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AND HOME JOURNAL

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JUNE 26, 1907

WINNIPEG MANITOBA

VOL. XLII, NO. 770

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Entry must be made personally at the local land office for the district in which the land is situate.

situate.

The homesteader is required to perform the

onditions connected therewith under one of the following plans:

(1) At least six months' residence upon and cultivation of the land in each year for three

cultivation of the land in each year for three years.

(2) If the father (or mother if the father is deceased) of the homesteader resides upon a farm in the vicinity of the land entered for, the requirements as to residence may be satisfied by such person residing with the father or mother.

(3) If the settler has his permanent residence upon farming land owned by him in the vicinity of his homestead, the requirements as to residence may be satisfied by residence upon the said land. Six months' notice in writing should be given the Commissioner of Dominion Lands at Ottawa of intention to apply for patent.

W. W. CORY,

Deputy of the Minister of the Interior.

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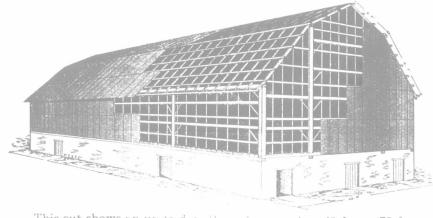
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Things to Remember

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Things to Remember



This cut shows an up-to-date Barn Construction, 40 feet x 70 feet, and the method of covering with Corregated Sheets. The framework is light, as the corrugated sheets, when nailed in place, make the building very rigid. This drawing is made from actual plans and the barn has been built many trues with splendid results.

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Man.

ONE OF THE MANY UNSOLICITED TESTIMON-IALS RECEIVED LAST YEAR.

OATS

North Brandon, 2nd Aug., 1906 The Manitoba Farmers' Mutual Hail Insurance Co.

I am in receipt of your favor of the 30th ult.. inclosing cheque for \$100.00 in part payment of damage to my crop from hail. I have to thank your company for the satisfactory adjustment of the loss and for the prompt businesslike manner of the settlement. I am more particularly pleased as the matter was adjusted during my absence from home. I will have much pleasure in recommending my friends to insure in The Farmers' Mutual Hail Insurance Company.

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Messrs. McDermid & McHardy, Nelson, B. C.

Robson, B. U., 22-4-07

Nelson, B. C.

I bought a lot from you 1st Ian., 1907, not seeing it until I moved on it 27th March. I wish to state the quality of soil, and the location of the property far surpasses my greatest expectations. I have lived on the prairie for twenty years, in southeastern Saskatchewan. I travelled over a considerable portion of B. C. before locating here. People on the prairie imagine living in the Pockies means obtaining a very short glimpse of the sun during the daytime. In fact, according to their ideas, the length of time it takes the sun to traverse the space from behind one mountain until it hides itself in obscurity behind the next, is all the sunshine we are entitled to. I was agreeably surprised myself to find we have just as bright sunny days here at Robson as we had on the Prairie.

People in the East, who are intending moving to some other part of the country, there they can enjoy a more fav rable climate, and surroundings, would save them selves a great deal of expense and travel. if they would come to Robson. After they had thoroughly examined the property and the location, they would undoubtedly conclude, "They could not possibly wish a better place to live."

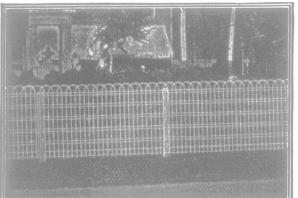
I ind all prices for produce and the general description of the property exactly as stated in advertising matter, and not in the least exaggerated.

Yours sincerely (Signed) H. Hedley.

(Signed) H. Hedley.

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WE are offering for Sale a number of choice ten-acre lots of Fruit Lands at Howser Lake, West Kootenay, B.C. In these lots one acre will be cleared and planted with fruit trees and bushes to order, the selling price including this. Water rights are included and ample timber for building and fuel is readily accessible. First-class cash markets for all produce raised. Railway station two miles, post office and general store one mile. The climate and scenery are magnificent, and there is good boating, hunting and fishing.

The following was recently received from the first party of settlers who purchased land for fruit growing from this company at Howser Lake and who took up their residence at the lake the first of May last. Each of the party was given a fortnight to thoroughly examine the allotment picked out for him, with the option of changing the lot selected or withdrawing. All retained their lots and in addition

Howser, B. C., May 15, 1907.

We, the undersigned, residents at Howser Lake, British Columbia, who purchased ten-acre blocks of fruit land from Messrs. Oldfield, Kirby and Gardner while at Winnipeg, desire to express our great satisfaction with the soil, climate and scenery.

The soil is fully up to the description given us, the quality being further proven by the results already attained by the earlier settlers on the lake, while the scenery is grand and beautiful beyond description.

(Signed) C. P. R. Hutton R. Tangye W. Tangye H. S. Davis

Chas. P. S. Henderson S. Clarke L. R. Hutton

For further particulars, address

OLDFIELD, KIRBY & GARDNER

391 Mair Street, Winnipeg, Man.

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Farmer's Advocate

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and Home Journal

June 26, 1907.

WINNIPEG, MANITOBA.

Vol. XLII. No. 770



Two Sound Principles in Crop Improvement.

the introduction of fresh blood plants tend to there is not likely to be any lessening of advance. be to enforce the seriousness of the situation and when the wild type of Chinese oats containing over all. five grains to the spikelet was crossed upon a cultivated variety, the resulting crop had spikelets with grains varying in number from three to nineteen. After such a cross as this a few years (ten to fifteen) of patient work is then devoted to the fixing of the more desirable characteris- evidence upon the prevalence and means of desired characteristics of other varieties to give nor to disparage any part of it, nor to console the nomadic. The history of agriculture shows that strong straw, greater size of grain or whatever man who has weeds to fight with the fact that the highest type of men in that profession and ing of plants the Messrs. Garton believe there are ent and ever increasing evil, but we fear the descendants have worked the same practically infinite possibilities for the increase in people who are and will be most affected by their generations. The wander-lust amongst farmers the yields of crops, and cite as an example the presence are not so much concerned as they means the seeding of all parts of the cultivated trials of the Highland and Agricultura! Society should be. It is a well enough known fact that area to weeds. Another effect of the bill will which reported an increase of over fifty per cent. weeds can be prevented from getting a hold a be to induce people entirely unfitted either by by some of their improved seeds over all others great deal easier than they can be stamped out, nature or preparation, to try farming and waste tried. This illustrates the value of deliberate but too few farmers appear to act upon this their lives and spoil much good land thereby. care in the choice of seed grain.

namely, that grain crops tend to deteriorate wholesale process they will be able to clean their steading, a change that should have been made toward the average of wild types, approves of farms should they become seriously infected. years ago. The sparseness of the settlement has the practice of changing seed quite frequently, a There never was such folly. There are ways and accounted for the comparatively slow developplan that some plant breeders in America do not means of upsetting artificial plans and works, ment, education, culture, and "the knowing how advocate and try to discourage, contending that but with plant growth and such things as Nature to live and enjoy life," in the West. It also by selecting the best seed from the regular crop has the arranging of, it takes long persistent accounts for the overwhelming preponderance of grown upon the farm, the most steady improve- effort to alter them. There are yet no miracle ment can be made. The latter idea is without workers making a specialty of cleaning farms of doubt a good one, but it also looks reasonable weeds. that by changing seed, and especially when As has often been said before, our system of the change is made for seed with inbred improved cropping is largely responsible for the spread and getting 320 acres easily, and to keep in view the characteristics, a greater improvement may be growth of weeds, but it is not necessary in order public interest. expected than where no new blood is introduced. to check them to completely alter our system of Experience in stock breeding vindicates this farming. Slight modifications in methods of theory, especially in the first cross of similar cultivation and cropping having for one of their types. This theory when followed further throws objects the checking of weeds is the most rational now open for the provinces to procede against some light upon the problem of the fading color policy. There is a deal of efficacy in the summer- the lumbermen's associations. If this interof our best hard wheat and suggests that its fallow substituted by shallow fall and spring pretation of the law is sustained it should color and hardness might be regained by a judi- cultivation. There is a further gain by seeding relieve the Manitoba Grain Growers' Association cious cross with some other variety. The prob- part of the farm to grass and barley, and further of any doubts about the propriety of their action lens of the plant breeder are many and intricate help from the sowing of well cleaned seed. Too in proceeding against the Grain men.

Buffalo association?

Summer's Green.

weather of June has put a different spirit into cultivation and with the extending markets for everyone. From the dark dripping pessimism barley, oats, hay, flax, seeds, etc., as well as the generated by the cold and dullness of May, people promise of better live stock markets, these crops When on his recent visit to Canada, Mr. Garton have emerged into buoyant smiling optimism. all should be equally as profitable as wheat. Wheat of the family of seed breeders of that name because the sun shone warm and showers fell to is peculiarly adapted for the growth of weeds, entertained those with whom he talked with the water the grain, just as though the longest and owing to the fact that it is so little cultivated elaboration of many of the principles underlying coldest of winters had not threatened to prolong during the growing period and is so long in the improvement of plants. Two of these to its blighting influence into mid-summer. It ripening that the seeds of weeds have an opporwhich the Gartons adhere and which they have would be hard to conceive of better growing tunity to ripen and fall to the ground. Such satisfied themselves are sound, are that the conditions than are prevailing over the greater conditions must be studied in the war with weeds, desirable characteristics of any variety or wild it is asserted that grain has grown as much as published letters referred to are given hints of type can be bred into any other variety or type of the same species; and the other is that without development before the warm weather arrived weeds are spreading. One result of them should

deteriorate, and alternately, crossing and se- A red rag exercises an irritating effect upon to set each man more deliberately at work to lecting to a type plants can be very much improv- the vision and the disposition, but green is a rest- keep his own farm clean. ed. The first of these principles they have demon-tul hue. It does not strike the eye like a thunder strated beyond every shadow of a doubt and clap upon the ear. It is suggestive of health, have as witness the fact that they have com- growth and plenty. When earth decks herself pletely altered the characteristics of certain plants and given them new and improved features. The recognition of this principle and its application to the improvement of field crops application to the improvement of field crops never thinks of the connection between growing is a valuable contribution to agricultural science, crops and swelling revenues; the hired man as he but its effects are even more far-reaching than drousily trails back and forth across the summerthe simple enunciation of the principle would fallow is contented that the sun shines warm, lead one to expect. Cross breeding of plants not that blades are stretching and that summer only imparts to the resulting produce the charreigns. At such times he worries little about his acteristics, good and bad, of each parent, but one of the very first effects of the cross is to exaggerate most of living. The hardness of dollars is the characteristic of the parents. As for instance forgotten and the benignness of nature pervades

The Noxious Weeds Problem.

and his accomplishments are equally marvellous.

* * *

much has been expected of "noxious weeds acts"

* * *

much has been expected of "noxious weeds acts"

These agencies are The Manitoba Agricultural College is endeavoring In some cities they have started purebred cat useful and beneficial as far as their influence this week, by means of a special train and a large cost enterprising citizens start a purebred the whole advance of noxious weeds growth, dairy industry of the province. May their efforts This is a case where every man must be his own be fruitful.

physician with the "weed acts" and weed inspectors to assist him in guarding against The evidence that other things besides the infection. The main hope for cleaner farms prices of wheat and cattle and horses count has really lies in growing a greater variety of crops, been abundant the past few weeks. The summer which necessitates more diverse methods of

Is it Wise to Double the Free Land Offer?

There is considerable difference of opinion over the Oliver bill, to provide pre-emptions as well as homesteads, which the Minister of the Interior has publicly announced he will put through the House of Commons at the next session of that body. One section of the public asks the question, "Is it wise or necessary to offer greater inducements to come to the West, when the rate of immigration is far more than the transportation or fuel supply companies can minister to?" If the tide were flowing away from Canada there would be justification for holding up greater inducements, but the facts show the reverse to be the case. Further, it is stated that the offer will result in the migration of those on the older farms to the newer lands. This would not be an unmixed benefit, although by some it is This issue and last week's contain a bulk of pointed out as an advantage. The old proverb, "A rolling stone gathers no moss," has its truest tics. But in the meantime further improvement eradicating noxious weeds. This matter is not application to the farmer. Agriculture makes is accomplished by blending with the type published to discredit the country as a whole, little or no progress where the land workers are In the cross breed- others are similarly afflicted. Weeds are a pres- the best work are to be found where farmers and knowledge. The idea seems to have obtained The good feature of the bill is that odd as well as The second principle advanced by the Gartons; possession of some people's minds that by some even numbered sections will be offered for homebachelors, a feature bad for any country to show. Taken by and large the bill needs thought by Canadians, and each man needs when so conidering to separate himself from the idea of

Hon. A. B. Aylesworth has notified Deputy Attorney-General Wood of Alberta that it is

ssociations. Why cannot some of Strathcona's extends; but they cannot be expected to stem staff of speakers, to galvanize into vitality the

HORSE

Developing Action in Hackneys,

best method of handling, as to bitting, mannering, shoeing and developing action, of a two-year-old Hackney colt intended for stud purposes."

first to walk and kept walking to a halter; no bit put into the mouth for first month. Then an English they are deprived of the actual emolument attachbitting bit is put in use and they are checked up with ing to the position. side lines buckled to roller to keep head straight. They are now trotted alongside a fence, back and forth for about 200 yards, going slow at first, and gradually increasing the gait. We do not shoe for two or three weeks after beginning to handle the colts and then only with light shoes. The action to the sire, should be disqualified for barrenness. must be carefully watched to keep it true and straight, Probably the difficulty can be got over to some weight on heel to make him fold his knees and on extent by not recognising late services, so that the toe to reach out. It is a good rule to remember there would be reasonable external evidence to make haste slowly and not hurry too much, giving plenty of slow work to get the colt strong and quiet.-

Day to Return Mares.

We have been breeding horses for many years. The cestral period with mares recurs quite regularly every three weeks, the first one after foaling being manifest about the ninth day. This period with as far as possible in consonance with the aims of and prepotency, in fact a combination most mares is brief, seldom ever being manifest over the breeder. Most societies are concerned with never yet attained by any one breed. three days and usually only one, the ninth. The subsequent periods are longer, varying with different mares from three to ten days.

Our instructions are always to return in just three weeks. I should never allow a horse to serve a mare at intervals of nine days. If she were in heat at that time it would only be evidence that she had not gone out since the previous service and would not be evidence that she had not conceived. If a mare to-day, which admittedly has a deleterious effect should be bred toward the close of an cestral period and did not conceive, she would probably be in heat again in eighteen days, but if she had been bred toward the first of the period she would not be, so we think it safer to make the return the twenty-first day. We have been reasonably under foaling. ing mares on the thirtieth day after foaling.
P. Mills. day. We have been reasonably successful in breed-

The Barren Mare Problem.

A problem which has long perplexed horse breeders, and is apparently no nearer of solution, is the relationship which should exist between the barren mare and the modern show-yard. It must be admitted that when our best mares run barren it is a severe and regrettable loss to the breeder. The chief principle involved in pedigree is the perpetuation of first-class strains, Editor Farmer's Advocate: of outstanding individuals and the recognition of their worth on paper. To what extent barren- are in full blast again; in fact, have continued in full again and fed grain and hay, for the night. I thought ness is accidental, and in what manner designed, is sometimes rather difficult to determine. If a mare, for instance, has a very late foal the expediency of permitting her to run barren for a time can be excused, and if it is accidental, and personal to their activity has been that I myself now know the man looked quite surprised and said that if they what are the feelings of an Irish Roman Catholic, who witnesses an Orange parade, and vice versa, one cut his feed down, the idea being to have the can be excused, and if it is accidental, and personal to the result of their activity has been that I myself now know the man looked quite surprised and said that if they what are the feelings of an Irish Roman Catholic.

There have been letters lately in the Breeders' horses when spring work started, not fat, but just in feel grain and nay, for the night. I mought the horses were hardly fat enough and said so; but the man looked quite surprised and said that if they what are the feelings of an Irish Roman Catholic.

There have been letters lately in the Breeders' horses when spring work started, but just in feel grain and nay, for the night. I mought the horses were hardly fat enough and said so; but the man looked quite surprised and said that if they what are the feelings of an Irish Roman Catholic. can be excused, and if it is accidental, and per- Gazette of a similar nature to the ones this winter fair condition. They would then have their feed haps due to the sire, there can be little cause for in the FARMER'S ADVOCATE, in answer to a correspon- increased on getting to work, gradually, until soon complaint; but there can be no doubt that a strong dent who asks advice as to how he should breed his they were getting all they could eat. temptation exists to keep a mare barren for the express purpose of winning at summer shows, the Gazette and the FARMER'S ADVOCATE man must be farm horses get little or no grain all winter, when not It is this last and premeditated form of barrenness against which breed societies should most firmly protest. The show-yard is entirely overshooting its object if it encourages barrenness purely and simply with the object of establish- describing a bunch of range mares on which the experi- horse who is not fat, but in fair order, will gain on ing a reputation.

The matter has not quite received that attention which it deserves, although the Shire Horse Society has attempted to deal with it, and has partially dealt with it. Yet stronger measures are required, and they ought to emanate, first cultural Societies, which should support, in the breeds the best hunters in the world. The fact has horse who did not gain up on work. These emarks are partially prompted by the country riders in the world and they one and all say now after discing and harrowing 200 acres they are extraordinary barren mare class which appeared that the Hackney as a hunter is no good.

The extraordinary barren mare class which appeared that the Hackney as a hunter is no good.

Yet in spite of this fact, more Englishmen, Canaat the Nottingham Show in the Shire section. It dians and Americans will persist in telling us that should be bathed, for some time before spring work, is probably within the mark to say that such a Hackneys are good cross country horses. class has not been gathered together at any other class has not been gathered together at any other show in the country. How far the condition of those animals is merely the accident of Nature hocks and ewe necks" off a bunch of range mares the stable; then grease them cannot be determined off-hand; but it cannot Now where is this bunch of Western horses to be found grease off and dust over fail to be a subject of remark that such mag- in which ewe neeks, cat hams, cow hocks, etc., abound nificent talent should be left even one year unfruitful, It is true that the Shire Horse Society is still considering the most effective means of dealing with the barren mare troblem. means of dealing with the barren mare problem, Of course if people only see these horses, when the but unless it lays down very definite conceptions have been travelled around the country, they the of its intentions, like the average Act of Parlia- see their horses, but Clydes, Percherons, Hackneys ment, the proverbial coach and four may be and all other horses have ewe necks and more or less trouble. If you put y

driven through them. The praise-worthy idea cat hams, if in the same condition. of making the championship only open to brood mares and fillies, which include-or are supposed to, which is quite another matter-mares which have not spent periods of unfruitfulness at stud, have not spent periods of unfruitfulness at stud, deserves to be carried out strictly. The question which the Society has got to solve, however, is own bunch. Nearly all my horses are and have been whether the mare, by accident of service, is to for a long time "whole" colors—bays, browns, and "I would be thankful for information regarding be considered as qualified for breeding purposes. be considered as qualified for breeding purposes. chestnuts; yet one time a man who was looking over There have been cases in which the mares obviously not in foal, have secured high honors good bay or brown in the lot "—Force of habit I sup-The young Hackneys on this place are taught and won the glory, yet failed to qualify for the pose set to walk and kept walking to a halter; no bit put position. But the honor still remains, although

> bristles with difficulties. It is very hard indeed that a mare which has bred regularly, and may happen to miss a season, in all probability due there would be reasonable external evidence much. Remember the fable of the boy and the nuts, that the mare was in a brood condition. That rule might operate somewhat drastically, but, on the whole, it would operate beneficially. Meanwhile, the Society might very well exclude from competition for medals animals which are not in a fruitful condition.

securing a first-rate show, but in the interests of breeders it is doubtful whether a barren mare encouraged on account of two reasons-first, because of the hard feeding and preparation involved in showing horses in the show-yard of on their breeding capacity; and secondly, the over service of sires, having the multiplicity of Editor Farmer's Advocate: fees in view rather than their capacity to leave

This question, in the interests of the breeder, requires to be very deeply probed. Complaints are heard on all hands when barrenness is rife. Meanwhile it certainly falls upon the Shire Horse Society and other organizations with similar objects to give a lead in this matter in a much more decided fashion than they have done in the past.—Farmer and Stockbreeder.

The Hackney not Suited to Every Type of Mare.

ment had been tried, with most splendid results. work if the feed is increased. The colts were, smooth, fast, large, and made extra

the habit of repeating platitudes. I suppose some fool, years ago, saw a bunch of cayuses and thought they were representative Western horses, and now when we have good horses and plenty of them, the

To get the best results from say a bunch of twenty mares, I should say as many as three stallions should be used; some would suit one horse, some another. This I know is hard to do, and the man who is able There can be no doubt that the problem to select the mares suitable to each stallion would be a sufficiently good horseman to need no advise from me or anyone else on the matter.

When you, good Hackney admirers moderate your

enthusiasm, no stallion of any breed will produce a uniform bunch of colts from any bunch of Western mares, unless they have been selected specially to "nick" with the particular horse. Don't claim too who filled his hand so full that he could not get his hand out of the jar.

I acknowledge the Hackney to be the popular show horse, the high actor, par excellence, and like Captain La de Dau, "He is the pet of all the ladies." Is not that glory enough for any one breed? Don't spoil your whole card by setting up a claim to speed A society's first duty is to keep the show-yard endurance, jumping powers, good looks, easy gait, and prepotency, in fact a combination of good points

G. H. BRADSHAW.

[We agree that no horsemen would claim that the should be eligible for championship. The other Hackney is a getter of hunters or jumpers, but he thought suggested is that barrenness may be certainly will breed out the angularities of some of the other light breeds.—Ed.]

Some Pertinent Words on Fitting Horses for Work.

I have read with pleasure the article on fitting horses, by Mr. Hallman, in your issue of 29th May. In fitting horses for spring work a man must decide between two things does he intend to work the horses himself or does he intend to sell them? If the horses are for sale, I should say Mr. Hallman's advice is good; in fact, I could add nothing useful; but if he intends to use the horses himself, I might suggest some small changes

A couple of years ago I happened to call at a place when a large railway outfit were wintering their horses. I looked through the horses and had a talk with the man in charge. The horses were looking fairly well but not at all fat. I asked how they were fed and was told they got about a gallon of oats or chop of some kind twice a day; also hay when fed in the morning. They were turned out on the prairie to "paw I notice that my friends the Hackney enthusiasts all day. Just about sundown they were taken in bunch of light Western mares. By this time both the reverse of the course generally followed. Most ready to cry, Save me from my friends. They have both working then in the last month are made as fat been advised to use every kind of known and un- as possible. That this is not the good plan is selfknown stallion. Mr. Ross (the Gazette seeker-after- evident. Fat does no good, and sometimes lots of knowledge) was recently advised, in an extremely harm. A fat horse, conditioned in this way, will good article, to use a Hackney stallion, the writer surely fail more or less at spring work, whereas the

The next point in importance is to get rid of his good cow ponies; also looked as if they would make hair. About two weeks before you expect to start hunters. Here the writer remarks, "Woe betide me, work, get the clippers to work. This beats any way I know, if Mr. Ross (the enquirer) happens to be an Irishman, for I know it is impossible to talk Hackneys coat. You may think the horse has his new coat into the men of Ireland in connection with hunters. but you will find a big difference between a partially from breed societies, and secondly from Agri- Here I too think is time to make the point that Ireland new coat and a clipped one. I never knew a clipping interest of those whom they are designed to serve, never been disputed so far as I know. Irishmen I took in a couple of horses three days before I needed the principle of fructivity rather than inutility. themselves are among the best if not the best cross them to start discing. I clipped them at once, and in better shape than when they started

About scalded shoulders I think the shoulders with some hardening preparation, such as a solution of tannic acid. If the shoulders are already sore I should wash them off when the larges come into " ... get the id. sulphur or something similar. Bl applied to the re part before leaving rause the lar to have less friction ou could o cut a piece out of the sore. the sore is on the prin Traise the draft of the traces.

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Horses for

le on fitting f 29th May. a man must end to work o sell them? Ir. Hallman's othing useful; self, I might

all at a place gtheir horses. alk with the g fairly well vere fed and s or chop of in the mornrie to "paw" ere taken in Ithought said so; but that if they

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shoulders pring work, a solution ready sore come into g, get the sulphur ed to the muse the ou could the sore. dise the

over-feeding and keep on working hard, you will have hard, smooth road and have the horse led with a went for funerals. Yorkshire is the strong grey

[UNE 26, 1907

I will now just add that I consider cleaning the horses of quite as much importance as feeding them. If you do as I have advised and clip them, never use a curry comb: use a dry brush first; then wet and rinse the brush in a pail of water and with the brush head held up by the person leading him, and Emilius, Ebor, Muley, and others. Browns came just nicely damp. Brush the horse all over. This show lameness when allowed to jog with a free from the East Riding, with white locks at the will take the dust all out and won't take five min- head. utes to the horse. Of course if the weather is chilly you will blanket the horses in the stable.

Give your horses all the exercise possible, for surely if it is true that "Satan finds some mischief still" for idle (farm?) hands to do, he is still more active, among idle farm horses.

G. H. BRADSHAW.

Lameness in Horses

tation of such, as a horse may stand lame.

DIAGNOSIS OF LAMENESS.

while in others, even though the lameness be well when first bitted. This is called "bridle lame- proper attention in colthood, bad habits would marked, it is difficult, and requires care and ness," and disappears when the animal is run in never be formed. The habits can generally be knowledge to locate it. While we do not think it a slack rein. Again, horses which are habitually broken by intelligent management. A very wise for an amateur to attempt to diagnose and exercised in a ring or round a circle usually troublesome habit is that of halter-breaking. treat a case of more or less obscure lameness, appear lame in the fore limb nearest the center of Once a horse finds he can break the halter, he is where professional help is procurable, it may be the circle. When an animal is lame in both hind everlastingly at it. To cure the habit is not interesting, and to those who are not within a limbs, the difficulty of diagnosis is not so great, nearly so easy as to keep the horse from learning reasonable distance of a veterinarian, instruc- as he is both stiff and lame; but mere stiffness it. However, two tried remedies for haltertive, to deal briefly with the peculiarities of gait should be distinguished from lameness, although breakers, suggested by an exchange, are herein shown according to the part affected. The first the two are often confounded. A stiff horse is given: Horses that are inclined to pull and point to be determined is the limb in which the certainly unsound, but may be very useful for break their halters when fastened in the stall animal is lame. This may seem an easy matter, slow work. Mere stiffness is not accompanied by have often been cured in the following way: but in reality is attended, in many cases, with no pain; it may indicate fatigue in old age and Two straps are lightly attached to a rope which little difficulty, especially to those who have not pass off with exercise, or it may be constant, and, passes through a ring fastened in the end of the given lameness especial study. It may be men- while the animal is discommoded more or less halter strap. The halter strap passes through a tioned that a horse lame in one fore leg or foot thereby, he does not suffer pain. But lameness ring in the stall. If a horse endeavors to go will step as lightly as possible with the lame foot, is indication of actual pain or disease, and although backward suddenly, he finds that the harder he lift it from the ground quickly, and tread heavily it may disappear with exercise, it must not be pulls the greater is the tendency to draw his fore with the sound foot, his head nodding at the confounded with stiffness. There are some legs from under him. A few attempts will cure same time; that is, his head nods, more or less, forms of lameness which are apparent in the even the worst halter-puller. Another simple according to the severity of the lameness, as the stable only, the movements caused by bringing and effective method is worked out by the use sound foot touches the ground. When lame in a the patient out of the stable being sufficient to of a long rope. One end of the rope is first hind leg, the elevation and depression of the hip cause the total disappearance of the lameness. fastened to the manger. The rope is then of the lame leg will be more marked than that of Hence, the examiner should see a horse in the threaded through the lower ring in the halter, the sound one. In some cases a mistake may stable as well as out of it. be made by expressing an opinion that the lameness is in the hind leg when in reality it is in the fore, and vice versa. This mistake has so often been made that the peculiarity of gait that has led to it has been called "cross lameness." For example, a horse lame in the off fore leg is trotted from the observer; he seems to be lame in the Thoroughbred and the higher-class harness ranks, For many diseases to which horseflesh is heir, near hind, for the quarter seems to ascend and it is interesting to note a class specially for greys an acre of grass paddock is better than all the descend. But when the animal is trotted towards at the International Horse Show in London. drugs in the Pharmacopœia. Grass cures ailthe observer, it will be seen that the irregular There was a time when it was a proverb that, day ments without creating others. Drugs cure, motion of the hind quarters depends upon the or night, no one could cross London Bridge very often, by stimulating or taxing other organs elevation and dropping of the head and body, and without meeting a grey horse. It is generally than those affected, thus weakening these and the hind limb. An opinion should not be given much more stout and healthy than any other physic, the great tonic, the natural medicine. until the horse has been trotted from and towards color. The greys came originally from Cappa- and free exercise on Nature's carpet will do more the observer. Of course, there are many cases docia and Persia, which stock is still found in the for the majority of foot and limb troubles than of lameness where the seat is so apparent that magnificient heavy cavalry of the Russians. The the average veterinary surgeon, and is much such an examination is quite unnecessary. In greys, says the Sports of the Times, went for cheaper. Veterinarians have a place, but so has testing a horse for lameness, it is well to select a weddings, as the magnificent black Andalusians the field.

He will not nod in his gait, but will be short in his action; is said to go "groggy." Each foot up again; the step is short, and there is a rolling motion of the body. In other cases he may exhibit lameness in one foot as he goes from, and Lameness may be defined as an expression of in the other as he approaches the observer. Such not, in all cases, being necessary to the manifes- power of discrimination. Care must be taken indeed, black is a color. not to confound peculiarity of gait with lameness. For example, a horse, especially a young one, may appear lame in the near fore foot, if led with In many cases the seat of lameness is evident, a short rein and his head pulled to one side, or

WHIP.

A Class For Greys.

Considering the paucity of grey horses in the on his own back instead of on the rope. is really in the fore and not believed—on statistics— that grey horses were lowering the general vitality. Grass is the great

loose rein, first walking and then trotting, both section of England; the "Tykes" breed to color straight away from and straight back to the extensively. Grey Orville, rest his glorious observer. A horse may walk sound and go memory, was foaled in the famous West Riding sound when trotted fast, or excited, or with his of Yorkshire. He won the great St. Leger, sired tail, the sign-manual of Woodpecker in the third, When a horse is lame in both fore feet, some fourth and fifth generations. In South Yorkdifficulty is often experienced in its detection, as shire reign the chestnuts, representing that magto the inexperienced he may appear to go sound nificent horse Comus, side by side with the rich brown of Tinker, by Tramp. Breeding to "original" color was held in Persia, Russia, and later is carefully put to the ground and quickly lifted in England, from the birth of the Pyramids to the end of the sixteenth century, when breeding to type, speed, etc., came in, and the old "color" scheme faded, changed and developed into the present bay, chestnut and brown, leaving scarcely pain in one or more limbs, the act of progression cases are very confusing, and require considerable a trace of the primary black and white—if,

Halter-Breaking.

Horses are not naturally vicious, and, with back between the front legs, then over the back and down under the belly, between the front legs again and up through the ring to the other end, and then tied to the halter. The halter-breaker will soon find a surprise in store for him when he leans back against the rope, as the pull comes



OLD AND NEW FARM STEADINGS MR. PATTERSON OF BRANDON DISTRICT HAS ERECTED.

STOCK

(Contributions invited. Discussions welcomed.)

Why Canadians Raise Bacon Hogs,

Our correspondent, Thos. S. Davidson, whose question that others may have in their minds; neglected to feed her. What a fool he is.' early nineties have a very vivid recollection of the advent of this demand. In those days there did not appear to be a proper distribution of food products. The country seemed to have too much of one thing and not enough of another, and as a consequence some commodities had practically no sale. One of these was fat hogs. enough to supply practically the world's demand for lard and heavy pork. They had very little hog cholera and corn was plentifiul. Fat hogs just seemed to grow up in a night in the corn states and overflow to all quarters. Canadian hog raisers were hard hit. The American packers were building up a large trade and Canadian packers could not stand the competition of cheap production and high protection, so looked for markets where the American competition was not so keen. They found them in England and found them large. But the demand in England was for lean pork, so the Canadian farmers set about producing a lean hog and the Canadian packers undertook to sell all that the farmers could produce and the prices looked fair. Those were the days before the invasion of Canada by immigrants, when the home market was of no consequence. Since then there has been a change. The home market has increased and so has the demand for lard. Practically every type of hog is wanted and the packers known Yorkshire breeder, was one of the judges and who are the immediate source of the demand do was doing the major share of the work. I was not put any particular premium upon bacon standing against the rail a few feet from Jamie, who types.

Whether there is more nutritive strength in an equal weight of ham than in bacon we cannot say, but one thing is certain—the bacon hog is not without a ham, and a variety of ham and bacon is more healthful food than either one used exclusively. The question might also be asked our correspondent, why he or anyone else should advocate the raising of the lard type of hog. Experiments in Canada with Canadian grains show that Tamworths, Yorkshires, Berkshires and their grades make more economical gains than do Duroc Jerseys, Chester Whites and Poland saw the wee bit hole in her back." I may say, howelet the present time is affected with gainst the present time is affected with their condition will allow. Steer cattle, and bulls, their condition will allow. Steer cattle, and bulls, and their condition will allow. Steer cattle, and bulls, and their condition will allow. Steer cattle, and bulls, and their condition will allow. Chinas. Why, therefore, not raise the type that makes the best gains? Of course we do not believe in going to either extreme of bacon or lard believe in going to either extreme of bacon or lard believe in going to either extreme of bacon or lard believe in going to either extreme of bacon or lard laugh over the matter afterwards when he repeated in the ribbons were handed out. Mr. Outhwaite, who not too severe, while the breeding stock must wait until the calves are dropped. The entire herd should believe in going to either extreme of bacon or lard types and when a rational average between the types and when a rational average between the a story he was fond of telling of a bartender who. types and when a rational average between the two is struck there is not so very much difference a story he was fond of telling of a bartender who, weather sets in. If this is repeated for two or three between the two types. The provided Hermitian is the structure of the struct between the two types. The main thing is to man, complained he had not been able to make a get prolificacy, good constitution, easy feeding shilling more than his wages. Wonder being constant propensities and quick growth. Our Western expressed at this, seeing he was a Yorkshireman, he stock. farmers have not for the present a very discrimin- replied: "Ah, my employer is Yorkshire, too! ating market to cater to and should devote most effort to getting quantity.

dispose of.

Showyard Strategy and Live Stock Generalship.

things more trying than the showing of his stock to and each had keen supporters. While carefully I would like to propound to you a question. Please one who has little knowledge or can scantily appreciate inspecting one of the animals the man in charge of it answer it. Who is it that makes the demand for a a good animal. Who is there among breeders who has not experienced this feeling? Your herdsman wherever they have competed." Feeling this stateNow Canadian papers as I have said before, cry bacon draws out what you consider a good specimen, one ment should not have been made and being convinced bacon. Agricultural Colleges! The college yell is go back and smoke a good-night pipe over him with a keen feeling of pleasure. Instead of any real practical interest being taken in the animal you get a criticism on the shape of the halter, or a statement that Brown former shows it had been a case of see-saw; they hands. You take the arriven, the laborer. He or Jones has just purchased a reaping machine with had often been in competition and had each scored twelve spokes in the driving wheel. On the other about an equal number of wins. twelve spokes in the driving wheel. On the other about an equal number of wins.

At the Highland Society's show it is usual in the pound hog, looks more like a meal to him. Then derived from having a judge's opinion when you cow classes for the exhibitors to send the calves again, if we run everything submit your pet subject to his inspection. It may be and it often happens that he is not a man of words, but are these needed to fill your heart with pleasure? Not at all; you watch his eye as it dwells on the good Not at all; you watch his eye as it dwells on the good showed a cow that had an awkward habit of standing for you can no meaning to bacco, to what price into the ring with the mothers. As a rule the animals will lard soar, for if the present flood of people keep of their dams. At one of the society's prectings I as, it's bound to create a demand for lard, which had an awkward habit of standing for you can no meaning the problems of the habit of pieces and the points and his hand which seems louth to be with- stretched out, which led to an indication of weakness of the habit of pie-eating class drawn from the thick skin and mossy hair with its on her loins. She had been under training soft mellow touch. If he is a keen critic you expect, with a view of making her keep her him it is under both together, and we had perhaps fairly hope, that one or two of the weak spots you have time and again carefully examined, was occupied as a steward in another section of the another question. and perhaps have seen gradually disappearing, may be show and when congratulating my man on his having offered for the

cussed to the edification of the man at the end of the shown herself well in the ring." rope, whose whole soul is in his work, and who there Johnnie lead the calf, look like a fool, and keep as far and then resolves that in the show ring "the best away from me as he could; the judges said she was side" of his animal will be shown to the judges.

largest and most important Shorthorn shows in England I stood watching the judging of a heifer class. One of the crowd around the ring said in my hearing: "If I were the owner of No. 70 I would sack the fellow who is showing her. Look at the way he lets her snuff about with her nose on the ground, contribution appears in another place, asks us a trying to get a bite of the short grass; he must have namely, "Where did the demand for bacon hogs the owner and the man on the rope, two of the best come from?" Those of us who were living in the men in the country, each in his own sphere, and I was stock-raising districts of Canada along in the quite satisfied that the man "at the wheel" was making no mistake, although by the innocent way he looked one could fancy his thoughts were in the clouds. His heifer won and afterwards congratulating him I said: "What was there in the Yorkshire grass that made the pretty lady so fond of it? With a merry twinkle in his eye, and knowing that I understood that the nose on the ground meant a strong broad level line along the back, whereas in The Americans were raising fat hogs and corn other positions there was a slight tendency to loin weakness, he replied: "Oh, just a little dust of spiced cake which fell through a hole in my jacket pocket; the wife must give it a stitch or two when I get home. I need not say that the owner of the heiter did not sack his man. No blame can be attached to a herdsack his man. man who is able to hide a weakness, and it is only a clever one who can hide a fault without making it

evident he is doing so. animal straight out from the judges—how his light, long-lashed whip is used in a matter-of fact sort of You will observe then how soon he considers he has gone far enough, and how, walking back showing a wide deep chest, he crawls to his place at a snail pace! Or watch how the performance is reversed if the strength is behind and the weakness in front. remember being much amused at a performance witnessed at a Highland Society's show in Scotland. Jamie, a well-known North Country cattleman, had a pretty roan heifer in the ring, strong in most points except her top line. John Outhwaite, the wellstood in front of his heifer with a hand on each side of her head, pressing it downwards and backwards, and thereby getting the back fairly straight. The pur pose of the pressure was a little too evident and old Mr. Outhwaite stood for some time looking at the man while poor Jamie never lifted his eyes from the animal's back, which he had manipulated to the position he had considered right. The position of When Mr. Outhwaite moved away, having the fresh grass appears in spring.

Speaking of Yorkshire brings to mind an experience I had as a judge at a show in the West Riding of that country. I acted as judge of cattle, sheep and Editor Farmer's Advocate: The question Mr. Davidson raises about offer-ing prizes at fairs we leave to fair boards to of two of the pigs. I looked long and carefully at it seems to me now is the time (seeing that hogs are

overlooked. They are, however, noticed and dis- secured the first prize I said:"The cow must have He said: "I made an uneasy beast and I put the blame on the silly I must tell a tale apropos of this. At one of our laddie that would not keep near me with the calf." ROBERT BRUCE.

Why Should Cattle Be Dipped?

Every stockman is familiar with the skin disease lled "cattle mange" or "cattle itch" (Psoroptic mange). It is caused by a small parasite which lives on the surface of the skin and which is in most respects identical with the parasite causing "sheep scab" in sheep. Its presence irritates the skin and the animal begin to rub or scratch the affected parts; this increases the irritation, sores and crusts are formed and unthriftiness sets it. The loss of flesh and subsequent loss of vitality is partly due to the incessant annoyance, but principally to the failure of the animal to provide itself with feed. hours, they remain at or near their favorite rubbing posts and gradually become so weak, that they are unable to walk any distance for feed and water. They finally get down and unless assistance comes in time, they never get up again.

Another parasite of the skin which, in many places. is of much greater importance than the former, is the cattle louse. Strange as it may seem, but few stockmen are aware to what extent their cattle are affected with lice and what an enormous loss they unknowingly suffer on account of this parasite.

Were it not for the mite causing mange, the winter Look at the herdman who knows his animal gets mortality among the range cattle would be reduced to his hocks together and perhaps spreads out his hind one-tenth of what it is at present and the enormous loss feet as he walks. See him when ask to lead the in weight and condition which every affected herd now suffers during the winter months, would be correspondingly decreased. This statement is based upon actual way, yet in a way to induce a sort of side walk. facts as observed by the writer and by prominent stockmen, who for years have dipped their cattle.

WHAT IS GAINED BY DIPPING?

As long as the grass is green and full of nutrition, it is difficult for either of the above mentioned parasites to gain any headway. It is, however, a mistake to suppose that they are not present on the cattle in summer-time, although the number of cattle affected and the number of parasites present, are very much smaller than in winter time. As a rule, however, a sufficient number survive the summer to carry the infection on to the following winter. It is a wellknown fact that the green grass will improve nearly every case of mange or lousiness, but not all of them. It requires, however, at least one month, and frequently two months, after the appearance of the reen grass in spring, before a mangy or lousy herd egins to look thrifty. This period of one or two months is practically lost in recuperation and not until about one-third of the summer is passed do the cattle begin to grow and put on flesh in excess of their weight and condition of the previous fall. It will. amie's burly figure was peculiar, to put it mildly, therefore, be seen that when free from mange cattle will while the expression of his face, indicating intense be able at least to hold their own through the winter and anxiety, was most amusing, and was evidently so to the will be in condition to put on flesh from the moment

> years, it is safe to predict that the infection will be entirely eradicated from all ranges where it is not Wonder being constantly renewed by the introduction of infected

Why Not Lard Hogs?

them, sometimes thinking of placing the one first and such a good price) for such a question. I see all the then the other. From the crowd around the ring Canadian stock journals are everlastingly hammering it was quite evident there was intense interest being on the side of the bacon hog. Well, perseverance taken in the decision and as I afterwards understood will move a mountain so it is said, but it's a big mounbets of new hats and so forth were being freely made tain that has to be removed when you preach bacon To an enthusiastic breeder of cattle there are few on the result. The pigs belonged to working men hogs to the settlers from the U.S. Now, Mr. Editor, that the one was as good as the other so far as I could determine, I said: "That being the case it is time to who want bacon, and it must be good. The class of give the other fellow a turn," and at once made the people that yell bacon are not a as rule the men that award accordingly. I afterwards learned that at do manual labor, but they who ase their heads to save bacer, to what price thool of prople keep weakless of the habit of parties were notice habit of having coi r, I will propound

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cow must have said: "I made and keep as far es said she was ne on the silly ith the calf." ERT BRUCE.

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he skin disease ch" (Psoroptic site which lives n most respects sheep scab" in and the animal ed parts; this sts are formed of flesh and y due to the o the failure of For hours and vorite rubbing that they are d and water. sistance comes

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lestion, for at hogs are see all the nammering erseverance big mouneach bacon Mr. Editor, Please nand for a king class? cry bacon ge yell is s of people e class of orer. He bacon for rom a 300 m. Then vhat price ople keep south of for lard, Yankee asing the propound

Canuks more broad-minded and why don't they offer prizes along more liberal lines? I will ing too, has its particular difficulties. A sire class, Buscot Truth taking the leading honors for Sir A Handerson, followed by Gainsford Fragrance suggest this one for instance. Suppose a prize were bred from grimals of his own or closely-allied Sir A. Henderson, followed by Gainsford Fragrance offered for the best paying sow, with her litter or two litters for the year, scouring to be left out of the tribes has comparatively few causes of variation; judging, just market value alone to be the judge, all that is, he is very potent, his capacities are pretty breeds, grades and crosses to be open; in other words sure to descend; but then, his capacities may be let the Mr. Dollar be the single judge. Of course good or bad, and as any good tendency becomes Mr. R. R. Rothwell sent her out in grand form. this may not meet the approval of the bacon hog strongly developed, so does any bad one. The Ursula Raglan won first honors for Mr. G. Harrison men, but if they have such a superior breed they number of "blue-blooded weeds" which have been in the cow class, and Towy Princess took the second Of course it could be stipulated that the sow's first litter should not be over six months old. What we must to get at is a friendly contest to find out the best ger which is sure to come unless the system is classes. The Large White breed was well represented paying hog for an average farmer. In closing, I would worked by an unerring genius. Let us take the say to the beginner, if you get good grade sows experience of Thomas Bates; he believed in his get a good purebred boar, , as good an individual own blood beyond any other man. What was the last named winning champion honors. These as you can afford, for an inferior sow only affects her his practice? Up to 1823 and 1824 he used hardly honors for females were won by Mr. R. Middleton own litter, but if your boar is inferior your whole crop any other than Duchess bulls, and it is said that saying this, for I simply raise hogs for market.

THOS. S. DAVIDSON.

Principles of Shorthorn Breeding,

In the breeding of good Shorthorns, some men have aimed at producing a good type for winning prizes; some look to breeding from a particular line of blood; some pride themselves on having a herd descended from some particular animal; some think nothing of an animal which is not red—all these ideas have led to much notoriety, and some of them to the making of a deal of possible to animals bred by men who have sucmoney, but none of them necessarily to the breed- cessfully carried out the idea at which you aim. ing of right down good, useful beasts.

Suppose a man wants to raise a sire which more or less directly is intended to produce beef cattle, the animal must have a heavy, well-fleshed blood confine your judgment to too narrow a body on short legs, a fine bone, a tendency to make the best of all the food he eats, and, beyond everything, a stout, hardy constitution. This tendency to make the best of all it eats, combined with a hardy constitution, is the great point; no straightness of back, roundness of rib, length of quarter, well-filled neck vein, general "smoothness," or redness of color, will make up for the tries to breed his own sires, let him be very sure want of a good constitution and a capacity to make much beef or milk out of little food. When an animal combines this constitution with this tendency, we may safely say that it is of a good the practice of most of the successful men of old, sort, even if it may happen to be somewhat and in the few instances in which it has been unsymmetrical. No man need look for lasting carried out in modern times its safety has been success unless he breeds from such a sort.

The power of judging of this goodness of sort they never hesitated to make a change. in a strange animal is not given to many men, though, by experience and care, most men may learn to avoid the worst kinds, and close obser- with climate and soil, but there is one general vation will soon tell everyone which are the good principle which ought to be kept in view everyand bad sorts in his own herd. A certain want where: Let your plan be as nearly as possible of symmetry need not affect the goodness of the nature's plan. Do not give unduly stimulating sort, but no man can afford to breed unsymmet- food; do not fatten at one time and starve at rical animals, and no one is likely to try, for another; do not expose unnecessarily though this prejudice or that whim has led many of climate, and do not coddle your cattle. a man to breed bad sorts, every one sees the Breeders of Shorthorns have nothing to fear so need to do what he can to keep up the desirable long as they keep utility clearly in view. Let points in the general outline of an animal. In the proof of the pudding always be in the eating. Sir P. A. Muntz. Sir Richard Cooper was first and estimating the relative value of the various points of form, a prudent man will set a high value on such as indicate a sound and vigorous constittion. Hence, the old-fashioned sneer about kitchen beef will not prevent the very highest consideraion for a well-developed fore end and a wide chest.

bound up in our herdbooks? Are we to go in for cult when so many fine animals are in question, but line breeding? Must every successive sire be of the county show and in some cases the description of the county show and in some cases the description of the county show and in some cases the description of the county show and in some cases the description of the county show and in some cases the description of the county shows and in some cases the description of the county shows and in some cases the description of the county shows and in some cases the description of the county shows and in some cases the description of the county shows and in some cases the description of the county shows and in some cases the description of the county shows and in some cases the description of the county shows and in some cases the description of the county shows and in some cases the description of the county shows and in some cases the county shows and the county shows an account shows an account shows a county sh the same tribe? Or are we, while generally standing by any county show, and in some cases the classes were equal in merit to that we shall see at the David the same tribe? Or are we, while generally equal in merit to that we shall see at the Royal. standing by some particular line of blood, to Mr. Farnsworth, Mr. F. E. Muntz, Mr. W. T. Everard allow ourselves and liberty as the confined within allow ourselves such liberty as we can find within Lord Middleton, Earl Egerton, Sir P. A. Muntz, Sir these limits, or are we to give our judgment free A. Henderson and James Forshaw & Sons were play, and take a good beast when we find one?" amongst the leading exhibitors and winners. As a matter of theory, the latter plan is, no doubt, the most defensible, but in practice it has feature of the Show. ciently well informed, it might no doubt be County only, were of most satisfactory description. serious drawbacks. If our judgment was suffiright, but that is not often the case. In the Quite a number of these entries competed successsecond generation an animal has four grand- fully in the open classes, in which the leading winners and Sir Richard Cooper taking the leading honors. parents, in the third eight, in the fourth sixteen. and in the fifth thirty-two. Everyone will admit well, Earl Manvers and Lord Middleton, Shenley that even in the fifth generation the individual but how many breeders are likely to know the white bull Meteor being first and champion; Mr. Mr. Butters. The Earl of Coventry won in the qualities of each of the thirty-two ancestors has much to do with the qualities of its descendant; individual qualities of thirty-two animals living Rothwell's Strowan Marquis 13th came in second some twenty-five or thirty years ago? Hence, a with Lord Middleton's Illustrious Count third. good sire, bred from a good sire and dam, has A class of special merit was that of heifer calves. often proved a snare, not because nature works. The compatition was very keen, Sir R. Cooper, Messrs. untually or because like does not produce like, but S. E. Dean & Sons, G. Harrison and Captain Harrison because we do not know all the elements which go being the winners.

produced of late years, since line breeding place for the same owner. became fashionable, is good evidence of the danof pigs will be affected. I have no irons in the fire by "rickety" calves compelled him to change. Be that as it may, between the years 1823 and 1838 the great bulk of his calves were from Red Rose and Princess sires; between 1836 and 1843 he fell back on the Duke of Northumberland (1940), a Duchess bull, it is true, but with a double cross of a Princess sire and a Red Rose great-grandsire. From 1843 to the time of his death his calves were principally sired by Oxford bulls, some of whose recorded pedigrees would not now entitle them to registration. He was too wise a man ling ewes in the Short-woolled classes. to be bound by his own theories.

The best plan seems to be to take the middle course-in a general way, stick as much as very hearty welcome, and the quality of the stock and, if possible, keep to animals with some blood connection. Similarity in blood is of advantage, as it reduces the tendency to sport, as botanists would say; but do not let a desire to have similar circle. When you have a good sort, do not let any prejudice or whim persuade you to part with The breeder is the best off who has a herd of sufficiently good character and enough variety of origin to enable him to keep the best of his own produce for his own use, without danger of essening constitutional vigor; but before a man that he has the right sort of stuff to work with.

This opinion is no mere theory; it expresses proved. When the men of old found that they had not what they wanted within their own herds,

The details of cattle management must vary

Aberdeen, Scotland. OLD COUNTRYMAN.

Some English Shows.

THE NOTTINGHAM COUNTY SHOW.

The Nottingham County Show was held last month at Retford. The classification provided for three The great question with most breeders is, sets of exhibitors, local, county, and open to all. It "How are we to use the mass of facts which is swith the latter classes we deal. To summarize is difficult when so many fine animals are in question but

The cattle classes, especially those open to the

Mr. C. S. Raphael. The old-bull class was a choice one, Sir R. Cooper's

as the second winner for Mr. G. Harrison.

The three-year-olds were a beautiful lot, the winner, Lady Graceful, being of specially high merit, and

There was considerable competition in the pig Messrs. D. R. Daybell, J. Tong Conningsby and W. E. Measures were the principal winners for boars, Knowles, and Messrs, W. B. Wallace and W. E. Measures were the other principal winners.

The Lincoln sheep classes formed a very important and attractive feature at this show. First honors for yealing rams and ewes went to Mr. Henry Dudding and his yearling ram is probably one of the best he has ever exhibited at this age. Mr. T. Casswell was second and third for yearling rams and second for yearling ewes—choice and typical pens in each instance Third and reserve honors went to Messrs. S. E. Dean & Sons, whose sheep are of good merit. Sir Richard Cooper won first honors for yearling rams and year-

THE WILTSHIRE COUNTY SHOW.

This show was held at Devizes, and was given a exhibited was fully satisfactory particularly those sections of it that were more or less limited to the County. The most important section was that for Hampshire Downs sheep. These came out in full force, with very keen competition. In the yearling lamb class Mr H. C. Stephens went to the fore, followed by Mr. James Flower and the Marquis of Winchester. the lamb classes, which were very good indeed, Mr. James Flower won champion honors, reserve champion honors, first for pen of three ram lambs, second for single ram lambs, and first and second for yearling rams—a notable series of successes, and one fully deserved by the merit and character. The Marquis Winchester, Mr. H. C. Stephens and Sir W. G. Pearce were the other leading winners.

The Shorthorn classes were very representative of good strains of blood. Lord Calthorpe's Elvetham Monarch was the champion bull. His Lordship, Lord Wolverton, with Messrs. J. Deane-Willis, W. Nicholson and S. Dennis, were the owners of the leading

Messrs. Pocock, J. Joicey, Mrs. McIntosh and Lady de Rothschild shared the honors in the excellent lersey classes.

THE SHROPSHIRE AND WEST MIDLAND SHOW.

The feature of this annual show, held at Shrewsbury is undoubtedly the very strong competition in the classes for Shropshire sheep. At no other show, save the Royal, is the competition anything like so keen. This year the Mansell Memorial Challenge Cup, the Blue Riband of the Shropshire contests, went to Mr. M. Williams for a beautiful and typical yearlingram. Richard Cooper's two-shear ram first in its class was reserve number for this honor. Two yearlings also owned by Sir Richard Cooper, were second and fourth in their class. The intervening third place was occupied by a fine n asculine sheep owned by second for pens of three yearling rams, pens of five yearling ewes, an honor and success few others breeders have ever attained. Mr. Victor Cavendish, M. P. was third in each of these classes. lamb classes, both for rams and ewes, Sir Richard Cooper was first again. The other leading winners in these classes were Messrs. Minton, E. Nock and the Duke of Sutherland. The competition in the local classes was very keen, and quite a number of real good sheep were found therein.

The Shire horse classes were very good, the younger classes particularly so, Mr. E. Muntz's King Forest adding still another success to his already long list of honors. Sir P. A. Muntz owned the winner in the yearling class.

Shorthorn cattle were not largely represented, but their quality, type and character left but little The light horse section was also a very attractive to be desired. Linksfield Champion, Mr. Miller's bull was first and champion. Mr. Richard Cooper took second and third in the same class for stud bulls, and led in the yearling bull class with Shenley Duke The female classes were very even, the Earl of Powys

> Protection, owned by Messrs. P. & G. Hughes, occupied the leading position in the old bull class. Samson, owned by Mr. D. A. Thomas, was first in the yearling class, followed by Viscount, owned by Mr. Tudge won with Princess Beatrice in two-yearold heifers, and Lemster Plum, a beautiful, symmetrical heifer, won first honors in the yearling class for Mr. A. E. Hughes.

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A Red Poll Gets to the Front.

At the Wisconsin Experiment Station a herd of cows are kept and their yields recorded, as is the cost of feed, etc., The list includes seven Jerseys, eight Guernseys (two grades), eight Holsteins (one grade), three Shorthorns (one grade), four Red Polls (one grade), and two Brown Swiss. Of this number thirty cows completed a year's record on May 16th, 1906, the close of the period considered in this report; complete data for the winter period from November 15th, 1905, to May 16th, 1906, are at hand for the same number of cows.

The report says: "The Red Polled cow Lady this year again leads in economic dairy production, being credited with a net profit for the year of 69.81 and the total production being 11,287.5 pounds of milk and 449.73 pounds of butterfat, equivalent to 525 pounds of butter. The value of her production, figured at twenty cents per pound for butter, and fifteen cents per hundred pounds for skim-milk, amounted to \$118.55, and the cost of the feed which she ate during the year amounted to \$48.74. This cow has made a remarkable record during her life in our herd, as will appear from earlier accounts of these investigations. During the first year with us she produced, as a four-year-old, 384 pounds of butter-fat, and her production for the succeeding years (1902-1906) has been as follows: 449, 493, 416, and 450 pounds, an average of 438 pounds of butter-fat for five years, equivalent to 511 pounds of commercial butter. While she has generally ranked first in production and in net profit among the cows in our herd, she has not been an expensive feeder. During the past year she ranked fourth in the cost of feed eaten.



(Comments upon farming operations invited.)

A "Bear" Report from the Argentine,

The Miller (British) announces that it has received a large amount of authentic evidence upon crop conditions in the Argentine and from these deduces the fact that owing to the larger area recently under cultivation, and to the heavier and better quality of the grain, the total exports will more than equal those of a year ago, and that the high quality hitherto shown will be maintained right to the end of the shipping season. Authentic reports are being used extensively by both sides of the market to affect the current prices of futures.

Option Dealing Under Discussion.

The International Agricultural Congress, which began its sittings a few days ago in Vienna, is the eighth of a series inaugurated in Paris in 1889, at the time of the Exhibition. The delegates were then unanimous in deciding upon a continuation of these meetings, so as to get together at regular intervals the most prominent men connected with agriculture of all nations, and the exchange of ideas has been very beneficial. Following upon some words of welcome short survey of the work done by former and explained the reasons which induced the selection of Vienna as their present meeting place. The Congress is divided into various sections each with its allotted task. The first section will devote itself to the economic questions, amongst which will be debated the solution of the transactions in futures. This matter is already largely discussed in the Austrian press, and has lately taken a prominent position, in view of an incident on the Vienna Corn Exchange in connection therewith. The result of the prohibition of dealing in futures in Austria has had the result of simply causing speculators, wishing to continue the business, to do it through the exchange or bourse of a neighboring state. for and against this prohibition attracted the notice of the Congress, and even if the debates on the subject do not have the desired result, no doubt certain points were raised which may eventually lead to some change with regard to this matter.

Farming from a Boy's Standpoint.

One of our contributors, Mr. A. Switzer, who farms in one of the oldest settled districts in Saskatchewan, suggests that the farm boys who are just through with school use the columns of the FARMER'S ADVOCATE to discuss what they think of farming as a life's work. The idea seems to us to be a good one, for although we are apt to think lightly of the boy who bounces around free from care, and apparently indifferent to what is before him, we also know he has his serious moments and his opinions are often seasoned by a broader experience than those of boys who grow old before their years.

Boys require to be impressed with the advantages of farm life and with the demands it makes upon their executive ability. They weed to be shown that for the man who has constructive genius and a broad capable mind there are as large fields for accomplishment as in any other pro-

fession. That though the remuneration may not able value of cultures to be found on the market be so large as in some stock brokerage or comission business or a manufacturing industry, were examined by the Bureau of Plant Industry, mission business or a manufacturing industry, still there is plenty, and the work may be made infinitely more enjoyable. There is this further advantage in farming, that although it is pursued by many clever men and many advances have and expense for nothing. been made, there is still scope for infinite progress and a field for the most subtile originality. The urban professions are inviting for the man who is fond of work and care, but they are exhausting tine Republic

in the extreme and soon sap one's vitality. The boy who has a chance to farm should avail himself of it and should endeavor to induce others to do likewise.

His Honor Judge Phippen has granted the application of the Manitoba Government to appeal its case against the Grain Exchange. The case will accordingly go to a higher court.

Artificial Cultures not a Success.

The twenty-third annual report of the Wisconsin Experiment Station contains the following testimony from the agronomist on the utility of artificial

The results which have been obtained are in accordance with those of previous years. The use of these artificial cultures for the production of nodules upon soy beans and alfalfa has not been successful, as no nodules were to be found upon the soy beans and upon the alfalfa grown from seed inoculated with artificial cultures. Unfortunately no inoculated with artificial cultures. conclusions can be drawn from the trials made on red clover and field peas with the Canadian cultures, as the soil of the trial fields proved to be well stocked with the organisms able to form nodules upon these It is asserted that the trials made in legumes. Canada with these cultures have been quite successful.

The results obtained in the trials made during the last three years with artificial cultures are in accord with those obtained by numerous experiment stations throughout the country. Maine, Oklahoma, Pennslyvania, and other stations have reported negative results

infected soil has been very successful, nodules being produced in abundance the first year. It is generally isserted that in order to have a thorough infection of the plants, large amounts of soil must be applied. thus making the process of applying it cumbersome and expensive. This objection is possibly well taken so far as alfalfa and similar crops are concerned, which are not sown in drills. In the case of soy beans and like crops, a small amount of well infected soil, when sown in direct contact with the seed, is able to thoroughly infect the plants the first year. On the experimental plot seed was sown at the rate of one-half bushel per acre and an equal amount of soil sown directly in the drill row. The abundance of nodules on all plants shows the efficiency of this

Thus, for a large number of leguminous crops, the inoculation with soil requires no more work than the writers to have much force. In the use of soil for the soil from fields that produced during the previous filly two years old brought \$555. intervals.

considerable as at the present, and when the question-fields of usefulness.

Department of Agriculture; six were found to be good three fair, two poor, and eight worthless. This would indicate that over fifty per cent. of the farmers who have used commercial cultures have had their trouble

Wheat Harvest Calendar.

January.—Australia, New Zealand, Chile, Argen-

February and March.—Upper Egypt, India. April.—Lower Egypt, India, Syria, Cyprus, Persia, Asia Minor, Mexico, Cuba.

May.—Texas, Algeria, Central Asia, China, Japan, Morocco.

June.—California, Oregon, Mississippi, Alabama, Georgia, North Carolina, South Carolina, Tennessee, Virginia, Kentucky, Kansas, Arkansas, Utah, Colorado, Missouri, Turkey, Greece, Italy, Spain, Portugal, South of France.

July.—New England, New York, Pennsylvania,

Ohio, Indiana, Michigan, Illinois, Iowa, Wisconsin, Southern Minnesota, Nebraska, Upper Canada, Roumania, Bulgaria, Austria, Hungary, South of Russia, Germany, Switzerland, South of England. August.—Central and Northern Minnesota, Dako-

Manitoba,, Lower Canada, Columbia, Belgium, Holland, Great Britain, Denmark, Poland, Central September and October.—Scotland, Sweden, Nor-

way, North of Russia. November.—Peru, South Africa December.—Burmah, New South Wales.

Dr. Hopkins Goes with the Government.

On June 15th Arthur G. Hopkins, B.Agr., D.V.M., severed his connection with the FARMER'S ADVOCATE AND HOME JOURNAL. For two and a half years Dr. Hopkins has been editor-in-chief of this paper, during which time it has widely extended its circulation, increased its advertising patronage and become established in its present modern home. journalist and agricultural authority Dr. Hopkins is known in Canada from coast to coast. His work has always been characterized by personal vigor The inoculation of alfalfa and soy beans with and conscientious conviction even to the extent of adversely criticizing his best friends. His opinions, however, have been universally respected for their honesty, fairness and unselfish objects. The FAR-MER'S ADVOCATE has benefited by them and through Dr. Hopkins' association with it.

For the present Dr. Hopkins will be associated with Dr. Rutherford, Dominion Live Stock Commissioner, in certain new work the Department is undertaking in the interests of Canadian stockraisers. His headquarters will be in Ottawa, but his work will take him to all parts of Canada and occasionally to foreign countries. The best wishes of the FARMER'S ADVOCATE go with him as do also, we are sure, those of its many readers.

Prairie Home Sale.

The 5th annual sale, which was also a dispersion use of artificial cultures, and the usual objections, viz., sale, of purebred stock at "Prairie Home," was held by the Austrian Minister for Agriculture, who opened introduction of plant diseases and weeds, which are as per advertisement on June 13th, at Crystal City, the session, M. Meline opened the Congress by giving urged against the use of soil, do not seem to the The weather was perfect and a large crowd attended. Prices were good for Clydesdales infecting purposes, care should be taken to use only average was made for Shorthorns. A Clydesdale year an abundance of nodules on a crop of the legume Shorthorns females averaged \$149 and eight bulls in question. The organisms seem to disappear from \$105. This is announced to be the last of Prairie the soil unless the legume is grown at frequent Home auction sales, but there still remain a few Shorthorns and Ayrshires to be disposed of. The The conclusions which were given in the Twenty- passing of Thos. Greenway's herd from the ranks of Second Annual Report were based upon the use of active breeders marks an epoch in the Shorthorn dried cultures. This year's trials with liquid cultures industry. Few men have contributed so largely to however, show practically the same results, and until the popularizing of Shorthorns in Western Canada artificial cultures can be made more certain and and few herds there are that do not posses representaeffective, it does not seem advisable to recommend tives of Prairie Home. The fraternity of Shorthorn their purchase for general use. Especially is this breeders tender their appreciation of Mr. Greenway's true when the expense connected with their use is so efforts in the past and join in wishing him extending



THE SHACK AND THE HOME Marking the Progress of Mr. Dockie, Let of Indian Head.

OUNDED 1866

the market three firms int Industry, nd to be good.

This would farmers who d their trouble

Chile, Argen-India. prus, Persia,

r.

China, Japan, pi, Alabama, a, Tennessee,

Utah, Color-

in, Portugal, Pennsylvania, 1, Wisconsin, per Canada, South of ry, South f England. esota, Dakooia, Belgium,

land, Central Sweden, Nor-

les.

ernment.

Agr., D.V.M., S ADVOCATE alf years Dr. this paper, d its circulaand become iome. As a Dr. Hopkins t. His work rsonal vigor he extent of His opinions, ed for their

The FARand through e associated Stock Compartment is adian stock-Ottawa, but

Canada and

est wishes of

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a dispersion , " was held rystal City 'd attended respectable Clydesdale Twenty-five eight bulls of Prairie ain a few d of. The he ranks of Shorthorn) largely to ern Canada representa-Shorthorn Greenway's

extending

More on the Weed Nuisance,

EDITOR FARMER'S ADVOCATE:

In going through different districts I have often asked the farmers what was their worst weed. It was generally mustard they were afraid of, and I have seen land so yellow with this pest that I should not care to have it to work. My own district not care to have it to work. used to be bad with blue burr, and it certainly was a nasty thing to have around, but of late years it does caterpillar attacked the burr weed. These caterpillars once in a while during the growing season to see that twenty to twenty-two dollars per acre for the seed.

There are several Mammoth clover unless grown on very thin lar

I think I am safe to say the wild oat is giving more trouble now than anything else, and as long as some of our farmers farm as they are doing, the oat will have a good chance to live. I have seen any amount of seed put in the ground full of wild oats, but I think

Bad weeds seem to travel fast. The water running all over the country in the spring I put down as the worst way of spreading them. I had myself both wild oats and mustard on land the first year it was A large average is fallowed here every year and this world are the weed inspectors appointed to see their salary though. broken. The usual way here is to disc the land in is the most general way of keeping down the weeds. the fall and plow late in the spring after the oats have Burning off the stubble is a good cleanser of weeds got well started; then sow to barley and cut as early as well as insects. Harrowing the growing crop is as possible, and this seems to rid them out pretty not general here so far, but some have experimented well. I have given them a bad check by an early a little in that line. The average harrow appears to be summer-fallow and keeping the cultivator moving too heavy for our loose soil. often after, and again by plowing early and shallow, then deep later on, but I do not care for two plowings if it can be avoided.

One hears a lot about wild oats lying for years in the land. I do not think this is so, and I have seen land that was bad with them seeded down to grass (timothy and Western rye). There was a lot of oats in the first crop of hay, some in second, and none in third. The land was then plowed as summer-fallow about seven inches deep and well worked. It yielded 24 bushels of wheat to the acre and I have seen no oats there yet.

doing the work are fed on oats of which a large per-centage are wild? The feed must be crushed and well crushed too. I like a plate crusher, as everything that goes in has got to be crushed. rollers there always seem to be some let through. Our country is very flat and there is a lot of flooding in the spring. I have seen foul seeds of all kinds lying reason there is a scarcity of bumble bees or Italians inches deep on land which the owners were doing and their hybrids. their best to keep clean and it must make one feel as if their efforts were in vain. Threshing machines also cut it for seed, is to ascertain whether it is well filled carry about a lot of dirt. I believe there is a law enforc- or not. Remember that mammoth clover is about ing them to clean out their machines, but I have never seen it carried out. Stray animals also will have to be checked and one sees fences going up everywhere. This I believe to be one of the best things a farmer can do.

Wallace Mun., Man. RICHD. J. HAMILTON.

EDITOR FARMER'S ADVOCATE:

There are a great many varieties of weeds in this district, but they are well under control and have not caused much damage to the crops except the wild oats. This weed has spread very fast over the farm in this part and is to-day the worst weed we have to deal with once it gets into the land and not attended to it will crowd out all other grains and will even crowd itself, so as to be dwarfed in growth. The seed of wild oats matures before the wheat or oats ripen and shells out. This leaves the land seeded with this weed for the next year. It will lie on the ground and not germinate until buried. But bad as this weed is, I believe it is the easiest to exterminate or I should say to keep under control. In the first place all seed should be perfectly clean of oats being sown. In the second place all feed used for feeding horses should be clean or else chopped, as many horses do not grind their feed well enough to destroy the wild oats. Thirdly, the land intended for summerfallow should first be plowed shallow two to three inches deep or randled sufficiently to cover the wild oats; then left until the seed germinates and shows through the ground. Next it should be plowed from six to seven inches deep; then cultivated by randling harrowing or shallow ploying so as to keep. randling, harrowing, or shallow plowing so as to keep the land clean. Following this system of cultivation every two or three years there will be no trouble with wild oats. There is one other weed I would like to mention. It is the Canadian thistle. This weed is hard to get rid off when it spreads over the land, but is not so hard if taken when in small patches. I have destroyed several of them on my own farm by digging the roots out with a spade and scattering them to the sun to wither and die. Be sure to go to the bottom of the roots-they are not very deep. When the patch is small, it pays to destroy them then and will not cost much. If not dealt with then they will very soon spread and damage the crops. A. SWITZER.

EDITOR FARMER'S ADVOCATE:

In regard to the most common weeds infesting this locality I can safely say that we have a little of almost all kinds, but they are being kept within bounds on almost all the farms. The wild oat is getting quite common; also the blue burr which is a fast

spreader on account of its adhesiveness. The hot weather this might occur in a week, and may not Canada thistle is to be seen in too many places, but occur for a month. Don't worry about it. There is not general year. This bull is a property of the country of the property of the country of grows, but must roll over to see all its neighbors. a barley fork. hare's ear mustard appears to be a stayer wherever be burnt without delay.

There are weed inspectors appointed to see after this will give time for the mass to decay

Seeding to grass to clean the land is becoming more common and gives good results these years when hay s in demand at paying prices. Timothy is taking the lead in grasses. Some patches of clover are being tried this year. What our country needs to-day is good farmers who will take interest in keeping their and clean and making it produce satisfactory crops. JNO. DEYELL.

Portage Show Breaks into the King Row.

The Central Manitoba Fair at Portage la Prairie is

Mammoth Clover Seed,

Mammoth clover usually fills well, the exceptions being where it is on rich bottom land or on very rich pasture with the English farmers. Only yesterday hill land, or when the season is wet, or when for some

The first thing to do, therefore, if it is proposed to or not. Remember that mammoth clover is about three weeks later in blooming than red. After it has been in bloom a week or two go into the field, take a handful of heads as they come from different sections, sit down in the shade, take a sharp pen-knife, cut corn for winter use and am going in for grasses half of each side, the cut being made so as to cut the for summer. My opinion is that manure and seeds in two. Then by pinching them with the left lots of it is absolutely necessary for grass. The hand you can count the seeds on the part that has been great trouble in dairying is the high price of If you have from thirty to forty seeds to the head and a good stand, you had better use it as a seed

Don't undertake to cut it till the heads are nicely raking reaper, do so. If not, take a binder, detach suggest that you make a specialty of concrete or the binding arrangement so as to throw the clover some substitute for it for farm houses and buildoff in gravels. Some take a mower, fasten a twelve- ings in your journal. It is my ambition to put inch board behind the cutter bar, and have a man up a concrete barn so the lumber dealers can following who rakes it up into gavels, letting it lie in keep their lumber. the gravels, until it is thoroughly dry. In exceedingly

is not general yet. Tumbling mustard is every- will be no waste to it unless it lies on the wet ground where, but is not considered among the worst weeds, long enough to allow the clover to grow up under it, its worst fault being that it will not stay where it in which case the gravels should be turned over with

When it is fit to thresh, get a huller and thresh it has got a strong foothold. It is not one of the worst direct from the field. Three bushels per acre is a to injure the crop, though stinkweed is not very fairly good crop. We have had as high as five but nasty thing to have around, but of late years it does not seem to have thriven so well and is not much seen. One thing we noticed three years ago: A hairy can easily be pulled and got rid of by watching it mammoth clover crop paid us well when we got for the seed.

Mammoth clover unless grown on very thin land and stripped it to a bare stock, and that was the last other kinds of weeds to be found here; such as, cow and mixed with timothy does not make good hay. cockle, ball mustard and shepherd purse, but none It is too coarse. Where it is not needed for hay and of these have become general. I consider our worst the intention is to grow corn next year, plow any time weeds are stinkweed, Canada thistle, blue burr and you like in September or October or November, but wild oats. They are all bad to spread by stook always plow it in the fall, and plow deep so as to teams and threshers going from one farm to another cover it sufficiently, and allow it to rot. If you plow most of the farmers are trying their best to put them should be made do. All weedy straw-piles should weather follows, you miss a corn crop from drouth. weather follows, you miss a corn crop from drouth. There is no danger, however, if plowed in the fall, as

DAIRY

English Pastures: Fodder for Cows.

EDITOR FARMER'S ADVOCATE:

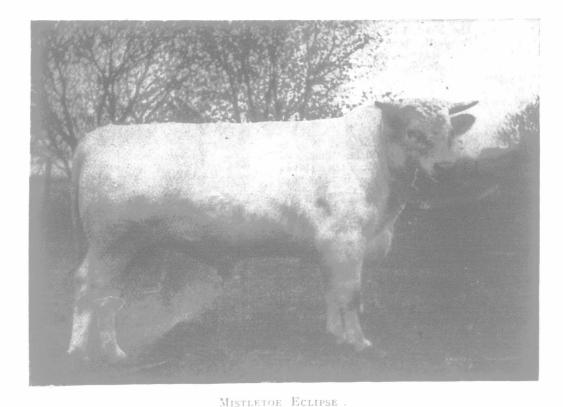
I enclose a cutting from the Chester Chronicle (Eng.) dated June 1st, 07, giving particulars of a visit of Essex farmers to the county of Chester. I thought some parts of this might interest some of your readers who have a fancy for dairying, especially the following excerpt:

'What impressed them more than anything else was the examination of an eleven-acre field of pasture land, which Mr. Young explained was a a phenomenal field owing to its remarkable But this not the only thing. What is the use of trying to kill them out of the land when the horses doing the work are fed on oats of which a large pera flock of sheep, occasionally, and then the mowing machine had to be run over it to keep the grass down.

> We in this country are simply not in it for a neighbor was saying to me she was afraid she would have to look out for new pasturage for her cows, as the section, 640 acres, she had had the use of, would be no good, as 67 additional head would have the run of this section this year, but altogether I do not suppose the whole 640 acres is carrying more than 150 head.

> I have just finished seeding 5 acres of fodder lumber, heavy prohibition and it is useless trying to keep dairy cattle without suitable shelter. Fancy \$20.50 per M for shiplap and so thin that you could snap it across your knee. I would

J. R. D. Gilbert Plains Mun. Man.



The new head of the Fairview Herd of J. G. Barron, Carberry, Man

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Making Dairy Farmers.

The "dairy special" which is touring different parts of Manitoba this week should accomplish something in the way of directing attention to the profits to be made from dairy cows and this is one of the things that the industry needs most. all parts of the West, even taking into consideration the cost of labor, for feed can be grown and a box lightly covered with burlap to confine the plentifully and the market is broad as well as bird and a box lightly covered with burlap to confine the notation that it is lightly a money maker.

Don't forget to notice which pullet stays out late at nights, for generally she too will do her share of the is that it is not pursued in a businesslike way. There is not enough wholesale enthusiasm in dairy work. Dairy farmers have not been numerous among the immigrants who have come to the West, but what expanse dairying has made in recent years has been due almost wholly to will be found necessary. the efforts of dairy farmers from foreign counthe provincial Government might well lend its under the rump, the wings and the fluff. help to the agricultural college in another way, by exerting itself to secure immigrants more particularly from the dairy districts of Minnesota, Wisconsin and Eastern Canada.

In the work that the provincial departments its roost. of agriculture are doing the public should take serious interest. They are not trying to foist a new fad upon the public, but are earnestly showing what advantages there are in dairy farming and explaining the way to success.

POULTRY

Lice in a Hen House.

Our henhouse and hens are infested with hen lice.

J. W. P.

ity, Dr. Woods. With two exceptions, each has a variefavorite part of the fowl's body which it inhabits in sizes. preference to other parts, but all these varieties look more or less alike to the average poultry-keeper. Contrary to popular opinion, they do not suck the blood of their victims. Their mouths are made for biting and che wing feathers and the scales of the skin. as scaly leg. To get rid of these pests keep the They are a source of much irritation by their constant poultry-houses clean and wholesome, and use liquid running about and scratching the skin with their lice-killers frequently about the roosts and droppingsharp claws. If present in considerable numbers, boards. they may so worry and irritate the bird as to cause It is considered probable, also, that they variety of lice is the down feathers immediately several times, at intervals of two or three days, until no frost since the plants came into bloom and ness as to result in indifferrent or improper intercourse, pings will usually cure a severe case. Another good the fullest profusion. The Buchanan orchard, the consequence being infertile eggs. In young remedy is to use an ointment made by mixing a and the orchard at the "Hermitage," both out chicks they cause dumpishness, drooping wings, remedy is to use an ointment made by mixing a and the distribution of coal oil with a cupful of lard, applying near Headingly, are the resorts we visit to observe indifference to food, and, if very numerous, may stunt that every adult fowl is more or less lousy, and it is a good plan to treat all with suspicion, as lice may be troublesome when least suspected. Examine carefully feathers about the head, look under the large wing feathers next the shaft, then turn the fowl up quickly and examine the feathers and skin beneath the vent. If quick enough, you will probably find them on every fowl examined. The presence of one or two need not cause any alarm, but if a large number are found, means should be taken to get rid of

PREVENTION.

One of the best means of keeping this pest down is the dust bath. The dust bath should be "dust" in name only. Fowls will wallow and dust themsleves more often and to better advantage if they are provided with a wallow of soft, easily friable, slightly damp earth. This should be provided for them out of doors in some sheltered spot in the summer time, and in one corner of the house in winter. When fowls are exercising freely and seem to frequent th dust baths, or wallow and enjoy themselves therein at frequent intervals, there will seldom be a dangerous number of lice present.

TREATMENT.

h a good lice powder that contain of tobacco dust is an effecrmin, but it is too tedius to be use I when r are to be treated. means of fighting lice, and is easily used.

h as follows: Add one half an o mee of ninety carbolic acid to a peck of freshly air-slaked h ! dir thoroughly; or, take sifted coal ashes, one k, four

worked into the feathers, down to the skin, if they are all of them. to be efficacious, and it will be necessary to dust regularly at weekly intervals for at least three dustings in order to get rid of the successive crops of lice.

plentifully and the market is broad as well as bird and partially prevent the escape of the fumes of high. One of the great drawbacks to dairying the lice-killer, at the same time allowing sufficient air for the fowl to breathe. As the nits or eggs of lice time as hatch in about a week after they are laid, and as lice in early mature in from one to two weeks, one treatment with the lice killer will not be sufficient to get rid of them, since the young lice will be newly hatched every few Don't think when harvest time comes if your since the young lice will be newly hatched every few days and several treatments given at weekly intervals

Another authority recommends the use of mertries. These people understand their business curial (blue) ointment, a portion about the size of a and are making well out of it, so well in fact that barley corn divided into three or four parts, placed the provincial Government might well lend its under the rump, the wings and the fluff. Yet another treatment is the use of insect powder. In the evening the fowl is quietly taken from the roost and held by the legs, head downward, when a few pinches of insect powder are thrown under the wings and rump, on the back and head, and the bird quietly replaced upon

MITES.

There are several varieties of tiny blood-sucking mites to be found in carelessly-kept poultry houses. They are white or greyish in color, except when filled with blood, when they vary from red to black. They will attack sitting hens, frequently worry hens so much as to drive them from their nests, and kill young chicks. When mites are discovered, vigorous means should be adopted to get rid of them.

Treatment.—The fowls should be treated with a liquid lice killer and removed to other quarters. The poultry-house should be subjected to a thorough cleaning and the free use of some good disinfectant or lice-killing fluid. In some cases it will be found necessary to fumigate the house thoroughly with burning sulphur. Liquid lice-killers should be Will you kindly give a name or recipe of any mixture freely used on the dropping-boards and roosting poles. bushels of potatoes over winter that would rid us of the horrible pests? Thanking Even if you are positive there are no mites in your on the market in the spring. poultry house, it is a wise plan to inspect the roosts make sure that they have not invaded the premises, There are two classes of external parasites of as they are frequently brought into the poultry-house poultry, lice and mites. Of lice alone there are nine by wild-birds, like sparrows, or may be brought in in varieties attacking poultry, according to one author-litter material or by rats or mice. There are several a man who stored a large crop in the bank of a With two exceptions, each has a varieties of these blood-sucking mites, of various ravine and covered this pit over with a straw

THE SCALY LEG MITE.

Their mouths are made for leg mite, which produces the unsightly disease known experience with storing in pits we would be glad

To cure scaly leg, one of the best means is to make

good ounces of any good light liquid lice-killer, mix it freely. There are a number of insects which thoroughly, and then add tobacco dust bulk for bulk. affect poultry, not so common as the foregoing, but In using dusting powders, they must be thoroughly the remedies advised will be found effective in treating

More "Don'ts" for the Poultry Raiser,

Don't forget to take notice which pullet is roving Liquid lice-killer may be used on the roosts and out from the hen house early in the morning; she is

Don't forget to get your fowl house ready ahead of time as your pullets will lay better this winter if moved Don't forget when looking it over to provide lots

young chicks wander into the wheat field that they are eating their heads off. The chances are they will

be eating a good many dollars into your pocket.

Don't forget that a mature pullet when snow comes is the one that is ready and able to lay if you give her a chance.

Don't forget when buying that Shorthorn heifer or brown Clyde filly that your wife might appreciate a trio of Barred Rocks or Buff Orpingtons, and buy them good Don't think for a minute that there is no science in

breeding good fowl. Try raising a prize winner for the winter fair, and see. Don't be above going to your neighbor who makes

his hens pay a good profit and get a few pointers. Be care ful and take care of the things of small value (the hens)

H. E. WABY.

Horticulture and Forestry

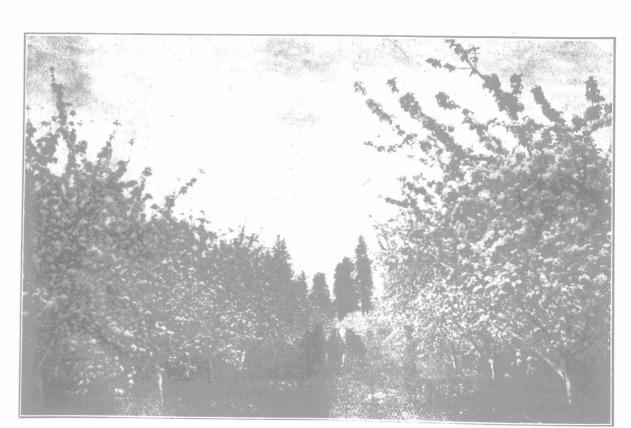
Storing Potatoes.

A correspondent in Manitoba asks for suggestions on how to arrange to store some 10,000 bushels of potatoes over winter so as to put them

and dropping-boards carefully at regular intervals to little experience and would like to hear from This is a matter with which we have had very those who have stored potatoes how they manage with them. A year or two ago we met in with stack, but the place proved too warm and the potatoes did not keep well. To build a cellar A very troublesome enemy to poultry is the scaly-an expense and if any of our readers have had large enough to hold that amount would be quite to know how they cover them.

Fruit Prospects in the Red River Valley.

It would be hard to conceive of more favorable carry infectious matter from sick fowls to well ones, a saturated solution of naphthalene flakes in kerosene weather for the setting of fruit bloom than we The favorite seat of attack of the most common (coal oil), and dip the fowl's legs in the solution have had the past few weeks. There has been they may cause so much sore- the crusts are all easily moved. Three or four dip- bushes, canes, vines and trees have flowered in



G. PATON'S APPLE ORCHARD IN BLOOM NEAR ARDEST OF CORNAGAN VALLEY, B.C.

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insects which foregoing, but tive in treating

Raiser. pullet is roving

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ready ahead of inter if moved

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to lay if you orthorn heifer tht appreciate

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E. WABY.

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ve had very hear from hey manage met in with e bank of a ith a straw rm and the ild a cellar ald be quite s have had uld be glad

Valley.

e favorable m than we e has been bloom and flowered in n orchard, both out to observe

the prospects for fruit, and in both these planthese pla of a full crop. Currants, gooseberries, rasp- account is set at \$27,000,000. berries, strawberries are all setting and at Buchanan's St. Charles' nurseries, some 400 trees of apple, plum, and cherry give every pros- decree. The dissolution is the result of the refusal pect of fruiting. Several seedlings of apples and of that body to permit the arrest of certain of its plums which may produce something of value members on a charge of conspiracy. The demand in this climate are among the tree fruits that was made by Premier Stolypin. The new Duma are in full bloom.

FIELD NOTES

Events of the Week.

CANADIAN

In spite of the \$500 head tax sixty-six Chinamen entered Canada by way of Vancouver last month.

Prince Fushimi of Japan while at Gleichen, Alta., presented the chief of the Blackfeet Indians who surrounded his car with a gift of one hundred dollars.

Floods on the Saskatchewan River swept away thousands of logs belonging to Edmonton lumber companies.

The experiment of raising oysters in the waters surrounding Vancouver Island is being tried. The oyster eggs were brought from the coast of Connecticut and Massachusetts.



ARTHUR S. GIBSON, Ruddington, Nottingham, England. Who is to Judge Clydesdales. Shires, and Shorthorns at Winnipeg Industrial Exhibition.

Two coaches and a dining-car were blown from the track near Francis, Sask., in a terrific windstorm on the 16th. Eleven people were injured, but none

Bush fires in New Ontario are doing an immense amount of damage. Trains have been delayed by the burning of bridges, and construction camps have been wiped out.

Sir Robert Bond, Premier of Newfoundland, who has been in England at the Imperial Conference, has returned to the Island. He has tried during and since the Conference to have the Newfoundland fisheries dispute submitted to arbitration, and suggests the Hague Tribunal.

BRITISH AND FOREIGN.

The United States has asked the consent of Great Britain to put another warship on the Great Lakes for training purposes.

Premier Botha of the Transvaal announced in Parliament that the Government intended to send home all Chinese miners as soon as their contracts expired and to secure Kaffirs in their places. Mineowners fear that the Kaffirs' lack of energy will make them poor substitutes.

President Roosevelt, through Secretary Root, has notified the Chinese minister that, with the approval of Congress the United States would voluntarily relinquish all claims to the indemnity resulting from

The Russian Duma has been dissolved by imperial will meet November 14th of this year, and members of it will be chosen under the new election law, which provides against the "submergence of the educated classes by the uneducated masses.

Narbonne, France, the center of the wine-growing district, has been the scene of bloodshed and rioting. The strikers guarding the home of their leader, the mayor of the town, were scattered by troops and the mayor arrested. Then the mob became disorderly, a secret police agent was lynched and policemen were clubbed. The soldiers were forced to fire on the crowd and several were killed and wounded.

The second Peace Conference opened at the Hague, Holland, on the morning of June 15th. After the speech of welcome by the Netherlands foreign minister, Monsieur Nelidoff, head of the Russian delements of boys under sixteen competing was gation, was unanimously chosen president of the Conference. His opening speech shows clearly that Russia stands opposed to the discussion of disarmament, a condition deemed unattainable and like a "star floating far above this mundane sphere." Germany and Austria agree with Russia, but Great Britain and United States are dissatisfied at the attempt to shut out the discussion of this subject. There are two hundred and thirty-nine envoys, representing forty-seven powers. The present position on the chief matters for discussion stands about as follows: First, unfavorable or indecisive, action on limiting armaments; second, moderately favorable, action on extending arbitration; third, favorable, revision of rules of warfare; fourth, discussion and possibly conservative action on the Drago doctrine value \$10, B. George, Springfield, 83½ points; second prize value \$10, B. George, Springfield, 70 points; 3rd prize, value \$10, B. George, Springfield, 70 points; 3rd prize, value \$10, B. George, Springfield, 70 points; 3rd prize, value \$10, B. George, Springfield, 70 points; 3rd prize, value \$10, B. George, Springfield, 70 points; 3rd prize, value \$10, B. George, Springfield, 70 points; 3rd prize, value \$10, B. George, Springfield, 70 points; 3rd prize, value \$10, B. George, Springfield, 80 points; 3rd prize, value \$10, B. Geor in a modified form.

school examinations held in April last.

First class—H. McM. Allan, M. I. Burgess, A. Class 4, Gang and Sulky plows.—Ist Grierson, C. B. McGregor, M. I. McBeath, J. I. Man-thorne; E. E. O'Brien, J. A. Speers, F. E. Wilson.

Second class—L. D. Adams, E. A. Austin, J. S. Scond class—L. D. Adams, E. A. Austin, J. S. Studholm, Springfield, 80 points.

Class 5, Championship, open to all.—Ist Studholm, Springfield, 87 prize, value \$9, J. Hoddinott, Bird's Hill Browning, O. Belisle, C. G. Bible, W. F. Bowlen, M. Sroyning, M. Cummings, M. Cum Browning, O. Belisle, C. G. Bible, W. F. Bowlen, M. E. Chambers, B. I. Clark, M. Cummings, M. Cummings, W. A. Carefoot, J. H. Carefoot, A. Carmichael, G. S. Clancy, G. Clark, R. G. Goglon, I. Daly, M. M. Dodds, A. Dalziel, Geo. Duguid, A. C. Fisher, D. M. Fisher, M. B. Evans, E. J. Grant, L. E. Glover, A. Gordon, J. D. Gratton, A. A. Gray, B. A. Hardy, E. M. E. Huckell, H. R. Hurd, O. A. Hoover, L. E. M. Lobb, V. B. Lackey, J. H. Lumsden, W. W. King, E. Moorehead, G. L. Mowbray, C. G. McGlarty, H. S. McColl, I. Northwood, F. L. Neilly, M. P. Park, I. Pentland, A. Purdon, A. K. Robertson, H. Sibley, H. I. Smith, F. A. Smith, A. E. Sturgeon, L. R. Tompkins, H. E. Ward, I. Wilson, and S. Dever.

A Change at the Coast.

stock branch in the Pacific province has severed his Atlantic ocean was the northwestern part of the Connection therewith and accepted the position of commissioner of Stock and Dairying under the local Government. The Live Stock Commissioner for Canada at least seems to be consistent in his determining that the province and the province of the prov mining that the provinces should not receive aid from drawn to a much smaller scale.

the principle laid down to the prairie provinces' stock-men that their subsidized cattle sales must not be confined to province stuff.

A Successful Plowing Match.

Birds' Hill Farmers' Institute held its annual plowing match on the 20th as per arrangements. The match was one of the most successful of its kind yet held, and the work done stands favorable comwith that in other plowing competitions. In all there were sixteen contestants and the judging was done by Principal Black, M.A.C., and Jas. Yule, manager of the Van Horne farm at Selkirk. After the judging Principal Black addressed those assembled. He commended the enterprise of the institute in conducting these annual competitions and expressed the opinion that a good plowing match was more benefit to a community than an indifferent

The committee and the secretary, Mr. Gorham, worked hard to make the match a success, but were somewhat disappointed in not having outside competition. Such matches really should attract plow-

The number of boys under sixteen competing was also disappointing. One gang plower, A. Studholm, had the field to himself, but his work was exceptionally well executed, his lead team being well trained for their work and got the prize for the best plow team. The highest score of the day was made by A. Henderson in the championship class.

The awards were as follows:

Class 1, Boys 16 and under.—1st prize value \$8, A. Hamblin, Bird's Hill, 65 points; 2nd prize, value \$6, S. Chudleigh, Bird's Hill, 60 points.

Class 3.—Men 21 and over, 1st prize value \$12, Regina Normal Exams.

J. E. Franks, Springfield, 76½ points; 2nd prize, value \$10, H. Bushel, Bird's Hill, 75 points; 3rd prize, value \$8, J. Mitchie, Dugald, 73 points; 4th prize, value \$6, W. Grant, Springfield, 70 points; B. Ibister, 68½ points.

Class 4, Gang and Sulky plows.—Ist prize value

Class 5, Championship, open to all.—1st prize, value \$12, J. A. Henderson, Springfield, 87 points; 2nd prize, value \$9, J. Hoddinott, Bird's Hill, 83 points; 3rd prize, value \$6, E. Garven, Bird's Hill, 79½ points. Special prize, for the best plow team. -\$3, A. Studholm.

Special prize, for the best groomed team. -\$2, J. A.

Henderson. The ladies of the community as usual made the match a most most pleasant social function by their presence and the comforts they provided.

Secession Threatened in New Ontario.

In the geographies of our youth the map of Ontario never appeared entire. A double page illustration of that portion of the province lying south and east of Sault Ste. Marie was always A change has taken place in the Government shown drawn to a scale of about five hundred agricultural work in British Columbia. F. M. Logan miles to the inch, while down in the lower right who for two years has represented the Dominion live hand corner in a hollow obligingly left by the



A Hog Yard on the Farm of S. Clark, Rounthwaite, Man. · In 1906 Mr. Clark sold \$11,000 worth of cattle.

The new geographies have altered all that on has been estimated by a reliable authority at sonally visiting the homes of some of these young the maps, but no alterations have been made in \$150,000; the minds of the majority of Canadians. New Ontario, as that slighted district is now called, has uniformly followed the system of collecting has earned the right to appear life size on any revenue out of the resources of the districts, and map representing the divisions of Canada. Her has never made any return for the same; settlers—sturdy, energetic, persevering pioneer stock—have won it; her natural resources of has shown that it is not in touch with the needs of the college. forest lake and mine have won it; and now she of the districts, as the mining, timber, and all

is preparing to take her rightful place. estimated to be something over 150,000. These men and women have discovered the capabilities themselves; logs floating down to the great lumber mills. ductive black clay loam, and other areas are adapted to pasturing and stockraising.

But people are leaving New Ontario. Family after family has gone west. In spite of the natural advantages there is not the prosperity there should be, because of the lack of facilities for transportation. In plain English, there are no roads, and the Ontario Government does not seem to be in any haste to provide them. Villages and settlements are almost entirely cut off from one another, mere trails leading from town to town and these in bad weather are impassable.

The failure of the provincial Government to ascertain the feelings of the people in the matter. provide sufficient facilities for commerce in New Ontario has caused much discontent and the more radical among the settlers have decided that the only remedy for their ills is secession and the formation of a new province. Meetirgs have been held at Emo and Rainy River in must not only be the leader in higher education, but which the wisest and most influential citizens took part and agreed to continue the agitation for reform or secession. The resolutions passed at the meeting in Emo are as follows:

ing districts: Nipissing, Algoma, Manitoulin, Thunder Bay, Rainy River, and that part of Ontario lying north and west of the French River, if that part of Keewatin east of the boundary of Manitoba be included, is sufficient in area to form a new Province, as it has an area of 632,815 square miles, one-sixth the area of Canada, and larger than the combined area of Alberta and Agricultural University, says Saskatchewan, and twelve times the combined area of Nova Scotia, New Brunswick and Prince Edward Island:

And Whereas, The population, estimated at 158,940, is sufficient, for when Manitoba was created its population was only 25.228, and lines. British Columbia was only 36,247, and Alberta 79,199, and Saskatchewan 89,741;

And Whereas, New Ontario would be rich margin for the development of the Province, as its revenue from timber, mineral and agriultural lands is at least \$1,250,000, and the Dominion subsidy would be \$1,000,000, making a total of \$2,250,000. The cost of legislation

And Whereas, The Legislature of Old Ontario

legislation relating to the districts is so uniformly The present population of New Ontario is bad, that confidence can never be restored until

bath Old Ontario and Manitoba will be ready The soil in many sections is a particularly pro- and anxious to facilitate in every way the formation of the new Province;

Therefore, It is resolved that a committee be River and endeavor to ascertain their opinion concerning the advisability of seceding from Old Ontario and of forming a new Province, and in city in each district, with the object of appointing experiments were outlined, such as the effect of root a board or committee to arrange to have a ple- pruning, counting the number of barren stalks, time biscite taken of the above-named districts, to of pollenization, etc.

Making a Farmer of the Boy.

That the agricultural college in our western country has a great work ahead of it no one will deny. from it should emanate the spirit of enthusiasm which will tend to inspire the rural youth with a desire for study, investigation and education. Not one per cent. of our country children will ever go to the agricultural college—that is under present conditions, Whereas, New Ontario, comprising the follow- and the other ninety-nine per cent. must be reached by other methods. In this work the United States is taking a foremost part. They have what is termed "Agricultural Extension work," which broadly defined means bringing the college to the farm and the girls as well as the boys, making a special study helping to the helping to the helping to the college to the farm and the girls as well as the boys, making a special study helping to build up, to strengthen and brighten the work of the boys and girls an the farm homes of

touch with the largest number of young persons them up both with literature and personal letters. ossible living on Illinois farms, and inducing as many of agriculture and the young people of the state, in and letters sent and received.

the way of encouraging the boys and girls to avail We attend a number of institutes in the state and very great encouragement toward higher education have

We have adopted the following leading features: First.—Personal correspondence.

Third.—Young people's experimental clubs. Fourth.—Excursion parties to visit the university. We have a growing list of the names of several thousand boys and girls. These names have been And Whereas, The Legislature of Old Ontario received largely through the co-operation of friends This furnishes a good working list upon which to base our efforts as indicated above First, by personal correspondence, because it is an event in a boy's or girl's life to get a personal letter from someone who desires to help them become the citizens of New Ontario can legislate for better and more useful citizens. We each recall how a few words of encouragement and sympathy helped And Whereas, The formation of the new Pro- us in early days, and we endeavor to put this spirit cobalt, silver, copper and even gold. There are miles of forest and every stream is full of loss floating down to have the spirit and the condition of some of the leading men in a county. encourage him to organize these young people into so-called "young people's experimental clubs." A number of clubs have been organized in this way ranging in membership from thirty to three hundred. appointed to communicate with the various cities, We supply these experimental club workers with towns and municipalities throughout the districts helpful literature. This year much interest was of Ontario lying north and west of the French taken in the cultivation of Indian corn. Many institutes have offered prizes for the best corn raised by young people under eighteen years of age. Co-operating with the work of the institutes, we sent these young people leaflets containing information as to the the event of their being in favor of the same, to cultivation of corn, and furnished a record blank upon endeavor to have meetings called at a convenient which they reported to us. In addition some simple

> Early in the summer we sent out a suggestive form for a weather chart and information as to how to make a simple rain-gauge. The circular also contained a number of suggestive methods of observation work to be taken up during vacation. Its aim was to make the boys and girls observe the every-day things; to find untold pleasure in undiscovered beauties of nature, as well as to give closer attention to farming problems. When we sent out a circular asking for data as regards farm machinery which had been left exposed to the rain and sun, several reports came in filled out and with this kind of a foot-note: "When your blank came we had a plow or a hay-rake out in the field, but it is now sheltered." These boys had evidently been awakened to new facts.

of what pure air and proper ventilation mean to the home and dwelling-rooms. Our idea is to make it a America. In referring to this work F. H. Rankin, personal matter in this work with the boys and girls who has charge of juvenile institute work in Illinois and to get into closer touch with as many as we can and study their needs and inclinations; in the main, The work of this department has in view the we are trying to use rifle instead of shot-gun methods, bringing of the educational forces of the college in and get directly after the boys and girls, and follow

We keep a card index system, entering the name of of them as we can to avail themselves of the advant- each young person; his post office and county; whatages of higher education in agricultural and other ever he is specially interested in; number of brothers In the broad sense of the term, this work is a and sisters he has; their age; occupation of parents; go-between for the department work of the colleges size of farm they live upon; record of literature sent;

enough to be self-supporting and leave large themselves of the training which the state courses if going to a meeting for instance in Adams county, afford. We feel that this is rendered necessary from we will, a couple of weeks before the meeting, send letters the fact that the young people of the farm have no to all the young people in that county whose names we the college will be present at the meeting; then draw their attention in a personal manner to that special Second.—Attending farmer's institutes and per- feature of the program in which we know from the



ON PUBLIC GRAZING GROUND NEAR EDMONTON, ALTA.

hese young

lubs. university

s of several have been n of friends working list ated above ase it is an sonal letter em become a recall how athy helped t this spirit nterest and n a county, hools, and people into clubs." A n this way ee hundred rkers with iterest was orn. Many corn raised of age. Co-re sent these on as to the

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restive form to how to r also conobservation Its aim was every-day ndiscovered er attention t a circular nery which sun, several ; kind of a da plow or sheltered.' o new facts. ntended for pecial study nean to the make it a ys and girls y as we can 1 the main, in methods, and follow 1 letters. he name of inty; whatof brothers

e state and ms county, send letters e names we sentative of then draw hat special w from the

of parents;

ature sent;

cards they are especially interested. Then upon going to the meeting with these cards in our pocket, we can study out and know the names and something in detail of the particular young people we are going to meet. Such is in brief, an outline of the nature of the work we are doing in the way of agricultural college extension.

Briefly, the results are as follows:
First.—An interest in agriculture is awakened early in life, as most of these people are but twelve to fourteen years of age.

Second.—An increased number of students in the college of agriculture, seventy-five more having registered this year than did a year ago.

Third.—Better preparation for these students. Fourth.—A more general appreciation among young people on the farm of the advantages of higher education in all lines, resulting in an increased attendance in all courses.

Fifth.—A wider and more intelligent conception of what the college of agriculture is doing and of its

Much of this work is of such a nature that its results cannot be tabulated or expressed in words and figures. It has already given fruit along the lines above mentioned, and the belief is cherished that what has been accomplished is but a fraction of what is bound to follow as the cumulative effect of this line of work. We believe there is certainly a field for this kind of work, and the good results of this direct personal effort are bound to be felt in quickening the aspirations of boys and girls. We are endeavoring to carry the thought of culture and higher education into the farm homes and to give these young people a glimpse of all the great things that agricultural prosperity means, and cause them to seek out and inquire more earnestly for those things which will contribute most effectually and most directly to agricultural prosperity. We endeavor to bring no spirit of bigotry or partizanship into this work. We believe that every young person should follow the lead of his inclinations and adaptability. Every farm boy is no more fitted to become a farm boy than every boy who is born near a corner drug store is fitted to become a druggist; but we believe in encouraging young men who expect to farm to be good farmers and to fit themselves for their business, just as you would encourage their brothers who take up professional life. Thus shall be developed a class of men true and tolerant and useful in the home and potential in public affairs.

This may seem, and is doubtless, a tremendous effort to reach the people of the state of Illinois. But results count in the end. Personal letters, direct touch, inspire confidence, beget enthusiasm and do work for the nation and the country. Results cannot always be traced—discouraging features must be met, but after all somewhere, somehow, the work and effort will be woven in the warp and woof of the nation's life. Our own Western Agricultural College is beginning work of a similar nature. It must be broad and thorough. It will require money and men and work, but next to the development of our men must come the development of agriculture, for only in that way can we hope to become nationally great.

The Culture of Agriculture.

The following sentiments by a correspondent of Deloraine preaching of advanced educationists in Canada that Shoal Lake

we give them prominence on this page. Agriculture should be taught in the schools, not Manitou only because it is practical a subject, but because it Hamiota is a cultural subject as well. When properly classi- Holland fied, the foundation factors in agriculture are as strongly educational as those of reading, arithmetic and grammar. There is just as much knowledge, just as much thought, just as much inspiration, from a study of soils, of plants and of animals as there is in a study of foreign rivers, countries and foreign activities. What makes education so distasteful to so many boys and girls is the fact that it is altogether out of the limit of their experience and knowledge. I have no objection to my boy and girl knowing something of King Charles and King Henry, but I want them to know something about "King Corn" and "King Cotton" as well. I am willing they should know something of laws of the ancient dead, but I am also determined that they should know something of the laws that underlie plant and animal growth Personally, I believe that clover and alfalfa roots are just as divine as Greek and Latin roots, and that the old hen is more worthy of study than some of the

wicked men of destroyed nations. Sound sense, and right to the point. On top of that, read these abridged lines from the concluding para-

graphs: Agriculture in the school will fit the boys and girls on the farm not only to an understanding of the dignity of their own environment, but it will put into their hands the trained tools for unqualified success. And then with the same idea of broadening, let agriculture be taught to all boys and girls, without regard to vocation in life—the lawyer's, the doctor's, the minister's and the merchant's. The city man and the city weman are interested in the soil, for they have the lawn and often the garden. They are interested in grass, for it clothes their lawn; they are interested in the fruits of the field, for from them hey are fed; they are interested in the animals on the arm, for from them they receive much of their food nd much of their pleasure.

A Crop Estimate,

Frank Fowler, secretary of the Grain Dealers' Association, has written the Trade and Commerce Department giving a statement of the acreage under crop in Manitoba, Saskatchewan and Alberta for the present season, compared with 1906. It is as follows:

, Feeder		Acreage		
7171	1906.			
Wheat	5,013,444			
Oats		2,373,030		
Barley	0.10	0.00		
rida	93,795	105,050		

at country points, 920,000 in transit, 1,142,000 crop was exceptionally large. Good growing weather shipped by the G. N. R., and 300,000 marketed at for the past few weeks has made buyers hesitate, Winnipeg. Then there are in farmers' hands to but we are still a long way from harvest.

market 5,300,000, for country mills 0,000,000, and There is some surprise at the supplies that have

to be quite favorable with good growth, although the wheat is about two weeks late.

Things to Remember.

Shorthorn Sale, A. & G. Mutch, Regina Exhibition Grounds......June 26
Blyth Plowing Match.....July 26
Calgary ExhibitionJuly 9, 10, 11 and 12
Portage la Prairie Exhibition. July 9, 10, and 11 Hackney Sale, Rawlinson Bros., Cal-

Killarney July 30, August 2

MANITOBA SUMMER AMD FALL SHOWS. Glenboro Springfield Wawanesa ... Miami Birtle July 8 and 9 increase in rainfall the spring wheat crop will prove Elkhorn July 9 very short. Prices are 1 Hard 88\frac{3}{4}c, 1 Nor. 87\frac{3}{4}c, 2 Minnedosa July 9, 10 and 11 Nor. 84\frac{3}{4}c, 3 Nor. 82c, spot or en route, and futures are St. Pierre July 10 July 11 and 0ctober 91\frac{3}{4}c. August 89\frac{1}{4}c, September 90\frac{3}{4}c Cyrden July 11 and 12 Fort William and Port Arthur." Emerson.... July 29 and 30July 29 and 30 Souris Hartney .August 1 Oak Lake..... Swan Lake.... .August Dauphin Aug. 6 .August 6 Gladstone August 6 Strathclair .August 6 Melita .. .August Oak River August ..Aug. Roissevain .August 8 ..August 8 Swan River August 8 and 9 August 9 .August 9

ALBERTA FAIRS. July 1-2-3-4 Edmonton.. July 4 and 5 Innislail , dry 9-10-11-12 Calgary July 16 and 17 July 18 and 19 High River July. 22 and 23 Red DeerJuly 24 Strathe naJuly 26 Fort Ciskatchewan... .. July 31, Aug. 1-2 Macleod July 31, Aug. 1–2
Lethbridge Aug. 6, 7 and 8 ..Aug. 8 and 9 Leduc

SASKATCHEWAN FAIRS.
BattlefordJuly 24, 25 and 26
Hanley July 30
Prince Albert August 1 and 2
SaskatoonAugust 6, 7 and 8
Rosthern August 8 and 9
Indian Head August 13 and 14
Ft. Qu'AppelleJuly 31
August 2
Sintaluta
Moosomin
Grenfell August 8 August 9 August 9
Fairmede August 13 August 14
Wolseley
Voelston ully 9 and 10
Salt coats July 23
Churchhridge July 25
Dubug
Strassburg July 30
Absenthy
Cortula
A-cola
Coinchoro August 9
Regina July 30, 31 and August 1 and 2
Acguia

MARKETS

All eyes are upon the country now and will remain there pretty well on into the fall. The prospects for per cent. increase in oats, nineteen per cent. in barley, ooo on June 1st, 1906, and an increase of 54,540,000 and twelve per cent. in flax.

Of the 1906 crop there were 55,230,000 bushels of prices level, but on the other hand the prospects for wheat inspected to date, 11,500,000 bushels in store a short crop this year are not good and the 1906

for seed 9,000,000, making a grand total of 92,352,000 bushels. There are oats in farmers' hands to market amounting to 600,000 bushels; barley to market 160,000.

The reports show the condition of the growing crop

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The report

Harvest and threshing have begun in Texas and will extend northward each week. The Texas crop is light and further reports from Kansas indicate that owing to the green bug and the adverse weather the total output of that state will not be more than half an average crop

The nervous condition reported in our last week's summary somewhat abated later and a slight recovery was made, the greatest advance being on October,

July 24 conditions in the Winnipeg market as follows: Winnipeg Exhibition. ... July 13 to 20

Gash demand is poor, for while prices are trailing around an export basis the demand is not such as to Regina Exhibition. July 30, August 2

Killarney. ... July 30, August 2

Fort William are large and money to carry wheat is Killarney. ... July 30, August 2 tight, holders are unwilling to make concessions in price for the sake of working. They are encouraged in this by the large shortage in the prospect of this July 3 and 4 year's crop in the United States and Europe, and also

July 3 and 4 by the doubtful prospect for our own spring wheat July 3 and 4 crop owing to lack of sufficient rainfall. Over a large July 3 and 4 part of the country complaint is now common that July 4 and 5 crops are needing moisture badly. Elsewhere thun-July 6 der showers have been giving temporary relief, but July 8 and 9 unless we very soon have a general and liberal

PRODUCE (WHOLESALE PRICES)

PRODUCE (WHOLESALE I	KIL	CJ) .	
Oats:	4 I			4 I
Barley	54			54
Flax	32		I	32
Bran, net per ton	00			
Shorts18	00	(1)	19	00
Chopped feeds, barley and oats24	00			
Barley22	00	*		
Oats27	00			
HAY, per ton (case on track,				
Winnipeg)17	00	(a)	18	00
Loose loads18	00	(a)	19	00
POTATOES, in cars or small lots, less				
freight, track Winnipeg	70	(0)		85
Butter—				
Fancy, fresh made bricks	24	(1)		25
Dairy, extra fancy	22			
Prints, fancy in small lots	20	(a)		2 I
Dairy, in tubs	18	(a)		19
Cheese-				
Manitoba new cheese at W'peg	I 2	(a)		121
Eccs-				
Manitoba fresh gathered, f.o.b.				
Winnipeg	17	a	,	17
POULTRY, (Cold storage stock)—				
Spring chickens	17	(a)		18
Spring ducks	16			
Fowl	13			
Young turkeys	19			

LIVE STOCK. The expected rise in first class butcher's stock is

The expected rise in first class butcher's stock is here. Good cattle are wanted, but they will be late in coming forward. Hogs remain steady.

Prices quoted are: Best steers \$5.30 to \$5.65; ordinary to medium, \$4.60 to \$5.00; heifers, \$4.50 to \$5.00; cows, \$3.50 to \$3.75; bulls, \$2.50 to \$2.75. Sheep, \$7.50 to \$7.75. Lambs, \$8.00 to \$8.50. Hogs, not too heavy and bacon types, \$7.75; heavy and old \$7.25; rough \$6.75. heavy and old, \$7.25; rough, \$6.75.

TORONTO.

Export cattle, \$6.00 to \$6.25; butchers, well finished, stock \$5.75; choice, \$5.25 to \$5.40; medium \$4.75 to \$5.00. Spring lambs, \$3 to \$6 each. Hogs, CHICAGO.

Cattle -- Beeves, \$4.65 to \$7.00; cows, \$1.75 to \$4.75; heifers, \$2.75 to \$5.50; good to prime steers, \$5.75 to \$7.00; poor to medium, \$4.70 to \$5.70; stockers and feeders, \$2.90 to \$5.15.

Hogs.—Light, \$6.10 to \$6.32½; heavy, \$5.90 to \$6.27½; good to choice heavy, \$6.15 to \$6.27½; bulk of sales \$6.20 to \$6.27

of sales, \$6.20 to \$6.25.

HOME JOURNAL



Life, Literature and Education

IN THE WORLD OF LITERATURE AND ART.

George H. Chandler, M. A., professor of mathematics at McGill University, Montreal, is dead.

Dickens was the despair of the printers. He wrote a very small hand, often with blue ink on blue paper and with many erasures and cor-

portrait painter, was sold at auction in London for \$42,000. Charles Westheimer was the pur-

"Musical Canada," a new Canadian magazine, has made its first appearance. It is a monthly and is filled with matter interesting to all musicians and lovers of music.

Charles Mair, the Western Canadian poet, has would be plainly marked the streak of yellow. undertaken to compile a history of Western Canada. He will live at Edmonton while engaged the evil passions is found to be invariably of a on this work which his experience and literary gifts should make a valuable one.

ment in the northern part of the continent.

The loss of another art treasure has aroused considerable indignation and there is an intimawere the work of the best masters of the art, dred persons. and the most beautiful of them was the product to take the volume home, but never returned it, have at Florence.

sales. The coin was identified as a gold "Crown be re-enacted. of the Rose," which Henry VIII commanded Wolsey to have struck in 1526. It was ordered that the coin should weigh 51 grains and be worth results public. It would be interesting to know four shillings and sixpence, which was the value what is the chief characteristic of the deposit of the French crown of "The Sun King." Henry VIII ordered the coin because English money. on account of its superior value, had been finding to know the effect of inoculating men with these its way to the continent, and it was necessary, he thought, to have a coin small enough in value to stay at home. Nobody at Sotheby's had human race, ever seen a "Rose Crown," and every numismatist was present at the sale and wished to own the one that was offered. The result was eager bidding, until the coin was knocked down for

THE EMOTIONS IN TABLET FORM.

the other fell toads and snakes can no longer, for dinner with a guest, for interesting the rubs his hands gloatingly over the remains and if Professor Gates is correct, be regarded as a chaperon or for putting the bashful youth at remarks complacently, "Every once now and mere allegory, but must be looked upon as a his ease. We do not appear to be sufficiently then I write essays for the best English journals." fanciful way of stating a very real physical fact. grateful. Instead the American newcomer uses And finally, when the five sober-minded English Professor Elmer Gates is a psychologist. He strong language and harks back to the weather words have gone into the fire and come out has a laboratory in Washington where he spends they have "down South" or in old Missouri or warned and meaningless, we all are filled with long days and nights in experiment. He has any place in the whole Republic he happens to an acment and say with the children of Israel: proven, to his own satisfaction at least, in a have been in; the stranger from over-seas forgets "We have out in our gold, and behold there came course of experiments just completed, that love all the weather defects in the Homeland and out the wait!

and anger and jealousy can be reduced to solids and their names to chemical formulæ. A chemical agent has been found that will react upon these solids as upon any other substance.

The physical processes undergone in the human system as a result of emotion of any kind are to be obtained in the perspiration and the breath. The professor condensed the volatile constituents of the breath of the subjects of his experiments, A portrait of Julia Peel by Lawrence, the great and obtained some marvellous results. The breath of an angry man when treated by the reagent precipitated a brown sediment; a griefstricken subject's breath left a grey deposit, while remorse left behind a trail of pink. These are all the color results he gives, but one can imagine some of the others. For instance, the breath of envy would be green; treat the sigh of the homesick and you would see definite traces of blue; while in the breathings of the coward

But the end is not yet. The precipitation from poisonous nature. The brown sediment of anger administered in small doses to animals and men produced in every case nervousness and irri-June 24th was the three hundred and tenth tability. Thought conditioned by jealousy and anniversary of the landing of John and Sebastian reduced to a powder is of a deadly nature. Some Cabot on the shores of Newfoundland, the first was injected into the veins of a guinea pig and it white men to reveal the possibilities of settle- died. This was rather hard upon the pig, to whose constitution jealousy in any form was a stranger. A human system might not have received such a shock. Of all the passions hate produced the greatest results in this series of tion that the missing property has passed into tests. It was accompanied by the greatest the hands of an American. The Church of San expenditure of energy and when treated pre-Pietro, Perugio, Italy, had in its possession cipitated several chemical products. Enough twenty-two large illuminated volumes dating of these would be precipitated in one hour of from the fifteenth and sixteenth centuries. They intense hate to cause the death of nearly a hun-

It is a matter for extreme thankfulness that of one Glacomo Caporali. Two years ago a the chemical substance necessary to react upon local physician who was attending the Abbot of these products of the emotions is not present in San Pietro asked permission to copy the Caporali the air, or the population would become strik-volume for a rich American. He was allowed ingly reduced. What would become of the The Abbot is now dead and the physician lies ill for the home team at a league match? How terrible would be the fate of the lady who wore the prettiest gown and most becoming hat to an An Irish antiquary offered for sale at Sotheby's afternoon tea! In the legislature the opposition, an English coin so very rare, it is said, that one if weak, would be wiped out completely; while had never been presented at an auction before, if the two parties approached an equality in not even in the famous Murdoch and Montagu strength the tragedy of the Kilkenny cats would

> If the professor has done any experimenting with the nobler emotions, he has not made the left by treating the breath of kindness, courage, joy, generosity or love; and more interesting still various productions. There would seem to be limitless possibilities in it for the uplift of the

THE WEATHER.

It is safe to affirm that more has been said about the weather during the first six months of a little vague. I will say 'Once now and then, together. It ought to be forgiven much if only of being considered extravagant.' for being a universal provider of conversation. The fairy tale of the girls from the lips of one It has provided a topic for breakfast with one's ruined, and, unsatisfied still, the human barof whom dropped pearls and diamonds and from family, for lunch with a business acquaintance, barian adds another victim to the pile and then

condemns this "rotten climate, don't you know"; while even the natives complain bitte ly when there are no strangers round.

After all what is the use of "grouching"? There has been a seed-time (if a few weeks late) and there will be a harvest just as surely. And these prairie provinces are better off in the matter of weather than almost any other spot on the globe. In many of the States early warm days brought up the garden seeds and opened the fruit buds; then frost came and nipped them all. We weren't troubled that way. We have had snow and rain and cold; other countries have suffered with blizzards and floods and tornadoes which destroyed property and took away human life. This country may have its discomforts, but it is consoling to remember that we are at least as comfortable as we would be any other place, and a great deal safer. Cheer up! Cheer up!

CRUELTY TO WORDS.

There are societies for everything in this enlightened age-some useful, more ornamental, but a society for the prevention of cruelty to words would be both useful and ornamental and more to be desired than organizations for sending moral pocket-handkerchiefs to the Hottentots, a la Mrs. Jellyby, or suppressing peashooters. English words of the best families suffer the tortures of the Inquisition and not a hand is lifted or a voice raised in their behalf.

Such freakish twistings into phrases do the poor words undergo at the hands, or rather the tongues of the oppressors, that they become unrecognizable by humans, and must scarcely know themselves, so racked are they. For example "in-as-much-as" for "because," "neverthe-less" for plain little "yet," and worst of all "every-once-now-and-then" instead of "occa-"every-once-now-and-then" instead of "occasionally" or "frequently." "Every-once-nowand-then. Every-once-now-and-then." oftener you say it the more dim and whirling does the meaning become. The first time you said it you thought you knew what it meant, then you supposed it meant something but did not know what; and now you are sure it does not mean anything. You're right, too.

A good word is "now"—sober, law-abiding, meaning what it says, and trying to attend strictly to its own business. And an equally worthy character in the world of words is "then. But some interfering human with socialistic tendencies seizes these two from their peculiar places, and combines them thus, losing both and producing nothing:-"Now then, you young rascal, keep off the grass!" Why, "now"? Why "then"? In the knowledge of words and of the treatment that should be accorded them that man is as the beasts that perish.

This is only the beginning. That same man, or another one, says to his wife, "Now and then a woman sees a joke." Perhaps so, but is it the same joke now as it was then, or is it the joke of then that she sees now? And why not say "then and now" and so have words spoken decently and in order. These things are distinctly confusing to the amateur philologist.

But the end is not yet. The slaughter of the innocents continues unabated. Some stickler for the exact truth, who imagines everyone places the same value upon his utterances as the price mark he puts on them, says to himself, 'I must be careful—'Now and then' is a good phrase, mellow and smooth, but a little indefinite, 1907 than about any other ten subjects put choosing thus the safe side and running no risk

So four perfectly harmless Saxon words are

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TWENTY YEARS AGO. By L. S. GRIGG.

'Tis twenty years to-night, Jean, Since o'er the waters blue, You left your home, and friends, Jean, To meet your lover true, Your eyes were like the stars, Jean, Which light the sky by night; Your hair was like a raven, Jean, And now it's almost white.

(Chorus)

But put your hand in mine, Jean, And tell me soft and low You love me just as well, Jean, As twenty years ago.

We've had our troubles too, Jean, Some dark and dreary days. And we have lived to know, Jean, Our ways, are not His ways. And though He took our bairn, Jean, We still can thankful be. For we've one another still, Jean, And you're all the world to me.

THE STORY OF THE GRANTS.

(Chorus)

DICKEN'S , "CHEERYBLE" BROTHERS OF MANCHESTER.

"He was a sturdy old fellow in a broad skirted blue coat, made pretty large to fit easily and with no particular waist; his bulky legs clothed in drab breeches and high gaiters, and his head protected low-crowned, broad-brimmed white hat, such as a wealthy grazier might wear. He wore his coat buttoned; and his dimpled double chin rested in the folds of a white neckerchief—not one of your stiff-starched apopletic cravats, but a good, easy, old-fashioned white neck-cloth that a man might go to bed in and be none the worse for." That The generosity of the brothers was was the figure of the elder Cheeryble, without stint; Daniel literally flung as seen by young Nicholas Nickleby, and it is an accurate portrait of William whose plea was genuine ever appealed Grant. He and his brother Daniel were to him invain. There is a pleasant the prototypes of the Cheeryble pair.

Did Dickens ever meet the brothers Grant? The Rev. W. Hume Elliot, in his "Story of the 'Cheeryble' Grants," comes to the conclusion that he did. In the original preface to "Nicholas Nickleby" Dickens stated definitely that "the brothers Cheeryble live," though in a later preface he wrote: "Suffice it to say that I believe the application for loans, gifts and offices of profit that I have been requested to forward to the originals of the Brothers Cheeryble (with whom I never exchanged any communication in my life), would have exhausted the combined patronage of all the Lord Chancellors since the accession of the House of Brunswick, and generosity is easy. but it is only an He welcome de poores' man dat call, would have broken the rest of the Bank The statement, with whom I never exchanged any communication in my life" may indeed very well commercial concern that the Grants had refer-and taking its context pretty the strongest objection to "putting their Lak de young Jesu w'en He's here clearly does refer-to epistolary com- hands" to any documents. They would munication. conclusive evidence that Dickens did exactly what they meant. On one meet the Grants in 1838-1839; he may occasion a member of a shipping firm De white dress fadin' among de treehave taken a whim to deceive his readers; in Liverpool called upon Daniel in Manon the other hand the simple explanation suggested seems sufficient.

valley of Strathspey. Misfortune overtook the good farmer-father and his wife, the farm had to be given up, and they decided to migrate, with their seven children, to Lancashire, where the cotton industry was booming. It was a perilous undertaking. Out of the wreck of his fortunes William Grant the elder had managed to save a horse of conveyance for the household, and Daniel Grant, Dickens found the very visions, they set out. Within sight of the beauty and humanity of that, mem. were subsequently to be made, the food gave out, and the shadows of starvation

T. P.'s Weekly (London, Eng.) loomed black ahead. "At this juncture William Grant and his faithful wife, on the bare hill-top, lifted up their mistress of the house undertook, with tea at with their children, gathered round them voices in prayer to God, to relieve them the help of a green wattess, to get in their sore trouble, and send food to the Sunday luncheon. The flurried in their sore trouble, and send food to maid, who had been struggling in the feed the hungry." The next morning maid, who had been struggling in the two gentlemen shooting on the hill took kitchen with a coffee machine that two gentlemen shooting on the hill took kitchen with a coffee machine that she doon."

Naetnin, mem."

"What do you mean by 'nothing?' " Willie—I know what sis is going the properties of the price of th voices in prayer to God, to relieve them the help of a green waitress, to get compassion on the piteous little group and left a couple of sovereigns in the father's hand. From that time forward "Well, never mind, Eliza. Go on ing sl father's hand. From that time forward with the coffee, and I'll do it," said success came; the two eldest boys with the coffee, mistress. "Where obtained employment in a mill and the the considerate mistress. father turned pedlar, buying "fents and do you keep the soap?"

vest pieces," which he sold from door to Then a shop in Bury was opened by the enterprising family; that, too,

ment was 'set up at their front window, sequent to his own death: and in the evening for many weeks people resorted to hear a variety of tunes." Soon afterwards the brothers Soon afterwards the brothers An' a wonderful wan it seemstarted business in Manchester, as calico For I'm off on de road I was never vide future distinction, of William Grant and Brothers.

Factory was added to factory and As sooner of later come to all. wealth to wealth, but the brothers remained the same simple souls, though they were now able to dispense lavish hospitality and to indulge their passion for generosity. Daniel was always something of a humorist; he knew his limitations, and did not pretend to De moon an' de star above is gone, knowledge which he did not possess. On one occasion a distinguished writer on Egyptian antiquities was his guest. Daniel knew nothing of Egyptian antiquities, and he was bored. "So, with a fine impulsive rush, like a skater clearing a piece of dangerous ice, or a batsman springing out of his ground to hit an unmanageable ball, he responded thus-"Yes! yes! Egypt! Pharaoh! Very old country! Mummies!" with a sharp and heavy emphasis on the embalmed ones.

Daniel's butler—the "apoplectic butler" of Dickens—"beseemed his position." Itickens gives as a feat of his Dickens gives as a feat of his dexterity the rapidity with which he would produce a magnum of the double diamond to drink the health of Mr. Linkinwater." The actual order as given by Daniel was, "Alfred! Ruby! Lightning!" And the breathless butler produced the precious vintage with

singular celerity.

The generosity of the brothers was So lak de blue on de summer skymoney away in handfuls. No one story of his appearing on the sands at Blackpool during a bad season, when the fish-wives were standing dolefully about Don't stop on de road, for I need no waiting for customers who did not come. Daniel bought up everything on the spot. "Where shall we take 'em, sir?" they cried. "No! no! Pay first pay first!" he said. It appeared that they

An' I follow it on an' wance in a w'ile had no change, so handed a sovereign to each woman. Then the cry again arose, "Where shall we take 'em, sir?"
"Where you like! Where you like! We're both togeder, jus' you an' me. Don't want 'em. Don't want 'em. Sell Very dark to you, but to me it's light, Don't want em. Don't want em. Sen Very dark to you, but to me it's light, 'em or give 'em away. Hungry ones! Mustn't clem. No! no! Better luck! Good times coming! Good times. Won't "De boss on de camp w'ere I always stay clem!" It may be said that such random indication of Daniel Grant's deeper But love de chil'ren de bes' of all-

benefactions. There seems sufficiently sign cheques readily enough—they knew De face of my leetle son look jus' sothe other hand the simple explanation suggested seems sufficient.

The Grants hailed from the beautiful much do you need?" asked Daniel.

"From £6,000 to £8,000." Daniel forthwith signed a cheque for £10,000. securities for the amount. "No! no!" said Daniel. "Take them with you Take them with you! A thing of honor! taking of honor! Pay when you can! boys. Pay when you can!" Remonstrance was in vain." In the brothers William and you to

DRUMMOND'S UNPUBLISHED POEM.

Bell, Drum and Triangle, by John Longman, London." This singular instrubut they were not published until sub- add a teaspoon of salt, a quarter teaspoon of salt, a quarte

Las' night w'en I'm sleeping I dream a

Too long an' hard for a man lak me, So ole he can only wait de call

De night is dark an' de portage dere Is narrow wit' log lyin' ev'ry w'ere, Black bush aroun' on de right an' lef'

Yet somet'ing tell me I must go on.

An' off in front of me as I go, Can almos' touch heem so near to me, In an' out dere among the tree-

An' den I'm hearin' a voice is say, 'Come along, fader, don't min' de way, De boss on de camp is sen' for you,

troo: It's easy for me, for de road I know, 'Cos I travel it many a year ago.'

Dead wi' de young blood in hees vein, An' dere before me he come again, Wit de curly hair and dark blue eye,

An' now no more for de road I care, An slippery log lyin' ev'ryw're, De swamp in de valley, de mountain,

But climb it jus' as I used to do.

An' I follow it on, an' wance in a w'ile

Very dark to you, but to me it's light,

Since ever de tam I was go away, It is strange in the history of a great An' come to-night for to bring you troo."

below,

Den off beyon' on de wood I see

Was it a dream I dream las' night Is goin' away on de mornin' light?

Scottish folk are proverbially canny Profusely thanking him, the gentleman and prudent in money matters, and the the forehead handkerchiefs wrung out proceeded to put into his hands legal following shows that the younger gener- of hot water while the patient lies flat ation is no exception to the rule.

A teacher in a Lowland school was taking mental arithmetic with a class of sewing machine without sitting upon a She asked one urchin:

you to buy four pounds of tea at one and six a pound?"

"We ne'er get sae much at aince as

"Never mind that. Four pounds at one and six?'

"But we canna afford the one and six mem. We always hae the one and twa.' "Answer the question. What would In the cook's absence the young she give you to pay for four pounds of

'Naethin,' mem."

"Oh, dear! Oh, dear! But suppos- so, Willie?" Willie

ABOUT THE HOUSE. by the enterprising family; that, too, succeeded, by the aid of a "New Invented Patent Barrel Organ, with Bell. Drum and Triangle by John Long. The Poet of the Habitant wrote serving them is to mash them while Potato Puffs.-Old potatoes at this spoon of pepper and hot milk enough to moisten well. When partly cool add the yolks of two eggs, well beaten, and lastly the whites which have been beaten stiff. Bake ten minutes in an oven hot enough to brown well.

Rhubarb Custard Pie.—Stew a pint of chopped rhubarb in a very little water and press through a colander. Add a cup of sugar mixed with a tablespoon of flour and two beaten eggs. Line a plate with pastry, brush over with the white of an egg, pour in the A step from de road, an' you los yours rhubarb and bake without a top crust. Cover with whipped cream before serving or with a meringue of beaten white of egg and sugar.

Steamed Rhubarb Pudding. - Six stalks of rhubarb, one cup suet, one-Light as a dreef of de fallin' snow, Who is dat lettle boy dancin' dere? two cups flour. Chop the suet very Can see hees white dress an' curly hair, fine, mix with it the salt and flour, add enough cold water to make a dough. Roll into a sheet, and with part of it cover the bottom of a baking dish. Fill with the rhubarb and add the sugar. Cover the top with the remainder of the dough, cutting a hole in the center to So you' leetle boy its goin' to guide you let the steam escape. Place in a steamer and cook for two hours. Serve with butter and sugar or pudding sauce.

New Orleans Omelet.—Three good An' O! Mon Dieu! w'en he turn hee's sized potatoes are peeled, sliced, and fried in bacon fat or lard. When nearly done stir in half a small onion finely minced and cook until tender. Beat three eggs well, season with salt and pepper and pour evenly over the potatoes. When the under side is cooked, put in plate over the pan, turning the omelet out bottom upward and slipping it back into the pan for the other side to brown.

German Pudding.-Mix one pint of fresh raspberries, one pint of fresh red currants, one pint of water, and sugar If you want the pudding to taste. sweet add three teacups of granulated sugar. If a tart pudding is desired, two teacups will be sufficient. Add to this mixture six inches of cinnamon stick broken into bits. Boil for half an hour in a porcelain-lined stew kettle; then press the juice through a sieve into another porcelain receptacle, and add a teacup of blanched almonds and citron in equal quantities chopped very fine. Cook gently for twenty minutes, then thicken with corn starch, allowing five tablespoons of corn starch to a quart of the liquid. Pour into one large mould or individual moulds, and serve cold with whipped cream or a plain custard sauce. The Germans make this pudding rather tart, and sweeten to taste when serving.

THINGS WORTH REMEMBERING.

Alcohol and salt will clean a coat collar that has become soiled.

The juice of half a lemon in a glass of water taken without sugar every morning before breakfast will ward off malaria.

A German physician says that a cure for seasickness is to bind lightly round upon his back.

No woman, it is said should use a chair that is from four to eight inches "How much would your mother give higher than the one she ordinarily uses.

When baking a fruit or wedding cake it is a good plan to place a vessel of hot water in the oven to prevent the top of the cake from scorching. The dish should be lined with several layers of buttered paper and a layer of sawdust or bran placed in a shallow pan under the cake tin will keep the bottom from

Willie-I know what sis is going

Mr. Noodle-And why do you think

Willie - 'Cause I've heard her say With a pitying smile came the reply: often you ain't got sense enough to "A' can see ye've ne'er met me mitner, come in out of the rain. — Brooklyn Eagle.

ONE THING I KNOW.

He answered and said, whether He be a sinner or no, I know not; one thing I know, that, whereas I was blind, now see.-St. John ix.: 25. "I have a life with CHRIST to live,

But, ere I live it, must I wait Till learning can clear answer give Of this or that book's date?
I have a life in CHRIST to live, I have a death in CHRIST to die-And must I wait till Science give

All doubts a full reply?

"Nay, rather while the sea of Doubt Is raging wildly round about, Questioning of Life and Death and Sin, Let me but creep within Thy fold, O CHRIST! and at Thy feet

Take but the lowest seat, And hear Thine awful voice repeat, In gentlest accent, heavenly sweet, Come unto Me and rest; Believe Me and be blest!' "

St. John devotes a whole chapter to the story of the man born blind, whose eyes were opened by our Lord. When we find about 40 verses describing a were opened held firmly to the fact he possibility of doubt; you know that we find about 40 verses describing a describes in a few words, we cannot but things of which he was ignorant, and he thought, kindness, temperance, courage But once again He comes, and comes to feel that it is intended to teach us many valuable lessons. Let us glance quickly over the story.

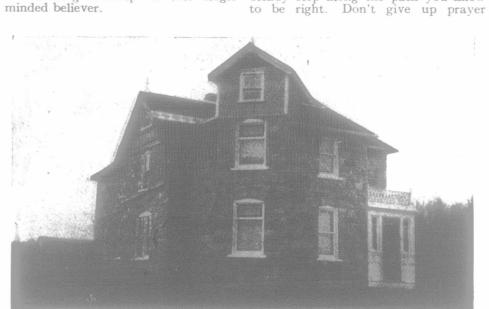
The blind man's eyes are anointed with clay, and he is sent to the pool of Siloam to wash, and returns with the face of his Healer. The Jews at once because he was true and loyal in hold- that sin is darkness, and that righteousassail him with hard questions; "How was this miracle worked? Who did it? You must not put your trust in Him, for He is not a prophet. You are ignorant, sinner—why, even in doing this miracle He was breaking the Sabbath." They press him hard, and his position is a difficult one. They have had the advantage of light for many years, while he has been in darkness until now. They are educated, while he is ignorant. They are well posted in the Scriptures, while he, probably, knows little or nothing. Can they break down his new-born faith in a Christ he has never seen and of whom he knows only one thing? Surely such a weak, defenceless faith must go down before the fierce attack of well-armed and determined foes! He cannot answer the arguments, how can he tell whether the Stranger he has never seen is a sinner or a prophet? But his faith—weak and ignorant though it may be-is strong enough to withstand any attack, for the simple reason that it is founded on fact. He cannot answer their clever arguments; but his faith is unshaken, nevertheless. He only knows, "one thing," but that one thing means everything to him. One who has been blind all his life, but has now the power to see, cannot be convinced by any amount of argument that he is still in the dark. "One thing I know," he declares, positively, "that, whereas I was blind, now I see.'

nothing of Hebrew or Greek, cannot by your own experience—far more go on seeking and praying for light.

compare the many and varied versions than "one thing." He Who is The light is in the world, your eyes—
of old manuscripts, cannot explain one Truth is seeking for you, far more the eyes of your soul—are fitted to Said the Tree, while he bent his laden of the innumerable hard questions earnestly than you are seeking for Him, make use of it, and God wants you to like the man born blind, he makes no as the Son of God, He will reveal Him- and determinedly seek Him, you will attempt to use weapons which he has self to you. If you have formed the one day gain the great joy of knowing not proved, and which will injure him-self instead of helping his cause. Like you know, you will then, like the man ment can shake. Faith is a gift from to his friend who was particularly

THE QUIET HOUR

face of Christ, and knows very little, God of your fathers. You go away kind letter) as yet, about Him. If you are in that from home, and find to your surprise Croix, N. S. position, avoid the snare of professing that everybody doesn't believe as your to know and believe more than you father and mother do. Perhaps the really do know and believe. Just faith on which you thought you could because someone else has had spiritual rely is not really your own, but is only experiences, which he and you think their experience, accepted at second-ought to be yours too, don't pretend hand. A testing-time is a good thing, that they are yours if they are not. If because it shakes you out of the com-you only know certainly "one thing"— fortable idea that you believed, when that your eyes have been opened to see really you only accepted unquestionthe difference between darkness and ingly the belief of others. But, though light—the eternal difference between you may find it impossible to accept right and wrong-don't pretend that as absolute truth everything your you know Christ as a personal Friend, parents believe so firmly, don't think and that He is all the world to you, as that you have to be either a hypocrite—He may be later. The life of God in pretending to a faith that you have not the soul is like the life of the body, it -or an Agnostic-declaring that nothknew, and did not attempt to assert righteousness of life and purity of was soon rewarded by seeing Christ and and truth, are treasures of priceless learning that He was the Son of God. value. You know that hatred, mean-He was not to be shaken in his bold ness, lying, crooked dealing and unholy confession of faith, though he was cast thoughts, will most surely drag any out of the synagogue—a heavy penalty soul down from glory into shame; and -because of his daring assertion in that if you do not obey your own conopposition to learned and influential science you will have to endure the wonderful gift of sight. Though he can now see the light, he has not seen the for him must be "of God." And, its stern condemnation. You know ing firmly to the little he knew, more ness is light. Well, let no arguments light was soon given to him. He did about modern views of religion make not as yet know Jesus, but Jesus knew you forget that you do see the light He is not a prophet. You are ignorant, him, and, coming to him revealed clearly, that you know its priceless but we are learned in God's Word, and Himself as the Son of God, and received value, and that you intend to walk with we can prove to you that this man is a the adoring worship of this single- steady step along the path you know



FARM HOME OF W. H. ENGLISH, HARDING, MAN.

never try to make it appear stronger up regular attendance at church, even than it really is. Unreal profession is though you may never yet have had 'cant," and is an abomination to God the eyes of your soul opened to really Surely there is help in this story for and man. If you only know "one feel sure of the presence of God. If those whose faith is young and weak, thing"—that sin is wrong, being an you are honestly true to the light, true and who are finding themselves already offence against your own sense of right; in doing the thing you know to be right, birds sung:

and that holiness of thought and deed is you will soon know more of the great 'Shall I take them away?''said the Wind which they are powerless to answer, a thing greatly to be desired—then hold realities of God and your own soul— One clever opponent points a finger of fast to that one thing, and act on it. know by your own experience scorn at the man who still is old-fashioned enough to pin his faith to the light you can get. Read the Bible, "Read it," he says, "and you and find out what those who know more blind. Other people—people whom will find it full of inaccuracies and errors. than you have discovered about the you know to be honest and true—say Why, it is constantly contradicting God who is, as yet, personally unknown positively that they know Christ as The Tree bore his fruit in the midsumitself. How can it be the inspired Word to you. Seek Him with earnest deterpersonal Friend, that He is the Great contradicting to you. of God?" The weak Christian, whose mination to find out what is the Truth, Reality of their lives. If that cer- Said the little girl, "I may pluck your eyes have just been opened, knows and you will soon know—really know tainty of faith is still a mystery to you, which are hurled at him. He is wise if, and when you are ready to accept Him see and know Him. If you earnestly

However weak your faith may be, and the reading of the Bible, don't give may not be learned enough to reconcile all the truths of religion with the proved facts of science—only perfect knowledge can possibly explain all the difficult questions that force themselves upon us—he has never seen the cite all the truths of religion with the bold action—then you will gradually, gain more light.

Perhaps you have been brought up in a good old-fashioned way, believing selves upon us—he has never seen the cite all the truths of religion with the bold action—then you will gradually, but very certainly, gain more light.

Perhaps you have been brought up the eyes are opened to the light tree. This represents the weigh your before the soul reaches a high tree. We have all had our eyes exceed to gradual removed from my heart.

some of the things of God, and we all have yet many things to learn. As Tennyson says:—trust comes from God-"A beam in darkness: let it grow!" HOPE.

The following poem is one of several that were sent (together with a very kind letter), by Edith F. Smith, S.

"WITH ME."

St. Matthew xxvi.: 40.

The shadows lay so deep on Olivet, And silent midnight was on all the

One watcher only in the darkness craved A thought of love, a touch from human hand.

He came at last to seek it, but in vain And sadly through the darkness went away One tender word, one look of love that

night Had been how sweet to Jesus none may say.

thee,

His busy worker in the harvest-field; Can'st thou not watch with Me one silent hour?

I crave far more than busy hands can

I want the fervent love that tells itself In deep sweet breathings of a heart at rest

Beneath the shadow of Eternal wings, Like the beloved disciple on My breast.

Then in the silence let Him speak to And in the reverent hush look up and

The love that He hath kindled in thine heart,

And seek in that blest Presence thus to dwell.

Yea, "tell it out,"—unto thy Father tell The preciousness of Christ to thine own heart. Then wait, and listen till He speaks

again . Thou hast in wondrous fellowship a

And He hath need of thee, thy love is

Thine uttered love,—told waiting at His feet;

And hurry not to service till prepared By quiet waiting in His presence sweet.

—C. W. Ashby.

THE FRUIT TREE.

The Tree's early leaf-buds were bursting

'Shall I take them away?' said the Frost, stealing down "No, leave them alone, Till the blossoms have grown,"

Prayed the Tree, while he trembled from rootlet to crown.

The Tree bore his blossoms, and all the as he swung.

"No, leave them alone, Till the berries have grown," Said the Tree, while his leaflets all quiv-

ering hung.

bright berries, I know?

boughs low.

Bjornsterne Bjornson.

the man in the story, he can fall back in this miracle-parable, worship Him God, a priceless gift which He longs to "close" in money matters. The teleon a fact he has proved by experience. as your lawful King and God. If you bestow on every soul that is ready and gram was, "I am perfectly well," and it He knows that he has stepped out from always follow the light you can see, by able to receive it. But no one can was sent "collect." Evidently the darkness to light, and that marvellous doing unflinchingly what your con- reach at a bound the impregnable posi- telegram set the mean man thinking. change means everything to him. He science tells you is right—even though tion of those who have been chimbing A week afterward the joker had a may not be learned enough to reconvou may suffer pain and loss by your for 50 years or more. That would be very hearty package brought to him,

od, and we all

to learn. As

comes from

HOPE.

ss: let it grow!"

one of several

r with a very F. Smith, S.

p on Olivet,

vas on all the

arkness craved

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t, but in vain.

darkness went

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harvest-field:

with Me one

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E.

.: 40.

MARY'S TIMELY VISIT.

Dear Dame Durden: "Martha" has expressed a wish for the recipe for rhubarb wine that I mentioned in a former letter, so I hasten to send it, although I feel that perhaps you will think I am coming too often.

barb to one gallon water. Cut the rhubarb very fine; let it stand in the water (cold) for twenty-four hours; then strain through a cloth and squeeze well. Let the liquor stand for a day; then pour it off clear from the sediment upon three and one-half pounds brown sugar, the rinds of two lemons sliced very thin and also the juice. Keep stirring at intervals for another day until the sugar is quite dissolved; then put in a jar (stone spirit jars we used to have) not quite full; add one-quarter of an ounce of isinglass to a pint of the liquor and when the isinglass has quite dissolved add it to the wine and stir well. Let it stand for three weeks with the cork lightly placed at first. Bottle on a fine day in the fall or early winter. Use wooden spoon to stir. My mother made wine from above recipe for many years and always turned out well. The color was a clear amber and it was

enough to tell me the name of the know just what I'm missing. washing machine she has used for so Did you notice I changed your name long with such satisfaction. I want as we have another "Tweedside." one—could have had it long ago, for you do not like this one, send in another my "good man" often reproaches me soon.

(Cream Cheese.—Take a quart of brush rack hung in this corner. Another sweet milk, adding a cup of cream if a handy thing for this corner if there is for not getting one, but there are so

It does not require patience to attend rich cheese is desired. Add a few drops room, is a piece of oilcloth or coarse many different kinds and when I do to the Ingle Nook. Just time, and I of liquid rennet or a piece of a rennet linen made into a pocket with two or get one I want it to be the best. If I consider it time well spent, and as tablet, according to directions. Place three different little pockets, for tooth may, I should like to write again soon. instructive and interesting to me as to in a warm corner for twenty-four hours; brushes and lead pencils that are not

(Your recipe for rhubarb wine came mats from stockings.

Jean Dame Durden:—I have read tightly and hang up to drain. Change the chief beauties of a machine is that the chief beauties of a machine is that with it almost any member of the chief beauties of family can be utilized in running it. with success many of the recipes con-drain.

wanted a recipe for English muffins, into a comfortable mat in the following and as I think I know the way they are let her have it when space permits. also hail from the canny north. I have it about two dozen times. Cross bachelor life, my husband having gone husband wanted to take a loaf of my wonder what part of the country she is from. Berwick, Coldstream and Wooler are all familiar to me, and the whole of the ravellings on the finincrease of the husband wanted to take a loaf of my bachelor life, my husband having gone husband wanted to take a loaf of my to Edmonton, where he is making bread for the corner stone of the house, between trying the husband wanted to take a loaf of my to Edmonton, where he is making bread for the corner stone of the house, to go the life, my husband having gone husband wanted to take a loaf of my to Edmonton, where he is making bread for the corner stone of the house, to go the life, my husband having gone husband wanted to take a loaf of my to Edmonton, where he is making bread for the corner stone of the house, to go the life and the stone was the stone was the stone was the life and the stone was the stone was the life and the stone was the st heather-clad Cheviot. I wish I could invite you to dinner, the chief feature of the menu to be a grilse (young salcooked a la Berwick, and Bake like soda scones, on the top of the stove, only turning once. Flour the pan you bake them on. When cold, just tear the edges apart, heat well through and butter liberally. Only practice is needed in the baking to ensure success. I also saws a request to ensure success. I also saw a request for gingerbread, I think from "Suffolk and as perchance our husband's tastes may be somewhat similar. I send a recipe from Beeton's Household Management, guaranteed good, and just the thing for an emergency, as it will keep (if it is not discovered) for a fortnight:-Take one pound treacle, one-fourth pound butter (or pork dripping), one-fourth pound brown sugar, one-half ounce allspice (or cloves), one and one-half pound flour, one teaspoon baking soda, one-fourth pint warm milk, two ounces ground ginger, three eggs. Mix dry ingredients well together, add butter and treacle (warmed), then the eggs, whisked; and the soda dissolved in the milk. Bake in a well buttered tin, in a moderate oven for an hour, or rather longer should the gingerbread be very thick. Do any of the circle use paper blankets? They are so light and warm that I must give the idea, although I m afraid my letter is already too long.

Take any light material, the size of the

INGLE NOOK CHATS

even newspaper, if doubled) and baste roughly together with wool. I am grateful to a kind member for the suggestion of lining men's waistcoats; good wishes to all.

HEATHER HONEY. (Don't I wish you could invite me to that dinner! I'd accept with most "ungenteel" alacrity. It appeals to things, instead of young salmon and heather honey, and, delightful mystery, —"kneadies." What are they, any-

any of you.—D. D.)

MATS FROM STOCKINGS.

Come as often as you wish. The door tributed by the members, although not is always open.—D. D.)

The finistake, I am afraid, was ours, one myself. I came here from "Tyne-not yours, this time, and we are sorry side, England three years ago, and as about it, too. Thanks for the recipes. AN INVITATION TO DINNER.

Dear Dame Durden:—I saw in a previous issue that Northumberland wanted a tecipe for English muffins. way:-Begin at the toe and pull the made, perhaps you will be so kind as knitting out, then wind the ravellings round three or four fingers until you gers, making it tight and firm in one quite so bad off as some of the bachelors as the little ones do not care about place, which makes the rest of the ball as I have three little ones to talk to. mother wis spring out. Make all the wool up in Do any of the Chatterers do, or help out doors. Now for the muffins:—Take well risen the little wool balls under the canvas my rubber boots through snow and bread dough, roll out, cut in rounds, and sew firmly on as close as desired, water this spring. One morning I

you how sorry I am for making a mis- go back to the city, where such style take in "lemon curd." I meant to say was carried on. I do like a few comthe idea was made use of directly, so beat the eggs well, not beat the eggs. forts, no matter where I live. On my I thought I should send my mite in I am sending a recipe for rhubarb pre- dividing walls I did not put the wall exchange. I must apologize for the serve. Cut four pounds into inch paper, but cut suitable pictures out of length of my letter. The corner is a pieces; add juice and rind of one lemon, magazines or the FARMER'S ADVOCATE great source of instruction as well as four pounds of sugar. Cut the rhubarb and pasted them on, first making a amusement, but what a lot of patience and put in a crock and pour the lemon center piece of wall paper and border. you must have, Dame Durden, to juice on it. Cover it for twenty-four It just looks fine, and the children peruse all these letters. With hearty hours and then boil for one hour. This learn such a lot from the different will keep for two years.

Here is a recipe for a very nice cold pudding called tennis pudding. Line a basin with thin bread, and after cooking some juicy fruit pour it into the basin. me at this very minute, for it is lunch- Then put a thin layer of bread on top time and shortly I'll be sitting down to and put a plate over it. Set in a cold a meal composed largely of canned place, turn it out when wanted into a place, turn it out when wanted into a glass dish and pour cold boiled custard over it. This is very nice in the summer time and is an English recipe. I wonder if Martha would be kind way? It would be some comfort to if anyone can give me a recipe for curd cheese or cream cheese?

LEEDS YORKSHIRE LASS.

ice water; put the cheese in it; tie up children tipping the wash dish and

RUBBER BOOTS AND COMFORT.

mon) drawn fresh from "Tweed's Silver this way and then fasten a piece of to do, the chores? If you do, don't (coarse harn or sacking) in be without a pair of top rubber boots Northumberland "kneadies" and frames, just as you would do if making they may save you a big doctor's bill, ing soda crackers at home, but I well acquainted with these dainties? in the patterns you wish; then hold I have had to wade up to the tops of some oneelse can help.—D. D.) and raise like ordinary rolls, only arranging the colors to suit your own went on the run to a neighbor two method of making handsome remember to have them fairly thin. taste. I hope this is plain enough to miles away (three inches of fresh snow RUGS.

I like "Dell's" idea about fixing up a house. I have my house clothed and papered much in the same way, only did not sew the cheese cloth together, but just over-lapped it a little and tacked it, putting several tackings in the center of the cotton. It is the Rhubarb Wine.—Five pounds rhubarb to one gallon water. Cut the with large sheets (any may be used, nubarb very fine; let it stand in the even revenue of the cotton. It is the cotton that holds the paper on. But with large sheets (any may be used, nubarb very fine; let it stand in the even revenue of death of the cotton. It is the cott that I was putting on too much style

Dear Dame Durden:—I can not tell for a homesteader, and that I had better pictures. I have pictures of Kings. Queens, birds, animals, houses, and pictures showing how to fix different

> My husband got an idea from one of the pictures about how to fix a shelf for the wash dish in the kitchen. Take a board, cut a round hole in it so the a board, cut a round hole in it so the dish will fit down in it, fix the board on two brackets and fasten it in a corner, having the soap dish hanging on the wall. Put a piece of oilcloth on the wall to keep the water from splashing, and have the looking glass, comb and brush mack hung in this corner. Another (Cream Cheese.—Take a quart of brush rack hung in this corner. Another then throw in a little salt and stir well. to be found when wanted. I nearly Wring out a napkin or piece of linen in forgot to say there is no danger of the

As it is garden time now, I think we ought to say something about the hands. Canvas mitts or gloves are just the thing, and can be made at home. I make the mitts and intend to try making a pair of the gloves

I must ask if any of you have a recipe to make soda crackers or anything like them. The favorite bread is fine, Dear Dame Durden:—Since last and so is the parkin which was new to writing you, I have been trying the me. Before I got the bread recipe, my mother writing. They want me to go

> A LIVELY CANADIAN. (I do not know any method of making soda crackers at home, but perhaps

Dear Dame Durden: - May I come in? I have often sat in the spirit in the corner and listened to the "wise and otherwise" remarks of the cornerites. I see in the issue of May 29th a request for instruction re mats made from old socks. I have made very nice ones by this method: Cut the legs into strips about threee inches wide length-wise and as long as you can. Now ravel in the edges on each side, leaving about a half inch in center to sew on by. When you have a good large amount ready, take a piece of canvas or old linen bag and sew the pieces on very close together, so that they will stand up full, The effect is quite rich. You can make it hit or miss, or, by dyeing the socks and making say a black border with colored center, you will have a handsome rug. We used to have them in front of our beds to step out on in winter. I think I have made myself clear. If any one would like a recipe for scripture cake I will send it to vou. I made one some time ago for a church social and sold slices of it at ten cents each, making quite a nice little sum. Every ingredient is mentioned in scripture—hence the name.

MADAM JEAN.



MRS. WALLON'S HOME NEAR BOWDEN, ALTA

telegram articularly The tele ill," and it ently the thinking. er had a t to him. On open-with his se words: gh your leart.

JUN

Children's Corner

LONGING FOR SLEIGHS AND SNOW.

Dear Cousin Dorothy:—This is my first letter to the C. C. I have a cousin Donald in Millwood who sends my dad the Advocate every week. My dad was once a soldier in Nova Scotia and now says he would like to be there again. Donald sent him a picture post card with a day's catch of fish on it. My dad likes to go fishing very much. Sometimes he goes out in the early morning and does not come home till night, having caught nothing. I saw in one FARMER'S ADVOCATE that Lorna M. Bernard says she cannot go to school because the snow is so deep, and Willie Harris has a dog which pulls his sleigh on the snow. I wish we could have plenty of snow here so that we could have sleighs, for dad says they are fine. I hope you will not mind a little English girl writing to you.

Doreen Victoria Braley. (9) Leicester, Eng. (b)

MORE POULTRY RAISERS.

Dear Cousin Dorothy:-We have taken the ADVOCATE for about four years. My parents lived in Chicaga ten years; then moved to Brandon four years ago. The first three years we lived within two miles of Brandon, and the fourth year we moved to Brandon Hills. Last year we had seventy-two hundred bushels of grain. This last fall we moved thirty miles from Strassburg. Sask where we are living Strassburg, Sask., where we are living now. We have eight hundred acres of land. I have two brothers. Last fall my father bought us three different kinds of purebred hens: Silver Laced Wyandottes, White Wyandottes, and Brown Leghorns. So we each have a pen of chickens to look after.

Јони Воотн. (11) Saskatchewan. (a)

A DOG AND THREE CATS.

Dear Cousin Dorothy: - My father takes the FARMER'S ADVOCATE and we like it very well. I like to read the Children's Corner very much. We have got thirty-one head of cattle and eight horses. The horses' names are Queen, Kitt, Flora, Lady, Fanny, Tommy, Pet and Puss. We have a dog named Shep and three cats. I have two brothers and some sisters.

ALICE PIERCE. (12) Alberta. (c)

FUN AT SCHOOL.

Dear Cousin Dorothy:—I thought I would write a letter to your Corner as I saw nice letters written by other girls and boys. I live in McLean and I go to school every day. I am thirteen years old and am in the fourth class. We have taken the FARMER'S ADVOCATE for four years and think it is a very good paper. I always read letters from THE HURON CHIEF'S DAUGHTER. the girls and boys and think them very interesting. We have two dogs whose names are Sport and Witch, and one The dusky warriors stood in groups cat named Snowball. We had fun in the winter coasting down a hill The scowl upon their knotted brows which is behind our schoolhouse.

Saskatchewan. (a)

TUFFY AND FLUFFY.

Dear Cousin Dorothy:—I have enjoyed reading the letters of the O, lovely was that winsome child of a Children's Corner, so I thought I dark and rugged line, would write, too. I live in Hullcar, And e'en 'mid Europe's daughters fair six miles north of Armstrong. I live surpassing might she shine; on a farm of 860 acres. We have a For ne'er had coral lips been wreathed lot of cattle and sixteen horses. We have about fifty chickens and two Or dark eyes beamed with lustrous pigs. For pets we have a dog and two cats. The dog's name is Prince and the cat's names are Tuffy and Fluffy. have four brothers and one sister. And yet it was not wonderful, that My two eldest brothers are at the Columbian College at Westminster. I She stood amid her direct foes a Princess am ten years old and my sister is seven. December.

Annie Parkinson. (10) British Columbia. (a)



THE HURON CHIEF'S DAUGHTER.

around the funeral pyre; betrayed their vengeful ire.

rites so stern and rude,

To tell it was to be a scene of cruelty and blood.

by brighter sunnier smile,

light more full of winsome wile.

haughty, high-born grace-

of her race; My birthday was on the ninth of Knowing they'd met to wreak on her E'en though the chief the signal gave

their hatred 'gainst he name -To doom her to a fearful death to pangs Sprang forth to lead the daun(less girl of fire and flame.

fled, her form she humbly bowed, A softened light stole o'er her brow, she

prayed to heaven aloud: "Hear me, Thou Great and Glorious One, Protector of my race,

soon see face to face!

Pour down Thy blessings on my tribe; She dashed aside her tresses dark with may they triumphant rise Above the guileful Iroquois—Thine and

our enemies; And give me strength to bear each pang

with courage high and free, That, dying thus, I may be fit to reign, O God, with Thee."

Her prayer was ended, and again, like crowned and sceptered Queen,

She wore anew her lofty smile, her high somein-law?' and royal mien,

and quick two warriors dire to the lit funeral pyre.

One moment,—then her proud glance Back with an eye of flashing scorn recoiled she from their grasp,

'Nay, touch me not; I'd rather meet the coil of poisoned asp! My aged site and all my tribe shall

learn with honest pride HATTIE R. Coles. (13) It needed not the cords, the stake, the Whom in the far-off Spirit Land I'll That, as befits a Huron's child, their chieftain's daughter died!

bright and fearless smile

And like a fawn she bounded on the fearful funeral pile;

And even while those blood-stained men fulfilled their cruel part

They praised that maiden's courage rare, her high and dauntless heart. -R. E. M. LEPROHON.

"So you are anxious to become my

No sir, you misjudge me; I am alons to marry your daughter; if were possible to do that without being your son-in-law I would gladly have it that way."

FOUNDED 1866

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DAINTY, SPARKLING

An appetising dessert for the hot summer days-prepared in a few moments without heating or cooking. A wholesome food in the sick room, delicious to taste and easily digested.

Manufactured in our own Pure Food Factory, every package put up with the utmost care and cleanliness. Only the purest materials are used and under perfect sanitary conditions.

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You will never know what a difference the bed makes until you try a Hercules Spring Bed. All the bed troubles you know about: sagging in the middle, stretching out of shape, no spring to it—are absent from the

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The patent interlacing gives five times the wear, five times the strength, five times the spring, five times the comfort of the ordinary bed.

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This is the Hercules guarantee that goes with every bed. Gold Medal Furniture Mfg. Co., Ltd. Toronto Montreal Winnipeg

1

Gossip

AGRICULTURAL EDUCATION IN GERMANY.

Among the distinguished delegates to the semi-centenary of the Michigan Agricultural College were Dr. Steinbruck of the University of Halle, Germany, and Nikola Kaumanns, whose business card describes him as the "Imperial German agricultural attaché to the United States," with headquarters in the First National Bank Building. Chicago. To a representative of the press, who interviewed him, Prof. Kaumanns said:

tate before accepting new ideas.

"Another reason is found in the fact that the German Government has not been generous in the distribution of funds for the purpose of advancing agriculture on a scientific basis. This is where the American agricultural colleges and experiment stations have a great advantage over similar institutions in Germany. They are provided with funds for the distribution of free literature among the farmers, and receive plenty of money to carry on the work. In this regard Germany has been handicapped; yet we have made great progress, and the outlook for the future is very encouraging. We have an agricultural college in every state, and they, with the experiment stations, are doing a grand work."

At the Royal Jersey Society's show at St. Heliers, May 14th, seventy-one cows competed in the one-day test. law holds good in the case of a man law holds good in the case of The first prize and the English Jersey Society's gold medal were won by Mr. year or on E. Godel's Bermuda, whose yield 160 his patent. days after calving was 38 lbs. 12 ozs. milk, and 2 lbs. 6 ozs. butter; ratio pounds of milk to pounds of butter, 16.31. The silver medal cow, 261 days after calving, gave 33 lbs. 4 ozs. milk, and 2 lbs. 5½ ozs. of butter; ratio, 14.8.

tion for 1906-7, should be secured by ulation. every farmer interested in the breed. It contains, besides the minutes of

mistake was made by the man who property of the Crown until the patent reported the case of a ewe having

"I'm the luckiest man in town!" Your homestead is the Crown's until declared the real estate man. "I bought a \$10,000 piece of property this morning for just half price." "I know just how you feel!" said the pretty girl. "I when you have more property than bought two yards of 60-cent ribbon this morning for 30 cents."—Detroit Free Press.

"Simply," replied the husband, "be-cause I didn't want to interrupt her."

A GOOD ANGUS SALE.

One of the most successful sales of Aberdeen-Angus cattle in America in recent years was that of C. J. Martin, at Adaza, Iowa, on May 28th, when 52 head sold for an average of \$270, the highest price, \$2,010, being paid for the five-year-old cow, Blackbird 26th, by Blackbird Monarch of Emerson, purchased by Donohoe Bros., of Leahy, Holbrook, Iowa. The highest price for a bull was \$1,500 for the six-months-old Black Defender, by Prince Ito 2nd. purchased by W. A. McHenry, Denison,

A writer in the Horse World refers to a discussion over the query, "Has a grey or white horse ever been produced that did not have at least one grey or "While Germany really is a pioneer white parent," and says there was once in agricultural science, her advance in a reward offered for evidence of such a that line is not to be compared with case, no one taking advantage of the that of America. There are several offer; but in looking through the Shet-reasons for this. One is that our land Pony Studbook he had discovered farmers—and our people generally— two such cases, one sired by a black, and are more conservative, and they hesi- the other by a sorrell stallion. The rule referred to may apply, with very few exceptions, to the lighter breeds of horses, but in the case of Shires and Clydesdales we fancy the studbooks, especially the earlier volumes, would reveal not a few cases in which it has not held good.

> "If I were President I would never appoint a bald-headed man on a diplomatic mission.
> "Why not?"

> "Why not, stupid? How could a bald-headed man split hairs?"— Baltimore American.

QUESTIONS AND ANSWERS.

residing on his homestead for the first year or only to one who has secured

2. I purchased cows value \$175.00 from a neighbor, and paid \$50.00 cash down, giving a note for the balance (\$125.00). The note fell due, and I was unable to meet it. Can he claim cattle, or enter a judgment against The well-printed and illustrated There is no lien or chattle mortgage pamphlet recently issued by the Cana- attached to the transaction. Please dian Ayrshire Breeders' Association, state what he can do, and how far the containing the minutes of the annual law protects me. I have a copy of the and directors' meeting of the Association for 1906–7 should be secured by wlation

Ans.-1. Under the Executions Act meetings, the scale of points for judg- the land upon which the judgment ing Ayrshires, and the rules and regu- debtor or his family actually resides lations for the Record of Performnace, or which he cultivates either wholly and is liberally illustrated with por- or in part or which he actually uses traits of notable prize winners at for grazing or other purposes to the principal Canadian shows. Parties extent of 160 acres, is exempt and free desiring copies should write the secre- from seizure under all writs of executary, Mr. W. F. Stephen, Huntingdon, tion issued by any court in this profrom seizure under all writs of execution issued by any court in this province. A homesteader has no right to his land, which may be seized under execution until the patent has issued to him, the land being wholly the to him, the land being wholly the to him, the land being wholly the land being wholl the land being wholl the land being wholly the land being wholl th A correspondent having written to the Scottish Farmer that he believed a mistake was made by the Correspondent having written to him, the land being wholly the

lambed twins on the 7th of April and a 2. If cattle have been purchased single lamb on the 13th of same month, outright and no lien note or chattel another shepherd writes that he knew mortgage given for their price, the a case, that came under his own obser- judgment debtor is entitled to exempvation, in which a ewe dropped a second tions to the extent of three horses lamb thirteen days after she had given mules or oxen and six cows, etc., and birth to a single lamb, both of which providing that he has not more than lived and did well, the first lamb being six cows including calves and heifers put on another ewe when the second or more than three oxen including came, and the latter nursed by the steers, these cattle cannot be taken under a writ of execution. The seller therefore cannot claim the stock unless you own more than the law exempts

JOINT ILL.

Colt, ten days old, took joint ill. My "Well sir," thundered the judge, veterinarian treated it. It broke and "why didn't you speak to her, may I discharged matter. The swelling has ask?"

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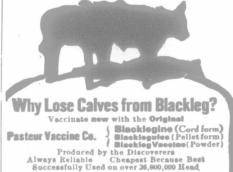
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as a drench, three times daily.

BURSAL ENLARGEMENT.

Colt, two weeks old, has soft swellings below the knees on the outsides.

Ans.—These are bursal enlargements that, in all probability, will disappear spontaneously. Leave them alone, and, if still present in the fall after weaning, printed on back of forms. blister them.

HEIFER PASSES BLOOD.

Cattle were driven 25 miles in two days. One heifer passes blood, and she well. She is now on clover pasture.

warm water as a drench, three times cause and the treatment of same. daily. If there is any tendency to constipation, give one pint raw linseed oil, once daily as indicated.

PLANTATIONS.

Would you kindly inform me as to the without treatment. best means of preventing the damage done to strawberries by the white strawberry grub? The grub referred to is about one and a quarter inches long by one-quarter or more in diameter when grown, and has a red head. Do you think a small amount of crude oil sprinkled near the plants would drive them away and not injure the plants. Do they come on top of the ground at nights, and how long do they remain in the ground before they emerge as beetles?

Ans.—The white grub to which you refer is the larva of what is commonly known as the May beetle or June bug. There are several species of these beetles, and the time required for full developknown, but, as a rule, they take two berries upon land which has been lately in sod. It is best to grow potatoes or some such crop upon the sod tors or some such crop upon the sod tell me probable cause? for a year or two before the land is planted to strawberries. About the only way to deal with them in a strawberry plantation where they are trouindicate their presence. Crude oil or anything of that nature which would local veterinarian. destroy the larvæ would also destroy O. A. C., Guelph. H. L. HUTT.

CLYDESDALE REGISTRATION.

and where can it be got?

SUBSCRIBER.

four dams at top of pedigree have registration numbers. Very few mares in Secretary, the mare's perhans and he the animal out in cold rains.

Ans.—Recoveries from cases of this kind are very rare, and it would have been better if you had left the case in presentation of the certificate above the hands of your veterinarian. Flush mentioned renders her eligible to regisout cavity with a four per cent. solu- try in the Canadian Clydesdale Studtion of carbolic acid in water, three book. If you want to register her in times daily, and give 5 grains iodide of the Canadian Studbook, address potassium in a little of the dam's milk "Accountant," National Live-stock Records, Department of Agriculture, Ottawa, asking for blank application forms for registry and transfer, which fill in as per directions on same, and mail, together with export certificate and necessary fees, to the Accountant as above. The fee for registering is one dollar to members, and two dollars to non-members. The membership fee is two dollars a year; the transfer fee, 50 cents. The rules and fees are

HORSES WITH SORE MOUTHS.

My horses are suffering from swollen lips. They all eat well and are in good condition. They have all been workdays. One heifer passes blood, and she has not done well, and does not eat day's illness. The noses and lips feel rather warmer than usual. They dislike being touched on the nose. Ans.—Give her 2 drams each of gen- difficulty in putting bit in the mouth tian, nux vomica, powdered opium and of one and had to work her with lines solid extract of belladonna in a quart of buckled to the halter. Please give me "RAYMOND" OXBOW.

Ans.—It is difficult to say what was the trouble with your horses from your description, but must be some local WHITE GRUBS IN STRAWBERRY cause, most likely something in the hay or mosquitoes. Try to remove the cause and your horses will get better

POISONED CALVES.

Two calves were castrated at about two and four weeks old in April. The weather not being very fine they were kept in pen in stable. Pen was cleaned about twice a week and bedded daily. They appeared to heal up all right, and seemed perfectly healthy. About three weeks later lumps appeared on their faces something like lump jaw, only not fast to jaw, but in cheek. One became very badly swollen in cheek; could see no sign of swelling or anything wrong in mouth. Soon one broke in calf's mouth and very offensive smelling pus escaped. Calf soon became very sick, a cough developed, and calf failed ment of the larvæ of each is not definitely rapidly; lumps were discharging pus into mouth continually. Eventually known, but, as a rule, they take two or three years to develop from the egg to the mature beetle. The eggs are laid by the female in sod or grass land, but some blood and serum came. The and the young grubs live upon the roots swellings don't seem as if they needed of grass and other plants. In such lands, lancing; they feel quite hard. Fomentthey may often be found in all stages, ing didn't seem to reduce it at all. from the newly-hatched larva to the The only other treatment given was they feed in this stage altogether below ground, it is practically impossible to reach them with any insecticide. The best way to avoid their injury in straw-kept outside all day. Now the other

Man. Ans.—Your calves were affected in a very peculiar manner. It was evidently a case of blood poisoning, but blesome is to dig out the larvæ and impossible to give anything like a prodestroy them wherever dead plants per diagnosis of such cases without seeing them. You should consult your

RHEUMATISM IN HORSE.

Horse four years old had distemper a year ago. Swelling under jaw was slow in breaking, so we blistered. Horse went lame, more so in hind legs, I have an imported mare, and on the all four legs swelling up. Little was pedigree there are no numbers after her done for it at the time. Was turned last four dams, and her own number is out on grass; lameness and swelling all not on. Please tell me if I could get left; only a slight stiffness in hind parts those numbers on, and where would I remained. Latter part of past winter have to send her pedigree to do so, and lameness returned in hind legs with the address? What does a transfer cost, some cracking of joints indicating rheumatism. Can anything be done now? Horse was well taken care of Ans.—You are fortunate if the last last winter and looks fairly well.

Aus. -- Your horse is certainly affected the Scottish Studbook have more, and with rheumatism. Give him Salol in the Scottish Studbook have more, and the probability is that more cannot be can dram doses twice per day in mash had. If you have a certificate is in the Scottish Studbook, or more prosclatic to the Clydesdale Studbook of terms firstly the Clydesdale Studbook of terms firstly and Ireland, signed by A. W. Walsers, Line with embrocation and do not leave and Ireland, signed by A. W. Walsers, Line with embrocation and do not leave

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E MOUTHS.

ig from swollen and are in good all been workhave not had a s and lips feel l. They dislike nose. I had in the mouth her with lines Please give me t of same.

) say what was orses from your be some local hing in the hay remove the will get better

VES.

ated at about in April. The fine they were en was cleaned bedded daily. all right, and About three ared on their

) jaw, only not

One became

eek; could see lything wrong roke in calf's smelling pus me very sick, d calf failed charging pus Eventually I lanced the e if I could , but nothing n came. The they needed rd. Fomentice it at all. cup of boiled ay as long as

rse as soon as calves were ow the other ay. Can you 1 a case, and C. G. G.

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It was evi-

consult your

ORSE. d distemper ler jaw was e blistered. in hind legs, Little was Was turned swelling all n hind parts past winter 1 legs with indicating ig be done ken care of

well. H. P. inly affected im Salol in lav in mash by giving otash three o muscles of lo not leave

INJURED OXEN.

face just below the eye with a club. There is a large lump there now and it bleeds sometimes at the lower side of the lump. Kindly let me know if there is anything will take lump off. Does not seem to hurt him any, only bleeds splints on. Was thinking of keeping and is red for about the size of a fifty cent piece like proud flesh at the bottom him. of lump.

2. Have an ox that got hind leg cut in mower last summer just above lower joint; the hair is off and at times it cracks and bleeds. Kindly advise if anything can make hair grow again and cure cracking.

Sask.

the bones of your ox's head have become until the fetlock became raw and then diseased internally. Not much can be to suddenly recover apparently by done for him. You might try a blister learning to control their legs. If not composed of biniodide of mercury, 2 drams; powd. cantharides, 2 drams; hope for him. vaseline, 2 ounces. Cut off the hair and rub in well on the hard part; leave on for thirty-six hours; then wash off and apply vaseline. It may be lumpy

2. Keep part well greased with vase- work. line or mutton tallow and add a few i Ans.-Steers intended for work are drops of carbolic acid to the grease.

TUBERCULOSIS AND DEBILITY.

heifer aged three years, die. She had necessary to break a pair of two or had a cough since last spring, and never three-year-olds, not previously handled, seemed to thrive very well although on abundant pasture. Last winter she yoke, as preferred) is put on them, and had unfortunately to be outside most they are turned out into a small field or of the time and fed in the yard with yard, near the barn, first taking the about 125 other head. She never precaution to tie their tails together. seemed to have a good appetite and This is done to prevent their becomnever rustled around like the others. ing "turned" in the yoke. After the About three weeks ago she fell down cattle become accustomed to being another road home but I succeeded in yoked up they are hitched to a light on the road home, but I succeeded in yoked up, they are hitched to a light getting her up again. The next day log, and allowed to haul it awhile, she seemed to have lost all power in Then they will work on the plow. her back, and till the time she died we harrow or waggon with little or no had to raise her. We held a post trouble. In plowing, two men, or a mortem examination and found that man and a boy, are usually required, under the hide and round all the one to hold the plow, and the other muscles above the hocks, round the to drive, the cattle being quite spine and root of tail, under the gullet easily taught to mind the words "gee" and shoulders, there were lots of cysts, and "haw" (right and left), the comsome large some small, full of a pale mands being gently enforced with the yellow transparent matter like a very whip. A well broken pair of oxen rethin, clear jelly. She had lumps all quire no driver in plowing, but are round her jaw, loose hanging lumps guided solely by the voice of the plowalso full of this liquid. Her right lung man. was of a dark purple color, and breaking into fragments and much smaller than her left lung which seemed normal. Back the horse into a narrow stall. There were present also round her heart Slip a running noose of thin smooth rope and lungs and on some of the intestines (clothes line or window cord) over upper more cysts full of the same liquid, front teeth (incisors) inside of lip; then Her blood was very thin and light in throw free end of rope over an overhead color and all her muscles seemed very soft and watery. The calf (a heifer) hold it so by means of the rope." was in good condition, and well proportioned.

We have been wondering if she died from tuberculosis, but never having seen a case before cannot form any decided opinion. The cavity of the lung contained about a half a pail of water. I had a two-year-old steer die at Christmas time. He was very poor and had a cough also. Both these animals were sired by a purebred Holstein bull (registered). Your opinion of the matter would much oblige.

W. W. H. Man. Ans.—The heifer had tuperculosis which was hastened by debility and lack of nourishment toward the last. The disease is not transmissable from sire to offspring, but the tendency to it

BREEDING HEIFER.

robust constitution should be used.

breed a calf?

calves at two years and sometimes at peck of quick lime in his well at intertwenty months.

COLT OVER ON FETLOCKS.

after a couple of days got strong enough to get up alone, but is now walking on fetlock joints with feet turned back him a month, then, if not better, killing

Ans.—You might try plaster of

Paris bandages. First apply a nice bandage from top of hoof to half way between fetlock and knee; then mix up your plaster and apply all over the bandage. Keep the colt as quiet as possible. Probably the bandages alone Ans.—There is no doubt but that legs. We have known them to go over would be sufficient to strengthen the better at a month there is not much

BREAKING OXEN FOR WORK.

Please describe the breaking of a pair of two or three-year-old cattle to

usually taken in hand at from six months to one year old, and gradually accustomed to being yoked up before I have just had a grade Holstein years old. When, however, it becomes

DRENCHING HORSES.

beam, raise horse's head snfficiently and seems sufficiently explicit, but as the instructions have been misunderstood it may be added that when the noose has been placed around the upper teeth, under the upper lip, the free end of the rope then is thrown directly over the beam above the horse's head, or passed through a pulley fastened to the beam for the purpose and then by means of the rope the horse's head is pulled up sufficiently high to allow of giving the drench. The noose is tightened upon the teeth and does not include the upper lip nor does it pass around the poll.

HAIRLESS PIGS.

What reason can you assign for sows farrowing hairless pigs? There has been a great deal of that in this part of the country this spring. Three years ago nounced cases from one sire there is we had a very severe winter and lots of the suggestion that a bull of more snow, so that sows took very little exermany litters of hairless pigs and many weak litters that died.

1. Calf two years old shows no sign of being in season. What can be done to bring her round?

Ans.—We think one of the most sensible theories advanced in explanation of the prevalence of weak and hairless 2. Is eighteen months too young to pigs and foals in Alberta is the fact that lime is a lacking quantity of the drinking water and soil of that country and that during winter live stock, sows especially, Ans. -The only thing that can be eat snow instead of drinking well water. done is to let her run in a herd with a W. F. Stevens reported that he had apparently improved matters by mixing phosphate of lime with the concentrates 2. No, not if she is well grown. phosphate of lime with the concentrates Helfers frequently have their first fed to sows and in addition putting a vals of about sixty days.

1. We bought an ox this spring. Colt three weeks old was born weak Last fall the owner struck him on the and had to be helped up to suck, but

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caseine web catches a third to half the You stand that loss just as long as you use pans or cans for they haven't enough skimming force to take out all the cream. But, just the minute you commence using Sharples Dairy Tubular Cream Separator, you stop that loss

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ENGINEER'S CERTIFICATE.

Will you kindly inform me where am to apply to, to get the necessary papers to run an engine?

Ans.-Write the Department of Agriculture, Regina, Sask.

CHRONIC COUGH, WORMS.

Would you kindly let me know how to doctor these horses? One of them a gelding bronco, broken two years has good enough to give me a perscription for a horse that is pretty thin. He eats well but does not seem to put on flesh.

in weight. Sask.

they are found to be uneven, with dry and free from dust or draft.

BUNCH ON LEG.

I drive him considerably and I thought I would blister it and see if that would A FEW TIPS ON CEMENT AND CONremove it. Blister worked O. K., but the whole leg up to the hock joint swelled about one-third as large again as normal. Take him out and work for sand and crushed rock. The sand an hour and the swelling goes down all should be coarse, clean and sharp. except where the bunch was. It is River bottom sand, when fine and about two weeks since I blistered him. round, should not be used where much get all right? Prescribe.

Sask.

ficial inflammation of the skin which hand diseard that sand. If, when a sometimes has a tendency to spread large handful of the same is thrown considerably beyond the parts to which it was applied and intended to only act upon, and such is the case with your horse's leg. Wet the parts two or your horse's leg. Wet the parts two or because of the rougher edges. three times daily with the following solution: nitrate of potassium, 6 ounces: vinegar, 1 pint, add water to make one-half gallon. Continue until the mixtures for concrete: leg becomes as it was before you applied the blister. After this, paint the coment, 2 parts of clean, coarse sand "bunch" every alternate day, for one ! parts of crushed rock. This is used week, with compound tineture of for floors, fence posts, etc. iodine. Leave off for one week and 2. Medium mixture -1-21-5 (parts repeat. Do this for three months

GOSSIP

THE CARE OF YOUNG PIGS.

Pigs should be stirred about in their bed when two days old and be closely observed each day thereafter and made to take considerable exercise. The bed for the sow and litter must not only be a cough and it is worse after he gets a free from draft but must also be dry drink of water and goes back to the hay. and free from dust. Bright baled wheat Coughs when he is at work. My hay straw seems to be especially well adapthat I am feeding is very dusty, but does ted for bedding the sow and litter. Rye not seem to affect the other horses. Two straw seems to cause coughing and oat of the horses are affected with worms and one with bots. Would you be or some succulent feed should be provided for the sow and litter and the pigs should be allowed a liberal amount of The horses are all between nine and ten solid food as early as they will partake years old and about fourteen hundred of it. It seems to be necessary to the health of the pig that he be able at any early age to procure solid food in con-Ans.-1. It is a great mistake to siderable variety. The usual form of feed dusty or musty hay, especially to creep should be used for the little fellows a horse that has a chronic cough, or is to make it possible to feed them unmolshowing symptoms of 'broken wind,' ested by their mother. A separate lot as your bronco decidedly does. If you must feed dusty hay, shake the dust out of it as thoroughly as possible and dampen it before feeding it to any of the animal your horses. To the animal your have your horses. To the animal you have practical eye of the experienced feeder mentioned feed only a moderate quan-at once sees the danger of thumps in the tity of hay at any time. Give morn-sleek, glossy coat of his little beauties. ing and evening in food or water for The sure quick remedy for thumps is two weeks: 1 ounce Fowler's Solution exercise, either by brisk driving or by dropping the affected pig into an empty 2. Prepare each of the horses for a barrel or box apart from his mother and dose of purgative medicine by feeding allowing him to fret and try to get out exclusively on a mash diet for sixteen for an hour or so each time and two or weeksand then give to each the following: three times each day until the trouble Barbadoes aloes, 7 drams; colomel, 1 disappears. If the pig gets stupid and dram; ground ginger, 2 drams; soap, refuses to fret and jump when placed sufficient to form a bulb. When the in the empty barrel, lay the barrel down purgative has ceased operating, give and roll it back and forth with the pig in morning and evening, in food, or by it for a few times; this will wake him up placing well back on the tongue with a and cause him to want out. Scouring tablespoon, for one week, one of the is usually due to either a damp bed or tablespoon, for one week, one of the is usually due to either a damp bed or following powders: Ferri sulph. bicar- the condition of the sow's milk. Upon bonate of soda, and powdered gentium, the first appearance of scours among the of each, 3 ounces; nux vomice, 2 ounces. pigs, give the sow a tablespoonful of Mix, and divide into twenty-eight sulphur or about the same amount of slaked lime in her feed until the trouble 3. Examine the horse's teeth and if disappears. See that the bed is kept sharp projections, have them dressed addition of lime seems to be an advanwith proper instruments and by a competent person. Give in a scalded bran proportion of about one tablespoonful of mash, containing a teacupful of flax seed, one of the following powders, one of the following powders, and one-half ourses with the litter one and one-half ourses with the litter of this seems to be an advantage to almost any ration; use it in the proportion of about one tablespoonful of hog. The addition of lime to the every night for two weeks: cupri sulph, ration seems to grow a much stockier one and one-half ourses with the litter of thine seems to be an advantage to almost any ration; use it in the proportion of about one tablespoonful of home seems to be an advantage to almost any ration; use it in the proportion of about one tablespoonful of hog. The addition of lime to each two hundred pounds seed, one of the following powders, stout built pig and to develop the little of the proportion of about one tablespoonful of hog. The addition of lime to each two hundred pounds seed, one of the following powders, stout built pig and to develop the little of the proportion of about one tablespoonful of hog. The addition of lime to each two hundred pounds seed, one of the following powders, and the proportion of about one tablespoon ful of hog. The addition of lime to each two hundred pounds seed, one of the following powders, and the proportion of about one tablespoon ful of hog. The addition of lime to each two hundred pounds seed, one of the following powders, and the proportion of about one tablespoon ful of hog. The addition of lime to each two hundred pounds seed, one of the following powders, and the proportion of about one tablespoon ful of hog. The proportion of about one tablespoon ful of hog. The proportion of about one tablespoon ful of hog. The proportion of about one tablespoon ful of hog. The proportion of about one tablespoon ful of hog. The proportion of about one tablespoon ful of hog. The proportion of about one tablespoon ful of hog. The proportion of about one tablespoon ful of hog one and one-half ounce; cinchona pulv. stout built pig, and to develop the litter and nitrate of potassium, of each two very uniformly. Continue liberally feedounces. Mix, and divide into fourteen ing the sow and litter up until the pigs are eight or ten weeks of age, when the sow should be removed entirely out of sight or hearing of the pigs, and after about five days she should be ready to front of hind leg just above the ankle one hundred strong, healthy, vigorous joint and healed up all right, but left pigs each year to each half dozen sows quite a bunch, which seemed to be used in the breeding herd.—W. A. loose; could move it round with fingers. Hart, before Indiana Swine Breeders.

CRETE WORK.

Ideal concrete is made of cement,

TWO TESTS OF SAND.

As a test of sand, rub it in the hand Ans. - A blister produces a super- and if there is much dirt left on the

PROPORTIONS TO USE.

Following are the four recognized

1. Rich mixture -1 part Portland

respectively of cement, sand and crushed

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great strength is needed.

seven-eighths of a barrel.

forcements.

the amount of sand in the gravel.

To make one cubic yard of concrete,

the following respective amounts of

UNDED 1866

G PIGS. out in their d be closely er and made e. The bed not only be also be dry baled wheat well adaplitter. Rye ing and oat ses. Grass ould be proand the pigs amount of will partake sary to the able at any

ood in conal form of ittle fellows nem unmoleparate lot e set apart litter. In care must imps. The iced feeder imps in the le beauties. thumps is ving or by o an empty nother and to get out and two or

the trouble stupid and nen placed arrel down h the pig in ke him up Scouring mp bed or ilk. Upon among the poonful of amount of he trouble ed is kept raft. an advanse it in the spoonful of ed pounds ne to the h stockier o the litter rally feedil the pigs ely out of and after e ready to

er. Such ore than vigorous ozen sows .--W. A Breeders. ND CON-

cement. he sand d sharp. fine and ere much

the hand t on the when a the water nd makes rock il l graves

ecognized

Portland rse sand s is used

5 (parts 1 crushed

RULES FOR MEASURING AND MIXING. Measure exact amounts of each part. Mix thoroughly, and not too long before applying the water. Cement and it disturbed after that loses its than required, the balance at a through the Treasurer Spread the sand and cement on a

mixing board, and mix thoroughly, adding enough water when mixed to membership rates until the memberbring the mixture to the consistency ship fee for current year is paid. Memof mortar. Add the proper quantity bership fee to any of the Record Assoof crushed rock and mix all together, ciations may be sent to the Record after which it is ready for use. In this Office, payable to "Accountant," as manner the sand grains are all covered above. Annual fees are due on January with the finer particles of cement, and 1st of each year. the crushed rock when added has all APPLICATIONS MUST be made on the the voids filled with the temperate forms supplied and must be signed by

cork). This mixture is used for walks, which should not be necessary with a thin walls, etc.

which should not be necessary with a reasonable amount of care upon the 3. Ordinary mixture -- 1-3-6; for part of the applicant when the appli heavy walls, piers, abutments, etc. cation is made out. If the results 4. Lean mixture—1-4-8; for footings are to be satisfactory in the trans and in places where volume and not action of business with the Record Office, it is necessary that the applica-When gravel is used the proportions tion be correct and complete. With are one part of cement and from six this object in view, attention is drawn to nine parts of gravel, according to to some of the points often overlooked

FEFS must accompany all applications before pedigrees are recorded and cement are required: Rich mixture, direct and payable to "Accountant, bbls.; medium mixture, 1½ bbls.; medium mixture, 1½ bbls. $1\frac{1}{2}$ bbls.; medium mixture, $1\frac{1}{4}$ bbls., ordinary mixture, $1\frac{1}{8}$ bbls.; lean mixture National Live Stock Records." No exception whatever is made. Here-In construction work, such as floors, tal notes will be returned together with barns, fence posts, bridges, etc., reinthe application unless made payable to "Accountant" as above directed. forcements of iron are absolutely essential. The beginner will need the If fees are sent in bills or silver they supervision of an expert in using reinshould be registered. Silver should not be enclosed in large envelopes. See that the correct amount of fees are forwarded. Information as to charges will be found printed on the back of will set in twenty to thirty minutes, than required, the balance is immediof the Association.

Registrations cannot be made at



MARQUIS OF MARIGOLD.

First in junior yearling class at Toronto 1906. Now heading W. H. English's herd, Harding, Man-

greatest strength for material used.

to mix all three parts at one time while the animal the pedigree of which is to yet dry, and then to mix with water be recorded; the applicant then signs until the mixture will pack well and but transfer must be supplied signed handle with a shovel.

use lumber that is too dry, as it takes application forms show when the sig up moisture and changes its shape so nature of owner of service sire is required. as to injure the concrete in setting.

should be protected from the sun for three to five days and sprinkled with Applications must be written plainly water to insure even setting throughout in ink. In cases where any person

sufficient for ordinary use, but sixty for such signature. Where other names than that of the breeder appear on a full load.

INSTRUCTIONS AS TO THE RECORD- applicant. ING OF PEDIGREED LIVE STOCK.

It is desired to give the best possible service to persons wishing to record pedigrees of purebred stock. If the regulations have been complied with when the application for registration is received, the work will be promptly done. In a very large number of cases, however, applications are made out incomplete, forwarded without suffiessential particular. In such cases not more, than eighteen letters. result is as unsatisfactory to the licent as to the Record Officer time ost in procuring certificates and tional correspondence is required Ottawa.

not more, than eighteen letters.

Address all correspondence as follows:

Address all correspondence as follows:

Accountant, National Live Stock overything that can be raised. Price \$4,000. Half cash, balance on mortgage at 8%. Address E. C. Arthur, Box 63, Nelson, B. C. he result is as unsatisfactory to the pplicant as to the Record Office: time ditional correspondence is required Ottawa

mixture. This undoubtedly gives the the breeder, except in cases where the eatest strength for material used. applicant purchased the dam after A very common method, however, is being served and before giving birth to by the breeder and giving information Get the form walls rigid, and do not as to service and date of purchase. The Special attention should be given to Do not allow concrete work to dry see that the registration number of sire out fast, as cracks will appear. It and dam (in case of Shorthorn females, volume and page) are given correctly other than as stated above signs, expla-In two weeks concrete gains strength nation must be given as to the authority the application it is impossible to tell from whom it comes. A letter must be enclosed stating the name of the

> It is necessary to transfer all dams from their recorded to their present owners before progeny may be put on

record. THE BREEDER of an animal is the owner of the dam at the time of service Application Forms for all breeds and addressed envelopes will be sent free on request. These addressed envelopes do not require postage.

It is desirable that all names be short. 120 ACRES of FRUIT and HAY LAND

Get Ready for Spring KOO!

When you build, you want the roofing that will give you the best service—that will last so long that its cost per year is less than any other.

Paroid has proved in actual use on farm and dairy buildings, on factory and railway buildings, on government buildings at home and abroad, to cost less per year than any other roofing.

There are good reasons for it:

It is better made and is made of better materials. Its basis is a better, tougher, more durable felt-

made in our own mills. (Established in 1817.) We are in position to know that it is. You cannot afford to buy a roofing made from a cheap felt nor from a

manufacturer who does not make his own felt.

Paroid has a thicker, smoother, more pliable coating than any other ready roofing. It is better all the way through. You can see and feel the difference.

It is the only roofing laid with square, rust-proof caps which do not rust nor work loose and which have the largest binding surface. Read our offer and let us prove to you its superiority. If your dealer cannot supply you, don't take a bastitute. Write to us direct.

Send Now For Free Samples

and find how to save money on your roofing. If you enclose 4c in stamps for postage we will send you free our new 48 page book of Complete Plans For Farm, Poultry, Dairy and Live Stock Buildings. It will save you money.

F. W. BIRD & SON,
(Established in U. S. A. in 1817)
WINNIPEQ OFFICE : 937 Lover Avenue Factory and Office,—Hamilton, Ont.

iginators of roofing roll containing complete roof-ing hit. We stand back of every foot of Paroid.

OUR OFFER

Buy one lot of Paroid; open it; inspect it; apply it to your roof, and if then you are not satisfied, send us your name and address. and we will send you a check for the full cost of the roofing, including cost of applying.

TORONTO

WINNIPEG

Jas. Richardson & Sons

Highest prices paid for all kinds of

in carload lots. Special attention paid to low grade samples WHEAT, OATS, BARLEY FLAX. Write for shipping instructions and price circulars.



In competition with leading makes has won some of the highest awards offered for cream separators. Its three leading features

EXCELLENCE OF WORK

EASE OF OPERATION

SIMPLICITY OF CONSTRUCTION

Tests have proved that the machine extracts practically all the cream fat from milk. Much less power is required to run it than other machines of similar capacity.

It contains so few parts that it can be cleaned in a fraction of the time required to clean others that have many parts.

It is so well built that it seldom goes out of order and requires but few repairs.

Write for our prices, they will surprise you.

LIMITED WINNIPEG, CANADA

FOR SALE



W E edit, compile and print Live Stock Catalogues. FARMER'S ADVOCATE, Limited.

4-16 Princess St. Winnipeg, Manitoba

WANTS & FOR SALE

Advertisements will be inserted under this teading, such as Farm Property, Help and Situations Wanted, and miscellaneous adver-

TERMS—Two cents per word each insertion. Each initial counts for one word and figures for two words. Names and addresses are counted. Oash must always accompany the order. No advertisement inserted for less than 50 cents.

WE WANT to hire two good men of brains, push and enterprise. If you can't rustle and make money don't apply—we don't want dead ones. B. J. S. & Co., Box 345, Winnipeg.

HUNDRED Firemen and Brakemen wanted on railroads in Winnipeg vicinity, to fill vacancies caused by promotions. Experience unnecessary. State age, weight, height. Firemen \$100 monthly, become Engineers and earn \$200. Brakemen, \$75, become Conductors, earn \$150. Name position preferred. *Railway Association Room 163—227 Munroe Street, Brooklyn, N. Y.—Employment Headquarters for all North American Railroads.

100 ACRE FARM for sale. Al Land. Half mile from Asquith, C.P.R. to Wetaskiwin. 1 mile G. T. P. siding. Terms, four thousand cash or five thousand four yearly payments—James Mallas, Asquith, Saskatoon, Sask.

FOR SALE—Forty head large English Berkshires, six weeks old and up. Pedigrees registered. T. E. Bowman, High River, Alta 10-7

IF'YOU ARE in need of anything search the advertising columns. You will find it in the FARMER'S ADVOCATE.

200 acres broken. Good house, with granary and stable on farm; farm well watered; station on place. Write quickly for terms. Address, Box 90, Plumas.

480 ACRES FARM for sale—All workable. 260 acres under cultivation; 60 acres with excellent bush. Farm well watered with never failing stream; Al buildings, new and up-to-date. Schoolhouse on place. Farm 1½ miles from Goldenstream station, C.N.R. Write at once for price and terms. Address, Box 22, Gladstone.

ON CROP PAYMENTS-200 deep soil farms for sale on crop payments. These farms are ready for the breaker, and close to Yorkton, Salt-coats, Rokeby and Wallace. Saskatchewan, and Reston, Manitoba. First payment after you sell the first crop. Apply now, James Armstrong, 4 East Richmond St., Toronto.

FOR SALE—British Columbia. Ranches, farms and fruit lands adjoining city of Kamloops; blocks of ten acres up; river frontage; produces peaches, apricots, plums, grapes, melons, tomatoes, which never fail to ripen; unlimited markets; terms easy. Apply Strutt and Nash, Kamloops, B. C. 21-8

BELLEVUE YORKSHIRES .- Over 100 head of spring pigs on hand. See previous issues for breeding, etc. Nothing pays better than good stock, well loo Wawanesa, Man. looked after - Oliver

CHOICE COLLIE PUPS, will make good cattle dogs. W. H Perry, Cochrane, Alta. 3-7

BULL FOR SALE Shorthorn, 4 years old. Sired by Scottish Canadian, dam Charity 2nd. Very sure. Ed. Oatway, Lillyfield, Man. 3-7

POULTRY and EGGS

Rates—Two cents per word each insertion. Cash with order. No advertisement taken under fifty cents.

W. C. TAYLOR, Dominion City—Barred Plymouth Rocks, Buff Cochins, Black-breasted Red Game, Eggs for setting.

EGGS for hatching from purebred Barred and White Rocks. Eggs 6 cents each.—Thomas Common, Hazel Cliffe, Sask. B-7

AT MAW'S Poultry Farm, Parkdale Post Office.

near Winnipeg. Acclimatized utility breeds'
turkeys, geese, ducks, chickens, incubators and
poultry supplies Large catalog mailed free,

ADDRESS YOUR CORRESPONDENCE to the DDRESS YOUR CORRESPONDENCE to the Eden Rest Poultry Farms, P.O. Box 333, Leth-bridge, Alberta, when you want eggs for hatching from pure bred, barred white and Buff Rocks. White and Buff Wyandottes, S. C. White and Brown Leghorff and Buff Orni gtons. Eggs \$1.50 per setting. E. J. Cook, Mgr.

H. E. HALL, Headingly, Man. Pure-bred Barra Rock Eggs for sale. \$1.50 for 15. Incubations, \$7.00 per 100 eggs.

WHEN REPLYING to advertisements on this page mention the FARMER'S ADVOCATE.

W. F. SCARTH & SON'S S. C. Buff Orpingtons.

Eggs from carefully selected hens mated with
first prize cock, Manitoba Poultry Show, 1907,
\$2.00 per 13. Box 706, Virden

CHOICE SINGLE COMB Snow-white Leghorn eggs from carefully selected pens of choicest matings. Bred for heavy layers and typical beauty. Testimonials report excellent hatches. Selected eggs reduced to \$1.50 per setting. Good hatch guaranteed. Orders filled prompt-ly! Honest dealings. G. Norman Shields, 29 Close Ave., Toronto, Ont.

BARRED ROCK Eggs from carefully selected pens of choicest matings. Leading strains of America. Selected for their choice barring and theavy laying of large brown eggs, and headed by cockerels, vigorous, blocky, and beautifully barred. I expect grand results from my Barred Rocks this season. Testimonials report excellent hatches. Eggs carefully selected from choicest matings reduced to \$1 per setting or \$1.50 per two settings. Good hatch guaranteed. Orders filled promptly. Honest dealings. G. Norman Shields, 29 Close Ave., Toronto, Ont. t 22-9

IF YOU ARE in need of anything search the advertising columns. You will find it in the FARMER'S ADVOCATE.

Lost, Strayed or Impounded

This department is for the benefit of paid-u1 subscribers to the FARMER'S ADVOCATE, each of whom is entitled to one free insertion of a notice not exceeding five lines. Notices exceed ing five lines will pe charged two cents per word for each additional word, payable in advance.

ESTRAY.

Estrayed from Sec. 25, Th. 11, R. 23, W. 2nd Mer.; two bay three-year-old mares, branded FT on left shoulder and FT on left flank. Notify H. M. Cathro, New Warren, Sask.

\$25.00 REWARD-For information leading to the recovery of a pair of imares strayed from the premises of the undersigned on or about May 25th. One is a light bay and the other a chestnut, about 14½ hands, 900 lbs. each. Supposed to have gone south from Strathcona, J. C. Johnson, P.O. Box, 155, Edmonton, Alta.

Breeders' **Directory**

Breeders name, post-office address, class of stock kept, will be inserted under this heading at \$4.00 per line per year. Terms cash strictly in advance. No card to be less than two lines or more than three lines.

POPLAR GROVE HEREFORDS, A number of young cows, heifers, and bulls now for sale from this famous herd at low prices. J. B. Marples, Deleau, Man. Buff Orpington Eggs.

A. & J. MORRISON, Glen Ross Farm, Homewood Man., Clydesdales and Shortherns.

JAMES WILSON, Grand View Stock Innisfail, Alta.,—Breeder of Shorthorns

H. H. KEYS, Pense, Sask.—Aberdeen Angu-Cattle and Buff Orpington Chickens for sale.

GUS. WIGET, Napinka, Man.—Clydesdales and Sherthorns for sale. Evergreen Stock Farn

WA-WA-DELL FARM.—Leicester sheep and Shorthorn Cattle. A. I. Mackay, Macdonald Man.

O. KING, Wawanesa, Man.—Breeder of Yorkshires, Barred and white Rock Fowl and Top louse geese.

MERRYFIELD FARM, Fairville, Thos. Brooks breeder of Clydesdales and Shorthorns. Box 13/

CLYDESDALES, Shorthorns and Tamworths T. E. M. Banting & Sons, Ranting. P. O. Man. Phone 85, Wawanesa. Exchange.

STRONSA STOCK FARM—Well bred and care fully selected Shorthorns and Berkshire David Allison, Roland, Man.

SHETLAND PONIES and Hereford Cattle, fines in Canada. Write or come and see them J. E. Marples, Poplar Grove Farm, Deleas.

JOHN GARDHOUSE & SONS, Highfield P O., Ont.—Breeders of Scotch and Scotch-topper Shorthorns, Lincoln and Leicester sheep and

R. A. & J. A. WATT. Salem, Elora Station, G. and C. I. R. R. —Champion herd at Torontand New York State fairs, 1905, also Grand Champion females, including both Sentor and Junior Honors at both fairs. Write your

BERKSHIRES.—Gold Medal Herd, Neepawa Manitoba. Address, J. A. McGill.

WOODMERE FARM.—Clydesdales, Shorthorns and Yorkshires. Pigs at 8 weeks, f. o. b. Neepawa, \$8 apiece. S. Benson

GEORGE LITTLE, Neepawa, Man. -Shorthorns

IF YOU ARE in need of anything search the advertising colums. You will find it in the FARMER'S ADVOCATE.

THE BIG HACKNEY SALE.

Apart from the larger shows the leading event in horse circles this season is the sale of purebred and grade Hackneys at Rawlinson's ranch, 11 miles from Calgary, on July 24th. This is the largest stud of Hackneys in Canada and has produced more sensational show-yard winners than any other harness horse breeding establishment on the continent. Hackneys seem to be peculiarly adapted to the environments of the Calgary district and Messrs. Rawlinson have been exceptionally fortunate in their selections of breeding stock. Their first big strike was in their choice of Robin Adair 3907. bred by John Lett, York. Eng. and used for ten years in the stud. In 1901 he was champion stallion in New York and first and reserve champion in 1902. He was also sire of the great winner Robin Adair II, and of the champions Saxon, Pricilla and Minona. Many of the lots offered in the sale are by Robin Adair; others are imported and by False Heir (imp.), Commodore, (imp.), Puritan (imp.), Black Doctor, (imp.), etc. Eighty-five lots offered are purebred and the remainder of the 159 are grade Hackneys, among which are to be found the potentialities of horse show champions.

The stallions offered are Commiodore (imp.), 6695 foaled in 1897, sire Chocolate, dam Affable. Chocolate was sired by Rufus, the sire of Robin Adair, and by using Commodore upon many of the Robin Adair mares, the blood has been concentrated in a serviceable, fashionable type of horse. Commodore is a thick stocky horse and has been an impressive sire. Another imported stallion is Flashlight a two-vear-old chestnut, bred by Sir Gilbert Greenall. sire Goldfinder 6th, by Danegelt with dam by Denmark. On his dam's side Flashlight has Fireaway for a grandsire, thus combining the Denmark-Fireaway blood, a very much Flashlight through esteemed cross. his dam is half brother to Clifton, the Half champion at the Roval in 1895 and at New York in '96 and '97. Three Commodore stallions are offered for sale. Golden Hope, a brown three-yearold, out of a Robin Adair mare is one. Drake, a two-year-old chestnut out of Florence, a Robin Adair mare and full sister to Minona, the highest priced mare, \$1,625, at Senator Beith's sale in 1905, and the yearling stallion Bunch Grass, dam Thelma, a full sister to the champion Saxon

The five imported mares are beauties. They are Steeton by Nil Desperandum 2nd, Timber Pride by Charley Merrylegs 3rd (this is the dam of Saxon); Terrington Lilv by Goldfinder 6th, Caxtonious by Caxton and Terrington Accident by Goldfinder.

To review the many Canadian-bred fillies offered would take more space than we have for the purpose. Suffice it to say they are a hardy stylish lot, with good control of their legs, having spent all their lives on the range and developed strong bone and muscles

enquiring parties n entioning this paper

W. H. Bryce of "Doune Lodge." Arcola, reports that up to the 1st o Tune his mares have dropped 10 foods. 9 of which are studs. In three years BROS., Ellisboro, Assa.—Breeders c Angus cattle and Berkshire swine both for sale. the best stallions.

ASHCROFT, W. H. NESBITT, Roland, Mac. Clyde and Hackney mares and Stallions, work horses in car lots, Ayrahires. Our motto, Liv. and let Live. Only \$1.45 per gallon

GUARANTEED 100 % PURE



Wingold Ready Mixed House Paints wear longer, look nicer, cover more sur-face to the gallon, than any other paint made

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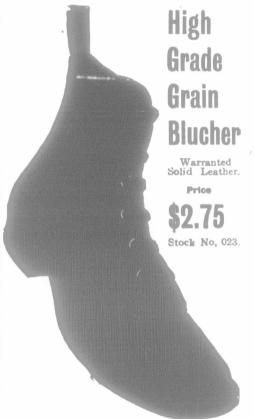
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than any other paint made.

DON'T PAY TWO PRICES and get inferior paint in the bargain but write us, saying, send me color card and cost of freight to my station, and you will receive by return mail a Handsone Color Card showing all of this season's Most.

Popular Shades, together with Suggestions How to Paint. 80 CENTS per gallon saved by buying Wingold Pure Paints. Every gallon guaranteed to give satisfaction or imoney refunded. Write to-day for Lowest Wholesale Price on Linseed Oil, X Varnish and Paints of all kinds. DEPT. F. A.

WINGOLD STOVE COMPY., Ltd. 235 Notre Dame Avenue, WINNIPEG



Save Your Repairing Bill. Buy the Best. If Amherst make is not sold in your town

E. J. BLAQUIER, Box 683, Brandon, Man. If sent by parcel post 50c. extra.

Gream Separators

We wish all who need Cream Separator to read the following letter, which speaks for itself: Locksley, Ont., May 11, '07 Windsor Supply Co., Windsor, Ont.:

Dear Sirs, — Please find enclosed the sum of 30c., for which send me India-rubber rings No. 47 for bowl top No. 2 Windsor Cream Separator. My sep My separator has been in use for four years, and still gives as good satisfaction as it did the first day

Yours truly, T. HAMILTON, N. B.—Please send catalogue of Threshermen's Supplies for 1907. T. H

We receive scores of letters like the above from all parts of the Dominion. Send for circular, giving full particulars, by return mail. All orders filled the day received. Our prices are as 0, cap. 100 lbs. milk per hour,

to 1. cap. 210 lbs. milk per hour, cap. 340 lbs. milk per hour, cap. 360 lbs. milk per hour, Catalogs of the sale will be sent to meuiring parties mentioning this paper.

Every Separator guarantees, and FREE TRIAL given.

Write to-day for Illustrated Circular and Catalogue, showing Home Repairing Outfit, Farmers Il and Forge, Spraying Pumps, and 1000 other things every farmer and dairyman needs Videoce.

Windsor Supply Co., Windsor, Ont.

We Do Job Printing

Right on Time Right on Quality Right on Price

Farmer's Advocate of Winnipeg, Limited



% PURE Id Ready Mixed
Paints wear
I, look nicer,
more surto the gallon,
ny other paint

T PAY TWO
S and get inpaint in the
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IPY., Ltd. INNIPEG

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High Grain Blucher

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the Best. n your town

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reshermen's e above from for circular, l. All orders ices are as

\$15.00 45.00

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Duality

i, Limited

infected with Mange. It is further provided, that all cattle within the said area are to be treated for the said disease between June 1st and August 15th, 1907, subject to certain limitations and provisions which, together with all other details, are set forth on posters issued by this Department and circulated throughout the above mentioned

Copies of the poster in question will be furnished on application to the nearest detachment of the Royal North West Mounted Police, or to the undersigned. J. G. RUTHERFORD,

Veterinary Director General. Department of Agriculture, Ottawa.

MONEY **SAVED!**

A SAVING OF

25c to 50c on the \$ Your Grocery, Clothing

Dry Goods and Shoe Bills

BY DEALING WITH US

ALL GOODS ARE QUOTED **EXPRESS or FREIGHT PREPAID**

We Pay Freight to any railway station in Western Ontario, Manitoba. Saskatchewan, Alberta and British Columbia.

Write for Our Latest Price List, it is mailed free on request. We only handle the best goods money

can buy, only goods of best mills, manufacturers and packers shipped. We Make Prempt Shipments.

We Absolutely Guarantee Satisfaction and Delivery.

All Goods Guaranteed or Money Refunded. It is a duty to You, to Your Family and to your Pocket Book to investigate

our prices. We do not belong to the Jobbers' or Retailers'guild or association or any trust

References: Any Bank, Railway or Express Company in the City, or the names of twenty thousand satisfied patrons in the four provinces.

Write for our Price List To-day.

Northwestern Supply House

Manitoba. Winnipeg

Kootenay Fruit Lands! Best in the World!

Write me for information. I know all about the land situation here, having been in business in Nelson twelve vears.

S. M. BRYDGES, Nelson, B.C.

Brydges, Blakemore & Cameron, Ltd.

EARNINGS OF BANKS.

The following statement shows the earnings of the principal Canadian banks that have recently given out figures:

	so of the principal Canadian Danks		
The state of the s	that have recently given out figures:		
	Sites out insured.		
- company to the territory	Per cent		
NOTICE is hereby given that by Order in	Profits earned		
Council dated 10th June, 1907, that portion	Banks. 1906 on cap.		
of the Provinces of Alberta and Saskatchewan	Montreal \$1.707.076 19.55		
bounded by the International Boundary, the	Montreal		
Doubled by the international boundary, the	Commerce 1.741.125 17.4011		
Rocky Mountains and a line drawn from the Rocky Mountains along the Northern boundary	Merchants 740,398 12.34		
of the Stoney Indian Reserve to the line			
between ranges 5 and 6 west of the 5th meridian,	Imperial 535,786 17.60		
thence north along that line to the line between	Dominion		
townships 28 and 29, thence east along that line	Toronto		
to the line of the Calgary and Edmonton Rail-	Molsons		
way, thence north along the Calgary and	Union		
Edmonton Railway to the line between town-			
ships 30 and 31, thence east along that line to	Ottawa 425,238 14.20		
the line between ranges 26 and 27 west of the	Hamilton		
4th principal meridian, thence north along that	Eastern Townships 279,610 10.10		
line to the line between townships 34 and 35,	Traders 396,231 13.21		
thence east along that line to the Red Deer River, thence north along the Red Deer River			
to the line between townships 38 and 39, thence	Quebec		
east along that line to the 4th principal merid-	Standard 175,652 17.54		
ian, thence south along the 4th principal	Union of Hailfax 168,151 12.58		
meridian to the Red Deer River, thence along	Nationale		
the Red Deer and Saskatchewan Rivers to the	Sovereign		
line between ranges 7 and 8 west of the 3rd	Hechelese 217 704 17 00		
meridian, thence south along that to the line	Hechelaga 317,504 17.30		
between townships 10 and 11, thence east along	British North America *345,695 13.82		
that line to the line between ranges 20 and 21	*Six Months.		
west of the 2nd meridian, thence south to the			
International Boundary line, is declared to be	THE GAITS OF THE AMERICAN!		
infected with Mange.			
	SADDLER.		
It is further provided, that all cattle within	A subscriber desires to know "the		

A subscriber desires to know "the gaits that it takes to constitute a saddle horse, and the difference between the rack and the single-foot.'

Any horse that wears pigskin and carries a rider is a saddle horse. The gaits do not make a saddle horse. he carries weight, that is, if he allows a man to ride him, he is a saddle horse in the broad sense of the term. But there are different kinds of saddle horses, and they are classified in part at least by their gaits. The three natural gaits of a horse are the walk, trot and gallop or run. Artificially, that is by educa tion, the gallop is made into a canter which is a gait performed by practically the same movement of the legs, but slower, more restrained and easier to ride. We then have one kind of a saddle horse called the walk-trot-canter or plain-gaited horse. This horse suits a lot of people primarily because they do not know any other gait; secondarily because they are imitators of the English fashion of riding, and lastly, and leastly, because they do not like other educated

and easier gaits. These easier gaits are the running walk and the rack. The latter is also called single-foot, inasmuch as in this gait each foot has a separate contact on the ground, no two of them striking it at the same time, as in the trot and pace. The running walk is called a slow gait and there are two other gaits allied to it the slow pace and the fox-trot. The name running walk defines the gait accurately, and at once identifies it to the understanding. It is faster than a flat-foot walk, and is produced by a more rapid than That is, each foot strikes the ground his present bowl, which would only cost him a few dollars. independently of the other. horses going the running walk bob or nod their heads and some of them even flop their ears in rhythm with their footfalls. It is an all-day gait. easy alike to the horse and the rider and it covers ground at an astonishing fashion for its apparent speed. It is taught by urging a horse out of the walk, but restraining him from a trot. The slow pace is a somewhat similar movement. but borders more on the sidewheel gait or lateral pace, in which the two feet on one side of a horse strike the ground at the same instant. The true pace, however, is in no sense a saddle gait It is rough and uncomfortable. A rider can not rise to it and save hin self, as in a trot, and it is positively the worst gait a saddle horse can possess. In the slow pace this side-wheel motion is slightly modified, so that the impact on the ground of the two feet on a side is broken, thus avoiding the rolling motion of the true pace. The slow gait is a very comfortable gait, and is very showy, especially when a horse throws just a little knee action into it. It has grown common in the show-ring during recent years, as saddle horse trainers appreciate its catchy qualities and endeavor to teach their horses to go this gait. The best saddle horse men, however, do not look on it with favor, as it is so easily corrupted into the abominable side-wheel pace, which ruins a horse for comfortable and satisfactory work. Unless a rider is careful his mount may almost imperceptibly degenerate from a distinct REGINA Sask.

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July 13th to 20th, 1907

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trot or a jog trot. It is a rather peculiar gait and not so desirable as the running walk or the slow pace. Some horses cannot acquire either of these two gaits and so their trainers pull them down into a very slow trot and seek to pass that gait off as a foxtrot. It is a broken time gait in a measure, somewhat easier than a pure trot and when cleanly performed it will answer as a business gait. The trot is the diagonal gait. The off foot and the near hind foot strike the

and correct slow pace into a plainly-defined pace and then there is sure

enough trouble. The fox trot is a slow

ground at the same instant and the bounds off them to hit the ground again with the near fore and the off hind. This gives a two-beat gait. The impact of the feet on the ground is one, two, one, two. The pace is the lateral gait. The off fore and the off hind foot hit the ground at the same interval, and the other pair on the near side follow. This is also a two-beat gait. The rack is a four-beat gait. Each foot hits the ground at a separate interval in a one, two, three, four beat. The rack can be distinguished by ear as far as the footfalls of the horse may be heard; each foot rings clear its own note on the hard ground. In teaching the rack the horse is forced forward by the spur and restrained by the curb. His diagonal gait is thereby broken up and he flies into a four-beat gait. The rack is easy for the rider, hard for the horse. It is a showy gait and is performed at great speed sometimes. The trainer who has a fast-racking horse will generally keep him on that gait when in the show-ring, hoping to dazzle the judges by the nashness of the performance. Unfortunately this trick succeeds many times, as some judges are too ignorant or too unbalanced to demand the other requisites of a saddle horse. Many a horse has racked his way to fame through the connivance of half-baked judges who proceed in the apparent belief that the rack is the only accomplishment de-manded of a saddle horse. This gait has been offically named the rack by the American Saddle Horse Breeders' Association, and hence the name single-foot should not be used, as it merely leads to confusion among the uninformed.

The five gaits recognized by that association are the walk, trot, canter, rack, and the running walk, or slow pace, or fox trot. Either one of these three slow gaits will answer. Some horses can only go one of them, some can show them all. When a horse can show these five gaits he is called a gaited

Saddle horses are differentiated by their gaits into two classes—the walktrot-canter horse and the gaited horse. The gaited horse can do all that the walk-trot horse can do and more. Therefore he is the more useful and the more valuable.

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The new system of underground "air pressure" water tanks for farms and villages promises to revolutionize that class of homes as much as did the wire fence telephone, as it gives to the farmers all the water privileges enjoyed by their city cousins. With an outlay of from \$40 to \$100 everyone in the country may have water "under pres sure," for bath-room, closet, kitchen sink, stock drinking tanks, lawn sprink ling, and last but not least, for fire pro tection. The principle involved in this new luxury is as old as the "penstock of 1840 by which our grandfathers con veved water from the spring on the hillside to the watering trough at the house through hollow logs. The wind-mill or gasoline engine now takes the place of the hillside spring; iron pipes dis place the wooden logs, and the fauce holds the water in reserve until it i needed. Science has, however, added a new feature, viz., the air-tight, under ground iron tank, either new or second hand; into this, from the under side, the water is forced by the wind-mill unit the air is compressed into one-half its normal volume. This furnishes a protre of the "holly" or elevated Again, from the under side of this gor itchen, truck patch or the

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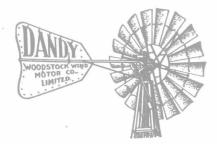
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plumber who can cut a thread or wipe joint is capable of fitting up a practical plant of this kind. Indeed, if the plumbers are awake to their oppor-tunities they will find an unlimited amount of this kind of work, as every man who owns a wind-mill must soon see the advantage of this plan over that of the open trough or elevated tank

fire hose to the top of the house. Any

The material and labor needed to carry the water a hundred feet from the wind mill into the house should not cost over \$100. It consists of a one-inch galvanized pipe, a plain ordinary "cut-off," and iron boiler of any size, the din ensions of which must depend upon the size of the pocket-book. A small one will act as perfectly as a larger one will; the only advantage the latter has over

the former is that "When the winds blow"—(not) "The water will flow"—(still)

Supposing the wind-mill is in operation, a hundred feet of iron pipe should not cost to exceed \$16; the boiler, 2x7, capable of sustaining a pressure of one hundred pounds per square inch should not cost more than \$46, an automatic cut-off \$15; four faucets \$5; a steam water-gauge to register the pressure, \$16; the labor of digging should be but little and a plumber's time may cost \$12, making a total of \$110, which will add to the convenience and protection of the home more than a like amount expended in almost any other direction. There is no good reason why every wind-mill owner should not enjoy this luxury. At some later date I will explain how the hand force-pump proposition will give a constant and even pressure of water from the cistern when forced through an air-tight chamber to different parts of the house or barn. So far as I know there is no patent to bar anyone from using this greatest of blessings-free water.

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usual rule for half-mile tracks is to have the stretches and turns of equal length. If the same rule is observed in laying out a third-of-a-mile track, each stretch and turn should measure 440 feet. Therefore, two stakes should be driven where one of the stretches is proposed to be located, 440 feet apart. The opposite stretch then should be staked out parallel to the first and 274 feet across at either end. A wire 237 feet in length should be made fast to a post placed equally distant from the end of either stretch, and the turns staked as directed in laying out other tracks The wire should be accurately measured, which may best be done with a long steel tape measure. Sufficient length should be allowed so that several turns may be made around a stick at the end and also a loop to slip over a spike to be driven in the upper end of the turning stake. One end of the wire should be taken and placed upon the stake at the end of the stretch, while an assistant with the other end proceeds toward the end of the opposite stretch. When the wire has been tightly drawn, the turning stake should be located in exact line with the stakes at the end of the stretches and firmly guyed in every direction. After the circuit has been made and the stakes driven for the turn, the novice will probably be surprised to find the wire is from six to eighteen inches too long from stretching. this should be the case, it should be shortened so that it will exactly reach For first-class and up-to-date photographs, go to E. B. CURLETTE'S New Studio in the Allan Block. Only one grade of work turned out, and that the best. No stairs to climb. All on the ground floor. Location: First door south of Post Office, Calgary, Alta.



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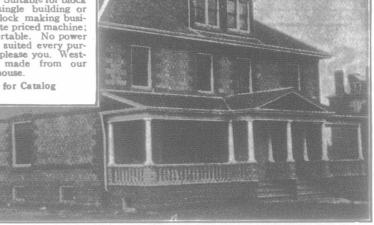
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necessary to have as many as three assistants to make sure that the chain follows the curve at the turns.

For a half-mile track draw the parallel lines 600 feet long and 452 feet five inches apart. Half way between the extreme ends of the two parallel lines drive a stake, then loop a wire around the stake long enough to reach to either side. Then make a true curve with the wire, putting down a stake as often as a fence-post is needed. When this operation is finished at both ends of the 600-foot parallel lines, the track is laid out. The inside fence will rest exactly on the line drawn, but track must measure a half-mile three feet from the fence. The turns should be thrown up an inch to the foot. The stretches may be anywhere from forty-five to sixty feet.

For a mile track draw a line through an oblong center 440 yards in length setting a stake at each end. Then draw a line on either side of the first line, exactly parallel with and 417 feet two inches from it, setting stakes at either end of them. You will then have an oblong tract 440 yards long and 834 feet two inches wide. At each end of these three lines you will now set stakes. Now fasten a cord or wire 417 feet two inches long to the center stake of your parallelogram, and then describe a half circle, driving stakes as often as you wish to set a fence-post. When the circle is made at both ends of yout parellelogram, you will have two straight sides and two circles which, measured three feet from the fence, will be exactly a mile. The turns should be thrown up an inch to the foot.

Touching the acreage required and another way to lay out a mile course, here are rules that will be found useful: "As to the necessary acreage, this must entirely depend on the surroundings desired. To merely contain a mile track sixty feet wide, a pace 759 yards long by 319 yards wide is necessary The area of this will exceed fifty acres by only 121 square yards. Having laid out a parallelogram of the above dimensions, bisect it longitudinally, and twenty yards eighteen inches from each end of the dividing line drive stakes 139 yards back of these stakes drive others. Between the latter you will have a base line exactly a quarter of a mile long. On each side of this at a distance of 139 yards draw lines parallel to it and the same length.

"Now attach a cord, or, better still, a fine wire, as that is less liable to stretch, to the pegs at the ends of your central base line, and describe a semicircle from each, driving frequent stakes. If your measurements are accurate the tangents of these half circles will exactly coincide with the pegs set near the extremities of the dividing line, and the ends of the two lines equal and parallel to the base. If you place your inside fence on the outer side of these semicircles and the parallel lines they join, you will have a track exactly a mile around measuring three feet from the inside of the rail, while if you place your outer fence just inside the containing lines and semicircles drawn through the bisecting points from the ends of the base line, the radii of which will be 1591 yards, you will have a running ground a trifle over sixty feet wide. The turns on a track of this width may safely be thrown up a couple

"It may interest you to note that the area of the running ground you will have to care for on a track of such dimensions will be nearly eight acres. Each yard you increase the width of the track will add two-fifths of an acre to your task. To keep a strip twenty-five feet wide along the inner rail in order, you must till three acres. The area of your infield will be thirty-eight acres; in each corner you will have a vacant space exceeding an acre by 300 square yards."

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JUNE 26, 1907

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Among the many symptoms are: Variable appetite, faint, gnawing feeling at the pit of the stomach, with unsatisfied craving for food; heartburn, feeling of weight and wind in the stomach, bad breath, bad taste in the mouth, low spirits, headache and constipation.

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will cure the worst case of dyspepsia. by regulating the bowels, and toning up the digestive organs.

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WINNIPEG BRANCHES

Street.

is a desire on the part of those living in towns and villages, as well as in less populated districts, for what are known as the "modern conveniences" of the city, is evidenced by the thousands of cess-pools in existence or being built, for the purpose of hiding away far beneath the surface of the earth the various organic and liquid wastes from private residences, public houses or institutions, as the case may be.

1st. That the power of mischief possessed by sewerage placed beyond the action of bacteria, is enormous

2nd. That the diffusibility of typhoid poison in water is practically infinite.

3rd. That water containing the germs of disease may not be purified by filtration through a mile of solid earth (a filter so fine as to arrest particles of wheat flour).

The moral to be drawn from the foregoing is that the greatest care should be exercised in the disposal of waste matters, and that under no circumstances should they be buried deeply under the surface of the earth.

The question will be asked, "How is decaying matter to be disposed of at the surface of the earth without creating a nuisance?" In answer to this question t may be said, that as far as it applies to he human excreta two methods have been found to work successfully, viz. the dry earth closet, the contents of which are dug into shallow trenches at regular intervals; and the septic tank ystem, the latter being preferable, for he reason that while it performs all the work of the dry earth closet, it will also take care of the liquid wastes from the house, and it requires little attention, while the former depends for its success upon unremitting care.

A brief explanation of the construcion and operation of the septic tank system will be of value to those who are anxious to have their premises in the best possible sanitary condition, and who are willing to go to a comparatively small amount of trouble to produce the

A tank constructed of brick or stone, well bedded in cement to prevent leakage. is built at such a level as to allow the discharge pipe, which is of glazed tile four inches in diameter, to leave it at a depth of not more than twelve inches beneath the surface of the earth Where the surrounding land is level, this tank may be located close to the building too; if covered with earth (and sodded over if desired) it will not cause any inconvenience. If more convenient it may be placed any distance from the house and the inlet pipe laid along a mound or ridge of earth and covered with earth to protect it from the frost this pipe must under any circumstances have a slight continuous fall from the building, too, and must enter the tank at the top. If, however, there is a considerable slope to the land, the tank may be buried beneath the surface, it being borne in mind that the branches of the pipe which may be taken off at any distance from the tank, must not be more than twelve inches beneath the surface and must be perfectly level From the discharge pipe about ever two feet, are run branches of field tile four inches in diameter, the total contents of which should be equal to the amount of water which will be discharged at each operation of the valve, and allowing thirteen tiles to every cubic foot to be discharged, the number required will be readily found. The end connecting the tank to the system of sub-surface tiles should be of iron. solidly cemented into the bottom of the tank to allow the caulking of the valve with lead.

The valve described in this article, which is manufactured by the Dominion Flushing Valve Company, of Toronto, is the only thing of its kind which can be set at any level, will open and close automatically, and, as it needs no adjusting, it can be put in by almost any person.

The septic tank system has the endorsation of all scientific men who has given the subject of sewage disposal close study. We have secured a detailed North End—Corner Main street and Selkirk avenue F. P. Jarvis, Mgr.
Main Office—Cor. McDermot Avenue and Albert which can be seen at this office by any account of the workings of this system N. G. LESLIE who wish to see it.

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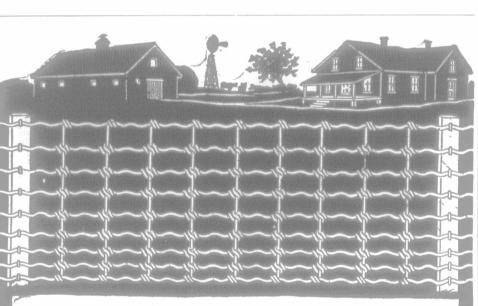
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BE CAREFUL OF DRINKING SLOUGH WATER.

Many a homesteader under stress of circumstances and hot weather drinks too heartily of slough water, which usually has a purgative action due to its alkaline contents. Against attacks of diarrhœa which are it long continued, especially in hot weather, so weakening, there should be kept on hand, some brandy and a bottle of Extract of Wild Strawberries. Many attacks will yield to a meal of flour boiled in milk. The following prescription has been recommended, but must be used carefully and

according to the druggist's directions: Take Tc.Opii (laudanum), Tc.Rhei (rhubarb), Tc.Camph (Camphor) Tc. Capsici (capsicum), Tc. Menth. pip.

(peppermint). The above ingredients are to be put up in equal quantities. And the dose is ten to thirty drops as needed according to the severity of the attack, and can be graduated according to the severity of the attack. Twenty-five or fifty cents worth of the mixture will do some time.

THE SYMPTOMS OF RABIES IN DOGS

A dog about to become mad is "out of his natural sort." His character changes; his habits are anomalous; sometimes he is dull, sometimes restless, and at other times he is over-excited or over-affectionate. These manifestations may succeed each other in a manner to make the subject appear capricious.

These are already the symptoms of rabies, and the disease is already contagious, although the animal is not as yet ferocious, and has not lost its reason. The essential characteristic of its nature —its sentiment—is pathetic. It is still lively and far from malfaisant against familiar persons, and although it may sometimes suddenly become unintention ally treacherous, it often shows still more regard for its master's affections. Its lickings are already dangerous, because the saliva is now virulent and

capable of inoculating the virus. Rabies in the dog is not characterized by manifestations of furor and ferocity at the beginning. It is by unnoticeable transition that the patient arrives at the period of rabid frenzy, and as this is ignored by dog owners it should be thoroughly impressed upon them, for once anticipated the danger for them and others would be lessened by chaining up dogs on the appearance of the premonitory symptoms. Preventive captivity would prevent the contagion from being carried farther, as the affected animal could not then obey the instinct of always running away from its

master's home. At the first period, that is, the initial period, rabies is manifested by appearances of extreme benignness. The animal is not as yet aggressive and does isolate itself, preferring solitude and obscurity. It hides away in corners of the house, under furniture or in recesses of the kennel; sometimes for a long time it remains somnolent and inattentive and at other times in spite of its illness it is continually restless and agitated, in contrast to its usual habits, and thus attention attracts to the peculiar change in the disposition. In vulgar parlance "the appearance is strange." It will lie as if to sleep and then suddenly awaken, come and go from one side of the room to another, lie down as if to sleep again for several minutes, and so on throughout this period of the disease. It will scatter the litter about with its paws and then replace it into a heap, upon which it seems to enjoy reposing its breast, and then suddenly it arises to scatter everything about again. In the house it upsets cushions, turns up carpets and disarranges the bedding upon which it ordinarily sleeps. It can find no place of rest, comes and goes continually makes an incessant noise with the claws scratches the floor, smells about the cor ners and under the door as if in search of something lost. At this stage it is still attentive to its master's voice and will follow along with the same earnestness and above all with the same expression of the physiognomy. If the tail is wagged the movements are slow and feeble, the expression becomes some what strange, and soon the animal will not respond to the call, but will return

In this initial stage a certain aberra tion of the senses is already noticed, for

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the victim, while sleeping, apparently has hallucinations. By and by it remains quiet, attentive, as if on gaurd, then suddenly sits on its haunches and snaps at the air is if attempting to catch a flying insect. Sometimes it will hurl itself against the wall as if it had heard menacing noises on the other side. But this instinct that causes it to snap at imaginary objects, to bark at itself or to thrust itself to the end of the chain, is not the ferocious instinct that appears later. The hearing is over-sensitive to

the hallucinations. In some cases there is intense pain in the internal ear, or else an intense itching in that region. The victim is more affectionate than ordinarily, its instinct is augmented, and at certain moments it will approach its master as if pleading for relief from its suffering. This affection for its master is sometimes so

the least noise, but is enfeebled during

manifest as to dominate the situation; even during the paroxysms which appear later, its master's voice may act as a calmative to the suffering animal; but to say that the master is in no danger at this stage is saying what is not true, because there are rabid dogs so unbalanced that they do not recognize their

THE MAD DOG HAS NO DREAD OF WATER. The rabid dog is not hydrophobic; it has no horror for water. As it is quite generally supposed that the disease does not exist in dogs that are seen to drink, many persons have slept in deluded security with their rabid pets. When a rabid dog is offered drink it does not retire in alarm; on the contrary, it will approach the vessel and lap it empty. It always swallows during the first stages of the disease, and until the constriction of the throat renders degluti-tion difficult. The attempts to drink are no fewer and the lappings are so much more repeated and prolonged that the animal dwells ineffectually in the act.

Rabid dogs are so little afraid of water that they will actually swim rivers.

Although the rabid dog may not refuse its food, and may sometimes even show a voracity that is quite unnatural it may lose its appetite completely and withdraw from its allowance without tasting or even touching it. At other times it will eat a little and then reject the remainder by upsetting the pan, to its evident satisfaction. Finally, however, the appetite always becomes depraved to the extent of lapping its urine, its feces or the feces of man or of other animals. At the same time it will seize with the teeth, tear, crush and swallow all manner of objects—the litter of the kennel, the yarn of cushions, bed covers, carpets, curtains, slippers, chips of wood, thongs of leather, grass, earth stones, glass and in fact everything it encounters. If tied in the kennel it will often attack the boards with such tenacity as to break its teeth.

Slobbering is not so abundant as the popular prejudice would have it, and it is an error to suppose that rabies does not exist in the absence of this symptom. The salivary secretion is ordinarily more abundant because of the irritation of the mouth provoked by the ingestion of foreign bodies.

THE BARK OF THE RABID DOG IS CHARACTERISTIC.

It is generally altered, and one familiar with its normal intonation can affirm that the dog is rabid. Commencing with a hoarse bark it terminates into a very singular howl of five, six or eight tones, each more elevated than the other During the howl the mouth does not completely close as in normal barking. One symptom, the most characteristic of all, is the impression made by the sight of an animal of its own species which is frequently so pronounced as to

immediately provoke a paroxysm. A dog that remains mute, found roaming about in a strange locality without a master, should be held as a suspect, in spite of the danger in catching it; and one that persistently bites some parts of its body in spite of the pain thus inflicted, should likewise be held, pending developments. Often, at the beginning there is a nervous prurigo where the victim bites itself under the influence of unbearable itching. It is said that at the beginning of rabies the initial bite becomes the seat of an abnormal vascuar activity and of a co-incident sensa-

tion of itching and pain. Soon confirmed rabies appears. But THE FARMER'S ADVOCATE

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me prove that four cows AND a Capital Separator will actually earn you -YOU, PERSONALLY -more money in cold cash profits than an EIGHT-cow herd and no Capital Separator. Don't take my say-so for it. Don't wrap yourself up in your own belief that it can't be done. It CAN be done, and I can PROVE it to you, in a practical, hard - sense fashion, with figures and facts that you won't want to dodge. Write to me and see.

Let's get the thing clear to start with. Here is what I say I can show you: That with four good cows and my method of separating, making

butter—and selling butter—you can make more money in one year than eight cows will make you without my method.

If I do that, -if I do show you a difference of over thirty dollars profit a year on every cow you keep, -then I want to talk business with you. I don't want a cent of your money until you are satisfied that I have made good every word I say and everything I promise. I don't want to sell you a Capital Separator until you ask me to, —I shan't importune you, nor bother you. All I want to know is your name and address, and how many cows you keep. When I get thes: facts, I'll tell you some things you haven't heard before. I'll show you not only why you need a Capital Separator, but why you can make more money by my method of selling butter than you'll make any other way. It won't be all separator talk I'll talk to you, you've read reams of separator argument, but you haven't heard yet about the right way to write to me-address as follows:

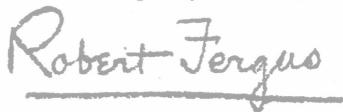
make butter and the right way to SELL butter, Tell me to tell you about it,-

Why don't I tell you right here in print? Simply because I am not giving "blanket" advice. What might be a good plan for a man in Ontario wouldn't work in Manitoba,—and I propose to advise each dairyman according to his location and other vital details. Naturally, I want to sell Capital Separators. I am no philanthropist. But I will sell them faster because I can tell people how to make them pay,—and that's something new in this business.

I don't care what your experience with dairying has been, nor what with separators. You may have what you think is the best separator there is. you may believe, as many do, that there isn't any real profit in dairyfarming. I can show you where you're wrong in either case. Do I get the chance to do that? Will you listen to the mere, sheer, downright facts? Just write to me and say so.

I don't care whether you feel able to buy a Capital Separator or not. It won't be a hard matter, once you get to the buying point, to make terms with me. Some of my friends—I don't consider them merely my customerstake three years' time to pay in. Some of them pay in three months. Doesn't make any difference to me, because I know, and I can prove to you, that my Separator will buy itself the first year you have it. It will save you enough money and trouble, to pay for itself twice over in that time. And I can prove that, too, -just write and ask

I've got a machine here, and a method, that will open your eyes to what there really is in keeping cows for profit. Maybe you are one of the few that know that already. Even if you are, you won't be any the poorer for reading what I'll write you. Let me tell you about the easiest separator to run you ever saw, -the easiest to buy,—the separator that skims cleanest and does it easiest, -the one with the really-low-down can, -and about the method that makes more butter, makes better butter, and gets better prices for it the whole year round.



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Marie to a distance of the AND Life to

not always characterized by a desire to bite, as there are cases where these symptoms of viciousness do not manifest themselves at all. The pupils are dilated and the eyes at times throw out a glistening flash. The reflection of light upon the internal tapetum gives to the eyes the appearance of balls of fire. In the excitement provoked by shutting it up in confinement it will hurlitself at the cage, issue its characteristic bark, and furiously bite the bars that prevent its escape, often breaking its teeth in the act. When teased with a piece of wood or iron the poor victim will seize it with the whole mouth and gnaw it formidably without uttering a sound.

These attacks occur at intervals more or less separated, and between them the animal is perfectly calm and seems to have recuperated all of the indications of perfect health. The rabid dog will attempt by every means to escape from its home, and once free it will flee, not with the tail between its legs, as ordinarily supposed, but with it well ele-vated and actively balanced. If an other dog is encountered in its flight it will attack it and bite it in silence. It the bitten dog offers no resistance nothing further occurs, but if resented a fight will occur in which both dogs will roll ver and over. Watched carefully, it will be observed that the one attacked is growling while the rabid one is silent

The rabid dog does not long retain a free gait. Pushed by fatigue, parox ysms, hunger and thirst and enfeebled by the fell disease, it soon gives out in its limbs, slackens its pace, vacillates the tail pendently, inclines the head toward the ground, drops the mouth open and lolls the tongue, which is blue and covered with dust.

Soon the posterior extremities and the aw becomes paralyzed and death super-

It is said that healthy dogs posses an instinctive perspicacity through which they suspect the existence of rabies in other animals of their species. However true this may be it cannot be denied that all dogs do not manifest such terror, as some dogs will bite rabid ones when shut up together

SYMPTOMS OF DUMB RABIES.

The symptoms of the initial period are the same as those of the mad form, but the paralysis of the lower jaw manifests itself at the onset and then develops progressively. The physiognomy of a dog affected with confirmed dumb rabies is most characteristic. The eyes are devoid of lustre and express fixed astonishment, and nothing will enliven the animal nor brighten up its expression. The patient is not ferocious; on the contrary the expression is that of sadness so sombre as to suggest fear, and it indicates well the inoffensive nature of an animal affected with this variety of the disease, a nature that results not in the non-virulence of the saliva, but in a condition of the nervous system that does not determine itself by aggressive manifestations. To this first feature that gives the atony and the sorrowfulness to the countenance, is coupled the strange expressions that results from gaping of the mouth, from which the tongue hangs inert and abundant viscous saliva flows during the first hours. At first the buccal mucosa reflects a red tint and presents the normal humidity, but the muscles of the lower iaw being incapable of supporting it or of closing the mouth, the incessant action of the air upon the interior walls soon desiccates the mucous membrane which then becomes dark blue in color and covered with adherent dust over

the dried surface There are cases in which the paralysis of the jaw is the only symptom of the disease; the dog is kind and affectionate and one is led to suppose that some obstacle, such as a bone between the teeth or within the pharvnx, opposes sustained from the teeth, explorations

The barking modulates in the sa

let it first be understood that rabies is Kootenay Fruit Lands For Sale 160 acres in Slocan Valley, no waste land; no stone; all level; soil first class, 2 nice streams. Close to school, P.O., Ry Siding. 7 acres cleared 400 fruit trees, some are bearing. Good log buildings. \$4000.00 Cash.

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Ontario.

lune 26, 1907

TOO MANY BIG WORDS.

Ex-Gov. W. D. Hoard, of Wisconsin, fired hot-shot into the expanding longwordiness of the scientific agriculturists gathered in Lansing, Mich., at the twenty-first annual convention of the American Association of Agricultural Colleges and Experiment Stations. The ex-governor is long and lanky, speaks with a tear in his voice and a sob in his eye, but there is a grim humor under it all, and everybody was roaring with laughter before he got through. Among his points were the following:

"The farmer is the objective thing in agriculture. We must get at him. Once I had an old German farm hand of whom I asked this question:

"'What is the matter with this ground?

"In his broken German he told me there was not enough humus in the ground. In amazement I asked him where he learned that. He said, 'In school in the fatherland when I was a little boy.

"We want to teach our coming farmers things like that. We are studying to get at the farmers. I don't expect to do much with the farmers of the present. They are like the old rustic, who with his boys was looking at a sick horse: "'Tain't no use,' said the old man, 'no use givin' him physic, his eyes is

"Our old farmers are too set in their ways. We must get at the young. The boy is the farmer of to-morrow He is the one I want to reach.

"And in the teaching of agriculture we want to be careful about the terms we use. Here on the program I read 'Extension Work in Agriculture.' You can't extend agriculture. You can't stretch out the land to double size. What you really mean is extension of agricultural knowledge. Say what you mean, and then people understand you.

"When you shove 'agronomy' on the unsuspecting public instead of 'agriculture' they don't know what to do with it. We must avoid this tendency to bring in such big words as to make agricultural schools alien.

"When I hear what the farmer has to say about himself I think he is all right. But when I hear what a lot of scientific people using long names have to say about him I feel a heap of sympathy for the poor farmer.

Trade Note.

MR. W. C. GRAHAM, of The Manitoba Farmers' Hail Ins. Co., rea large increase of business over the corresponding period last year. Almost without exception those who renew their business have increased the amount of their insurance. This indicates two things: it shows the confidence of the people in the Hail Insurance idea, and it also indicates an increased acreage in the settled districts of Western Canada. There can be no doubt whatever of the value of hail insurance. It protects from risk enables the farmer who has his crop injured to meet his obligations and face the world upon a square basis, and the fact that the western companies are this year reporting an increased business shows the confidence of the people and encourages belief in the stability of industry and agricul-ture in this country. We certainly commend hail insurance.

A group of workmen were arguing during the dinner hour. A deadlock had been reached when one of the men on the losing side turned to a mate

whole debate. Ere, Bill,' he said, 'you're pretty good at a argyment. Wot's your

in't a-going to say,' said Bill. shed the matter out afore with

said the other, artfully, and did you arrive at? ll. e-venchally, said Bill, Dick red at the 'orspital, an' I arrived perlice station!

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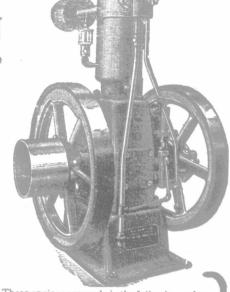
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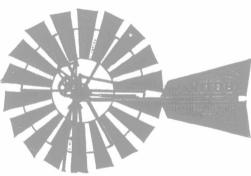
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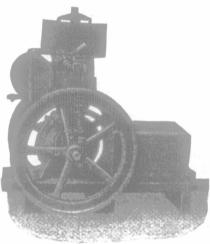
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