen keep heir cream at about fifty-five degrees, and add ready to churn, and warmed up to about sixty degres, it would soon ripen sufficiently. The
starter itself will keep for several days, but should be carried along : that is, when a good upful starter is obtained, add about half a upply is being poured into the when the will carry the starter along from day to day or Cream can be kept in a crock until sufficient thould be cooled collected, but the fresh cream ind when added should be well stirred Some to fifty-eight, until a few hours before churning Whell it is warmed up by being set in a pan of ripening. The amount of salt used would deage amount is three-quarters of an ounce to the pound of butter. When butter is made for imnodiate consumption-and that is the proper wayfor a length of time a second working, would re-
move more movistme, which mocourages deterioration. Tse water of a temperature to harden,

The O. A. C. Dairy Cow Record.


POOREST TESTING Cow.
Name or number, 65 Glen Bessie ; breed Ayrshire age, 4 yenrs; record for year ending December 31st.
1904 ; rank in the herd. 23. Total lis. milk
Total number Total number of days milking
Ave.............................
178 dys Average pounds of mik per day
Average percentage of fat in milk Average percontage of tat in milk
$H$ Highest Aighest monthly average per cent. of tat in
milk .......... milik
Lowest Total liks. butter-fai

Poultry.
Mission of the Incubator and Brcoder
And how Both may Help the Farmer /to Have Earl,
Chickens-Waiting on Hens to Become Broody no Longer Necessary-A Little Bit of Sentiment it
Connection with Poultry-keeping-The Iind of Incubators and Brooders to Have. enthusiastic lady contributor to a poultry paper in a recent article said that an incubator and brooder were indispensable, if only fifty chickens were desired Whether this be so or not is not our purpose to argue on the present occasion, but certain it is that where early in the season, an incubator and brooder are cer tainly the most convenient means of hatching and rear ing the chickens. Oh! but you are writing in the interests of the incubator firms, it may be said.
nt all, rather in the interests of the farmers of our
ountry, upon whom we must depend for the great bulk of our new-laid eggs in winter and chickens in mid
of from a few farmers with a great number of fowls that the bulk of our supply is to come, but rather from the great number of farmers with comparatively a few hens each. In writing or speaking to farmers, it is alonly one of many branches of farm work. Whenever he gives more time and attention to his poultry de-
partment than he does to any other, he is drifting topartment than he does to any other, he is drifting to-
wards making it a specialty; and, certainly, there is othing to prevent a farmer from becoraing a specialist undoubtedly is to him "who knows ". or who finds that he is specially
the farner and the incubator. But why do you advocate the use of an incubator
and brooder in the intcrests of the farmer? Because the farmer should aim to have 100 to 150 chickens by prices the large city purchasing houses are willing to pay at that date, and which they will not give later in the scason, when chickens are coming from many quarers. In order to have the chickens at the midsummer the same time, so as to have them in the reauisit number and of uniform age. It is here where the in-
cubator comes in, for it is ready to receive the Which should be put into it in the first or second week of April, when broody hens cannot he procured in sumb-
cient numbers to hatch out the number of chickens dosirable. How do you know that broody hens cannot be secured in sufficient numbers during the two first weeks of April?
Why broody hens are not to be had in The experience of many years has shown why several if not all of the following reasons are causes of the
difficulty, viz.: is likely that you may have. we the time mentioned, two or three broody hens, which will probably hatch, outif eggs are given to them-nine chickens out of thirteen or three hens becoming broody at a time as the seasom of uniform age, or in the desired number. 2. If your hens do not lay during the winter, when
they begin to do so in early spring they are likely to lay their quota of eggs before they display the hatching
instinct. This may be shorter or cases, but it means few sitters when you most wan them, and, consequently, late chickens.
3. Experience has shown, with no 3. Wxperience has shown, with no uncertain sound,
that no chickens do better than those hatched out dur Hat no chickens do better than those hatched out dur
ing the first week in May. They seem to grow with Thg the first week in May. They seem to grow with
the grass. With the chickens in the brooder, and the
latter on the grass, the youngsters. with proper food Intter on the grass, the youngsters. with proper foo
nnd treatment, ought to make rapid progress. A facto
in favor of theil. rapid arowth

Ireland Wants the Embargo Left On.




Approves the Clover Propaganda

## THE FARMER'S ADVOCATE

## South Dakota Poultry



Western Horticultural Society.


## A Pointer for Would-be Apple-growers

Notes on Seeds for the Alberte Garden


Her friends kept a general store, and upon her
return home they sent a quantity of flower seeds
in packets to the children. What rejoicing there in packets to the children. What rejoicing there
was in that household over those seeds! The
children had probably never seen so many flower sceds before, but their rejoicing died an carly
death, for never a seed grew. They had, doubtless, been kept in the store for several years, and
he donors knew their gift had no value, save in Many garden seets should be strictly fresh though peas are said to yield better from two-
year-old seed. 13 ut the seed should be fresh when it comes into the gardener's hands, so that ach varicty before sowing. It would be convenient for the gardener if the year it was ripemed There is always a query in the average fartl
houschold as to how much seed of cach variet they will need. Of course very much depends upon the individual tastes, for whereas some
iamilies would consume fifty heads of cabbage and orve bushel of carrots, others would almost rerion unto itself, but 1 will give you a few notes which I judged to have beell an average year, your seeds. Any thrifty housekceper should keep mough account oi her alfairs to be able to tell
about how much of cach vegetable her familys will
$\qquad$ stance. If they want two bushels of parsnips, she
might need to put in four times as much seed
and ground as was devoted to parsnips in this acre and was iairls well tended. It supplied all help needed.
Perthaps hali of an ordinary package of smedts was used of each oi the following varieties : "ab-

$\qquad$

The peas were planted in double mirs, cacl feet. I see the catalogues mention one pint of
seed to fifty feet of drill. but that probably allow ior the larger-seded peas, or, possibly, more seed
is needed elsewhere than in Alberta. The hali growth in the garden mentioned. The turinti were Not1" Fxelsion, Horsford's Market Garden etc. The seed, potatoes, to potatoes, flowers prices, the one-eighth of but the lowest marke paid, This pardon alter rent and all expenses wer average vear, and on a here inger scata in and am not telling this to regard to prices, etc.
gardening for protit, the profit to the family may the from a fai needless expense, instead of a paying investment and their cooks and families suffer therely, On
dollar's worth of garden seeds is a mountain in some eyes, and vet a farmer does not hesitate to gain. Indeed, mams a farmer here in Alberta in 190 ket orne Now, take the matter oi garden peas, the seed quart seems dy-hve cents to forts-five cents per known families that were fond of peas to and wave evell peas make fully as large a net fain ean pared to price of sced. as oats. and they are luxury that no family who like them should do
without, especially here im liberta, where the do so well. Onions, also, are always high here and as sets make a surer and larger crop thay
seeds. One should not stop to coumt the prie

## Events of the World.

 Canadian.Fifty Russian Hebrew refugees, who deserted fron They will go in the spring to the Northwest Territorios.

Canada, making investigations as of Assembly is in fresh avenues of trade between Canada the opening of

## The Canadian Northern will renew 900 miles of rall

 way with 250,000 new ties this coming season. The be pushed so as to be completed before the big whea British and Foreign.$\qquad$
$\qquad$ The sixth session of the first Parliament of King 14th. The Japanese steamer Natori Gawa collided with The French Chamber of Deputies will push the bill for separation of church and state to its pas ane as A British squadron, under command of Rear-Admira October. It will stop for a short time at Newport,
-
Owing to a disagreement between President Roose velt and the U. S. Senate, the ratification of the arbi
ration treatios between the Inited States and various European powers has been indefnitely postponed.
A most important archwological discovery has beet in the form on fith with in bronze and stone, all of which bear historical in The steamer City of Panama reports a strange ex perience of the west coast of Central America. Sh
sailed for miles through a sea covered with masses vegetation, trees and dead animals. It is supposed that the floating mass was cast upon the waters by some The strine at St. Detwerthrg is over, and all th
men have ruturned to work. At Loolk further conflict

12th, over forty being killed and about two hundred
wounded. The first step towards concession has been made by the Government, in that the wages in all the Government shops have been increased, also that of the
railway employees, by fifteen to twenty per cent. General Lew Wallace, author of the famous " Ben Hur," is dead. He was born at Brookville, Indiana,
in 1827, and for many years of his life had a most chequered career, serving, with much credit to himself Which has sipce been translated into a dozen language was published. His other works are "A A Fair God Grand Duke Sergius, Governor-General of Mosco was not unexpected Moscow on Feb. 17th. His death several messages from the Terrorists, telling him that the end was near. Since the strikes of a month ago
he had remained in the Kremlin for safety, and was just leaving it for the Governor-General's palace, in fatal bomb was thrown under his carriage. A men the later the fragments of his body were gathered up from the snow. Duke Sergius was an uncle of the Czar, and exercised tremendous influence at court, He was also riage with the King of England, his wife being Fir beth of Hesse, daughter of Princess Alice, sister of the King. The tragedy has caused the greatest excitement in Russia, where it is looked upon as but a step further so been threatened, has not left his whare life has alassassination.
$\qquad$ report that peace negotiations between Japan and Rus
sia are under way. The terms under which Russia is willing to conclude the war are given as follows :
." Corea to be placed under Japanese suzerainty. ." Port Arthur and the Liaotung Peninsula to
$\qquad$
$\qquad$ "Manchuria as far north as Harbin to be restored Tmatus to nature of Japan's demands will be re require no inconsiderable indemnity in consideration o
the tremendus loss the comutry has suffered in uphold
ine primciulus which il ng principles which. it apprars, Russia is now re
to recognize. The Japancse, assistalle liys of Chinese bandits, are reported ommunication back of the Russian army, and should hreaten Kuropatkin's a negions, whese supplies even wil are not coming in rapidly enough, owing to the fact
that the Great Silverian Railway is quiving way under


Field Nojes.
The Manitoba Government has purchased a farm of
185 acres from T. A. Newman, of Portage la Prairie,
for the purpose of providing work for the inmates of
the gaol and reformatory.
A press report says Mr. J. Obed Smith, of Winni-
peg, has been in London, making arrangements with
Lord Rothschild to establish several colonies of Jews
in Manitoba and the Northwest.
Royal L., a gelding owned hy a resident of Winni-
peg, trotted a half mile on a straight-away ice track
on the 15th in 1.03s. This is said to be the fastest
half mile on ice in Canal

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\begin{aligned}
& \text { A reader asks, " Why should not every rural schoo } \\
& \text { in Canada utilize weeds as an obiect lesson. tha nunil }
\end{aligned}
$$ being taught to weod as an object lesson, the pupil their habits, so that they will understand how Sweden hns a law requiring the plating two rees for every one cut down. If every Canadian farmor made a practice of doing likewise, a few climatic and other problems might be solved in a comparatively

pavs in actual diemonstrated time and again that if

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\begin{aligned}
& \text { pays in actual increased flow of milk to groom the } \\
& \text { fows. } \\
& \text { Use a soft brush at first. }
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& \text { Uows. Use a soft brush at first; later, a a stiffer } \\
& \text { brush or even curry may be used, and the cows wil }
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& \text { Drus or even curry, may be used, and the ct a } \\
& \text { enjoy the operation."-[Farm Sock Journal }
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n egg from lazy hens that produc
few egever and these only during laze warm that produce

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\begin{aligned}
& \text { few eggs and these only during the warm spring months } \\
& \text { As breeders, use from the eggs from hens that are pro } \\
& \text { lific egr producars }
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& \text { lific egg producers as pullets, profitable egg producers as } \\
& \text { hens, with vitality, and feed the same to a capacity }
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& \text { hens, with vitality, and feed the same to a capacity fully } \\
& \text { equal to the strain." - [Mass, }
\end{aligned}
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\text { equal to the strain." }-[\text { Mass. Plowman. }
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\begin{aligned}
& \text { "No life is so wholesome as that upon the farm to } \\
& \text { those who are prepared for it. The aim of agricultural }
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& \text { those who are prepared for it. The aim of agricultural } \\
& \text { instruction should be to open the eyes of children to }
\end{aligned}
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& \text { instruction should be to open the eyes of children to } \\
& \text { the attractiveness of rural lifo. It should lead the }
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& \text { the attractiveness of rural lifo. It should lead the } \\
& \text { children to appreciate the privileges of their healthful }
\end{aligned}
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farm homes. It should teach them to observe more

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\begin{aligned}
& \text { keenly, developing their powe to see the beauties in } \\
& \text { nature. The success of the farmer in thating soil }
\end{aligned}
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\begin{aligned}
& \text { nature. The success of the farmer in handling soils, } \\
& \text { etc., depends upon his keenness of observation. Children }
\end{aligned}
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\begin{aligned}
& \text { etc., depends upon his keenness of observation. Children } \\
& \text { should be taught the fundamental laws regarding }
\end{aligned}
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\begin{aligned}
& \text { nature." - [Prof. Jones, Vermont University. } \\
& \text { negarding }
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\begin{aligned}
& \text { Mr. W. A. Read, who recently returned to St. Paul, } \\
& \text { Minn., from Alaska, is of the opinion that the profit, }
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\begin{aligned}
& \text { Minn., from Alaska, is of the opinion that the profit, } \\
& \text { of Alaska will in future depend not only on its gold, } \\
& \text { hut also to some extent on the fertility of its soil. }
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& \text { hut also to some extent on the fertility of its soil. } \\
& \text { "Wheat," he says, "can be grown in a large part of the }
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& \text { What," he says, "can be grown in a large part of the } \\
& \text { valley of the Yukon. The soil is very fertile for } 1,500 \\
& \text { miles along the river, nd in the short summer vegeta }
\end{aligned}
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& \text { valley of the Yukon. The soil is very fertile for } 1,500 \\
& \text { miles along the river, and in the short summer vegeta- }
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& \text { tion is luxuriant. The fact that the sum shinege all } \\
& \text { day and most of the night during the summer months }
\end{aligned}
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& \text { day and most of the night during the summer months } \\
& \text { helps the development of all kinds of plant life, and }
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\begin{aligned}
& \text { helps the development of all kinds of plant life, and } \\
& \text { while the valley of the yukon will never supply the }
\end{aligned}
$$

world with bread or anything of that sort, wheat suff
cient for the needs of a limited population, wach auti

The N.-W. T. Department of Agriculture Never Sleeps.
Provincial Autonomy

## Soil Moisture a Debated Subject

 new departure in connection with Farmers' Institut work, at Stonewall, on the evening of the 17 th ultimo that the generally-accepted theories of soil moistur with regard to absorption and capillary attraction ar - Campbet, of Argyle, the orginato Farmers' Institutes, took the affirmative, subdects a strated the impossibility of soil absorroing moisture from the atmosphere in dry sensons, and also claimed that what scientists commonly called capillary attraction, was morent of moisture in the interstices of the soil power of water to move by virtue of the attracti the the soil for it in its liquid or fluid state, and that of movement was in proportion to the firmness and fine hess of the soin, and the amount of humus it contained ment of moisture in the vaporous sun in the movesurface. The negative side of the state utward the rended by Mr. A. P. Ketchen, of Winnipeg, who admitted the unsoundness of the absorption theory, claiming that long ago had been discredited, and that molecular ion. The action of moisture for capillary attracstrated by experiments with different samples of soils, which showed that there was a relation between thmovement of moisture and the finenecs and fimness movement of moisture and the fineness and firmness of
the land. The practical lessons brought out by the debate were that the firmer the soil the more readily ground of crops, and by interrupting this movement by use of harrowing, moisture could be retained for the ion. of plants instead of being dissipated by evaporaing only light cultivation should be that on full plowspring plowing should be firmed by the use of a packe. r roller, and that the crop should be harrowed even soil drifting grain is up, when there is no danger of the
$\qquad$
$\qquad$ associated with him the officers and directowh hal Rockwood Agricultural Society, and several of the leading public men of Stonewall. The success of the
meeting demonstrated that educationa

## Outside Examinations Allowed by Mani toba 'Varsity

meeting adopted a syllabus for a commercial course,
appointed examiners for the coming examinations, and
attended to the question of outside examinations, re-
ported in the Telegram as follows:
" The discussion as to the holding of university ex-
aminations at points outside of Winnipeg arose upon a
communication from Principal McDiarmid, of Brandon
Collegen year science examinations at Brandon in the spring
and also for the holding of third and fourth
aminations many numbers pave expression to taine place. A grea the University definitely recognized the principle of al
lowing ontside examinations at one point, it would b
compelled to allow them everywhere, with the resul that conditions would become impossible. Weveral held
that matriculation the result over allowed at outside points. The situation was
finally met by a compromise, it being docided mit Brandon to have third and fourth decided to per
examinations for this vear science examinations till 1907 , frst and second year
who started under the Who started under the misapprehension had completed
thrir work. With this exception, it is not intended to
allow examinations invern
 whole question of the advisatility of allowing outside [Ed. Note-This question was brought before our
readers editorially a few issues aqo, and although the
I nitersity has made some changes (which
$\qquad$ Cillarmey, Birtle, Neepawa. Dauphin, and the Brandon
College should get decent
N.-W. T. Institutes and Stock-judging Schools

MARCH 1, 1905
Mexican Cattle. In an interview with Mr. George Lane, the follow-
ing was elicited re the importation of Mexican cattle ing was elicited re the importation of Mexican cattle
into Canada: There have been about 14,000 head of cattle imported, and from my present knowledge they are doing well. In some sections we find that the loss
from winters among these cattle is very light, in others from winters amoug these cattle is very light, in others
very hard, but it is my opinion that the Mexican catlle will stand more punishment on the ranges than the barnyard-bred cattle, although they are not as good
quality in beef, nor as large. I am inclined to think quality in beef, nor as large. I am inclined to think
that they will make as much money as the Easternbred cattle imported on the ranges. Now, as for over-
stocking the ranges. We have had hundreds of thousands of acres of grass burned up and destroyed every year, which should have been utilized by stock. Now
these native range cattle which stand the winters better than the Eastern cattle will pay better to raise, types of the Eastern-bred, as I consider the loss has been so great on the Eastern-bred cattle going to the
Western ranges. I am going to say here, in close figures, that there has been very little difference in which one makes the most money for the rancher, as
the loss on the Eastern-bred animal is so much greater than on the Mexican, that the Mexican makes it up in that way. Now, in the breeding of these cattle, my
experience in Montana was that the Texas and Mexican breeding cattle were the most success since ' 84 he ever had. My experience in the Territory since ' 84 has been
that the Texas cows were the best breeders we ever had. They stood the winters better, and cared for
their calves better. Of our cattle which were exported their calves better. Of our cattle which were exported
from this country in ' 87 , the principal part were bred from this country in '87, the principal part were bred
from half-breed Texas cattle. A large percentage of the first cattle imported into this country were half-breed Texas and Mexican cattle. The first were imported by Senator Cochrane, the half of them coming up in ' 82
also by the Stewart ranch, which was situated Also by the Stewart ranch, which was situated on
1'incher Creak in the same year. The next large herds imported were by Stimpson, for the Allan ranch, in ' 82 ,
and in ' 83 and 84 John R. Craig imported large herds for the Oxley Ranch. Now these cattle were principally bred up from Mexican-Texas cattle, with the best beef
types of imported stock from the East. They were the foundation of our breeding stock in the Territories then. The cattlemen of the Western States started with Mexi-
can cattle, and these were brought up from Texas and Mexico, and were half-breeds. Now the Mexican cattle brought into this country would be exactly the same
as those imported by the large ranchers in ' 82 and '86, which our first cattle started of. I am of the
opinion that they are better adapted to the climate of this country than our Eastern-bred cattle, My
reasons for this are that we have probably the best natural grass in Alberta that is known in any place in
the world, although the Mexican and the Texan both claim theirs the best. The proof for our Alberta grass at the same age as the northern steer, will gain four hundred pounds on the native bred steer. Now, I know this to be a fact, that the average four-year-old
steer in Mexico weighs eight hundred pounds; by taking him in New Mexico he will weigh one thousand pounds at the same age. Take the same steer into
Colorado and Wyoming, and he goes out weighing from 1,100 to 1,150 pounds ; the same steer taken into nortnern parts of Montana would go out weighing from
1,200 to 1,250 pounds. Although we have never had them tested $i_{11}$ the Territories, we have every reason to
believe that they would make the same increased gain be good. I consider that the very best beef strains
should be crossed on our Mexican cattle, and then the
Quality of beef from them is cood, and the proof of quality of beef fro
this is that thece this is that these cattle sell on all the big markets. country make very little difference with the price of
bref here, as the population is growing faster than the

A Suggestion to the Dominion Shorthorn Breeders' Association.

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THE FARMER'S ADVOCATE

Some Live-stock Convention Resolu- A Conference of Men Interested in Dealtions
At the annual meetings of the Cattle, Sheep
and Swine Breeders' Associations, held in Wimnipeg last week, which were well attended, a full report of which will appear in our next issuc.
the convention unanimously declared in favor of nationalization of all Canadian pedigree records seekine the restriction can cattle; and approving enrollment of stallions Territories, and asking for similar lecislation for Manitoba A resolution was also adopted cond demning the present method of seed distribution


Hon. Nelson Monteith, B. S. A., M. P. P. Minister of Agriculture for Ontario.

Ontario's New Minister of Agriculture. hosen by the new Premier of Ontario as his Ministe of Agriculture. Ho is a farmer's son, and a farmer, nears ago. His parents were Irish, but was born 41 f Scotch origin. He is a nephew of Andrew Monteith Who represented Perth in the House of Commons at an officer in all the municipal and agricultural organiInstitute speaker. He graduated as AB. S. A. from the Ontario Agricultural College in 1890, and was President and Member of the Board of Control of the Ontario and Experimental Union. Ho has been a re his influence strongly in favor of agricultura

## B. C. Denizens Show Interest in the Do-

 minion Show.The Victoria, B. C., Times states that the sugges-
tion has been made to postpone the local show and
fair for 1905 , so as to aid the New Westminster people
make the Dominion Show a bigger success than ever,
it being also suggested that if this is done, the com-
pliment be returned next year by New Westminster
dropping its show in 1906 .a proviso which stamps the
suggestion as a very selfish one and not in, the interests
of B. C. agriculture. There is certainly room for a
good show on the mainland and on the Island. It
is about time the B. C. men cut out the petty jealousy
between the two sections : as Canadians and residents




## Calgary will Have a Horse Show.

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connection with the fourth annual st
has hitherto
cattle sale.
cided to proceed to arrange for the holding of a horst
the plans have become more definite it is expected that
the event will partake of the nature of a regular horso
show, with clossco for breeding horses, ahd will also provide the conv-nience of marketing. Entries close on March 20th with the
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missioner Castle-in conference last month to discuss
the following matters: Making Winnipeg an orderpoint and sample market; the appointment of a subpermanent board of appeal, and for information how made, and also the use of the which the grades were by the mixing elevators (see mith machinery Aiter full discussion, the conference was of the opin ion that the time had not yet arrived when legislation
to bring about an order-point and sample market an Winnipeg was desirable. Mr. Wm. Whyte (C. P. R.) order-point would not be of any direct henefit to the producers of wheat, and as there were no very large establishing of an order-point would be of benefit to farmers in striving to place a high uniform grade of [Ed. note.-It might be advisable for the two grain-
growers' organizations to combine in sending a firstclass man to Great Britain to study the workings of
the grain markets, interview the millers and get samples The feeling seems to be that the mixing elevators, ning the farmer and lowering the whent grades, which most men are said to be opposed to. It is pointed out
that while the U. S. men have a home market large enough to consume their wheat, Canadians have to con-
sider the British Market, where sider the British Market, where Australia, Argentina
and Russia are strong rivals. The following resolution o oar inspection for the benefit of mixing elevators was that, in the opinion of ot this confference, when a car of
wheat from any source is conce tion and sampled for grading by any official of the Inspection Department, such car shall be considered offi-
cially inspected, even though an issura by the Chief Inspector... certificate has not existing prajudice against the Survey boned. they the hembers of the Grain Wixchance and also because such
 reason for the resolution lecing that the farmers wis ave more confidence in a permanent board and would said that. Motherwell, in speaking to the resolution, Sonnel of the Board being all grain dealers.
W. H. McWillinms spaking in dafonco did not know whether the wheat belonged to no elever, tor, a member of the Fxchange, or was farmers' wheat; chey were, therefore, entirely untiased in their deMr. Horn thought the present system was the most
workable. The resolution was finally carried in the following
form: " That, in the opintion of this contarencen thero should be a permanent salaricd survey board, consstang
of three properly-qualified members, one of whomstould ee appointed fr

## spector sends out to the diferent districts an regiuest to

 Grain-(Erowers' Association, wheres such exist?) to pro-Opinions of Farmers re 5-Bushel Seed Distribution by Exp. Farms.

New Westminster Gets Busy Over the Dominion Show Markets.
Exhibition has borne fruite and Manager W. H. Keary
and his staff of whole-soled directors are hustling every
day to make the show a ligig success.
The nominations for judges were made, according to
the Vancouver Province, as follows: Heavy horses,
W. J. Black, B.S.A., Winnipeg; Robert Ness, Howick,
W. . Black, Miller, Stoufville, Ont. Light horses,
Beef breceds of Cattle, Wm. Duthie. Tarves, Aberdeen shire, Scotland, and John Gardhouse, Hightield, Ont.: ate, London, Ont., and Geo. Clemons, st. Cieorge paper, has been selected, along with John Jackson, of Prof. Grisdale; Thos. Teasdale, Concord, Ont.; Jas, Butterfield was suggested for poultry. he horses, cattle, sheep and swine. The stock show s to be held the first week in October. The estimate
of finances is $\$ 1,5,000$, to be divided as follows : Fo prizes, the manager bargains om paying out $\$ 35,000$, for the grounds and bullings, \$25,000; For nttraction on the Manufacturers' Associations will amount to $\$ 1 .{ }^{\circ}$ It was unanimously decided to hold a stock-judging 's' sons under thirty-five years of agen tor which oseph Reichenbach, Esq., has donated a gold medal. association for the best commercial display of fruit Entrance fees, it is expe ted, will he the same the, fifty cents for sheep and pigs, and twenty-five cents or the general public, while exhititors paying mor , $\$ 1$ in entrance fees will pay only $\$ 2$ for theirs very five animals exhibited in classes A and 1 , and or very ten in C and D, who will be admitted for fift
ents while the stock show lasts. Attendunts in th building

## Lay up Some Ice

The N.-W. A. A. A. Decides its Fair Dates

Contents of this Issue.


## Life, Titerature

and Education.
$\qquad$ the peaceful study of nature have but little temptation to launch out upon the tempestuous sea of ambiaway by the more violent or cruel passions, the ordinary failings of control their conduct. But, pure bas the objects of their rething about them the same benevolence which they see nature display Lowards all her productions

Booker T. Washington
Perhaps no one in recent years affords the youth who desires to better ing example than that set by Booker T. Washington, of Tuskegee, Ala-
bama. Born in slavery days in a bama. Born in slavery days in a hing compelled his father was, and meals by sharing with the hogs and boy has come plantation, this colored educationist of repute, one of the best public speakers in the United
States, and States, and one of the most helpful
iriends that the negro has known. He is an author too, "Up From
Slavery," the story of his life, being one of the most readable and helpful books of recent years. To him anthropists of his country and philsuch men as the late William McKinley and President Roosevelt, have looked for the permanent and
best solution of the vexing and battling race problem.
Early in life he mad
to secure a rood education his min story of his struggles to secure this end outdoes anything found in mere
romance. He was ready for any romance. He was ready for any
honorable work, and no effort was honorable work, and no effort was
too dear, provided only it brought his goal a little nearer. He swep floors, he ran errands, he toiled the mines and at kilns. He wen
barefoot and hungry, until at las enough was saved to pay part of his fare to school. When his money school at last, he had to earn his way by choring, but he was at school and he was securing an educa-
tion, and he was happy. When he leit school he resolved to help his
race. His first school was a dilapidated shed but his heart did not fail, and now he has a school (Normal and Industrial Institute) that world, its buildings and apparatus being worth tens of thousands if dollars, and its influence on the in. Justrial arts and sciences being not
only inter-State. His aim is to fit his race to take its place in civilization with credit and
comfort to themselves, and with all
hands together is his motto. He his race. He has no foolish dream arches his neople to live, and then of uniting the white and the colored where wer. He lakes his people races. In the commonwealth, he ing them to better their present con- would have them remain separate as even elegant, living. To comfortable, its service for the body politic. He intelligence himself and his people, about the ballot for his people. His formerly and skill. Soil that one arm is to fit his people for bushels of sweet potatoes to the in the confidence that end he toistinction acre, under the direction of his of race or color can permanently two hundred and siximpelled to yield stand between a man or a race and who were content in bushels. Men talking " "stand around the streets cultivating their fields, and instead or mortgaging their crops are found owning, not only their farms, but which instueetings are held, in homely and homemaking duties and practical necessities, and annual con-
ferences of colored farmers are hold at which seventy practical and use-
ful topics are discussed. By pracful topics are discussed. By prac-
tical demonstration in the school or on the school farm, every industry
in which the negro can engage is

S. B. McCready, B. A

Rus ently anp inted Intruator in Nature Study.

Fazard way, but according to the dic
ates of the latest and highest intelli-
ence. Soils, paints and lacquers ar
analyzed, insect pests are discovere
and fought, the best iertilizers for he soil under cultivation are applied
or invented, and no opportunity adding to the comfort or prosperity of the colored people is allowed to
an unimproved.
Steădily, doggedly Wut quietly and pationtly withal, h Steading his race upwards to groot
itizenship, "/ up through the forests, ip through streams and rocks; ui throuwh commerce, oducation and re-
igion." In a word, this truly great

## Mr. S. B. McCready, B. A

## Master of the London, Ontario

 rointed Instructor in Natur at the Macdonald Inthe late Dr. W. H. Muldrew. Mr McCready, whose portrait from his tatest photo our readers will be pleased to see, is a native of Harrishe was educated at public and high school. In 1888 se taught first in Medina, Man.; in 1889-90, teaching Ayton Village, Grey Coun ty, and then returned to certificate. In 1893-94, he taught in Wiarton,Ont., High School, and in 1897, graduated from To he assumed the In 1898 of Science Master in Paris High School, remaining there until September of when he took charge of the London Collegiate nstitute. For four year 1900-04) he has been physics at chemistry and Medical College. He is an enthusiastic member of the Canadian Entomological Society. He has proved and successful a devoted whose ways he Jead hat they serve, in orde hat they may know he ruths and equip them
selves for active livine.

Abiding Peace

Logical Thinking.

## or the first "wssentiants of a forrent

 amen combining presentation of an arguthought. Wiat is. that sach statement may proceren in the most rational direce popeal to al sonss of renson. and the avery statement mase in some manner tion That this is lue rutionilllogical seytumene of thought is decidedly fotters of many Westorn people, both public men and private citizeas, is a Gervant man who hats spent considerab collent opportonity of noticing had ex
$\qquad$ When such a charge in this is made houghtiul minds at once set about to
$\qquad$ fow thought and spewch of West rn people find it cannot be denied that we are not Wrfect in this respect) would app ar to he ig, unrest rained comblitions under which "live. and the, us yom, unsubstantialit nusult of our mental paucity, the fimat sulder, yur institutions will wecome and entablished. "ur homes will be ality, or the four of missing ingolden ol ated bitcorato. we. sullt have settle oir thoughts will have acepuired that art

For To-day

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Packing Through the Forest. "That afternoon we rested and made our cache. A cache in a forest coun-
try is simply a heavily constructed rustic platform on which provisions and clothing are laid and wrapped completely about in sheets of canoe bark, tied firmithes made from of cedar whose appearance I know well, but whose name I cannot say. In this receptacle we left all our canned goods, our extra clothing, and our Dutch oven. We retained for transportation some pork, flour, rice, baking powder, oatmeal, sugar and tea; cooking utensils, blankets, the tent, fishing tackle and the little pistol. As we were about to sumably both game and fish mish sumably both game and fish might supply for four-counting Deuce as one-to last ten days. The packs counted up about one hundred and fifteen pounds of grub, twenty pounds of blankets, ten of tents, say eight or ten of hardware including the axe, about twenty of duffel. This was further increased by the laiosyncrasy of Blly to a single utterly foolish article personal belonging, which he worshipped as a fetish, and without which he
was unhappy. In this case it was was unhappy. In this case it was a weighed firteen pounds. The total amounted to about one hundred and
ninety pounds. He gave Dick twenty, ninety pounds. He gave Dick twenty
I took seventy-six, and Blily shouldered "The rest. carrying we did with versal carrying tumpeline. Thid with the uni-
viribed usually described as a strap passed about a pack and across the forehead of the bearer The description is incorrect. It passes
across the top of the head. The welght
should should rest on the small of the back
just above the hips, not on the brad just above the hips, not on the broad It. Then the chin should be dropped,
the body slanted shournty the body slanted sharply forward and you may be able to stagger forty
rods at your first attempt. "Use soon accustoms you to carrying,
however. The first time I ever did however. The first time I ever did
any packing I had a hard time stumbling a few hundred feet over a hill portage with just fifty pounds on my back. By the end of that same trip
I could carry a hundred pounds and a lot of miscellaneous traps, like canoepoles and guns, without serious inThis quickly gained power comes partly from the strengthening of the muscles of the back, but more from a
mastery of balance. A pack can twist mastery of balance. A pack can twist
you suddenly and expertly on your
back as back as the best of wrestlers. It has
a head lock on you, and you have to a head lock on you, and you have to
go or break your neck. After a time
you adjust your movements, just as
shoes through heavy down timber to the placing of your feet thought as infernal at first packing ishment as is as near dane conditions can compass. Sixteen brand-new muscles ache, at first dully, seems you cannot bear it another sec feet. You are unable to keep yo recovery and an effort at recovery your feet, and that means, if you are tra tweak for every one of the sixteen time muscles. At first you rest every to feel very tired every fifty feet. Then prove the pluck that is you can anc of Mr. Tom Friant, an old woodsman with a relish of his harst try at carrying. He had about sixty pounds, and Mr. Friant stood it a few centuries and ed another step if couldn't have mpvhis ear. '"What's the matter?' asked his com panion., said Friant 'Del, can't navigate. Friant 'I'm all in. Here , s where I quit.,
"'Can't your "'Can't you carre her any farther?'
"' 'Not an inch.' (" 'Wotl, an inch.' in 'Friant looked at him for a moment "' Do you mean to say your to carry your pack and mine, too? it if I have to. I mean to say. I'll do 'TFriant drew a long breath. "' 'Well,' said he at last, 'if a little sawed-off cuss like you can witgle
under a hundred and eighty, I can make it under sigty,y, I guess
"'That's right,' said Del, imperturbcan, 'If you think you can, you chuckle. I did,' ends Friant with a "Therein lies the whole secret. The ful, but if you think you can do it you can, for though great is the protest
of the human frame against what it considers abuse, greater is the power of a man grit."'Stewart Edward
White, in "The Forest."

A pious man was in the crew of an ironclad. This man had been whit one day would witness a great liattle. When he prayed that night he put special stress upon the plea that the vessel upon which
he and his comrades were serving fie and his comrades were serving might
escape disaster, saying among other escape disaster, saying among other
things: "o Lord, shield us from the
sholls sholls and other projectiles of from the enemy but if any shells and solid shot do come
to our vessel, I pray Thee that to our vessel, I pray Thee that they may
be distributed as prize money is dis
tributed-mostly


How Lucy Spent Christmas. Lucy was a little girl aged seven. She
was a kind little girl, and loved her
parents. parents. On Christmas Eve she said,
: Oh, mamma, will we go down town, lor "I want to tell Santa Claus
something?" ". Very well," said her mother, who was sitting reading, "get ready." Soon little Lucy was ready.
She brushed her golden curls and washed her face. The mother went to her trunk o get some money. "Why, mamma,"
said Lucy, " you have lots of money tell you what, you can buy me a nice big doll for Christmas.
"Oh, I see,", said the mother, smiling.
Soon they started Soon they started off and came to $a$
clothing store, of store Lucy wanted to see-she wanted a toy store. Soon she found one and
Nlace, let us mamma, here in the right
doll dressed in blue silk. "Oh was a big she cried, " that is a beauty of a doll will you tell Santa Claus that I want Mrs. Davis smiled and said, "Is that about?"' Slan "Yes," said Lucy, " the very thing,
and see that dear little piano. will you ask Santa if I can have that too ?"
Lucy could not sleep all that night. She was up early next morning, and sure nough there was the doll, the piano, and
lots of other little things. I am sure
Santa Claus Santa Claus remembered Lucy, and Lucy
remembered Santa Claus EDITH McMYN (aged 12). Dear Cousin Dorothy, -I thought I
would like to write tolt would like to write to you; I have seen
a lot of letters from children. My father has taken the "Frarmer's Advocate " ever
siuce sias taken the "Farmer's Advocate" ever
since he came to Canada, and I am very interested in the Children's Corner.
We left England the 3Gth of March. W sailed on the 31st of March, on the Lat Manitoba. Then we took the train to St. John's. We had to wait at the
station a long time: then we got the train and went ; then we got int stayed there a week, and then trecked t
Lloydminster. We stayed thero Lloydminster. We stayed there tw
months. Father plowed, then he though it would be better at Medicine Hat, be cause we had friends there, for we were
so lonely. When we got to Medicine Hat there was a picnic at the Baptist Church,
holidays at Medicine the ship got there. When the holidays were went to school. When winter cam me a sleigh, and Ella (rey and I ment Sleigh-riding. I remain, yours truly MARJORIE HEADLEY (aged 9 yrs.

Dear Cousin Dorothy,--I am living with my grandma and grandpa on a farm.
They have 25 horses, and about 25 cows, 2 calves, 75 chickens, 6 colts in a pe Cone colt is my own), 3 dogs, 2 cats town-in Damill-and a frain matert CRESSWELI JOHNSTON (aged 7 ).

A Pleasant Customer.


Whatever in Asia or Africa
There were rings, there were toys, there were sugar and tea,
There were rich silks and laces all offered
$\qquad$ At the most 'twas a Failing these-why, a bit of white paper The merchant was young, not seven years But for manners and graces, one could That the store-keeper wasn't a timeWhose ancestors proud with the Conquw Twas, " what will you have, sir ?" And I'd like first to know what you huve here to sell,"' And beautiful dolls at a very high price!' And, wait tiil I think-yes, I knowsome fine coal
That is, the building-blocks piled in my And here's a glass slipper that Cinderella's mean the doll's shoo), and some tiny
umbraut direlas.
鲑 real lump-sugar-it's two cents something of things ! Please luy Ion't laugh, father dear! -please flay great fuss real pennies, and make fout the best colfeo ; I gravely discuss dear ${ }^{\text {d }}$ tell ter that suyar was cheneper last Then my daughter calls "C Cash !" so
$\qquad$
$\qquad$

The Blind Man's Friend.
$\qquad$


Trappers of the Northwest.
him a kick every time she got near him.
Collie liked his blind friend, who petted him very much.
him very much.
At last the old man got out of money,
and had to go and beg, He tied a lit-
tle baskêt on his dog's neck, and ulso tle baskêt on his dog's neck, and also
put a string on his neck, and held the
string. while Collie led him around beggring. The little dog would not go too
gast; he knew his master was blind. Every person they would meet, the little as if to say, "Give this poor man some evening, the blind man and his friend, tired and forsaken; sometimes with $\$ 1.00$
in their little basket, and sometimes more and sometimes less.
One day they went out to l,eg. The
snow was lying thick on the street cold and frosty morning. $\Lambda$ t last the
met a little girl. She was leading nice little dog. You could see by appearance that the girl's father ",
rich, because she was dressed nicely, her dog was fat. Collie stopped and looked at her right in the face. She was
going across the street to buy some sweets. "Why not give my money to
this blind man instead $?$ ". she said, as she put her little hand into her purse
and took out a shilling and put it into the little dog's basket; then she ran off light-hearted. She went home and told
her mother she had given her last shilling to the blind man's dog. She said,
'Mine looked so fat beside his, and I hought I would give my money instead girl," said her mother
That night the blind man had a good
supper, and so did Collie. The bind man died in a year or two, and they beside the blind man

The Halifax Conservatory of Music.

People in this part of the country are
not familiar with the excellent work which is being accomplished in the Maritory of Music, an institution which has Ladies' College to its of the Halifax position as one of the most important musical educational institutions in the
country. It is affiliated with Dalhousie University, and its president the Rev. Robert Laing, M. A., and the facul-
ty of the piano department comprises such names as Mr. Percy Gordon, Mrs.
M. Wallace, Mr. J. H. Logan, Miss Helen Tilsley, Miss Esther Clark, Miss Louise All Tupper, Miss Elsie Taylor and others. ognized specialists, and one of the in-
teresting features of the Conservatory s an orchestra, lately formed, to give
he pupils an opportunity of becoming he pupils an opportunity of becoming
amiliar with a branch of composition which is to very many a sealed book. This is an innovation that would be adMr. Gordon's opinion in musical matthere is special interest in the fact that through his advice the president of the conservatory, Rev. Robert Laing, has
Ordered two "Gourlay " pianos for use in the conservatory. The letter to the
irm of Gourlay, Winter \& Leeming, Toronto, is a most complimentary one.
After stating that the pianos had been sclected after hearing a sample instruMusic Co. warerooms, of Halifax, Mr Laing says: "It is only fair to our-
selves to state that we can buy piano it less money, but in our desire to have Thk, we have decided in your favor."
This is but further evidence that the

Icssionally, the better and happier it will be for us, yet God is able and
willing to do great things with lives
given to His service even at the
eleventh hour. He can make great $=5$

Amateur and Professional Christianity

Wanted-Men

## systems fit and wise, t faiths with rigid eyes <br> Not wealth in mountains piled, Not e'en the potent pen :-

 Not e'en the pWanted-MEN

In the close competition of everyday ning high places. It is an age of specialists, and even in games-such as crick-
et or baseball-amateurs are nowhere beside professionals. But, strange to say, there is one business-and that the
most important of all-for which seem to think no professional training is needed. Long ago men were supposed
to pick tup farming by instinct; now it is a science, as all readers of the "Farmtime that the world should wake up to the fact that Christianity is a science,
too. No one will ever make a success of it if he practices it only in odd mo-
ments or on Sundays. To be worth anything it must be taken up professionally. As a homely friend said to
Livingstone when he was starting in life:
 and starts; for if you do not, tempta-
tion and other things will get the better
to of you." And the boy promptly took
the wise advice, and, in consequence, made a record amongst the greatest pro-
fessional Christians the world has ever
known. As one writer declares : A A more perfect example of downright
simple with either queens or slaves, one may sately say, is not on record on our
planet." His steady devotion to the great science of Christianity was also a
swift passport to fame although he cared little for that, for God's promise
still holds good: Me I will honor.". The man who began mill, stands out in history as the greatest missionary-explorer of the nineteenth
century. He was honored by the world laid to rest beside the dust of kings and queens in Westminster Abbey kings professional Christian-explains his simple method of excelling in that business. His fling all the energy and strength into "forgetting those thing I do", he says,
hind. and reachich are bethings which are before, I press toward Now. I am addressing ", professed, any means the same thing as " "profes sional." As professed Christiaǹs, you
must acknowledge-in theory at leastthat the service of Christ is the most
important work anyone can engage in. vocate" for a fow minutes, go into the on yourself and own soul, and shut the door
-honestly what is the find out your everyday life? Is it to get rich,
to rise to a high position in the world,
or to live a comfortable plene with the unconfessed aim of looking after
No. 1? Or is it your steady purpose to please Him who hath chosen you to
be a soldier, to be perfect as your Father
in henven io in heaven is perfect, to love others as
Christ, your lawful Master, loves you?
Are you flinging all your energy into this business, not only on Sunday but every
day of the week? Have you placed
yourself body yourself, body, mind and spirit, entirely
at His disposal. If not, then it is quite
time you gave up trying to serve two

## man who is worthy of the name should submit quietly to spend his life halting

 between two opinions. If the Lord beGod, follow Him ; but if Satan, or the

## us remember that our Lord's reason for rejecting the Laodicean church was not <br> rejecting the Laodicean church was no

$\square$
He says, "I would thou wert cold or
warm, and neither cold nor hot, I will
spue thee out of My mouth." Oh, what
ever else He may say of
never be true; let us be one thing or
the other. It is folly to lull the con the other. It is foly to lull the concelling it that we are quite as good as
our neighbors, and that it is a mistak to be "righteous overmuch." But we are not supposed to measure ourselves
by our neighbors, for, as St. Paul warn by our neighbors, for, as St. Paul warns
us, they who measure themselves by them selves, and compare themselves among themselves, "are not wise." Our busi ness is to press forward until we attain
the measure of the stature of the fullness of Christ. Though it will take all eternity to reach it, we have no business to
give up our earnest endeavor until that No one can be a professional without steady training, and, as it has been for
cibly said, " God claims the whole man for the whole time." We are bound to give Him the best and most highlyThe body should be kept as healthy as
possible, the mind should be educated and expanded, and the spirit should grow daily more clear-sighted and holy as it
reaches ever more and more eagerly after the God who alone can satisfy the soul's hunger and thirst. Ordinary everyday work will be changed from drudgery to
joy if done with a high purpose done to please our King and our God. Every thing will be of importance then, for
even eating and drinking should be done o the glory of God. No life can be servedly to God's service bowed heads and open hearts, may we
offer ourselves. We can do no more,
$\qquad$ selves to Thee,
Thine utterly and only, and evermore o Son of God, Who lovest us, we will And all we are, and all we have, shall Christ does not ask small things towarned would-be disciples that they must se ready at the word of command to
sacrifice everything, cven life itsclf, for
Him. What wonderful power He Him. What wonderful power He has
always exerted in drawing men's hearts always exerted in drawing men's hearts
after Him. What other man would meet with anything but astonishment and
ridicule if he demanded the unconditional surrender of the heart and life and secret
thoughts of countless men, women and children who had never even sren him?
But, as Napoleon said, Jesus Christ is more than man, "across a chasm of
1900 years He makes is beyond others difficult to sitisfy. ....
He asks for the human heart. He will
have it entirely to Himself; He demands it unconditionally; And forthwith His fiance of time and space, the soul of man,
with all its powers and faculties, beComes an annexation to the empire of No one can contradict the amazing fact
that multitudes which no man can num allegiance, and I have never yet heard of
$\qquad$
$\qquad$

With ue Folwerfs

## Flowers for Show

To-day we shall talk only of showy orner of delicnte of course, plan for ou oloring and sweet with faint perfume, nd this is likely to be the best-loved pot in our garden. But there are be needed; the stately queens in cloth of fold and scarlet and purple standing up, iring denizens of the flower plot and well to know the names and colors if nose which are
A few of these a
sutions. he lawn, massed in always desirable on border shrubbery, or holding place in the folitary bed or two which may be deomed permissible in front of the house. Trop--ooking flowers are always effectiv scarlet geraniums of ricinus bordered by with geraniums, and then feverfew to uinish up with as a border; or, not leas perhaps, a mass of the ornamental low-growing, gaily-colored plant any hooses; salvin, for instance, in the on
tore alue as a foundtoff to tasses are of much ah unsightly house foundation, and many Fountain Grass, are quite strikingly fandsome, whon grown in large enough Cumps. Mexican Fire Plant, whose lli, is very to a peculiar reddish tint in but should not for some situations, llowers, with whose colors it will be fikely to clash. A similar precaution hot poker plant, a strikingly handsom plant, with great spikes of tlame-colore wn decoration were given in last week's lowers of brilliant coloring proper, the The following list may holp in legions. those suitable for certain locations. The names of those already mentioned for Scarlet to cridance as to coloring: Crimson Antirrhimun, Tuberous-rooted Begonia, Crimson Peony, Crimson Dahlia, nd gold); (:iladiolus, " Napoleon 1II." ". Duke of Marlloorough," " Charles Hen derson," and others: Scarlet Flax, CrimFlame colored: Red-hot-poker Plant
$\qquad$
$\qquad$ Xoppy, Yellow Flax, Marigold, Yellow
$\qquad$ Tove, Monkshoorl, Agupanthus
Blue: Lobelia. Blue Sative
Pink: Pink Alue Saliva. Sell, Pink Dahlia, Dianthus, I'ink I'hlox These are but a few of the many flower
which may be included in the " showy which may be included in the "showy
> on among worthy of first consider
anufandartured in in Canada.
$\qquad$
$\qquad$

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Thousands of women are writing in every week for the＂Royal Household＂Recipes－they explain the new and easier way of making bread．Make a trial with the new Royal Household Flour，which is purified by electricity－you would not be－
lieve there could be such a difference in flour．These recines are certainly worth asking for．Send a postal card to－day．


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## 

Portrait of the Late Bishop．Baldwin


The London Printing \＆Llthographing Co．
CTENOGRAPHY


—二人日，Limited．Toront


A Most Interesting Question．
I have devoted so much space to this may possibly hit hard some husband mong our＂．Farmer＇s Advocate＂＇read
ers who may find himself prowing ers who may find himself growing so happiness of his wife，for whose well
being he is so greatly responsible．In being he is so greatly responsible．In the second place，I have felt that the
pubbication of such letters，while pro ductive of good in one way，may deeper an impression only too common，espe country people，as to the so－called slavery＂of farm life．I do not think homes．Of curse it is not given as
that，but is likely to be so misconstru More work to do than in town no one likes to be overworked；over
work is ruinous alike to health and tem－ per．At the same time，the spirit with which one works，and the interest one
takes in it，make such a tremendous dif－ ference．I believe it to be true，in ninety－nine cases out of one hundred，
that it is worry and not work that kills that it is worry and not work that kills，
and that，when one is sufficiently inter－ ested in it，work，hard work，may even
be a positive pleasure．There are two sides to every story，you know．of
course，with the work must come free－ dom．There must be no saying，＂You
must not read，＂＂You must not write，＂ or＂You must not visit your friends．＂
Relaxation is as necessary Relaxation is as necessary as work，and
is necessary for the sake of the work Which cannot be properly of the work，without
a sufficient amount believe that of the country，I cannot typical country woman． $\begin{gathered}\text { where are } \\ \text { compensations in the country } \\ \text { of by thoseamed }\end{gathered}$ of by those accustomed to brick and
stone rather than to fields and wood－
lands．and I feel that our farm women should do what they can to remove the
odium which has come to be attached I do not wish to press my mife．Of course，
one，and will be very willing to permit a fair discussion of both sides of the everyone，married or single，indeed，if
ever written a letter to the and as many as wish，beside－will write country life．just as soon as possible，
too，while the interest in Illinois writer， a goodly representation of the opinions of our farm women in general，and by
the publication of as many of the letters
as we as we can，may be able to do something ing out some way of comhating them．
Ingle Nook readers，I now teave the
question with you．DAME DURDFN， ＂Farmer＇s Advocate．＂DAME DURDEN．

Some Solid Sense from Busybody
Dear Dame Durden，－We read excellent
letters earli werk in the Ingle Nook
friends an the din
$\qquad$
Terhaps what 1 am writing will not ap－
peal to some of the readers as it does
to me．Of those 1 ask pardon for tak－
There is no more worthy holby a wo－
man can have than the care of her home：
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

MARCH 1,1905


Expect to Marry?
some rime, so get educated in
the selection of fine farniture the selection of fine

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I WOULD LIKE EVERY WOMAN


THE FARMER'S ADVOCATE

Notes from Over the Seas.

have been waiting, thinking someone but of these they chose, either wiflillly or or
more capable than I would send her the ignorantly, the very worst features, with
recer ecipe asked for. I cut the pumpkin disastrous results, from the effects of
ound about through the middle and which they are suffering to this dof
dake Moreover, whilst the higher classes had
greater liberty, those of lower standing remained under the old yoke. No lot
could be much harder than that in store even now for the peasant woman
on her bridal day. She is chosen for
her strength of muscle, rather than for tion asked by hare and form. The queslaw is not as to her moral or mental
worth, hut rather .. will she he useful in
the field? ". She knows she will not he, home, butt rather a slistress of her own who may be kind, but who is more like-
y to prove a hard task-mistress. Wie-
heating is no crime in a Russian henting is no crime in a Russian village
and what wonder ?-whilst their proverbs run that $"$ seven women have onl
one soul" : "A woinm hns no soul a
all, but only A vanour.".
$\qquad$
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$\qquad$
the absolute sway of her parents. Her
coming of age makes no alteration in her
position. Until the day of her death, if
she remain thenarried
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## Humorous.

A man, dictating a letter to another
man with whom he quarreled, wroto thus:
or Owing to the fact that my steno-
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wis the surid. "ron ging to st
(wamt. Choush where whe the paughte
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## GOURLAY, WINTER \& LEEMNG FEBRUARY ORCAN SALE

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Our sales last month far exceeded those of any previous January and many splendid organs were taken in exchange for new Gourlay Pianos. Each has heen carefully and thoroughly repaired, until now Whild be hard to tell th $\cdot \mathrm{m}$ fiom new. Each one is fully guaranteed bufore, we are responsible to oure hey are priced lower than ever-lower, in fact, than we like-bu ther organs are on the way, and our rooms are already crowded, so i ou whe in case the first should onee. Send also your second and thin

## TEFRMS OF SALE

## If per monthy paymenthout interest. nat convenient, please state what met biod yearly or at certain fixed dates. We wish to know what terms will sylu

Adiscount of io per cent., oft hese prices for cash. A stool accompanies each organ. Ever
instrument safely packed without extra charge. We guarantee every instrument, and agree to pay
BEELL- 5 -cctave Organ, by W. Bell \& Co., Guelph, in solid walnut case top, suitable for School-oom or mission use e has two sets of reeds throughout, 4 stops and knee swell, $\$ 24$
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An extra disconnt of sto on above prices will be given if you mention
when writlog the name of the paper and date of the issue in whitch you gaw
this advertle

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## Whiskey Ruin <br> Tasteless <br> secuetly. Sample free. All letters confidential. <br> Samaria Remedy Co., 42 Jordan Sreet Tononto

disagree, the testimony of an adult cul
weighs that of a child, and the , lesti-
mony of a man that of a woman." And et in spite of every disability and Russia, and in spite of the almost
Ruman limited power pever her fate legally mitted to the man who marries her, ther nust be a tender spot samewhere in the s she often and often been tilling low her husband into the wilds of Siberia, to which, with or withal cause, he is un Justly banished, there to bare him chil
Uren who will have ball fights of sonship if noble but who will whatever their parentage, rank as amongst the lowest class in Russian so-
ciety. The future of that great country s one of the biggest problems of th with, climatic difficulties to encounter and a gross ignorance to expel, whilst ducational privileges are almost unat ainable to the children, who from week end to week end could not attend school,
even if one were provided for tham. When ur hearts are stirred, us they must b vires news daily flashed to us over the foundest sympathy for our sisters in kussia, and of deepest gratitude to the in a land of enlightenment, and that the

## A Bright Shetland Pony.

 Corresponding Secretary of the American Shetland Pony Club, Naperville, Ill.:To the Editor,-On December 23rd had a cotillion at my home, of forty
couples. Wishing to have something unique, and to have my pet Shetland to have him bring in the favors. '"Him' forty inches high. His name is Billie. made a "harness "" for him of red rit
bon, and had ribbon. I arranged red roses and same carnations for the first round of favors. Fixing the "harness" so that the easily removed, I arranged it all in the little girl. She brought him to the by a ing-room, then to the music room, and around, standing whe we turned him large fireplace, the the omitted to say that he had red fannel He stood very still while his load Uowers was removed, enjoying it ap-
parently as much as the young people did, getting candy and sugar in large quantities. He had as many kisse he had stood under the mistletoe.
He is a very intelligent pony, and wo have lots of fun together, playing tag. He may run almost out of hearing, but
call of " Billie, . brings him to me coming up just as close as he can, and racing me ready for a lump of sugar and a petting. I have another Shetland, a Billie best. helen moore cruickshank

For Every-day Use
 whether th' other feller sees you or
not.-George Crouse. Tis pluck and work, nine times in ten So when upon success you muse,

I blieve in havin' a good time when
you start out to you start out to have it. If you git
kkocked out of one plan, you want to
git yourself another right quick, before your sperrits has a chance to fall. - Mrs.
Wiggs.
$\qquad$
$\qquad$


It was a round, fair lady's fac coloring lovely in contour, but devoid of from , not beautiful but winning hair banded upon the low crust. The head, was brown: the eyes, which were was its apart, grey ; the mouth, which of make, and very expressive, delicate was a dimple in the chin but none ereks. It was a face to be remem " Meeting the gaze of those implorin eyes, I started up. Instantly the face and all vanished, and I became conscious, tain movement in the hall below and the next instant the gliding figure of man of imposing size entered the library at this, half terror a certain thril though I seemed to know as if curiosity
 onality, and to be no change my per party watching these proceding thir r. Leavenworth himself, sitting at his rrary table and feeling his doom crawlor power of mithout capacity for speech Though my back was towald the avert rassage, enter the room beyond, pass hat stand where the pistol was, try th cure the pistol, weigh it in an pro customed hand, and advance again. could feel each footstep he took, as though his feet were in truth upon my table before me as if I expected ever moment to see it run with my own
blood. I can see now how the lotter had been writing danced upon the to take the plantom shopes of and things long ago forgotten as I ha
thought ; crowding my last moment wit regrets and dead shames, wild longing
and unspeakable agonics, which that face the face of ing, while closer pale, sweet, and search crept that noiseless foot till I could fee the glaring of the assassin's eyes acros
the narrow threshold separatine death, and hear the click of his teeth a he set his lips for the final act. Ah,'
and the secretary's livid face shows the describe such an experience as words ca one moment all the agonies of hell, the
next a blank through which I seemed to see afar, and as if suddenly remove from all this, a crouching figure looking
at its work with starting eyes and pallid back-drawn lips, and seeing, recognize
no face that I had ever known, but one so handsome, so remarkable, so unique
in its formation and would be as easy for me to mistake it countenance of my father, as the
look and figure of the man revealed to me in my dream."
". And this
Was that of him whom we saw leave Mary Leavenworth's presence last night
and go down the hall to the front CHAPTER XXI. A Prejudice.
superstitious horror, then my natural incredulity asserting itself, I looked up took place the night previous that all this the actual occurrence?" ".
He bowed his head. ing," murmured hea ng, murmured he.

I thought but little of it in in ble dreams
 trangely at not wonder you behaved



QUESTIONS AND ANSWERS. 1st--Questions asked by bona-fide subsscribers
to the "Farmer.' Advocate" are answered in
thit department free
nd.
nnd. Questions should be clearly stated and
 and address of the uriter 3 shd. In veterinary questions, the symptoms Sra.-In veterinary questions, the symptoms
especilly muty be fully and cleary stated,
othervise satisfactory replies cannot be given.

Veterinary.

## TYPHOID INFLUENZA.

 of the sames, almptoms, shessides having number of others that, besides having inent. Last. winter mare, eight year luh, with swelling in hind leg whic hte partly failed; temperature up $t$ ho cough, ance trom so to so, varied
 commencing. Wrine plentiful; dung pas
ty. In September another (yelding, te te
years old) went the same way, he last $H_{\text {ad }}$ a vetern dalas.

$\qquad$
$\qquad$ Ireating very strong. shoret, with hear

 treatment. luy with mo apparent , fe larged live
wrong in care in
slough ha
soveral ti
$\qquad$ YOUNG AGAIN
AT SEVENTY-TWO
How Calixte Richard, J. P. Feels After Using Dodd's Kidney Pills

Mey Make the Kidncys Strain ont of the Blood all the seeds of the Diseasen
That Trouble old Folks.


STALLIONS FOR LAND. Fifty Parcheron, Shire and Hackney Stallions
trade for zood land or city lots in Weatern Canar Won more Premier Championships at World's Fa
St. Louis, than any other exhibitor; ages 3 to

LEW W. COCHRAN,


TRADE NOTE

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Nox dide pixatu


In the Xmas number of this paper we called your attention
to the success al tained by the various to the success attained by the various Industries of our Valley
as manifested by the fact that for THREE conserntive year we have recured first prize at the Provincial Exhibiti in a $X \rightarrow$ Westminster for the best District Exhibit, and it $\$ \$ 300$ oo, and given by the Massey-Harris Co., for the be valued at Exhibit, both at New Westminster and Victoria be-t Distric WHY DO YOU SUFFER
with the se vere cold on the Prairie and in Eastern Canad a, when
we are favored with spring-like weather here, we are favored with spring-like weather here! Our farmers

> NOW, IT IS A FACT
that in the Okanagan valley you would pay for bare land in
the neighborhood of $\$ 210$ per acre, while one of our choi-e.t.
the neighborhood of \$210 per acre, while one of our choicent
Real Hatate de Inainiognce

## CHILLIWACK VaLLEY

NELEMS \& SCOTT

 ractically all cleared ail. well lawns, with church. post offlce and echool close to hand, en be bought for $\$ 7,500,00$, or about $\$ 80,00$ per acre. The owner has lost his heath and must give up farming, otherwise you could not buy this property. This is one; we have many mor

## OUR CATALOGUE

describes all these, and gives you many interesting facts berides. You want it; write us to-day, and one will be mailed Canadian Pacific train at Harrison Molls station, fii) mile the Vancouver and cross, per ferry to Chilliwack, or embark on the large river boat at New Wextminster for Chilliwack, he eastern terminus of the Fraser River service, and call on


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Having sold my farms at Beresford and Bran don, I will sell without reserve ms entire herd of 80 SHORTHORNS and 10 CLYDESDALES, as well bred and as good individuals as can be found in Canada

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wants invisiehe ink
OUESTIONS AND ANSWERS

 younesteasus are mosty ant taken up and
some braxiking done on them, and there Will be crop on them this year. One
of the setuluers is talking of bringing in two, three or five hundred head of cattle
from outside of the vistrict to heru them for so much a head.
Can they be stopped from coming in?
We are to nave a pound. put it would
 In they cannot be stopped, could there bo
a tax put on them?
E. B.




 application, and you may then have your
district formed into $a$ huerd district be-
 recovering lamages
ownersilp of bay

Was to be teft on the phace. The dean


pernission, atter that dite, and cut ail
tio hay, and stacked it on land. When

$\qquad$




hoitestead duties railway compen-

## What To Do

 For Heart Troubleack up my advice with this Pemarkable Offer :- A Full Dollar's Worth of my Remedy Free to Prove that

am Right
is nothing to promise, , othing to pay-ectity. There later. To any heart, s.fiterer who pay-either now on tried my
remedy-Dry shoops Restorative-I will gladly give
ret free, not a mere sapmple, but a full dollar bottle, give
I am warranted in mal mine is warranted in makinary this unusual offer becaus,
It doos not vainly tryt
stimulate the heart. Such treatments are worse that
uselesest
 trouble-the heart nerves-and strengthens them an
vitalizes them and restores them. Then that is the
end on thart iseases
For the heast For the heart itselt has no more self contol than
common sponge. It is made to beat by a tender nerv
so tin So tiny that it its scarcely visible to the naked ere. Ye Ye
ten thousand times a day this delicate nerve mus
cause the hanill cause the heart to expand and contract.
Ope heart is about the size of your clenched fist.
open and close your fits a do Open and close your fist a dozen times, even, and you
will see the monstrous laboor this little nerve must do.
The wilt see the monstrous labor this little nerve must do.
greeheart nerve is only one of the braches of the
great sympathetic nervous systell.
Thach branch great sympathetic nervous systelli. Fach branch of
this system is so closely allied with the others thai
weaknoess or

 The bond of sympathy bewe wen the nerves thal
operate the vital organs has weful purpose as well
For what will urure weakness in in one branch will surely cure weakness in every branch- what will restore on
center, will surely restore them all.
There is There is nothing new about this-nothing any
phsician would dispute. But it remained for Dr
Shoop to apply this knowledge-to put it topractical
use
 dose the orran or deaden the pain-out it does go at
once to the nery
ond inside nerve-the power nerve
wand builds it up, and strengthens hit and makes it If you have heart trouble and have never tried $m y$
remedy, merely write and a,k.
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on
ale at forty thousand drug stores.

[^3]
## MESSRS. RICHARDSON \& SON'S LETTER



THE HOMe of Mr. B. V. Millidge,
St John, N. B.
Willow Bank Jersey Farm
Gentlemen :
Rockland Road, St. John, N. B., May 6th, 1903.
I make a specialty of breeding Jersey cattle that have large, well shapee adders, with large teats well placed, and heavy milkers. The Exiles seem to fill the bill. My trade is selling milk in the City of St. John, and selling bull calves to head dairy herds in all parts of the country. My calves are never vealed. I use Herbageum, and have done so regularly for ten years, and would not think of raising calves without it. I feed it to horses, milch where Herbageume, calves and poultry. I could describe a of it. I will give one recent case: I imported from the United States last summer a three-months-old bull calf. It was bred in the purple, and I had paid a long price for it. I purchased it to breed to the granddaughter of the great Exile of St. Lambert, and was very much disappointed with the calf when it arrived. It looked very miserable, and was scouring badly. I tried various remedies, with no good results. I had, as I always have, a package of Herbageum on hand, and I tried that. The scouring stopped at once, and the calf improved steadily from the first day. He has been fed Herbageum regularly all winter, and gives promise of developing into a very valuable animal. I think he would have died from scours if I had not given him Herbageum.

My old stock bull is an inbred son of the greatest sire of milk and butter cows the world has ever known; his calves are never butchered by me, and when I sell them I am anxious that the new owners should take good care of them, as every one is an advertisement for my farm. I therefore alway My stock are fed then them. Thave been offered all kinds of stock foods, but when 1 have a saf and sure thing in Herbageum I cannot afford to run the risk of experiments. Yours truls,


The above is from a photograph of "Riverside," the beautiful farm home of Messrs. Matthew Richardson \& Son. Riverside Stock Farm is situated on the Grand River, near Caledonia, Ont. The farm contains three hundred and fifty acres, and is the home of a number of the most noted dairy cattle in America.

The milk from this famous herd is manufactured into cheese daily, right here at Riverside, and visitors can see a practical demonstration of the utility of the Holstein as a dairy cow and of the profit there is in home-dairying. It is impossible to procure better blood for the foundation of a Holstein-Friesian herd than can be obtained at "Riverside" from Messrs. Richardson © Son.

In laying the foundation for our herd and in making additions from time to time we have endeavored to purchase the best we could get

The bull is regarded as half the herd, and we have used in our herd the first three bulls in Canada eligible and recorded in the Advanced Record of Merit.

We have had over thirty official tests made by the Ontario Agricultural College, of Guelph, and in preparing cows for these official tests we have found Herbageum to be of very great advantage. We believe that it promotes thorough assimilation of food, and in that way brings the individual cow up to her highest natural standard of production without impair ing her vitality.

Our calves are sold for stock purposes or kept for use in our own dairy, and we find Herbageum of great assistance in raising them. We manufac ture cheese, and therefore can feed only a limited amount of milk. We feed new milk for six or eight weeks, after which we feed porridge of wheat flour one part, linseed two parts and oil meal three parts, with Herbageum added, and we have no trouble in raising calves that develop into healthy, strong individuals, capable of making good records. For animals off their feed or out of condition, we know of nothing equal to Herbageum.

MATT. RICHARDSON \& SON
Breeders of Holstein-Friesian Dairy Cattle.
Rinerside Stock Farm,
(aledonia, Ont., June 27th, 1904.


FIRST - PRIZE PEN OF southdown sheep.
Owned and exhibited by Telfer Brow Paris, Ont.
We have used Hobageum for our sheep for several years and find it a splendid appetizer, and would prefer it to any other preparation we have ever used. For lambs we feed it from the outset, and continue it until they go on the grass, and we always feed it to our show sheep. We have also used it for our calves with separated milk, and consider it without equal.
Yours truly, TELFER BROS. Paris, Ont., Sept. 9th, 1903.

## MR. JOHN ORR, OF GALT.

Mr. Orr is one of Canada's most successful breeders and exhibitors of Leicester sheep. He has leen very prominent among the winners at the great American shows as well as at home. His letter given below is of more than usua! interest

I have been frequently asked about my method of feeding, and it may interest some to know that I largely attribute my success to Herbageum, used a considerable quantity Especially have I had god last wo years have that were being fitted for exhibition purpoee Other lambe vere frequently thed fith purpse with ticks whenty troubled with ticks, be have never found any troubl I only feed a teaspoonful to sheep and rather less

Three sheep that I bought in 1900 were fairly alive with tick a day. them with my other sheep and gave them Herbageum, and when sheared, bout the middle of March, 1901, they were perfectly free from ticks, and they had no sheep wash nor other remedy or preventive than Herbageum
I may further say that the sherp which were fed Herbageum were in so inuch better condition than my other sheep, which were not fed it, that when sheared the clip averaged two pounds tach more than the others.

Thave also used it with cows and other stock to good advantage.

$$
\begin{aligned}
& \text { Yours sincerely, JOIN ORR, } \\
& \text { Iakieside Farm, (ialt, }
\end{aligned}
$$

Wet. 19th, 1902.
ant y of Waterloo, Ont.


Advortioemonts will be insortod undor thit Situafi, sugh as Farm Propertios, Help and



$\mathrm{F}^{\text {OR inform ition con oerning }} 100$ improved and Write unimproved forme in the Dauphin district, ohasers. Partioulars milied free,

 MPROVED And UNIMPROVED FARMS for sale in Grand View district, Man. Lists u oon ad.
puication to Benj. O. Nevill, Real Estate Agent.
$m$ Parner wanred in established. nursery oated in Vernon,
Box 371 , Vernon.
$\underset{\text { W }}{\text { ANED-A }}$ midiable couple, man and wite, work on a farm in Q Q'Appelle District. A good
place for the right people. Mut bit binduatrious and


 $\mathrm{F}^{\text {OR one } \mathrm{m} \text { antn we offer for sale a aplendid farm, }}$ halt-section, in the famoua wawa eesa district.


.anco, цаи,

FTOR SALE-Horase-power well-drilling machine a ohort time; Amperican makee Winl sell cheap. $W^{\text {ANTED at onoe-Salesman in Manitoba and }}$ est Nursuries. Biggeest nesportment of hardy fruite,

 Special now outat, design df
Sprial oanvill now etarting.
Stone o Wellington, Toronto.
$\mathrm{W}^{\text {ANTED-Married Man to manage ranch near }}$
 cood alary and small peroentage on proftes, will be
ofifered to nuitabble man. Box 11 , Farmer's Advo-
onte, Winnipeg.
FOR information about the rich Dauphin country
 Nioholison, manager.

Man.
 Screa, all tenced, about 175 , under cultivation, and most of it ready for orop. Another 100 anres can
brolen, balanco, about 40 aores, wooded with ell







 line of implemente and quantity of seed graii. Can
be purchased with farm it required. Alsote iection
to the east, 601 acres, 320 u dider cultivation and


 ine burf. The purohaser may also lease 480 acre
cornaering this eection, with 220 ready for crop, an raccuon onvenient, for hay, pasture and wood.
rand chace for a big araner. For further particutrand chance for a big farnerer. For f furt ther pa
aras apply to John D. Hunt, Carberry, Man. who would trust their wives with theeir pocketbooks-not with a dollar: When see a man of this kind, I always think most valuable! Think of making your wife a beggar: Think of her having to ask you every day for a dollar or two
dollars, or for fifty cents. ." What dic you do with that dollar 1 gave you last
week? ", Think of having a wife who is
afraid of you. What kind of children do raid of you. What kind of children do

Lost, Streyed or Stolem.

fox wing lost.
vor warren, Man--Five dollars rem be iven for intormation the will lead to the recovery of a black mare,
rising throe varcs ouly face, two white hind legs, driver. Cieory LaUDER, Manitoba_-Since May, 1904 brown mare, three years old, white star randed, reward. John Hamsay LaUDER, Man-Brown mare, ten years ITa, In toni, white face, some white feet

itue down on one hip: reward. John | Ramsay: |
| :---: |
| Cotul |

actank, Assa.-Twenty dollars ra ver sixteen hand, six years old, branded OUC left shoulder, (at right shoulder $\mathrm{J} . \mathrm{Bissiks}$,
HEDNESFOI red heifer, rising two years old, Iong mentive hat. will be paid to the party returning to
The Guil Lake Rancling Companys Ranch (10-23-19 w 3), from which strayed or was stolen about November
1903, light dapple gray Percheron stallion, ten years old, weight 1,700 pounds marks, ear marked, collar marked, scar
on left front foot; also suitable reward on left front foot; also suitable reward
given to the party returning to the same given to the party returning to the same
ranch, or furnishing information leading to the location of eleven head of horses,
branded M4, monogram, on right shoulder (or any of them). Any person repossession or purchasing same from any-
one except the company, after this no one except the company, after this no
tice, will be prosecuted. J. G. Miller
President Gull Limited.
STRAYED.
LEOFELD, Sask.-Since the beginning of January, mare colt, no marks or
brands visible.
$4-40-26$ wacob Gransch (N. E. 4-40-26 w 2 ).
INDEPENDENCE about 700 pounds, Alta. - Bay mare
brands visible. no marks $57-27$ w 4). EDMONTON, Alta.-Since about Janu-
ary 1st, 1005, red steer, horned, three or
four years old, white spot on belly. Wm.
Mithell Mitchell (S. W. 36-53-24 w 4)
ANGUS RIDGE, Alta.-Since about about two years old, branded 9 R , hall Angus (S. W. 4-45-23 w 4).
WoLSELE ber, black spring heifer calf.
Marshall ( N. E. 33-16-9 w 2 ) MLLLARVILLLE, Alta.-Four years ago,
three-year-old black muley steer, brander 2) F, half diamond under, on left hip. F. KATEPWE, Assa.-From the Rose Valley district, about 1 wo months ago,
red muley cow, white face, red-roan
muley calf, ten months old; red and
white heifer, rising two yoars old. Fred Sllkinc: slde, Assu-- Yearling steer,
rather stag-headed, dark red, white mart of hind legs white, half of tail
white, front feet white, some white on head, indistinct wrand on right hip. OHLFN, Assu,-Since December 9th
904, white boar, about Duc ewer 1. Hoolander (S. 1.. $4-19 a-3$ w 2). Sllman, Assa - 1 i.ght red steer, five
vears old, slit in top of each car, few mall white spots, no brand. Ira Odell
(Continued on next page.


Average yearly yield, 25 bushels per acre
for 5 years.
The G.T. P. is already survesed through and the C. P. R. is now building.
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The party will leave Winnipeg, Portage la Prairie and Brandon on March 20th. Regina and Moose Jaw on March 2lst.

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oto. to
Ing.
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W. B. DIXON,
lorthwestern Passenger Agent,
365 Robort St., ST, PAUL



Lost. Streyed or Stolen-Cont. RED WiLLow, Alta. - Since about
October 15th, 1904, red and white muley October 15th, 1904 , red and white muley
steer, branded L 7 N on right hip, fout years old; red and white steer, fou
years old, very short, stubby horns branded L 7 N on right hip; red muley
heifer.. two years old, branded L 7 N on ight hip; brockle-faced red heifer, thre
years old, branded L 7 N on right hip red steer, two years old, little white o
belly, branded 5 C , bar over, on right ribs : red and white heifer, two years old,
hranded 5 C , bar over, on right ribs Toan heifer, two years old, hrandted 5 C
thar over, on right ribs : red-roan stee two years old, no brand visible; red an
white heifer, two years old, no bran Visible; red-roan steer, two years old,
white face, no brand visible; roan-line back two-year-old steer, white face, three years old, branded two horizonta
bars high up on left ribs ; red cow brand resembling on cup on left ribs, an reversed J, P on left hip, and V U U on
right hip ; roan steer calf, no brand, ta left ear, with Frieburg Bros., La
combe, on it ; red muley heifor., whit combe, on it, red muley heifer, whit 1 7 N on right hip; large red farrow
cow, small star on forehead, no brand
visible. J. W. Cameron ( $36-37-17$ DRINKWATER, Assa. - Gray pony weight, appears to be five or six year
old., brand resembling 3 on left shoulder N. F. Hansberger ( $3-15-23 \mathrm{w} 2)$. FLETWODE,
Assa. - Since about De
cember 1 st, cember 1st, 1904, black muley steer
about two years old, branded U , re versed L, on right hip. E. B. Warne
$(7-11-3$ w 2$)$. CLUMBER, Assa.-Since a month ago
red-roan yenrling heifer, small. John H. Brown (32-21-1 w 2).
HAZELWOOD, Assa.-Since December HAZELWOOD, Assa,-Since December
1904, red yearling steer, little white un der, branded OL, monogram, on left hip
W. Harkness ( $36-11-5$ w 2 ). STRATHCARROL, Assa--Since about
December 1st. 1904, roan yenrling steor December 1st, 1904, roan yenrling steer
Delly and four inches of white on hind
 INNISFALL, Alta.- Black cow, de
horned, white star on forehead, white hind legs, 5 on left shoulder. W. S
Miller. DE WINTON, Alta.-Large, dirty-white
steer, reddish-brown collar, longish horns, three years old, or more, no
brand diseernible. W. R. Macdonald,
Strath piner Strath Pine Ranch.
SALTCOATS, Assa.-Since about November, 1904, roan steer, one year old,
no brand visible. Alex. Thompson. GIRVIN, Assa.-Gray mare, about 15
or 20 years old, hranded P ) l , with V under, on left hip; bay mare, four or
five years o!d, branded HP, monogram. tail, not branded. J. A. Ienzen (N. F. DUCK LAKF, Sask.-Since Decomber
15 th, 1904 , red and white cow and calf, right ear split, no brand visib,le; gray
heifer, no brand visible. John Sansregret. ago, red cow, with some a white, int
distinct distinct brand on left rib): red and white
yearling yearling stect, white under bally not visible, hoth steers coming two years
old, and have small white spot on fore
head. 37-23 w 41.
BOKKEVAR, Assa - Since alout Decemold, branded indistinctly on left hip. J. J. WETASKIWIN, Alta, - Since December
10th, 1904, bay mare, aged, black mane sadde marks. L. T. Miquelon (F. \& 27
$-46-21$




BREEDERS' DRRETTONY,



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 ot Sol bexe ollays to male.



 Coh hexee.





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ミUCOMESEIETU



 cow wor merbinc will

 veterinary surgeon, and have her mouth
and feet examined, as there are many
causes from which a cow might beconte causes from which a cow might become
salivated, as is the case with the feet as
well, they might be sore in many ways. INDIGEstion.
Have a horse that had a touch of in-
digestion last fall. Gave him two
quarts of oil, which purged him nicely.
He has never regained his natural state.
What he passes has a strong smell and a What he passes has a strong smell and a
shiny appearance. Changed his food, such as boiled oats and bran, etc.
Ans.-Give your horse crushed oats and bran, bat give no barley, and the fol-
lowing: Powdered gentian, 2 ozs.. ferri
sulph., 2 ozs.; sodium hyposulphite. 2 ozs. Mix, and divide into 24 powders.
(iive powder night and morning.
V. diarrhea in colt.
What would you advise for diarrhoon
in a colt four months old that is suckin a colt four months old that is suck-
ing the mare? Diarrhoca was brought on ly eating indigestible food. arise from different causes. If caused by
cating indigestible food, it would be Well to give it some oil, but I think it i
improbable, as it is still on the mare
and oil might have and oil might have the effect of weaken
ing it too much. I would advise
powdered opium.
 good clean hay. Your druggist
pare prescription.
UNTHRIFTY HEIFER.
I have a heifer that does not gain in
weight, athough well fedt urine red, and
my vecterinary says the bbood escapes in-
to the urine. He advises me not to
brecd her. so I want to fatten her, hut
cannot get any flesh on. I feed chaff,
straw, turnins.
 Ans.-Cive heifer 2 lbs. of salts. After
salts has operated, give gentian, 4 o\%s. sates has oprated, give gentian, 4 ors.
sulphate of iron. 2 ons.
Divide into
powders. (five powder night and morn ing. (iive her good food, such as boiled arssecd, wheat bran, oat chop, clean hay
and pure water. No turnips, as turnips
will agravate the trouble. Lymphangitis in mare.


Craigie Mains Clydestales
and Shorthorns.
for sale
 Hatain ox

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 buying elise whore, as we always have a number of prize-
winnersin in our lot. HODGKINSON \& TISDALE BEAVERTON, ONT.

gombault's CAUSTIC BALSAM

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Cleveland Bay Stallion weighs 1450) lbs ; considered hy competent judges to be the
finest horse of his breed in finest horse of his breed in Canada. Registered in Onwintered near Winnipeg and is in perfect condition. Pedi gree and full particulars may
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THE LIGHTCAP HIDE \& FUR CO., Limited
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Co., Seedsmen, Brandon, introdicod season three naw varieties of sededing poo
tatoes, and ofered $\$ 30$, cash prizes, in Competition for names.
The results are ane sollows: $\mathbf{s 1 0}$, cash,
awarded to
 seedling
Selkirk, to seedling No. 2, and $\$ 10(\$ 5$ each) to
Dr. S. S. White, Riding Mown Sharp, Medora, for the name, "Brandon stand from Messrs. McKenzie that underdistinct from any other sort. Propa-
gated in Manitoba by a leading chain of special productions of the Cana-
dian West. We will watch the careor these new potatoes with special interest. THE FAMOUS Chllilwack val-
LEY-Nelems \& Scott, the well-known
real estate agents of chilliwack. B. C. draw attention in their advertisement,
on another page, to the very interesting
fact that the farmers of their district
have the temperatures that have prevailed o
the prairies for some time past, if
sems remarkable that in another dis
trict at all possible. For three consecutive
years Chilliwack has courd
yoll Nrize at the Provincial Exhinition at
New Westminster, for the hest carried off the silver cup, valued at $\$ 300$,
presented by the Massey-Harris Co
Westminster and Victoria.
Nelems \& Scott have issurd a cata
logue, which sums up in readuble style
the many advantages of this favored lo
cality. A copy will be mailed free o Chilliwack, B. C.
Those who intend going to B. C.
the neer future should leave the Cana
dian Pacific train at Harrison Mills Sta

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ABERDEEN-ANGUS CATTLE.
All the best famillies represented.
Sorte tine oung bulls for gall from
both imported and home bred oows. Pricps reasonable.
S. Martin. Rounthwaite, Man.
m
 trom 6 to 20 months old, and a fow heifers from 1 to
3 years old, prizewinnerg and bred from prizewin

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OUESTIONS AND ANSWIERS Miscellaneous.

WELL-DRILLING MACHINERY-HOME-
fit, that I coun I got a well-drilling ou
hundred and fifty feet with? wbout tw 2. Can a young girl, eighteen years of
age, homestead in N.-W. T if she age, homestead
parents here ?
Ans.-1. Correspond with the Stuat
Machine Co., Winnipeg, who line of such supplies
2. The regulatio
eighteen, may be allottod any male ove
RATION FOR COWS Would mangels, oat chop and mixed hay how much of each per cow per day Ans.-Yes, this is a good ration. Feed
bout thirty pounds of to twelve pounds of chop (depending five on the amount of milk she is divending up er sizo), and what hay she requires. $B$ weight bran. and by mixing grain by hafled straw and hay, the rat Where to get homestead I saw in the "Farmer's Advocate," o
December 21st, 1904, a notice of mor not say where they are. I would like
to get all the particulars. how far from railway, who the land
agent is, and where he Ans.-The notice referred to was tha lands reserved by the Government for
the Doukhobors, near 隹 Full particulars of the terms of applica-
tion can tee had from the Dominiom Lands
Department personal application for a homestead must agents.
Stable plan buying lumber I intend building a stable to hold
cattle and 100 horses., and to have fo
overhead. Cold such a building be p
up in a circular form, with overhead. Could such a building be p
up in a circular form, with a feed ro
in the center? Would it be

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Owing to the loss by fire of a great
portion of our winter's feed, we find it portion of our winter's feed, we find it
necessary to reduce our stock. For
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Sittyton Stock of Agricultu First Prize and Diploms Herd at Regin





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and females.
Drumbo
Barren Cow Cure makes any animal unde und money. Given in feed twice a day. Mr
J. B. Ketchen, Dentonia Park Farm, Coleman, Ont., Bafs: "Have used your Barren Cow
Ore very successfully on a very hard case Particulars from
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on
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Imagine because we sold some ${ }^{\text {I }}$ '
itton that we have none lefte some good SHORE HAVE
female.
want any, write us specifloation, and wale and
tell yon tell you frankly whether we have it. we wil
JOHN CLANUY, Shorthorn Cattle and Lincoln Sheep heifers for sale at cows and heifers for sale at greatly re-
duced prices for the next (ii)
days.
this page, kindly mention the FAR areRS

MAPLE LODGE STOCK FARM

Kight very choice young bulls, of the
beet breeding and from first-olass mill-

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 For Sale Toi goam shorthorn nala,

BELL BRos., Bradford, Ont.
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## For a Disease Trhat Liquizone Can't Kill.

 On every bottle of Liquozone we of $\mid$ and Liquozone-like an excess of oxy-fer $\$ 1,000$ for a disease germ that it $\mid$ gen-is deadly to vegetal matter. fer $\$ 1,000$ for a disease germ that it $\begin{gathered}\text { gen-is deadly to vegetal matter. } \\ \text { Liquozone goes into the stomach, }\end{gathered}$ that Liquozone does kill germs. And it is the only way known to kill to go wherever the bood goes. No
germs in the body without killing the germ can escape it and none can regerms in the body without killing the tissues, too. Any drug that kills germs sist it. The results are inevitable, for is a poison, and it cannot be taken in- a germ disease must end when the ternally. Medicine is almost helpless germs are killed. Then Liquozone, in any germ disease. It is this fact acting as a wonderful tonic, quickly humanity; a worth so great that, Diseases which have resisted mediafter testing the product for two years, cine for years yield at once to Liquothrough physicians and hospitals. we
paid $\$ 100,000$ for the And it cures diseases which medi paid $\$ 100,000$ for the American rights.
cine never cures. Halif the people you
and we have spent over one million
meet-wherever you are-can tell you dollars, in one year, to buy the first of cures that were made by it.
bottle and give it free to each sick one
Cerm Diseases.

## Acts Like Oxygen

Liquozone is not made by com pounding drugs, nor is there any alcoy from gas largely oxygen gas-by a whe germs, wherever they are. And process requiring immense apparatus are destroyed, the disease must end, and 14 days' time. This process has,
for more than 20 years, been the confor more than 20 years, been the con-
stant subject of scientific and chemical research.
The result is a liquid that does what xygen does. It is a nernford and the world to youl. Its effects are exhilarating, vitalizing, purifying. Yet it is an absolutely certain germicide. The
reason is that germs are vegetables

## Cerm Diseases

All that medicine can do for these troubles is to help Nature overcome the germs, and such results are indiwhen the germs which cause a disease and forever. That is inevitable.
$\qquad$
 reason is that germs are vercetables.


QUESTIONS AND ANSWERS Miscellaneous.

PAYING FOR CULVERT Ii a farmer builds a culvert and cross-
ing on the road allowance for convenienc approaching his own premises, shoul he municipai council be responsible for Ans.-This question is not sufficiently full to enable us to give a definit cil could legally pay the account if culcil could legally pay the account if
vert is necessary to grade the road.
minor buying implement. A minor signed a lien note for an im
Nement, and it was accepted by the agent: What is the law regarding this Man. Ans.-The minor is not legally respon though if he is doing business for himsel he is virtually responsible. The only
thing for the company to do is to take back their implement.

Is there more than one grade of bluc stone sold in Manitoba, and how can th wheat with n picklo, but I treated my wheat with a pickle, but there was quite using a pickle? Where can good blue stone be got at the most reasonabl
Frice ? Ans.-There is always a danger of rating in strength when kept long in ordinary atmosphere, and, consequently, ther may be varying degrees of quality in the copper sulphate upon the flocal market.
Dealers and farmers too often make tho Dealers and farmers too often make tho
mistake of asking for copperas instead of copper sulphate (bluestone), two very
distinct substances. Bluestone for the drenct substances. Rluestone for thould have a fresh metallic treatment should have a resh metalic
luster, and the edges of the crystals should be sharp, indicating that the sub
stance has not boen long made. With stance has not beon fresh bluestone, one pound to ton gallons of water applied to ten bushels
of whent, and the secd afterwards proof wheat, and the seed afterwards pro-
tected from serious infection, by boing piled in a bin, surinkled with the solution, or put in clean bags, there should
be very little smut in the crop. Always remember to thoroughly dissolve the urestone, ase wooden vessels and ge

DR. C. F. SANDEN, 140 Yonge Street, Toronto, Ont.
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[^4]".

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age, WINNIPEG.
erence, Bank of Hamilt on, Exchange Branch.


IT FILLS the MILK PAIL ,ity there is nothing so goot to to put her into condivition, fuil

## PRUSSIAN STOCK FOOD




Dear Sirs-1 have fed pruAKES INCREASE IN MILK
 EOR CATTLEE. It makes catite faten guivkly nad keppst them free from disease


G. OLAFSON \& CO., Winnipeg, Agents for Manitoba,


## -Blacklegine. <br> BEST AND MOST CONVENIENT YACCINE FOR BLACK LEG. Pasteuriacanvero ampere <br> SAN FRANCISCO


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