IERS ADVOGATE

AND HOME JOURNAL

ONLY WEEKLY AGRICULTURAL

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MAY 1, 1907

WINNIPEG MANITOBA

VOL. XLII, NO. 762

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acres, more or less.

Entry must be made personally at the local land office for the district in which the land is The homesteader is required to perform the conditions 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 years.
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(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 to the Commissioner of Dominion Lands at Ottawa of intention to apply for patent.

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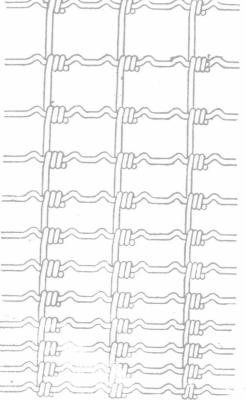
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in our columns. Rejected matter will be returned if accompanied by postage ANONYMOUS communications will receive no attention LETTERS intended for publication should be written on one side of the paper only. THE FARMER'S ADVOCATE is sent to subscribers until an explicit order is received for its discontinuance. All payments of arrearages must be made as required by law.

Address all communications to to
FARMER'S ADVOCATE OF WINNIPEG, LIMITED.
WINNIPEG, MAN.

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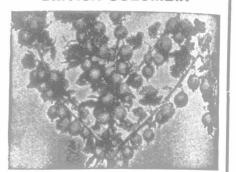
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Get in on this 20.000 cart deal while it lasts.
It only costs you one cent to get the proposition.
I leave it entirely to you if it is not just a little bit the most interesting harrow cart proposition you ever heard of.
Drop me a postal if you don't write another one for six months.

Don't buy a cart of any make, kind, brand, or at any price until you first get my proposition. I will then leave it entirely with you to be the judge.
I know what you Canadian farmers need in a harrow cart. I have built and sold more harrow carts than all other manufacturers put together and am selling them only direct from my factory to your farm. im selling them only direct from my factory to your

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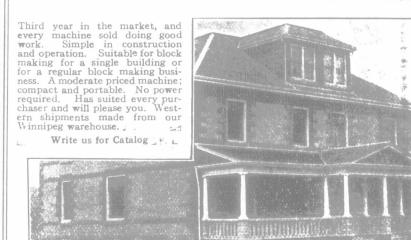
I own and operate a large farm at Lajord, Sask, near Regina, and know what is required of a harrow cart in Canada.

I know there is no harrow cart built that will begin to equal the Bike and meet your requirements like it. It is a high wheeler with a positive lock, just right for rough ground. I will carry a large stock at Regina and can ship quick. Write me to-day. It's interesting.

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The symmetrical design and the excellence of its work in the harvest fields of the world have made the name McCormick a household word in every country on the globe.

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The McCormick knotter is simplicity itself, having only two working parts—fewer parts that move than there are

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The binder needle will not wear out, for the reason that the eye as well as the center of the frame and heel of the needle are fitted with hardened steel wearing pieces over which the twine

The McCormick binder is a light draft ma-

chine,—it is the machine to buy.

The McCormick line of harvesting machines is complete and includes, besides grain and complete are applied by the state of the corn harvesting machines, binder twine, mowers, tedders, sweep rakes, side delivery rakes, hay loaders, stackers. Also a complete line of tillage implements and seeding machines, comprising disk drills, shoe drills, hoe drills, cultivators and seeders, smoothing, spring-tooth and disk harrows, land rollers and scufflers. Also gasoline engines, cream separators, hay presses, wagons, sleighs, and manure spreaders. See illustrated catalogue for detailed illustrations and descriptive text of any evall of these machines. Call on the local McCcrmick agent for information or write nearest branch house for catalogue. orn harvesting machines, binder twine, mow for catalogue.

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BUY NOW. We have recently purchased two of the finest sub-divisions in the city and are offering lots for sale at prices and terms which cannot fail to appeal to you.

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Farmer's Advocate and Home Journal

REGISTERED IN ACCORDANCE WITH THE COPYRIGHT ACT OF 1875.

WINNIPEG, MANITOBA.

Vol. XLII. No. 762



May 1, 1907.

Motors Wanted.

There is plenty of evidence that the country is ready for traction gas engines. People are continually asking for such machines and for storage batteries to be used in lighting farm problem of retaining soil fertility! buildings. These are two devices that will be perfected and manufactured in such quantities that they will be familiar to every country person in the next ten years. At present these are a its officials to eradicate and suppress weeds are iew gas engines on the market, but their manu- to be commended. The province has a Noxious facture and sale is not being pushed so as to Weeds Act and an earnest capable chief weed meet all the demand. This spring we under- inspector, Mr. Arch. Mitchell. The chief inspecstand there will be at least one gasoline motor tor has engaged the services of quite a large would appear that better results are likely to at work in Manitoba, and the way in which staff of inspectors and has instructed them how it handles the plow, seeder, binder, etc., will be to proceed to enforce the provincial act and also carefully watched by those who are finding the the Dominion Noxious Weeds Act. In framing annual expenditure, for what the Boston people the provincial act the Government has made it call "animal traction," rather a severe drain on compulsory for threshermen to separate the the revenues of the farm.

Aids to the Making of Contented Farmers.

their advocacy is half hearted, while many others is being done and then see the responsibility of have no scruples in condemning this luxuriant handling weed seeds shifted upon the thresher. of their geographical location in the province. grower, on account of the difficulties experienced in getting rid of it. If these experiences are to be taken as a fair index of Western farm practice, and we assume they can be, the absence of the

opine that the testimonies given and the com- modation at the Manitoba Agricultural College ments made will be helpful in no small degree and save the province an expenditure that might in helping Western farmers to solve the important better be devoted to equipment for experimental

Weed Suppression in Alberta.

The endeavors of the Alberta Government and weed seeds from the grain to such an extent that to fulfil the demands of the act threshers will have to equip their machines with extra cleaning apparatus and even where this is pro-The retention of the fertility of Western farms vided there will be considerable difficulty in evinced greater interest than has been shown is a problem just beginning to be appreciated conforming with the law. The making comby many farmers to whom the law of diminishing pulsory the equipping of threshing machines returns is yearly being demonstrated by declining with grain cleaners may possibly be the shortest crop yields and increasing weed and fungous way to a desired end, but the weed inspectors and pests. The testimony of many good farmers all farmers should endeavor to see that the in recent issues of this journal shows conclusively efforts of the thresher to deliver clean grain are that this fact is appreciated by some, and, we are not unduly taxed. Under the circumstances able to assure our readers, leading farmers in the person who is most directly responsible for their respective neighborhoods. When such men the production of weeds emancipates himself feel it incumbent upon them to put their ideas from the responsibility of having them as a and opinions upon the printed page in the way nuisance, when he gets the thresher to set to his they have done for the benefit of their fellows, crop. Cases will no doubt arise when the grower we may be sure that they are under conviction of weeds will escape the detection of the weed as to the necessity for seeding to grass and inspector while his crop is growing, and succeed manuring. Others it will be noticed, are strong in turning the crop over to the thresher to clean. advocates of some system of crop rotation. A For this reason, if for no other, every farmer careful perusal of these letters will have shown who wishes to maintain a clean farm should that timothy and rye grass are most in favor lend his assistance to the weed inspectors while of a well conducted winter fair, and it merits the for seeding down; some few advocate brome, but the crops are growing and not wait until threshing

The M. A. C. Preparing to Branch Out.

The announcement has been made that it is mention of clover and alfalfa cannot help but the intention during the coming summer to erect be remarked and deplored. Grass is stated to a building for domestic science purposes at the been prevailing in Western Canada during April, be of value as a preventive of soil drifting and Manitoba Agricultural College and also a dormi- so acute in fact that every day witnesses some is also of some value in the direction of weed tory to accommodate two hundred and fifty change. We refer to the trouble in the coal suppression, but those most closely observant students. The former idea we are in hearty mines and the protests against the service of the state that grass alone will not fill the bill as a sympathy with, believing that the daughters soil renovator, that manure must be used in from the farms of the country should have equal headed by organizations of business men in addition. This opinion is held most strongly opportunities of education to those afforded their Winnipeg. The trouble in the coal fields is by the occupants of Manitoba farms which have brothers. The institution of a course in domes- another of those unfortunate disagreements been under cultivation for twenty to twenty-five tic science would undoubtedly be popular with between capital and organized labor, with the years. In the newer sections, such as in Sas- the farmers of this province, and the benefits to blame for it being prolonged attaching to both katchewan and Alberta, a considerable rumber the country would be far greater than the expense parties. In this dispute the Federal Government pin their faith to summer-fallow, and in dry of such a course would be. With regard to increas- has taken a more active part as an arbitrator seasons it seems to work out all right, but not ing the dormitory accommodation, it is the than has been the custom heretofore. Generally so favorably in wet years. The point raised opinion of this paper that the province would do the working men have the sympathy of the public by one correspondent, that of the beginner on new well to go slowly. The college is undoubtedly in their strikes, but in this case almost everyone land anxious to get on his feet, is well taken; popular. It is a new thing, and the halls and dor- is satisfied the miners are receiving ample justice, such a person can get along without, unless on mitories are crowded, but it is doubtful if such a and that the mines should be kept in operation very light land, grass or manure for the first condition would exist were the accommodation at full capacity, even if the terms upon which the eight or ten years, although at the expiration of increased three or four fold. Alberta and Saskat-men are employed are not decided upon for some that time he will find that having skimmed the chewan will soon have agricultural colleges of time. The country needs fuel now and will need cream he must needs content himself with smaller their own, and the Manitoba institution will be it much more in a few months. The thought of yields of grain and greater dockage when he dependent solely on its own farming population, entering upon another winter with the stock not markets that grain, and then must adopt the and rightfully so, for support and attendance, ample and the supply in danger of being curtailed more reasonable system of rotation of crops, but we believe it will be better in view of the through personal pique is intolerable. As in all manuring, and seeding to grass. Attention difficulties which are bound to arise in securing cases of the kind, the real expense and hardship has also been drawn to the quality of manure, money for equipment, to be a little short on that attend such unsettled conditions as have the statement being made that manure of value dormitory accommodation than otherwise, prevailed at the coal mines in Alberta for the amonly be obtained from well fed (grained) cattle. Enthusiasm for the cause is a valuable asset, but past year, fall upon the consuming public, and summing up of the various opinions shows it will be well to temper it with some caution in the public has a right to demand that a settle that, sooner or later, it will pay every farmer the matter of increasing the dormitory accom- ment or compromise be made.

to seed down to grass (either rye grass or timothy) modation so largely. The FARMER'S ADVOCATE or better, clover; to apply manure (obtained never favored the dormitory idea. We do not from well fed live stock) on the land and by these believe it to be the best thing for colleges, although methods retain soil fertility, and further to it may be all right for boarding schools. The practice a rotation of crops, thus increasing dormitory system is a relic of mediævalism, the the yield of marketable grain as well as decreasing outcome of the monastic idea of getting learning the loss from weeds. All will not agree as to and we believe the advisory board will do well the best method of applying manure, but we in dropping the idea of providing more accomwork with a view to solving the many problems of Manitoba agriculture.

The Location of the Winter Show.

One of the encouraging signs to the live stock fraternity of Manitoba is the enthusiasm displayed by the Brandon people in regard to the erection of a winter fair building in that burgh. It accrue from its location, at the Wheat City than at any other town or city in the province, it being a great rendezvous for farmers. For the show to be a success it must have the support of the farmers, both in the way of contributing live stock to the show, and in attendance. The Brandon citizens have organized a company have the site secured, and have had the plans at any other point. Winter shows cost money to run, and even with Government grants some go behind. The Ontario Winter Fair at Guelph acked \$7,000 of making a profit last year, we understand and that annual affair is well attended. The winter fair is supposed to have an educational value, and it is this idea that warrants the expenditure of Government funds on its behalf. Such fairs should include a show of fat stock, illustrating the feeder's skill, in the animal on foot, and by carcass on the hooks, as well as demonstrating acceptable or unacceptable types for such skill to be exercised upon. The lectures by experimenters and others which go to make up the winter fair, bring fresh to the audience the latest deductions from agricultural research work. Taken all in all, nothing but praise is the meed support and good wishes of all those who are

The Coal Supply and Transportation.

Two decidedly acute economic conditions have C. N. R. by the boards of trade of different towns,

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with that of the farmers in their annual conven- can be made sound and fit for steady work. tions, and with all classes working to one desired end there is more hope than even before that the the railway companies will be forthcoming.

The race is for three-year-olds and upwards, kind. The heavy draft class was first scanned and the first horse received two thousand and a move made; viz, the lowering of the minisovereigns. The course is a mile and a quarter mum weight from sixteen to fifteen hundred Editor Farmer's Advocate: in length.

HORSE

The Prevention and Care of Sore Shoulders.

When the rush of work is on and hot days come in seeding time, the shoulders are often a source of trouble and annoyance. Especially being soft and flabby it is a very easy matter for galled shoulders to supervene.

tertile in producing sores. Too big, badly-fitting skins are soon in trouble, while the more tender should never be tolerated; such should be cleaned and brushed frequently, and lumps of hair and other matter should never be allowed to form. sore shoulders, as everything is sticky then, and the draft is harder; this contributes to the ailment. Some horsemen soak the collars thoroughly, especially the leather faced ones, and put in the horse when wet so that it may take the shape and form of the shoulder, and retain it

As to remedies, there are many, but rest and a discontinuance of work must be associated with them all. Healing is often deceptive; a scab is formed, and the sore dries up. It appears hard and so sound that a venture is made to resume work, but before proceeding far the surtace comes off. A new wound is found beneath, and the idleness and mending have all to be gone through again. This is distressing both to horse and owner, and a great loss, too, as an incapable horse or two in the busy season is a serious hindrance in all cases. Sugar of lead is one of the surface and make believe Photo by W. O Baber, Moffat. all is well again, but it is most deceptive, as its healing quickly is not real or lasting, and should not be counted on. Washing the shoulders with acetate of lead 1 oz., water 11 pints.

culties it is interesting to note that the action of with the result, a small fibroid tumor, surgical lack of a little quality, action or fitting, or necessthe business men of the country is exactly in line interference will be needed before the shoulder ity for his use at farm work, had failed to make

prize list of one of Manitoba's leading fairs, and Velocity, a horse owned by Mrs. H. O. amongst other things the horse classes received ackson, won the English classic race—City and attention, some revision of which was of a for-. on the science and art of breeding horses. Surburban, at Epsom on the 24th ultimo, ward character the balance of a retrogressive pounds, with which we do not agree. It can be average country fair, few real drafters are shown. show-rings is of the agricultural class, yet while that is so it is not a reason for lowering the standard of the heavy draft class. The market requirements must be considered and the call for heavy drafters is for horses weighing over 1,600 lbs. In for horses over 1,750 and under that weight. All horsemen know that the line between the two classes, heavy draft and agricultural, is not a hard claim that mature horses in normal working concame the consideration of the agricultural class, collars are equally disastrous. There is too and it was hemmed in by the new ruling in a way much friction with them, and horses with hard that does not augur well for that society's next show, for when handling that bete noir of all cannot escape. Dirt on the lining of the collar horsemen, the general purpose class, the maxi-size. mum for which was placed at 1,350 pounds, only one hundred and fifty pounds weight were allowed



ONE OF THE EARLY FOALS. John Turnbull's, Moffat, Sask

wound, but if the skin is not actually broken is not likely to be filled, three prizes might be does them. A certain amount of grass is one this often hardens it sufficiently to avoid break- offered there and five in the agricultural class. of the best tonics a horse can get. It cools his age, but once that occurs, we know of no better When the general purpose class was reached, the blood, tones his system and improves his appetreatment than to clean the sore. Keep the chairman explained that a standard of height tite. The ideal system would be to find the horse idle, prevent rubbing, and dress daily was to be set to prevent the awarding of prizes horses grain and a little hay at quitting time with a lotion composed of solution of sulphate to undersized agricultural horses, what the market then let them out into a good pasture for the of zinc 1 oz., glycerine 3 oz., solution of sub- terms "farm chunks." The height settled upon night. We know a lot of "good farmers" will A very useful salve is made of tannic acid, iodo- —rather too high—and if considered in connection among successful farmers to keep their horses form and clean lard, one of each of the former with the weight, requirements might call for in, but in this the convenience of the teamsters to eight or ten of lard. This may be applied if rather a stilted looking aninal. Several years is consulted before the health of the horses the skin shows slight signs of chafing and the ago this paper laid down the premises that the A team cannot be got ready so easily in the morn animal has to be kept at work. A very common general purpose horse per se, might be considered ing if the horses have to be brought in from the form of shoulder trouble is that taking the shape as the result of an attempt to breed a coach, field as they can when kept up, and it is also the of a large swelling at or near the point of the carriage horse or large roadster, that had not case that they get soft if they get much grass shoulder, the contents of which, when an open-been entirely successful. Now it is comparatively. They even get so soft that they are lazy, but ing is made, are found to be a thin, bloody colored rare to find a horse (mature mare or gelding) of this is generally due to letting them have all fluid of which if the incision is not kept open the carriage type weighing 1,200 lbs. or over, even grass and irregular work. In any case we would there will be more secreted, filling up the cavity. 15.2 or 16 hands horses; hence we contend that advise letting horses to grass rather than to keep In these swellings, the result of muscle bruises, the minimum weight limit for the agricultural them up without grain. there is no pus formation unless the wound is horse was put too high at 1,350 pounds and that infected when exerted. The liming of the cavity a better classification would have been heavy is a secreting neuropame and in order to prevent drafters 1,600 pounds and up; agricultural class, refilling of the cavity, a should be packed with over 1,250 pounds and under 1,600 pounds; oakum on which may be sentenced some red general purpose horses under 1,250 pounds and odde of mercury continent in 18. If the 15.2 km for over. In the past, the fair classifiers welling is not opened and of the man and to know or ignorance on the part of escape, it may be parted a should and then the indre leave a small, hard. About so are the indre leave a small, hard. About so are the indre leave mentited the awarding of prizes will be a constant source of article and active to the indre leave mentited the awarding of prizes had no experience with cement for that purpose will be a constant source of article and active to somety horses—diminutive drafters.

In connection with the transportation diffi- collar is worn. If the trouble is allowed to go, on, rather than the big upstanding for which for the carriage class, the latter far the better bred horse, one that would bring more money on the market and yet discriminated against in favor service which the public has a right to expect of Defining Horse Classes at Fairs by the Weight. of the farm chunk for which no society should A short time ago occasion arose to revise the even offer a prize, as it represents one of two things-either lack of knowledge of the horse market requirements or a want of information

Thoroughbred and Coach Might be Used.

When I wrote my letter of March 6th, to which stated with little fear of contradiction that at the Mr. R. M. Dale takes exception in your issue of 3rd ultimo, of breeding to the French Coach, in The average farm horse coming forward in our advising I looked at the matter from a business standpoint, presuming that a man with a "bunch of light mares" of possibly indiscriminate breed ing would like a horse which he could depend upon to throw size, a close uniformity in make and color, and at the same time give quality, quick fact, at the International two classes are made, sellers in fact. This he can be reasonably sure of with the French Coach, those missing the fancy mark being still big enough for the land. he owes his prepotency in transmitting these is this the case with horses that have been fed and fast one to be delineated by five or ten pounds traits of conformation for which he has been high and not worked during winter; their muscles on a scale beam, yet not one will be prepared to bred to his long lines of Thoroughbred blood goes without saying. 'At the same time I think most dition weighing less than sixteen hundred are horsemen will agree with me that to breed a The use of collars with damp, dirty linings is entitled to be termed heavy draft horses. Then bunch of such mares to a Thoroughbred stallion would in all probability result in quality without substance, for which there is only a limited market and that a poor one, and the breeder would be forced to put a cold cross on top eventually to get It is this method of breeding which has done more harm to the cause of the Thoroughbred in this country than anything else. Had Mr. Dale to come and go on for the greatest of all at our suggested that the farmer should breed his neatest At dinner time and in the night, the collars should country fairs; viz; the agricultural class. If the and most active farm mares, weighing about be taken off and dried thoroughly. Sunshine weight classification is to be followed, and it seems 1,300 lbs. to a Thoroughbred, instead of a Clyde is one of the best of all means of drying them, as in default of any better guide that it should be, as is usually done, and have every prospect of the warmth and wind dry and sweeten them then the maximum and the minimum for the getting a much higher price for the produce, completely. Wet weather is more in favor of agricultural class should be 1,600 and 1,250 should have heartily endorsed him. Or had the enquirer stated he had big upstanding Coach mares I should have suggested a Thoroughbred but on a bunch of light mares I'm afraid the result from a commercial point of view would be

G. E. GODDARD. Bow River Horse Ranch, Alta.

Turning to Grass at Night.

F. H. S., writing from Lanigan, Sask., would like some suggestions as to the wisdom of turn ing work horses out to grass at nights instead of keeping them stabled and fed on hay.

There are differences of opinion upon this question and a good deal depends upon other things. Certain it is that as far as the spending a hot summer night goes, horses will rest and stretch better out in the field than they will in a hot stable, but if a horse is hungry and the pasture short he may have to spend too much of his time looking for food. And if the pasture is large more time may be lost in getting the strong salt water is a painful way of treating a pounds respectively, and as the heavy draft class horses up than would offset the good the grass was 15.2, although 16 hands was first suggested not agree with this as there is a growing tendency

Concrete Floors for Horses.

which for or necess I to make etter bred ey on the in favor ty should ne of two he horse formation

NDED 1866

Used.

to which issue of Coach, in business . ''bunch te breed l depend in make ty, quick bly sure he fancy d. That ng these ias been ood goes nk most breed a stallion without l market rould be ly to get nas done ibred in Ir. Dale neatest g about a Clyde spect of duce. I had the Coach

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n this other ending st and nd the much asture ng the grass is one ols his apped the time or the dency horses nsters orses morn n the so the grass but re all vould

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keep

weather will it not freeze up? Perhaps some of command went forth "to be fruitful and multi- coming from the National Records Office is veriyour readers who have such floors will kindly ply." throw some light on the subject

Shoal Lake, Man. A. NICHOLSON. stable floors should be made of two layers; the first to from six to ten parts of sand and gravel lepending upon the strength of the cement, and should be about two to three inches thick. The second layer should be much stronger and about one half to three quarters of an inch thick. We give it as our opinion, but would be glad

to have others, that stables should not be built so that the liquid can drain away. The stalls should have a slope of about one inch from front to back and the passage behind a slope of about one inch to each six feet in width. This would Irain the liquid to a division between the stalls and the passage, and when there should be absorbed by straw or some other absorbent. Sometimes dry earth is used.

It is not simply that it is wasteful to drain the liquid through the floor, but it gives rise to sows and bitches. The semen of the male conthe most unhealthful conditions, both for the stock and for people.

In finishing we should advise a rough surface. When a concrete floor is finished with a steel rowel or float it is so smooth that the horses slip easily on it. If levelled with a wooden float the surface is more like sandpaper, and although not so easily kept clean, is safer.

Some horsemen would not have concrete floors in the stalls, while others do not object to them. Where an abundance of bedding is given and horses are not kept standing in the stalls for days at a time, little harm results from cement floors, and it might be said that no horses should be so kept. If any of our readers have different views upon horse stable floors than these expressed we should be willing to publish them and also any that agree with the above, that our correspondent may have plenty of evidence.

Is the Sire or the Dam Responsible for Twin Births?

EDITOR FARMER'S ADVOCATE:

produced twin foals again this year (colt and filly) think it will be of interest to readers of the Apvo-CATE to hear of the grand old dam 15 years of age.

laim the sire has nothing to do with the producing of twins. It certainly looks in this case as if he has profits, in the form of grants to live Thanking you in anticipation.

heat. In the case of the male more cells are ment. released than are necessary to impregnation, but it is claimed by physiologists that usually only one germ cell is thrown off at a time by the ovary. The ovum is said to be met by the fertilizing spermatozoon (which resembles one of the little wigglers one sees on the surface of stagnant water) in one of the tubes (Fallopian) connecting the ovary and the uterine cavity (womb), and is there fertilized. Should more than one egg or germ cell be thrown off there are sufficient living (male) sperm cells to impregnate each one, as is exemplified in the case of tains a great number of spermatozoa, as may be demonstrated by an examination of a drop of the fluid under a microscope. The opinion of scientists is that the female is responsible for twinning, the result of super-activity or fertility of the ovaries. It is well known by students in physiology that the tendency to produce twins in human beings and in mares, is inherited. In the latter it is considered most undesirable by horsemen, for the reason that few equine twins are born alive, or if born have sufficient vitality to live. The case above is certainly unique, but as far as the stallion is concerned it only goes to show that he is very virile, and that the sperm cells ejaculated by him contain vital spermatozoa which when deposited on fertile soil, grow and flourish.

A Canadian Record Needed for Percherons.

The phenomena of generation or reprofied by an official before the pedigree is stamped duction are not all visible. The actual wedding for the Government. In addition, the estabof cell unit with cell unit is unseen, yet physi- lishment of a Canadian record for Percherons In laying the floor the concrete should be mixed ologists tell us approximately what takes place. would put the Customs Department in a better in the ordinary way in proportions depending From the reproductive organs (testicles) of the position with respect to the importation of upon the quality of the cement. As a rule horse male come sperm cells (spermatozoa). From horses, and the home-breeders would stand to the reproductive organs (ovaries) of the female benefit thereby. The breeders of Percherons layer may be made of about one part of cement, come the ovum or ova (egg or germ cell). The in the West might meet at the time of one of the male vitalizing element is usually released during big summer shows, Winnipeg, Brandon, Regina the act of coition (mating); that of the female or Calgary, and form a society and start a register the germ cells (ovum or egg) at each period of under the auspices of the Dominion Govern-

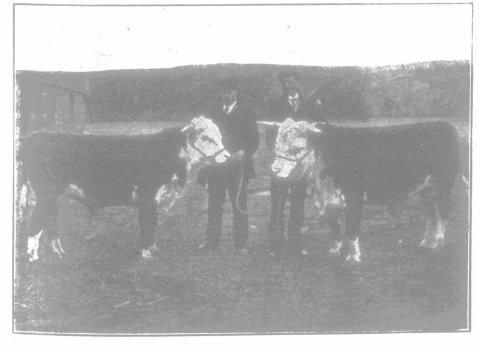
Never use an Unsound Stallion.

The present enrolment ordinance is all right and it has to some extent improved the breeding of horses in this locality, but you cannot do too much towards advising the readers of your paper to breed to none but sound stallions. I am surprised to see so many that think it is just as good so long as the horse looks all right, other ways. A horse of mixed breeding or a grade horse may be used sometimes to an advantage, but a blemished horse never. JOHN LENNAN. Alta.

STOCK

When the Cow Does not Clean.

Experience both as a farmer and as a veterinarian demonstrates to one that far too many farmers are apt to neglect the cows after calving, especially when such have failed to clean or get rid of the afterbirth in the natural way. some stables visited a strong, nasty-smelling odor has been noticed, which on examination has been found to be produced by the decomposing mass of afterbirth partially or wholly retained by the cow. In many cases, the cow shows signs of general ill-health as a result of the retention of the putrescent material, such ill-One of the features of the horse business in health being nothing more or less than a slow the West the last five years is the coming of the form of blood poisoning, during which time the Percheron, which may be largely attributed to milk is unfit for use by man or beast. This bythe tremendous influx of settlers from south of product of parturition should be removed within the international boundary. Several breeding a few days after the birth of the calf, at least If you remember last year your paper had the studs have been established and it is now up to before decomposition is in evidence. Removal photograph of the registered Clyde mare Annie Scott the breeders of the grey and black drafters to is not a serious matter if commonsense and and her twin foals (colt and filly) and as she has get together, form a Percheron Association, caution are observed, and in the majority of affiliate with the National Record Association cases, where possible, it were better to purchase and register their horses at Ottawa. This move such by the employment of a properly qualified is especially necessary with regard to Percherons, veterinarian. If the help of a man so skilled had produced II foals in her day, and never had as in the U.S., there exist more than one record is not available, the farmer should undertake wins before. She was bred to the same stallion which induces confusion; and further, all regis- the removal of the membranes himself, rememberin 1905 and 1906, with result of twins at each foaling. tration fees go to the Percheron registry offices ing the method by which the attachment is made Last year twins were from the first service the stal- in the U.S. Once a breed society becomes to the internal surface of the womb. An examinalon ever gave. The owner of stallion, Wm. Moodis, strong there is some profit in recording live stock; tion of that surface by the hand reveals the ored the second mare to him, and the result was twins. and it is the custom in Canada since the National presence, here and there, of little buttons (cotyle-Most veterinary surgeons and expert horsemen Records have been in existence to return the dons) from which (it can be described no better the afterbirth must be gently unbuttoned wav bit to do with it. I hope the Advocate will give ciations, for prizes at shows, to the breeders, each cotyledon as it is come to being gently heir opinion on this topic. I should like to have and by this method place the breed more and stripped of its abnormal (at that late date) some horse breeders' opinions on this matter later on. more prominently before the public. Breeders covering. With one hand stripping the buttons and purchasers of Percherons would, if a society carefully, and the other hand gently exercising HAROLD BANISTER. were formed and affiliated with the National traction, it is only a comparatively short time Our correspondent's enquiry has raised a Live Stock Association, be protected from bogus before the cow will be rid of this foreign irritant juestion which has been debated ever since the pedigrees, for the authenticity of each pedigree membrane, for such it has become. The hand



A PAIR OF PARKER AND FRASERS'S (LACOMBE) PRIZE WINNING HEREFORD BULLS, AT THE RECENT CALGARY SHOW AND SALE.



'FARMER' BY DRUMROSIE CHIEF. The highest priced bull at the recent Calgary sale. Bred by Jas. Sharp, Lacombe, and purchased by P. M. Bredt Regina.

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lard, and on the job being-finished, a thorough cattle to have these bins open to them at all timesthe genital passages of the cow with some solution the feeder to feed so much grain. made up from one of the coal-tar products, and by so doing remove any small pieces or dis-necessary to be a successful feeder financially. integrated portions that may be left to poison First, have the best quality steers, without have known some careless and inhuman persons I find the Galloways suit me fine; second, feed leave cows unattended for a week or more, plenty of the best quality feed you can find, or weeder on the growing grain. This work causing suffering to the animal, as well as tending Third, be sure and have a bunch of hogs in the answers two good purposes, that of checking to induce a very dangerous state of things for same yard with the cattle; and last, but very weeds and preserving moisture. Of course, to the person, professional or otherwise, called important, with the least possible expense, get the best results the soil should be in a good in to remove the decaying mass. The annals with the largest profit for this reason, I find the state of tilth, as clods are apt to carry the harrows of veterinary medicine are unfortunately not self-feed bin in the open yard very satisfactory. free from records of veterinarians losing a member (hand or arm) or their lives from blood poisoning through what can only be termed criminal negligence on the part of clients, owners of cows. Delays in such matters are dangerous both to the animal and the person seeking to relieve it.

Colorado and Alberta Steer Feeding.

In the early spring Denver, Colorado, has a fat stock show to which are drawn cattle from a country very much resembling our own Alberta, except that it is more advanced in agricultural corn chop and cottonseed meal fed in troughs. This was gradually increased until they were taking eighteen pounds of corn chop, two pounds of corn chop and twelve of cottonseed meal. On September 3rd the real feeding for the show began and the grain allowance was worked up to twenty-two pounds of corn chop, two pounds Editor Farmer's Advocate: of oilcake and eight pounds of cut alfalfa per day, with alfalfa hay or green fodder corn at noons. There was always plenty of salt with sulphur before them and good well water, and about six weeks before the show a little stock food was given to keep up their interest in life. At the time of the show, in March, they weighed on the average 1,444 pounds and sold for \$8.50 per cwt. live weight, which the feeder considered quite a good price and made money on the opera-

We publish the account here, and also an account of how Mr. Tees, an Alberta feeder raised and fed a car-load lot for the recent Calgary show and sale. Feeding in Alberta of course is not so far advanced as in the States, but by an arrangement with the abattoirs in Calgary Mr. Tees got as much for his cattle as the Colorado feeder. However, the Alberta steers were apparently four-year-olds, although Mr. Tees does not say definitely.

From the two cases of the Alberta and Colorado feeders, the lesson to be learned is that the aim in Western Canada should be to first raise low, thick steers, and then bring them to market at a much earlier age than has been the general rule. Alfalfa will help a lot to this end and Alberta oats and barley can easily take the place of American corn until we get a variety of corn that is adapted to Alberta's climate.

How an Alberta Car-load were Bred and Fed.

EDITOR FARMER'S ADVOCATE:

Regarding my cattle at Calgary show. I will give you a short outline of how they were bred and handled. They were bred from grade Galloway cows and purebred bulls. Those in the bunch that had white faces were from a white-faced bull, Hereford, purebred. They ran with their mothers till weaning time, October, and when weaned were turned on my stubble fields and bush land for the winter. From then on till last fall they practically lived on the open range about as severe on range cattle as the cold of soil as the crop under such circumstances in on wild grass.

in small dry yard always. I have never stall- of life look best.

of the person engaged in the removal should be fed a car of cattle, so you will see that Dr. Rutherfree of cuts and wounds, and should be well ford's remarks meet my approval. My favorite smeared with carbolized oil or clean unsalted plan for feeding cattle is to have self-feed bins, washing should be given in some antiseptic what we term on full grain feed. But I must solution. If the membranes have been retained say that up to the present time in Alberta the a day or so, it will be found of benefit to irrigate prices for grain-fed cattle would not encourage

Finally, I would say that there are a few things Editor Farmer's Advocate the system and induce a feverish condition. We horns, rather dehorned, or breed the horns off.

W. E. TEES.

The following quotation from a market report published at Chicago shows that even the screenings or three inches, when it is not so liable to injury business is not free from crooked work.

sequently a statement that his account balanced on advanced. the wrong side of the ledger would not receive credpractices. At the Denver show this year the ence without proof. A feeder who finished a band an increase of ten to fifteen bushels of wheat per champion car-load lot of steers were two-year- of 10,000 of these yearlings at St. Paul cleaned up acre have resulted from this treatment of fields old Shorthorn grades; at Calgary they were this week, getting \$7.60 for the last consignment, and as shown by comparison with adjoining unhar four-year-olds at least. The Colorado lot were it is a record price. The entire 10,000 head sold rowed fields. taken off the range in March, 1906, and were at a range of \$6.90 @\$7.60 and the bulk above \$7.00, once put on feed, starting slowly with cut alfalfa, and yet his loss was \$4,500. This is naturally calculated to deter an amateur from tackling the game, but the stuff was bought high, costing \$3.85 per head on the drilled grain should be harrowed. range in New Mexico and the feed bill was prohibitiv of oil meal and ten pounds of cut alfalfa, with robbers'. He was taxed \$13 @ \$14 per ton for mill He was taxed \$13 @ \$14 per ton for mill whatever long alfalfa they chose to eat per refuse which was wholly lacking in fattening quality, head per day. At the time of putting them up and consequently got small gains, necessitating a long they weighed 800 pounds and by July 1st they feeding period to get a finish. Matters have come to had gained about 300 pounds. They were then a pass where it is dangerous to put sheep on feed and tough is of no use, but they must be attacked turned into a pasture for two months and their around St. Paul even when screenings have been when young and tender. Harrowing a crop is grain ration gradually reduced to eight pounds contracted, as the vendor can even the score by deliv- of no use to destroy wild oats, as they root as ering straw joints and chaff instead of grain.

Natural Shelter the Best Stables.

to pass had he not brought into his remarks an treatment. opinion as expressed by me through the medium of your paper last winter, re wintering steers drag to the weeder and on small farms the drag out of doors that were being prepared for mar- with lever to slope the teeth may be made ket. He admits that five years ago he could serviceable. not tell one calf from another, and I very much fear that he is still not much more of a judge Chief Inspector of Weeds in Saskatchewan. or the figures that the article referred to contained would have convinced him that these of cattle that would average 1,475 lbs., and yet results. I have nothing good to say of people tion used in this country, I have advocated it straw drawn into reasonably good shelter and an easily available supply of water is near, these cattle will be found in June to be far ahead of the closely confined ones. But, Mr. Editor, I do not want anyone to think that the right and only way to winter cattle is to feed on straw only. If cattle are to be where they ought to be the moisture, which is one of the special benefits and fleshy, ready to make good use of the first of them. If they are to be run over for another year a smaller amount will do, but if they are to crumble into a mealy substance; not to ball expected to be ready for market that season or roll; also crops to be so treated would require it will be profitable to feed more and so have to be sown deep, say with a disc seeder (which

Mount Pleasant: WILLIAM GRAYSTON. Northwestern Man.

winter. Cattle that have stood the cold but more likely to smother or overgrow the weed I commenced grain feeding Dec. 1st, whole oats, become weak do not seem to be able to sand than a thin sawn crop. There is no danger in a shed or barn; I feed their systems and succumb just as the schemes we der, but in oats or barley, which are a more

FARM

Cultivating Growing Crops Kills Weeds.

The practice of cultivating growing crops has been regularly recommended by me both in bulletins and on the platform, and many a farmer has benefited from judicious use of light harrow over without the small weeds being disturbed The work should be done when the weather is bright and warm so that the delicate roots of the young weeds may be destroyed by exposure Have Even Started to Adulterate Screenings, to the sun. For best results I would harre before the grain shows above the ground and not again until it has attained to a height of two from the harrow as at an earlier stage. Harrow "When Mexican yearlings, averaging 85 pounds, ing or cultivation with a very light drag or weeder sell, in the wool, at \$7.60 in Chicago, the feeder might be repeated again at intervals as seems would seem to be making all kinds of money; con-necessary until the grain becomes too fat

Instances have come under my notice where

In some cases no doubt injury has been done to crops by using a heavy harrow on a loose loamy soil, especially if spring plowed. Only

Crops have been delayed in growth by excess ive harrowing, but if the field were a very weed one I should be inclined to risk a little to make headway against the weeds. It must be remem bered that harrowing weeds that are well rooted deeply as the grain we have sown and will stand

If wheat for seed is plump and of full vitality I should not feel inclined to use more than one and a half bushels per acre, when intending to On page 416 of your March 20th issue I notice harrow the growing crop, but if shrunken or "P. E. C." has something to say in regard to frosted I would sow heavier, as the plants fron wintering cattle, and I might have allowed same the weak seed could not stand so much rough

Some farmers prefer the light wooden frame

T. N. WILLING.

Recommends Cultivation of Growing Crops.

see a bunch Editor Farmer's Advocate

Upon this subject exploited in these columns be a heap of bones. The thing is absurd. As to last week, of the handling or use of a harrow of confining cattle as closely as P. E. C. proposes weeder on a crop after it has come up, I would to do, I think he will be disappointed with the say that while I have not seen any such cultiva allowing cattle to run at straw stacks all winter very strongly before the farmers' institutes and and lick snow, but I do contend that where agricultural societies and trust that we shall soon cattle other than milch cows, can have their have such a method of treatment of the soil and crop, especially weedy soil. One of the great advantages of a light harrow or weeder, say Breed's weeder (which is the only one at the present time which I would recommend for use is that it cuts very light and is movable, doing very little, if any harm to the crop, and conserves when spring comes; that is, not simply alive or a derived from proper care of crop after it has come little lighter than they were in the fall, but strong over the ground. Keeping the soil loose on the bite of grass that comes, they must be fed a before stated) conserves the moisture, but such grain ration in proportion to what is expected cultivation would have to be done very carefully is the best in my mind for deep sowing) and giving a little extra seed to the crop so that in case any was destroyed by carelessness or otherwise, you would have yet sufficient. Also there is con The warm Spring weather is proving to be siderable advantage in plentiful sowing for weedy ender creatifian wheat as a rule, there would hav

MAY 1, 1907.

ight harrow This work of checking course, to e in a good the harrows disturbed weather is ite roots of by exposure uld harre ground and eight of two le to injury Harrow ig or weeder ls as seems

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e column: harrow or o, I would ch cultiva vocated ii itutes and shall soon e soil and the great eder, say ne at the d for use ble, doing conserves al benefit has come ise on the ereby (as but such carefull y enough ot to ball ld require er (which and giving case an wise, you is con or weed tances i

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or Breed

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to be more care exercised, but in this country we ating and killing the weed seeds by cultivation, a little less each succeeding year until last year only tougher and hardier than in other countries In order to get the best results for cleaning a therefore much less in danger of injury, and I field with this crop, it is necessary to disc it In 1905 I mixed red top clover and timothy seed. In 1905 I mixed red top clover and timothy seed mence on weedy soil immediately I saw the worked in to the soil with the disc. weeds showing themselves and continue it on After harvesting the crop, the land should be the crop. This stage would have to be entirely lower down and get them germinated and killed regulated by the opinion of the operator or in the fall.

Barley Culture and Weed Growth.

over-stimulating the growth of straw in barley

than in cats or wheat, by manuring, and it is the

most suitable of these crops for the application of

for a succeeding crop of wheat.

EDITOR FARMER'S ADVOCATE:

very recently.

would in the case of oats and barley be sure not lightly as early as possible the fall previous together and sowed it with one and one half bushels from the lower part and thereby expose the roots more weed seeds. In about ten days (first week means of cleaning land of the plants. Of course with wheat there is really in June; the date will vary with the season) it In the fall of 1897 I drew an old manure pile out and

stage, in which you could see that it was injuring spring plowing to bring up some of the weed seeds keeps humus in the soil.

recommend too, that you have a competent in splendid condition for a succeeding crop of driver for this work, so as not to be crossing the drills instead of running parallel with them with a crop of barley. Of course, when the soil is badly "possessed," it may be necessary to is badly "possessed," it may be necessary to in harvest time. Besides, the land will produce a J. J. Golden, repeat the treatment, or to summer-fallow. But in harvest time. Besides, the land will produce a large yield per acre of good, clean, heavy grain.

C. T. S.

Rosedale Municipality, Man. W. A. A. Rowe. Deputy Minister, Agriculture. the above treatment will usually be effective.

C. T. S.

Cost of Growing a Wheat Crop.

Barley has until quite recently been a very Many people ask the question "What does it cost secondary crop with the farmers of the West; to grow a crop of wheat?" when told about the of threshing, as concisely as I can express them: and it is surprising how many farmers through- profits to be made from buying and farming the been due no doubt, to the poor market and low West on this topic. At Brandon experimental prices that have prevailed for this cereal until farm the following figures were arrived at:

Barley is one of the oldest of our cereal crops made gave a yield of twenty-nine bushels at a and for many years in European countries it cost of \$7.76. This included every possible item have not sufficient power. To my mind, an was a very close rival of wheat as a human food, of expense and also two years rent, or interest at outfit of this size, owned jointly by from two The Anglo-Saxon, however, chose wheat for his six per cent. on land valued at \$15 per acre. The to four farmers, depending upon the amount of food and oats for the food of his beasts, leaving items were: Plowing once, \$1.25; harrowing crop each man grows, is the most satisfactory barley to the maltsters. But of late years barley twice, 20 cents; cultivating twice, 40 cents; seed way of handling the vexed threshing question. has become more appreciated as a stock food, (one and a half bushels), 75 cents; drilling, 22 and at the present time our markets give a pre- cents; binding 33 cents; twine, 10 cents; stooking, mechanic and possess sufficient executive abilmium of only one cent per bushel for malt barley 16 cents; stacking, 60 cents; threshing, \$1.46; ity to thoroughly handle the men connected over feed barley. In feeding tests, too, barley teaming to market, four miles, 29 cents; rent or with the outfit, and he should be given full has proven itself a superior stock food. With interest, \$1.80; wear and tear of implements, 20 active control. Then a business manager should this small premium, and considering the oppor- cents.

noxious weeds, it is plainly more profitable for that a yield of twenty bushels of wheat per acre and act as secretary-treasurer. I think the a farmer to grow it as a cleaning crop, even if it for which fifty cents per bushel was obtained reason that the threshing business is looked only produces feed barley. It is from this stand- would pay expenses. In recent years, despite upon with disfavor by so many people in the point that we wish to consider the cultivation of some crop reports, the yield has not been over Barley will do well on almost any arable soil, the deficiency being made up partially by the petent hands, and when the machinery fails though it does better on a loamy, well-drained higher prices obtained for wheat. Some farmers to come up to expectations of the purchaser, it soil than on the heavier clay soils. Its roots are do not hesitate to assert that as a paying crop, is condemned, together with the manufacturer, short and grow near the surface of the soil. For either barley or oats are superior to wheat, and as being no good. From what I have seen of this reason it is necessary to have a good firm when yields and prices are compared their con- the threshing business, I believe it would be a seed-bed for barley, to prevent it from lodging tention seems to be borne out. The figures step in advance to institute compulsory exami-

good batley soil. There is far less danger of readers think?

Favors Grass and Manure.

manure. The manure should be evenly spread Editor Farmer's Advocate. I have tried different methods of seeding to grass. on the land during the winter or spring and should and I think brome grass seed the more profitable to be well worked in with the soil before planting. sow on our heavy clay loam land. In 1901 I had a In this way the land will be in good condition piece of land that required cleaning and I adopted the Brandon Experimental Farm plan, which has larger rigs would be stalled; and third, the first lt has been claimed for barley that it will proved satisfactory in every particular. I disced cost is not nearly so great in proportion to the mature quicker than wild oats and hence that a the land in the fall as early as possible and many amount of work each will do. crop of barley will destroy the wild oats by allow- seeds germinated before cold weather set in, and ing them to be cut before they are mature. This again toward the end of May the following spring, has had plenty of experience, and intends to is not effective. Wild oats, though they appear green, will mature enough to reproduce vigorously during the life of a crop of barley. The valve of a crop of barley. The valve of a crop of barley. The county of t noxious weeds lies in the fact that its short horses and cattle that fall and each fall since. I ing troubles will even then be found manifold, period of growth gives plenty of time for germin- cut about three tons per acre of hay the first year, and requiring a high degree of mechanical and

have so much light during the early part of the both before seeding and after harvesting the one and one-half tons per acre were realized. I season, especially strong sun, the plants are much crop.

to start work too early in the morning and to to seeding the barley. This will allow a large of oats per acre on land prepared in the same way select a bright, hot, sunny day for such work, as number of the weed seeds to germinate, either in as for brome and sowed with a press drill about the plants will then be wilted and consequently the fall or early in the spring. A good "burn' two inches deep. The result was a long heavy crop tougher; and it might be well to examine your will also help to clean up some of the weeds and of oat straw and only a few stems of clover appeared.

In 1006 I tried the same mixture again on the same plants before commencing and see that they are make conditions better for germinating those In 1906 I tried the same mixture again on the same tough enough for such treatment. Also it would remaining. When a good growth of weeds have be well not to undertake such treatment on land started in spring (towards the end of Max) the were made with the intention of taking off one or be well not to undertake such treatment on land started in spring (towards the end of May) the two crops of clover and plowing immediately after that was very lumpy with buried large clods, as land should be plowed shallow, and harrowed at and seeding to wheat, but I find the tests were they will be liable to be raked up or drawn out once to retain the moisture and to germinate expensive and shall resort to summer-fallowing as a

no danger, as wheat, as you know, is a double should be harrowed again and seeded to barley. covered about twenty acres as evenly as possible rooter at any rate, having a top and base root. This treatment will germinate most of the weed and plowed and harrowed as I spread it on the land.

In 1898 I sowed wheat, with the result that a heavy according to its depth of sowing and grows from seed in the surface soil and give a good, firm crop of weeds smothered out the wheat and had to both or either of them; therefore, if you should seed-bed for the barley crop. The shallow roots be plowed down. This was our very dry year. This happen to injure the top root the lower one will of barley will not allow of harrowing after the piece of land has had very heavy crops of wheat each continue to supply nuitriment until such time crop is up without considerable loss to the crop, year since, producing a strong stiff straw with a as the top root will have an opportunity of as will wheat. Barley land that has been man- massive head and always stands up where the manure reasserting itself. This treatment is more espec- ured during the winter may be treated in the is, but on the ordinary summer-fallow the straw is ially beneficial to weedy soil and I would com- same way, only the manure should be well sure to be soft and lodge badly. My experience is (costs etc., considered), use manure on summer-fallow and work it well and you can reap twice as many every occasion that the soil was fit after rain, plowed and harrowed as soon as possible. This better sample than on ordinary fallow. Besides, crops of wheat with greater yields per acre and a until the crop had advanced to a considerable plowing should be two inches deeper than the land holds moisture better prepared in this way and

With regard to rotation of crops, my method is to divide the quarter section into 40 acre lots, if land farmer, because of the fact of the toughness of the grain having to be taken into account as to the (1) a paying crop of barley; (2) clean the soil of wheat off each quarter; follow with oats and barley amount of injury likely to be done. I would many of its noxious weeds; and (3) put the soil manured. Then more crops of wheat may be taken and then summer-fallow, except where land is manured. Then more crops of wheat may be taken

Too Much Incompetence in Threshermen.

EDITOR FARMER'S ADVOCATE: The following are my views on the question

For myself, I may say I am decidedly in favor out the country do not grow it at all. This has virgin prairie. Data is not very plentiful in the of the small outfit for the average conditions. When I say small, I do not mean a toy machine, but a separator of say 28" to 32" cylinder, with The experimental acre on which the test was 18 to 20 h.-p. engine, so as to have plenty of power, as I believe a great many outfits to-day One man of the company should be a good be appointed who would attend to all business, tunity a barley crop gives of ridding our fields of Several years ago Supt. S. A. Bedford stated such as collections and payments, keep books, West to-day is because of the fact that so many 13 to 17 bushels per acre on the older worked lands, rigs have fallen into inexperienced and incomand to allow the moisture and soluble plant food given above are like those of immigration litera- nations for separator men, as well as engineers. to come up to the roots. Its short surface roots, ture, rather under the mark we believe, and it Such, in my opinion, would save a lot of trouble and the short period of growth, make it necessary would seem as if the cost of growing a wheat crop and reputations, and a certificate of such nature to have a fair amount of available plant food in a is well over eight dollars per acre. What do our would be a guarantee to the owner of the machine that he was not being imposed upon by unscrupulous men looking for a job at high wages.

I am in favor of the small outfit for more than one reason. First, it does not cost nearly so much to run it, and when any breakage or stops occur, the expense is not nearly so great while the machine is idle; second, it is handier to move, and can be taken to places where the

The large outfit is all right for the man who

value of a crop of barley in the struggle with catch and the heavy mat afforded good pasture for wants it, I say get the small rig and your thresh-

well-to-do farmers seem to favor the small outthat can be done to help the fraternity should be given favorable consideration. H. N. BINGHAM.

Sask. Believes the Course One That Every Young Farmer Should Attend.

EDITOR FARMER'S ADVOCATE:

I take this opportunity to say a few words about our course in the Agricultural College of Manitoba The course includes everything bearing on agriculture and I do not think there is a single subject that could be left out. I think it is just what every young man should have before starting out as a farmer. The principles underlying agriculture are taught, and also those underlying other branches of work that go hand in hand with farming. A man learns the why and is therefore able to work intelli-

have learned from years and years of experience. Although I liked and appreciated all the subjects, yet I think I liked agriculture the best. The subject is very interesting and of practical value to the farmer. It comprises the study of the soil, its formation, com-

gently. He learns in two winters what other men

of seed grain. ment; also the selection and judging of the various

mechanics, veterinary science and dairying. We, as and finally to the trust. well as any other business or professionalimen, must ind duting against the last

society. We received much benefit from this, as ship, or development to larger outfits could be seen from the improvement the boys made Some years ago the threshermen in during the winter, both in the way the meetings were formed a combination and raised rates beyond what twenty years will still find it doing the work. conducted and also in the manner of speaking.

tions as are before the province to-day. By united of sixteen members was formed under a provincial effort we think much can be done. I think that charter, with \$5,000 stock subscribed by members. Manitoba will receive very much benefit from the Agricultural College at Winnipeg.

HARRY N. THOMPSON.

Rape on the Summer Fallow.

Some few have tried a light sowing of rape the outfit was to be paid out of the stock. given by the cattle. A short time ago we holders for deficits. queried a stockman who has tried this method Last year the directors manned the outfit, gave for years and although he does not condemn it the manager a free hand to thresh where he could early spring frosts, or there is increased liability deficit the majority decided that the time had come to grubs which have found a suitable host plant for the outfit to go under the hammer.

This company was too large. To arrange a rotamentioned cannot be overcome, he suggests playing the appropriate the first time had come that the majority decade that the hammer.

This company was too large. To arrange a rotation that would satisfy sixteen farmers who were nearly all ready to thresh the same week was impossible to grubs which have found a suitable host plant for the outfit to go under the hammer. sow the land to barley. We should be pleased such adjustment to a group of co-operating farmer's tried this combination method of soil packing charter is in my opinion unnecessary for such a and pasturing.

Would Sow Timothy.

humus in the soil, and I wish to say that this is likely better results than co-operation

with us so far, but some are taking to seeding with in such concerns. It must also be conceded that grass as an experiment. Others think sowing bar- co-operation is necessary to regulate rates where fit, although that is a rather hard point to give any definite opinion upon. The thresherman, take it all around, has a hard lot, and anything that are hard to half the fraterity should be shown to half the fraterity shown I have observed that timothy is the best grass seed management with those of co-operation in the to sow, not leaving it more than two years. It may production and distribution of agricultural know be sown with any grain crop and appears to be a sure ledge. These reciprocal benefits, together with ten be sown with any grain crop and appears to be a sure enough grower if there is plenty of moisture. I believe in putting all the manure I can get on the land, hauling it as made during the winter. We spread it evenly and then when dry in the spring burn off the straw so that it can be plowed in with satisfaction. The burning also kills most of the no cramped quarters, nor manure heaps for the grain, to graph to have an adequate grain to graph to have an adequate grain. seeds in the manure. I take about three or four thresher to go through, to have an adequate supply crops off after summer-fallow and then fallow again. of water and fuel, to make prompt payment, etc. I have plenty of slough hay so far, but think the and it appears to me that any thresherman in the cultivated hay is better as it is more healthy for district will give reciprocal advantages in rates and horses. I have been farming here for over twenty careful threshing. rears, and land seems as good as ever it was when fallowed properly.

JNO. DEYELLS. East Assinaboia Municipality, Sask

Advocates Private Ownership of Outfits.

EDITOR FARMER'S ADVOCATE:

position, and cultivation, maintenance of soil fertility, by farming being regarded as an industry, but if nate this waste by perfecting a motor that can be Another subject that I thought very much of was like the nebulæ of the astronomers, out of which in expense is gradually working that way, and if Edi types of the different classes of animals.

These two subjects are of the utmost importance to us, as farmers, but I am sure we cannot afford to do without a knowledge of English, mathematics, management from a partnership to the corporation

machine suited to put the labor stamp on some particular raw material of the farm formed the nucleus to the success claimed for it, threshing will gradually find its way back to the farm, and the size of a new industry. Gradually the machine developed from the simple to the more complex, and the sary to run other farm machinery.

Woodlands Municipality.

A. M. Campbell.

Now threshing is one of those industries which or should, know all about the ins and outs of our on account of the introduction of complex machinery has broken away from the farm, and if we reason From the practical side I am sure all the students from the analogy without regard to logical prewill agree with me that we got our money's worth in good measure, and by intelligent work I think we towards larger outfits, etc. On closer investigation would like to give my ouinion on the manure spreader shall prove it this summer. From the social standit is seen that all the specialized industries put the invested money on any farming implement that point I think we received much benefit, both from labor stamp on transportable raw material, and invested money on any farming implement that being associated with, and acquainted with, men operate the year round, which provides for skilled gave so much satisfaction. Have never had to put who were 'doing things." Our lecturers were first-workmen; while the thresherman puts his stamp three horses on it to do the work, and think with rate men, ever ready to left a helping hand, and each on material not transportable to industrial centers. the manure spreader one man can draw out as much and every one was highly esteemed by us. The boys Hence threshing must always remain a satellite to manure as two men can the old way, and it is much themselves were bright, generous, good-hearted the grain growing industry, and as such is absomore satisfactory, as it is spread so much more evenly fellows, who worked when they worked, and when at lutely under the control of farmers themselves. and not only as a manure spreader, but for drawing their games played for all they were worth.

There are two associations that willido much for rates beyond a fair profit. Farmers could next it which I use for unloading, and can unload in less manitoba, the literary society and the research association. The aim of the literary society and the practically ruin some of the threshermen. This I have been keeping my yard cleaned out all winter are the practically ruin some of the threshermen. This I have been keeping my yard cleaned out all winter rates the practically ruin some of the threshermen. the boys as to the proper ways to speak and also to condition, the short period in operation, the amount with the manure spreader, and have used it every conduct meeting of various natures along parlia- of capital involved, the scrub gangs of unskilled winter since I got it. I have had mine four years, mentary rules. To be able to think and speak clearly workmen of the migratory class, and the undesirable and up to now have on lylaid out one dollar for repairs. and readily before others is the principal aim of the nature of the work, all tend to restrict private owner- I think I am right in advocating the manure spreader

was considered a fair profit. A meeting of farmers The research association, to which all the boys followed and satisfactory arrangements were made glong, has for its aim the answering of such ques- for that year. Next year a joint stock company A board of five directors was appointed to manage Editor Farmer's Advocate: the concern and a large Battle Creek Advance outfit purchased. This enterprize was a success in so far as the object for which it was undertaken was concerned. Rates were struck to cover running expenses, and

Year after year wages rose till last year they were on the summer-fallow with a view to securing about double what they were when we organized, some pasture for cattle in the late summer or early but we could not agree to a commensurate advance fall and with the greater advantage of packing in rates, as it was profitable for the larger farmers the soil down well by means of the tramping to have low rates and if need be draw on the share-

a result the young cereal plants are killed by the the proposal was made to draw on the stock for the

small concern, while a board of five directors is too enimbersome in a business that can be more efficiently handled by one.

Would Sow Timothy.

EDITOR FARMER'S ADVOCATE:

I have read the articles in the FARMER'S ADVOCATE as a business. Hence we must mier that the nature of late, re soil fertility and seeding to grass to keep of the industry is such that individual effort gives

executive ability to keep things running smoothly. to be a very important matter with us before many
It must be conceded that private ownership and
It must be conceded that private ownership and It must be conceded that private ownership and It must be conceded that private ownership and It must be conceded that private ownership and It must be conceded that private ownership and It must be conceded that private ownership and It must be conceded that private ownership and It must be concede It must be conceded that private ownership and

If, I however, conditions arise when co-operative ownership and management is necessary, the num ber in the company should be limited, and one mem ber should manage and accompany the outfit.

When one considers the waste in agriculture from the number of traction engines that are rust ing in sheds or in the open for ten months in the year the number of horses that are eating their heads off In connection with the question of threshing, I for six months, the amount of money in windmills. may say that much confusion of ideas has arisen etc., the tendency for the future should be to elimi plant food, plant-growth, and diseases of plants. an industry is a distinct line of business, then farm- attached to any farm implement or machine. Steam The subject also enibraces the selection and judging ing cannot be regarded as such. Looking back power will never fill this need. The gasoline outfit through the historical telescope it appears more which combines lightness of carriage and less labor animal husbandry. This takes up the study of the the gradual process of evolution, industry after son's latest invention of an electric motor that can various breeds of animals, care, feed, and manage- industry has been formed. The invention of a be attached to any farm implement or machine will machine suited to put the labor stamp on some par- be the success claimed for it, threshing will grad-

Defends the Manure Spreader.

EDITOR FARMER'S ADVOCATE:

hip, or development to larger outfits. as a farm implement, one that no farmer should Some years ago the threshermen in this district be without; and I also think, by taking care of it

RICHARD YELLOW.

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Good Words for the Manure Spreader.

I should like to say something about the manure and spreader question. I think this subject cannot be too well considered, as it is a very important item to the

I apply manure with the spreader in the spring at the rate of twelve loads per acre for top-dressing grain, and eight for grass, with a medium-sized machine, with good results. This way is better than spreading by hand in winter, as the machine does a better job, covers more ground with the same manure. and spreads it more evenly. There is also less loss in this way, because the winter-applied manure will altogether, he is not enthusiastic, for the following reasons. Either it leaves the ground too hard, especially in spots in the hollows where be considerably washed away by spring rains. It hard, especially in spots in the hollows where side machines. When the outfit pulled in it was found a machine for three years, with a cost of \$1.25 for the plowing may have been too shallow, and as that receipts did not cover expenditure and when repairs, there being two tires set, and one link or drive chain. The spreader will spread faster than five men, if they will cover as much ground and do as good a job. With a good team you can spread a load in from three to four minutes on an average. with a medium-sized machine, spreading twelve mentioned cannot be overcome, he suggests nearly all ready to thresh the same week was impos-plowing the summer-fallow late in the fall and sible. To distribute shares and adjust rates so as to one-half ordinary wagon loads. The wheels are running the packer over it early in the spring, make an equitable distribution of obligations and five inches wide, and will not cut up fields so badly as and if this does not have the desired effect to benefits is mathematically possible, but to apply a wagon, being a good advantage in a grass or grain field. The manure is distributed very evenly, and to have the experiences of others who have seemed impossible. The expense of a provincial coarse manure made much finer than it can be made by hand with a fork. On a farm, where from two to three hundred loads of manure are handled yearly. the spreader will pay for itself in a few years in extra profits, as you can put the manure where you want it most, and with best results. A machine, properly

GEORGE SHARP

The Roads of the Country are Worthy of Consideration

MAY 1, 1907.

wnership and orous "push" onceded that rates where MER'S ADVO eration, com wnership and tion in the ltural know her with ten at comes up for farmers grow clean and a rota ves, to have aps for the quate supply lyment, etc.

co-operative y, the num d one mem outfit.

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spring at p-dressing lium-sized etter than ne does a e manure.) less loss mure will rains. It ring, and nave used \$1.25 for e link or ster than and de spread a average g twelve one and ieels are badly as or grain nly, and be made mtwoto 1 vearly in extra 'ou want broberly. v vears

and put SHARP

having. The following ideas regarding the roads a common proportion.

is less strong than three; for three men, carrying each inch to a foot

one which forms the approach to a populous city. The drainage of a road by suitable ditches is one be seen on a road of loose gravel and on a railroad

The season will soon be here when municipalities When broken stone roads are adopted, it is usual of the most important elements in its condition will be engaged with the question of maintaining the for the sake of saving in the first cost to make only. All attempts at improvement are useless till the water country roads in the best possible condition for a certain width or "causeway" in the middle of the is thoroughly got rid of, and a bad road may be travelling. All are not agreed as to the best method road of a harder material, and to form the sides or changed to a good one, by merely forming beside it to follow, although the statute labor way is falling wings of the natural earth which will be preferable deep ditches, inclined so as to carry off at once all more and more into disrepute, ensuring a maximum in summer and for light vehicles and horsemen the water falling upon the road of expense with a minimum return in results worth Sixteen feet for the middle and twelve for the sides is "The slopes of cuttings and excavations vary

causing a constant expense for repairs, which the second, of the recurring expense of repairs, third, of carriage wear, and of road wear. Hardness is that road must not fall short of, as well as a maximum of time and labor employed in travelling over it. property of a surface by which it resists the impression fectly level in its longitudinal direction, its surface same time, straightness should always be sacrificed to the preservation of smoothness. could not be kept free from water without too great to obtain a level or to make the road less steep. This An elastic surface, though pleasant for passengers. level country, the roads should be artificially formed of great circles which join two opposite points of this requisites for a perfect road. In the gentle undulations approximating to the minimum limit. To sum up, then, the longitudinal vertically. Precisely so may the curving road ties, stones, or other loss of amount mum limit. To sum up, then, the longitudinal vertically. Precisely so may the curving road ties, stones, or other loss of amount mum limit. To sum up, then, the longitudinal vertically or around a hill be often no longer than the straight one whether they pass horizontally or the resistance of collision is occasioned by inequality or slopes of a road should be kept, if possible, between around a hill be often no longer than the straight one whether they pass horizontally or the resistance of collision is occasioned by inequality or slopes of a road should be kept, if possible, between around a hill be often no longer than the straight one whether they pass horizontally or the resistance of collision is occasioned by inequality or the resistance of collision is occasioned by inequality or the resistance of collision is occasioned by inequality or the resistance of collision is occasioned by inequality or the resistance of collision is occasioned by inequality or the resistance of collision is occasioned by inequality or the resistance of collision is occasioned by inequality or the resistance of collision is occasioned by inequality or the resistance of collision is occasioned by inequality or the resistance of collision is occasioned by inequality or the resistance of collision is occasioned by inequality or the resistance of collision is occasioned by inequality or the resistance of collision is occasioned by inequality or the resistance of collision is occasioned by inequality or the resistance of collision is occasioned by inequality or the resistance of collision is occasioned by inequality or the resistance of collision is occasioned by inequality or the resistance of collision is occasione

The proper width for a road depends of course The split log drag and the road machine have done tant that such obstacles be as few and small as poss Its minimum is about one rod or sixteen and a half and effectual when the more expensive machine gation to be proportional to their size. teet, sufficient to enable two vehicles to pass each cannot be used. Roads are the arteries of trade other with ease. For ordinary town roads, a good and afford access to all the comforts of present day of the wheels against the surfaces with which the

with the nature of the soil. Solid rock may be cut should be kept in mind when construction is going In forming the road bed, or travelled part of the vertically, or at a slope of one-quarter to one. Comroad, the first and most important point in a flat mon earth will stand at one to one, or at one and a The ideal road should be perfectly level. If it be country is to raise it above the level of the land half to one; the latter is safer. Gravel requires one not, a large port on of the strength of the horses through which it passes, so that it may be always and a half to one. Heavy clayey earth will assume a which travel it will be spent in raising the load up free from water, a precaution which is essentially slope of three-quarters to one, and fine dry sand the ascent. In round numbers, upon a slope of necessary to keeping a road in good condition. The of nearly three to one. When the lower part of a t in 44 or 120 feet to the mile, a horse can draw only road must not be flat, but must "crown," or be cutting is in rock and has a steep slope and the upper three-quarters as much as he can upon a level; on higher in the middle than at the sides, so as to permit portion in earth has a much flatter one, a wide a slope of 1 in 24 or 220 feet to the mile, he can draw the water of rains to run off at once into the side "bench" or offset should be made where the change only half as much; and on a slope of 1 in 10 or 528 ditches. The best transverse profile for a road on of slope takes place. Fillings or embankments have feet to the mile, only one-quarter as much. This level ground is that formed by two inclined planes less variety than cuttings in the nature and condition ratio will vary with the nature and condition of the meeting in the center of the road, and having their of their materials, and, therefore, have less variety road, for the resistance of gravity is relatively less angle slightly rounded by a connecting curve. The of slope, which is usually one and a half to one, or upon a rough road. Besides the increase of draft inclinations thus formed will be uniform and the road two to one. The customary form of the side slopes caused by gravity, the power of the horse to overcome will thus escape most of the evils incident to a curved of the cuttings and fillings is that of an inclined plane it is much diminished upon an ascent, and in even a profile. The degree of inclination of these planes though the natural face of an excavation when left greater ratio than that of man, owing to its anatomical will depend on the surface of the road, being greatest to itself becomes curved, convex at the top and con formation and its great weight. Though a horse on where the road is rough. A proper medium for a cave at the bottom. This curve of stability is more a level is as strong as five men, yet on a steep hill it road with a broken stone surface is 1 in 24 or half an over that of beauty, but has not yet been put into practice.

100 lbs., will ascend faster than a horse with 300 lbs. Other things being equal, every road should be The qualifications desirable in the surface of a The bad effects of steepness are especially felt in winter, perfectly straight, so that the time and labor expended road are smoothness and hardness, so as to reduce for the slippery surface causes danger in descending in travelling upon it should be the least possible, to the smallest possible degree the resistances of as well as increased labor in ascending. The water An unnecessary length of road causes a threefold elasticity, collision and friction. Smoothness is of rains also gullies out the surface of the road, waste; first, of interest on the extra capital expended; equally essential to comfort and to economy of labor, which it must not exceed. If the road were per- But when a road cannot be straight and level at the of any bodies which infringe upon it. It is essential

a rise in its middle, but when a road has a proper is one of the most important principles to be observed would be the worst possible for traction, as the yield slope in the direction of its length, not only do the in laying out a road, and it is one most often violated. ing presents before the wheel a miniature hill up side ditches readily discharge the water which falls In a hilly country, a good road should wind around which the vehicle must be raised with a certain loss into them, but every wheel-track also becomes a the hills instead of running over them or incurring a of power. If the depression were one inch and the channel to carry off the water. The minimum slope great and unnecessary expense in making deep wheel four feet in diameter, an inclined plane of 1 is assumed by an experienced English engineer to be cuttings and fillings. And it may often thus wind in 7 would be formed, and one-seventh of the entire I in 80 or 66 feet in the mile. The minimum estab- without increasing its length. For if a hemisphere weight would need to be lifted up this inch. A solid. lished in France is 42 feet to the mile. In perfectly be placed so as to rest upon its plane base, the halves unyielding foundation is, therefore, one of the first

waste of power of draft. It is, therefore, impor-

The resistance of friction arises from the rubbing width is from twenty to twenty-five feet. A width civilization; such as schools, churches, post offices, come in contact, and will always exist, however the of thirty feet is fully sufficient for any road, except etc., and as such should be kept in good order. surface may be improved. Its two extremes may



The to by I. A Veate, Lionsden

GRADING ROAD NEAR LUMSDEY SASK

Manitoba Grain Growers' Executive Meet.

The executive of the Manitoba Grain Growers' Association met in Winnipeg on the 17th and 18th marked for carrots and sow from one half to three insts. to discuss plans and actions. Those present

W. G. Rogers, of Carberry, and William Miller, of Boissevain. In the absence of R. McKenzie, secretary, who was unable to be present, W. G. Rogers was

appointed secretary pro tem.

A communication from the Retail Merchants Association, of Winnipeg, was read, urging co-operation in obtaining redress from the very unsatisfactory transportation conditions now existing throughout Western Canada. The remedy suggested was recipro-

The action of the Government in securing amendments to the Grain Exchange by-laws was approved, but in the opinion of the executive the amendments do not yet fully meet the requests of the association,

and the following resolution was accordingly carried: "We, the directors of the Manitoba Grain Growers' Association in executive meeting assembled, note with pleasure the action of the Government in securing amendments to the by-laws of the Grain Improved Exchange, particularly those which refer to the celery. W elimination of competition in the purchase and handling of grain and also the removal of restrictions to membership in the Exchange. The amendments to rule 4, by-law 19, and amendments 7 and 8, do not seem to have been fully understood by the Government, and therefore as now amended do not meet our fullest approval, but in view of the fact that at the approaching conference we are assured that a full discussion and settlement of these matters will take place, we do not deem it advisable to make any further pronouncement at present. Carried.

In response to the many complaints received by tne association from shippers at flag stations, it was moved by Mr. Miller, seconded by Mr. Doran: That immediate steps be taken to secure suitable persons at all flag stations on the Canadian Pacific Railway to look after car order, book and seal cars, and that Mr. Henders interview the C. P. R. in the matter.

"The following resolution was also passed: That

in view of the coming conference for the discussion of Government ownership of elevators and other matters, which was postponed until June 5th and 6th, be it resolved that preparations for th same be made."

If I were growing vegetables for my family A RHUBARB (PIEPLANT) LEAF FROM THE KOOTENAY

Practical Advice on Planting a Garden.

Horticulture and Forestry

EDITOR FARMER'S ADVOCATE:

e only I would adopt the following method: Land in this country being both cheap and plentiful. I would select two plots, or one large plot say one hundred rods, cropping half, in alternate years. During June or July I would summate years. During June or July I would sum-mer-fallow and surface cultivate, with a view factory results even with cabbage, tomatoes, and mer-fallow and surface cultivate, with a view factory results even with cabbage, tomatoes, and colory (expecially the letter). I do not follow to having my plot thoroughly clean, and free from the method of suppose follows but over all my the region is the right angle to fit your gables weeds the following year, in August manufer and for garden products every year, but have to use it out of doors and will keep the fowls from geting manure with soil and leave till following spring. Then say first week in May'a scratch ready in early spring when seeding is all the rage over with the harrows will be all that is necessary; then get a Planet Jr. drill with cultivator attachment.

Sow from the 3rd to 9th of May—carrots, beets, parsnips, onions, peas, lettuce and parsley, in rows from twelve to sixteen inches apart. In one hour a man can sow of these seeds as much as one ordinary family will require for a year. Then from the 12th to 16th sow cabbage, celery, tomatces, beans, marrow, cucumber, squash and pumpkin. If the plot is sloping choose bottom of plot or where you have the greatest depth of soil for celery and sow flat, not in trenches, leaving from five to six feet from row

For cucumbers sow thinly in drill, not in hill, and let drills be from six to eight feet apart. This method for cucumbers will also apply to citrons. For squash and pumpkins, sow in drills about ten feet from drill to drill. When plants have grown from four to six leaves; thin squash and pumpkins from six to eight inches from plant to plant; citrons and eucumbers, from three to four inches from plant to plant, protect at night if danger from frost. For tomatees sow in rows from three to four feet from row to row. Bake or otherwise destroy sixty per cent, of

and sow together. Plants will be found quite which allows the fowls to help themselves when they thick enough in this way. Set indicator as quarter inches in depth on level and even sur-President, D. W. McCuaig, of Portage la Prairie; face. In cabbage sow from twenty to twenty-vice-president, R. C. Henders, of Culross; hon. president, J. W. Scallion, of Virden; S. C. Doran, Brandon; between turnips and carrots. For onions let the bed be hard and well packed; sow seed according that if the dish were left there and always kept full to indicator on drill and thin from two to two and that they would continue to gorge themselves, but a half inches from plant to plant.

As to kinds: In carrots, Short Horn and Beans, apart from May the 12th to June 6th for succes- all the mash they will eat three times a day, will sion crop. Beet, Edmand's Red Turnip and consume more grain than if they have dry grain cal demurrage or a penalty to be paid by the transportation company to the shipper for neglecting to remove a car a minimum distance per day as per early use, Jersey Wakefield, for general crop, a resolution passed at the annual convention in Feb-Winningstadt; Cucumber, for pickling and ruary. A resolution was passed indicating the general use, Nichols Medium Green'; Caulingscopiation's willingness to converge in the restart association's willingness to co-operate in the matter. flower seed being expensive it is advisable to from dry grain to mashes he gets less eggs. Each raise in hotbeds or boxes and plant out, from 1st is sure that the new method is not so good as the old to 10th of June. (Early Snowball is the best.) Any sudden change lessens egg production. good; onion, Extra Early Red, and Yellow number of chicks live and thrive when fed dry feed in hoppers than when fed mash at intervals; hundreds of chicks owe their early deaths to wet corn meal After chicks are old enough to get whole grain. Rennie's Queen; radish, Early Scarlet, and squash, Hubbard: Chaities; celery, White Plume, and Paris Golden. ing There are many other good varieties, but the

> above will be found to give satisfactory results. Last year I sowed everything in the open, with the exception of cauliflower, and had very satisthe method of summer-fallow, but crop all my the grain in. It will keep the rain out if you wish merely suggested the advisability of having land ting into the grain when used indoors. vegetables, like everything else, to be successful must have early attention, and if grown in the than anything else on the farm, the labor being reduced to a minimum. S. LARCOMBE.

[Mr. Larcombe is one of the most noted gardeners among our Western farmers.—Ed.]



Hopper Feeding.

No one will doubt that the hopper method of dry sequently enables a person to care for a much larger ber with the same amount of time and attention. it has become almost the only method used on sack protruding from the navel. The allantois serves large poultry farms. When one feeds only once a as a temporary lung by which the blood is oxygenated day, or once a week, one can handle so many more

seed; mixing destroyed and good seed thoroughly, naturally looks doubtfully at a method of feeding But one method of feeding cannot be judged by what one observes under the other method. For example, when a flock of hens have been fed, say a quart of grain, three times a day, and you set a dish of grain down in front of them, they at once proceed to gobble down all they can hold. It is natural to suppose anyone who has tried it knows that this is not the case. Fowls that have access to a hopper eat a little now and then all through the day, but never much Association and also from the Jobbers' and Shippers' Ox Heart are good both for crop and quality; at a time and will run about digging for bugs and Valentine and Wardwells Kidney worms quite as industriously as hens fed twice or These may be sown in drills three feet three times a day. Growing chicks which are fed

There is much dispute as to whether hens will lav more fed on mashes or on dry grain. When a poultry raiser has fed mashes and suddenly changes to dry grain he gets less eggs. If another suddenly changes

There is absolutely no question but that a larger given the run of a hopper full of grain and free range they will do better than by any other method of feed-

The easiest hopper to make is one made of an empty box five or six inches deep and of any length and width to suit the number of fowls to eat from it. Two feet long and eighteen inches wide is a good size. Boxes of this size and depth can usually by easily gotten at any store. If they are too high it is an easy matter to saw them down to five inches. All that is necessary to complete the feed box is a frame made like a mosquito bar frame for a window and covered with chicken wire. The frame should be enough smaller than the box to let it move up and down easily. There should be about a quarter of an inch between the edge of the frame all round and the sides of the box. Fill the box nearly full of grain and put the frame on top of the grain; as the grain is eaten the frame follows it and keeps the fowls from scratching it out over the sides. Laths can be nailed to the frame an inch apart instead of the chicken wire if desired. The only objection to this hopper is that some of the droppings from the fowls get into the grain, but not so much as one would suppose, and the quickness and ease with which it can be made recommends it. When used in a building it should be nailed up on the sill to keep the fowls from scratching the litter into it.

If one wishes a hopper which the fowls cannot get into for the hen house, one can make it by taking an eight inch board from four to eight feet long according to the number of hens. This board makes the bottom of the trough or hopper. Nail two eight inch pieces sixteen inches long on for ends of the trough. Let them project below the trough bottom four inches to keep it above the floor. Let the end pieces project upward from the bottom twelve inches; then saw the upper ends of these end pieces like the gable ends of a house to carry the roof o the trough; then nail a three inch strip along the bottom and a one inch strip at the eaves and nail lathstrips up and down between, wide enough apart for the hens to put their heads in. Nail two boards

Most of the objections which come to one's mind before trying hopper feeding disappear when it is used. There is absolutely no danger that growing chicks will eat too much dry feed, nor that layway indicated, will give more profitable results ing hens will over-eat when out on free range. When confined to the hen house in cold weather hens should be fed oats in a hopper and a moderate amount of wheat in the litter. Those that lay will not fatten. Those that do not lay and get fat can be sold to the butcher.

Crossfield, Alta.

Use Care When Testing Eggs.

A poultry expert thus testifies in a contemporary on a point of interest to poultrymen:

"We believe many crippled chicks are made the first test. Anywhere from the fifth to the seventh day the eggs are tested. Frequently the egg is rolled between the fingers in front of the tester; sometimes held so close to the flame that the tender germ is cooked; again, so rudely handled as to break or disturb the blood vessels of the tender allantois, Within the last two years so much advancement the growth which pushes out from the digestive made in the methods of dry feeding that canal of the embryo and which is seen as a bag or

Handle the eggs the first twelve days of incubation as if each had a tender living organism inside which would be killed or crippled by careless movement.

DUNDED 1806

1 of feeding s when they estion, etc. ged by what or example. a quart of lish of grain ed to gobble to suppose ys kept full nselves, but is not the r eat a little never much or bugs and ed twice or nich are fed a day, will e dry grain

iens will lav en a poultry nges to dry nly changes eggs. Each tion.

nat a larger ed dry feed ls; hundreds corn meal ole grain, if I free range. hod of feed

nade of an any length to eat from de is a good usually by oo high it is nches. All c is a frame vindow and should be ove up and quarter of round and full of grain is the grain the fowls Laths can tead of the tion to this n the fowls one would h which it in a build-

ep the fowls y taking an ong accordmakes the two eight nds of the igh bottom et the end om twelve end pieces the roof of along the ough apart two boards cour gables off to put you wish ls from get-

me's mind when it that growr that lavge. When ens should amount of not fatten. sold to the

THOMAS.

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made the he seventh gg is rolled sometimes er germ is allantois, s a bag or itois serves xvgenated

incubation side which

Increasing The Egg Yield by Selecting the Stock.

The Maine Experiment Station has for some time The aim was not to make a few phenomenal layers, is carried out by placing the pans on a hot-water uniform. but to increase the average yields of the stock for stove and allowing steam to play upon them. It sho practical purposes. The work was begun eight years ago, by taking a stock of Barred Rocks that had been averaging about ten dozen eggs a year, per bird,

During the seven years which have elapsed since the work was begun every generation of pullets has been subjected to rigid culling by trap nests and no bird with a record of less than 160 eggs has been bred. pans on a kitchen range or hob, but the hot-salty flavor. For the last two years the average egg yields of the water method is preferable. flocks have been twelve dozen eggs per bird. While the increase of two dozen eggs per bird may in a measure be the results of improved methods of feeding and handling they feel very sure that it is chiefly due to the rigid exclusion of drone blood.

There is nothing new in the plan pursued. It is insures extra keeping properties. only breeding producers to the sons of producers, to get producers, and it has proven as true with the One pound of cream may be obtained from one laying hen as it has with the dairy cow and trotting horse, and all other classes of improved animals.

The general use of the trap nests by small operators is not urged, because of the expense of equipping may be required to produce the same quantity and operating. Anyone who is at all familliar with of cream. poultry can go among the pullets on the range in autumn and pick out the ones that are laying, or about doing so, and save them for the next year breeders. Twenty-five pullets picked out in this way from among a hundred in the station flock, averaged 180 eggs each in a year. While this method is not are: (1) to impart a desirable flavor; (2) to increase

Keep Charcoal in the Pens.

diarrhœa.

More little chicks die from diarrhoea than any other distributed. complaint; the use of charcoal is of assistance in rearing the little ones, and if kept before them conupon the least variable factor. Some creamerymen
mines have not yet come to terms, though the prosstantly it will help them to reach maturity at an measure the amount of salt according to the amount

Charcoal is not a drug; it is a natural purifier from which no bad effects can result. Feed in the mash and in hoppers same as grit and shell.—Farm Poultry.

DAIRY

How to Make Devonshire Cream.

so that every dairy farmer may prepare the other butter constituents. A variation of 1 per cent delicacy if he will. The writer remarks that Devonshire cream is strongly recommended by the medical profession as an excellent fatty food, and is displacing to some extent the use of codand is displacing to some extent the use of codthe preparation of clotted cream, it is desirable expressed during working. Secondly, it depends to use rich milk, such as is produced from the upon the amount of working the butter receives, to use rich milk, such as is produced from the upon the amount of working the butter receives. Channel Island breeds of cattle; but this is not essential, and the evening's milk from Shorthorn cows will produce very good cream indeed. In Devon and Cornwall clotted cream is largely more butter is worked, up to a certain limit, the form the milk of Devon cattle which are the bulk of the working is done, after the salt has been added. If the butter is medium firm, moisture in the form of brine is being the working. Consequently the working. Consequently the more butter is worked, up to a certain limit, the form the milk of Devon cattle which are the bulk of the working is done, after the salt has been added. If the butter is the farmers of the West to-day are paying for a whole lot of "hot air," and paying a big price for it worked, up to a certain limit, the farmers of our consider very much the quality of the goods or the reliability of the party who is behind them. The result is that the farmers of the West to-day are paying for a worked, up to a certain limit, the farmers of the working is done, after the salt has been added. If the butter is worked during the working is done, after the salt has been added. If the butter is worked during the working is done, after the salt has been added. If the butter is worked during the working is done, after the salt has been added. If the butter is worked during the working is done, after the salt has been added. If the butter is worked during the working is done, after the salt has been added. If the butter is worked during the working is done, after the salt has been added. If the butter is worked during the working is done, after the salt has been added. If the butter is worked during the working is done, after the salt has been added. If the butter is worked during the working is a long way off and they of the goods or the reliability of the made from the milk of Devon cattle, which are more brine is being expressed, and the more salt admirably suited for the purpose. Crosses with should be added to the butter. Thirdly, the amount It may not always be wise for a man to wait till employed.

The cream is prepared as follows:

pans, only deeper.

4. When cold, the cream may be taken off in a thick, clotted condition, and is ready for sale. In summer it is especially advisable to cool the pans as quickly as possible after scalding, as this

The cream is generally sold by the pound. and one half gallons of Jersey milk, or less; whereas nearly two gallons of Shorthorn milk

Salting and Working of Butter.

The proper amount of salt to use in order to impart a desirable flavor depends chiefly upon the market Some customers prefer a medium high salt-content Charcoal is used to keep poultry and pigeons in a healthy, thriving condition, and this is done by the charcoal absorbing all the foul gases and sourness that may arise in the direction of the contains to the charcoal absorbing all the foul gases and sourness that may arise in the direction of the contains to the charcoal absorbing all the foul gases and sourness that may arise in the direction of the contains to the charcoal absorbing all the foul gases and sourness that may arise in the direction of the contains to the charcoal absorbing all the foul gases and sourness that may arise in the direction of the colonial Conference, as a healthy, thriving condition, and this is done by the charcoal absorbing all the foul gases and sourness that may arise in the direction of the colonial Conference, as a healthy, thriving condition, and this is done by the charcoal absorbing all the foul gases and sourness that may arise in the charcoal absorbing the colonial Conference, as a healthy, thriving condition, and this is done by the charcoal absorbing all the foul gases and sourness that may arise in the charcoal absorbing the colonial Conference, as a healthy, thriving condition, and this is done by the charcoal absorbing all the foul gases and sourness that may be a supplied to the charcoal absorbing the charcoal absor that may arise in the digestive organs, and preventing with practically all European markets. American markets, as a rule, demand comparatively high-When the droppings are too soft is the time to salted butter, as much as will properly dissolve in dismissed from the Woolwich arsenal as a result of pard against diarrhoea by giving more charcoal in the butter. The salt-content of butter may vary the policy of reduction in military expenditure. guard against diarrhoea by giving more charcoal in the butter. The salt-content of butter may vary the mash; then you will notice that the droppings between nothing and 4 per cent. Butter containfed (even by practical poultrymen) and in nine cases of the salt is usually present in an undissolved con-out of ten this will result in bowel disorder, which is dition. Those who like good butter prefer butter More little shirts and in a measure by the use of charcoal, that contains the salt thoroughly discolved against in a measure by the use of charcoal, that contains the salt thoroughly discolved and military average. harden and the bowels resume their natural and ing as much as 4 per cent. salt is, as a rule, too highly guarded against in a measure by the use of charcoal. that contains the salt thoroughly dissolved and well several naval and military experts.

The amount of salt to be added should be based of the cream in the churn. While the box-churn and Mason butterworker were being used, many ferred from the churn to the worker. The method vote of 466 to 148. mostly in use now, and to be recommended, is to base the amount of salt upon the number of pounds A gang of counterfeiters, who have been engaged therefore, according to the conditions menioned below, and also according to local conditions. Alta. Usually from half an ounce to one and a half ounces of salt per pound of butter-fat is most suitable. per hundredweight or per thousand pounds of milk. a hundred and twenty per cent. To get the butter salted uniformly from day to

A leaflet by the British Board of Agriculture day is very important, as a small variation in the is clipped from the Dairy World, in which the salt-content has a greater effect upon the quality places the number of wage earners in Canada at art of making Devonshire cream is set forth, of butter than has a small variation in any of the 814,930 of which 81.75 per cent are males.

The conditions upon which the proper amount liver oil amongst invalids. Devonshire cream is of salt depend are: First, the amount and condition very rich, containing from 50 per cent. to over of moisture in the butter at the time the salt is added. 60 per cent. of fat, and this fat is of a more If there is a great deal of loose moisture in the butter, digestible kind than any other, being present in more salt is necessary. This is due to the fact that the cream in a finely emulsified condition. In the salt will go into solution in the water and be sary in the first place.

2. The pans of milk are left undisturbed in a . It is undoubtedly due to these facts that the coel dairy for the cream to rise. In summer, sale-content and the condition of salt in butter vary twelve hours or less is the time allowed, but in so much at the different creameries; they even vary past given attention to the poultry industry and commenced investigations in breeding poultry to learn if the egg laying capacities of hens could be and scalded, great care being taken not to disadd to butter, and the amount of salt retained in scalded, great care being taken not to disadd to butter, and the amount of salt retained in advanced and become a fixture in a family of birds. turb the cream on the top of the milk. Scalding the butter when finished, will be comparatively

stove and allowing steam to play upon them until, in not less than half an hour's time, they salted too heavily. Butter made from a rather been averaging about ten dozen eggs a year, per bird, have attained a temperature of 175 to 180 and by the use of trap nests, selecting the hens that degrees F., when they are removed, and either poor quality of cream may be salted corresponding to or more eggs and breeding them the follow-allowed to cool naturally or are evoled by pleasing. This is due to the fact that the heavy laid 160 or more eggs and breeding them the follow- allowed to cool naturally, or are cooled by placing salty taste covers some of the undesirable flavors ing year to the sons of other hens that had laid 200 them in a stream of cold running water. The in the butter flavors are good, they scalding should not be done too quickly, otherwise should not be hidden by a heavy salty taste. If the characteristic scald flavor is not produced. the butter flavors are poor, then it may be policy The heating may be carried out by placing the to partially cover them up with a medium-heavy

McKay and Larsen

FIELD NOTES

Events of the Week.

BRITISH AND FOREIGN.

Lord Haliburton is dead. He was the son of the well-known Justice Haliburton of Nova Scotia, and Under-Secretary of War from 1895 to 1897.

King Edward's tour of the Mediterranean is likely to result in more friendly relations between Italy and Spain.

as good as trap nesting, it makes better breeding practical for the farmer.

are: (1) to impart a desirable havor, (2) to increase the Women's Christian Temperance Union, died at the removal of buttermilk. Mrs. Esther McNeil, founder and first president of

According to the advice of Premier Laurier and General Botha the term "Imperial Council" will not

Several thousand skilled workmen have been They marched to the House to present their case.

CANADIAN.

The miners and operators of Canadian Western pects of a satisfactory settlement look brighter.

The by-law to raise \$250,000 in Calgary, Alta., makers preferred to weigh the butter as it was trans- to establish a municipal street railway passed by a

of fat. The amount of salt to use per pound of fat in making and circulating worthless coins, have been broken up and one of the party arrested at Red Deer, * * *

Pawnbrokers in Toronto were fined for charging In whole-milk creameries the salt is often estimated interest on money loaned at the exorbitant rate of

A Dominion blue book recently issued from Ottawa

Reports have come west that the Canadian Soo

EDITOR FARMER'S ADVOCATE: I wish to endorse the article by "Farmer" in your issue of April 10th, on the cash system. As a business man I wish to say it is a curse to both the business man and the farmer, and the sooner it is cut out the better it will be for all parties, and the better value the farmer

Channel Island cattle are also commonly of salt to add depends also upon the size of the butter he has all the money to buy an outfit which costs The cream is prepared as follows:

Whole milk, warm from the cow, is care
The granules at the time the salt is being added, and from \$300.00 to \$300.00, but he ought to have the hardness and the softness of the butter. If at least 50 per cent, of it, or wait a little longer.

The granules are very small and quite hard, they In justice to himself he ought not to buy any till he colleged. 1. Whole milk, warm from the cow, is caretully strained into setting pans. The pans most
suitable for the purpose hold about six quarts
of milk, measuring fifteen inches across the top,
seven inches in depth, and eleven inches across the top.

The granules are very sman and quite hard, they in justice to himself he ought not to buy any think
take salt with difficulty. The salt attracts more has half the price or more. It is these three, four
moisture from these small granules than from larger and five years' payment schemes that make a man
ones, which will escape in the form of brine. If poor, I feel satisfied that if a united effort were
the butter is present in a rather soft, lumpy conmade by both business man and farmer, in five
seven inches in depth, and eleven inches across dition at the time the salt is added, and there is no years this long time credit business would be he bottom; they are, in fact, similar to shallow water in the churn, consequently less salt is neces-thing of the past, and all parties concerned would be benefited. H. CATER.

Warning on Beardless Barley.

A correspondent sends us the following:—
"Do not sow the so called sixty-day barley. All parties that have tried it here have disposed of the stock and will use the Manchuria or Odessa sixrowed sorts. The sixty-day barley is a failure as a yielder and shells badly; in fact, the whole head breaks off. It does not stool out like the six-rowed, and further, will not kill out the wild oat pest. You EDITOR FARMER'S ADVOCATE:

EDITOR FARMER'S ADVOCALE:

I noticed on page 531, No 759, an article headed "Deep Plowing for Wild Oats." My opinion is not to plow down wild oats but to plow them up. Now, say in the fall the land that has the wild oats on is plowed from one to two inches deep; that will stir the ground up and make them grow from the root and also turn down the seed that has shelled out in the harvest time and they also will sprout. Then just while they are in the series grown. just while they are in the spring green summer-fallow or if there is not time cut them green for feed; then plow deep in the fall. If any farmer is benefitted from this method I should feel grateful and should be discarded be discarded. Man.

Seed Tested at Calgary.

The following is the list of the number of samples of seed tested at the Western Seed Laboratory at Calgary from January 25th. to April 20th, and indicates that the farmers of the Western provinces have made fairly good use of the opportunities afforded them of determining the vitality and purity of their seeds. Judging by the numbers of samples received from Saskatchewan it would appear that a laboratory for that province would be well patronized.

Alta. B. C. Sask. Tota

	Alta.	В. С.	Sask.	Total.
Wheat	63	5	47	II5
Oats		3	16	207
Barley	33	. 3	7	4.3
Rye	I	0	0	1
Peas & Beans	2	0	0	2
Flax	5	0	5	IC
Rape	0	2	0	2
Timothy	7	48	I	56
Other Grasses	15	39	I	5.5
Alfalfa	4	17	0	21
Red Clover	3	56	I	60
Alsike Clover	2	23	0	25
Other Clovers	I	20	I	22
Vegetables.,	63	0	0	63
	387	216	79	682

Experimental Farm in the Peace Valley.

Vermillion, Alta., on different subjects pertaining to whether in active service or idle. the Peace River and the empire in the far Northwest. Lately Mr. Lawrence has been appointed by the owner if possible. Too many cooks spoil a meal, it increases the cost of production over manual or Dominion Government to conduct experiments with generally a business enterprize also. I have known hand labor. The quality of crop a machine (either farm crops and fruits in the Peace River Valley and of co-operative ownership, but it does not generally large or small) has to thresh will many times make to have charge of a meteorological station. valley is expected to be opened for settlement in a few years and it is desired to have data and demonstrations to inspire confidence in the land. Already over 30,000 bushels per year have been raised at find information. I'll give you my reasoning! An experimental profit or loss. Farmers themselves can control this to a certain extent. Some have dirty or bad threshing every year; poor crop; tangled, over 30,000 bushels per year have been raised at find information. I'll give you my reasoning! An extent the parameter of share in general. Others seem to have it vice. Fort Vermilion and Peace River Crossing, and there outfit run by a gasoline engine commends itself to me. of shape in general. Others seem to have it vice supported in the country adjacent.

to the Peace River in 1879, taking from May 2nd to September 8th to reach their destination. He made his first trip up the river in 1891 and brought back a thresher on a ratt, covering the distance, 300 miles, in sixty hours.

In 1893 he made his first exit from the valley fastness and took in the exhibition at Winnipeg and the Worlds' Fair at Chicago.

In 1896, after studying at odd times, Mr. Lawrence entered Perdue, Ind., University and took the mechanical engineering course for two years. After having travelled extensively in Eastern Canada and the United States, he returned with his young bride to their home in the Peace River country, where he, with his brother, has been extensively engaged in farming and milling.

Bulkley Valley, B.C.

Canadian mountains and vast fertile valleys are shocks and they were anxious to thresh, the stacks ulent towards the end of the period of incubation. becoming familiar to the agricultural prospector, might go. If not particularly necessary to run one of the latest of these to demand public notice the men and teams could work at home and the animal penetrates the skin, it may remain for a long is the Bulkley Valley, which lies in the heart of the stacks left till the shock wheat was finished. Under time at the site of the bite, or it may enter sooner mountains some 760 miles north of Vancouver. The present conditions I always stack, as I have no say or later into the body by means of the blood or along valley is reached via Prince Rupert, the Skeena in a machine and no idea when I might get threshed; the nerve-tracts. According to the most recent river and the pioneer town of Hazleton. Settlement consequently deem it advisable to clear the fields, investigations, it appears that the virus of rabies was begun in the Bulkley Valley some years ago and Another point I have against shock threshing is on moves from the bitten part chiefly within the nerve the land is reported fertile, the climate pleasant and account of the outfits at present bringing such a large tracts in a direction towards the central nervous their is the firm conviction in the mind of every gang that if a lay-up occurs on many of them the system. It is evident that the virus becomes best Bulkleyite that the G. T. P., the C. N. R. and the farmer bears the whole expense and inconvenience, developed in the brain and spinal cord—the former G. N. R. will all run through the valley, which is This would be eliminated on a small outfit with men being the principal seat for the development of

with her abounding resources.

Room for Lots of Improvement.

on the farm gave so much trouble they would soon gasoline as when employed on heavier work.



F. S. LAWRENCE. In Charge of Experiments at Fort Vermilion, Alta.

There is a strong feeling that these huge engines and big machines are not what they promised to be. They fail to make a return on money invested and for at threshing, say 7 cents more and he has 7 cents for many reasons, some of which are: Dead capital about all the rest of his work. How many acres or how 10½ months a year; a large force to operate if they run and this force creating a huge loss and expense Readers of the FARMER'S ADVOCATE have noticed when they don't run; yearly outlay for repairs and articles from time to time by F. S. Lawrence of Fort their premature wreck on account of weather usage

The work satisfactorily. Nearly all the outfits operating the balance profit or loss. Farmers themselves can is every promise that an immense population can be Suppose we put the price of gasoline against the versa. It is a matter that could stand lots of dis-Fredric S. Lawrence was born October 9th, 1875, engine. If it is necessary to have to lay off the wages of men and horses necessary to run a steam cussion and improvement. and went with his tather, the late E. J. Lawrence, expense is practically stopped and it is not necessary to pay a man for firing, say two hours every morning, and no money coming in. A good mechanic ought to be able to superintend both ends if he has a first class article and fully understands his business. This dog scare which exists in some parts of Manitoba, and leaves every man to fill some other place. If shock threshing is being done I should like a rig that would handle what four teams would draw in. Should endeavor to have small stationary or portable bins and the length of time usually elapsing between a and save grain teams if possible. The horses should bite from a mad dog and the appearance of the not all be threshing on Manitoba farms, but a complete disease in the animal bitten. outfit left on each farm enough to work on the land all the time. If rain, wind or breakdown occurs to other animals appears to be directly effected by the teams and men engaged threshing should not be the bite of a rabid animal without any intermediate so they could immediately turn to something else. inoculation disease, the saliva serving as the vehicle The pioneer is penetrating the seclusions of the cultivator or plow. If a shower interfered with contains the contagium, and is consequently virabout one hundred miles in length and estimated to and teams not far from home. Supposing the outfit furious madness, the latter for that dumb madness—be capable of supporting an agricultural population were owned as a complement of the farm machinery (was forms which appear in the dog. Inoculation of 100,000. An enterprising lady, Mrs. E. Morrison of four farmers. If they had time to spare a job experiences have shown that the disease breaks out

Grout, has begun the publication of a paper, the or two extra might be taken in, the farmers finding their and bulkley Pioneer, devoted to the interests of the own men and teams in proximity to where the thresh-northern interior of British Columbia and all things ing is done. I should have no objection to shock considered the Pacific province should this year threshing under conditions similar to the above, as it experience an expansion partially commensurate is a matter not very encouraging to stack or handle grain twice in a short season, as it is not often we make any more than one or two cents premium over what is threshed in fairly good time. I still believe, however, that stacking improves the grain, but the stacker is not recompensed enough under our present and further, will not kill out the wild oat pest. To cannot grow a grain crop and expect the wild oat not to mature to seed. The above advice may save people useless expense. I. K.'

Practically I am not a thresher, but have been selling system. I have had no experience in the working around an outfit as a helper some twenty operative ownership, but my first year's crop was years or more, first as a farm hand and later somethreshed by a syndicate outfit in which I was pertimes as an employer of the machine and sometimes suaded to join and shock thresh and I was not in love times as an employer of the machine and sometimes with the system at all. They told me five jobs would on the gang or crew. My remarks will therefore be with the system at all. They told me five jobs would made a good deal from observation. It seems a very take about three weeks, but we were about two months vexed and unsatisfactory business if we judge from and I never got a plow cleaned that fall. The small remarks of those who are financially concerned in the outfit commends itself to me, for the following reassuccess of a threshing outfit, much more so since ons: Less dead money invested; chances of better expensive, complicated machinery has come into use. employment of time; separator easier put out of the The principal trouble is that something keeps going weather the time not in use or canvassed during bad wrong and it's buying, repairs, fix, fix, from start weather while in use; the engine housed more conof season till end and then an outlay of \$200 and more veniently in winter or summer and used for crushing often more before another season can be rightly or cutting, perhaps sawing wood occasionally. undertaken. This is not only on an outfit which has Sawing wood, however, is perhaps too easy a job for done considerable duty, but on a rig only a year or an engine developing enough power to thresh with two in usage. If some of the smaller machines used as I have been told they use the same amount of

The trouble with a steam engine in Manitoba is getting the fuel. Straw may be wet or it may be so windy only an occasional day is suitable and we have lots of work in fine weather, but less in rough or wet time, This is just where a gasoline would come in. A small building would hold all under cover and I don't think there is much danger of fire. Lack of knowledge or experience in handling a gasoline engine will deter its usage for some time as a general thing. The price of whatever material is used as the explosive will also be a feature to reckon with. I think our young men who are not particularly employed in winter or needed on the farm ought to study engineering and obtain knowledge as practical machinists.

I should prefer for the farmers to hire and control the harvest and threshing hands alltogether. Under present system the farmer and thresher work in opposition to each other in their endeavor to secure their men. The farmer has to put up the board work or no work and it 's not a social affair to some men to sponge board, neither is it just for the farmer to put up board free.

In 1905 some threshers claimed they ought to have 6 cents for shock threshing oats and barley. Some years oats are only 20 or 22 cents a bushel. Supposing this the case, if we take a tenant farmer who pays one-third for rent, say 7 cents on a bushel, and 6 cents for threshing, besides board and his own work many bushels to the acre would it take for the farmer to have margin enough to live? The stack threshing price of 4 cents is also too high. A good man on a flail or "poverty stick" can make fair wages at that price if he works the hours he does on a threshing I think it more satisfactory to have an individual crew. Complex machinery is above its value when

GEO. ARMSTRONG.

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Rabies (Hydrophobia), Madness in Dogs.

In another place reference was made to a mad in order to give a little information on a subject which fortunately rarely crops up, some of the evidences of this disease as it appears in dogs are submitted,

In all cases the transmission of the infective matter any more than two miles or less from their own farms, bearer. Rabies is therefore to be looked upon as an Three or four farmers could keep this outfit running. for the contagium. Roux and Nocard have pointed They could stack some each before commencing as a out the very important fact that two or even three means of having some clear land to work on with a days before the appearance of rabies the saliva

finding their b the threshon to shock above, as it k or handle ot often we emium over still believe, in, but the our present ence in cos crop was I was pernot in love jobs would two months The small owing reass of better out of the during bad

resh with. amount of a is getting so windy have lots r wet time. me in. A ver and I Lack of a gasoline ime as a naterial is to reckon not par-1 the farm wledge as

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RONG.

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matter :ted by nediate as an vehicle pointed 1 three saliva ly virbation. rabid a long sooner ralong recent rabies nerve ervous s best former ent of ks out

most rapidly from direct inoculation into the brain, Dumb madness is distinguished from the furious under one of its coverings (the duramater), and that form chiefly by the absence or very short duration Western Stock Growers' Assoc., Calgary...........

MAY 1, 1907

The period of incubation is longer than in other days. infective diseases, and in dogs amounts on an average from three to six weeks, with a maximum of several four to eight weeks after being bitten by a mad dog; months, and a minimum of only a few days. (Hunt-cats evince madness in two to four weeks; pigs developing, a noted English veterinarian, puts the usual the disease in two to three weeks; sheep three to four period at about twenty-five days.) The virus may weeks. remain for a long time (as we have already said) at the site of the bite and may become absorbed only in small quantities at a time; or it may rapidly and in large quantities penetrate into the body. According to one authority, the younger the animal the shorter is the period of incubation; it will thus be seen how important it is that muzzling regulations should be observed and enforcd in their entirety

The percentage of deaths in mankind is considerably influenced by treatment, Bollinger states that of 100 bitten men only from 8 to 47 become infected. Pasteur puts the percentage at from 16 to 80. The Pasteur treatment is that giving the best results and the sooner it can be had after being bitten the greater the chance of the avoidance of this fearful disease by annum. the person inoculated. The symptoms of this disease in dogs depend on the form such has taken, for as in other domestic animals, it occurs in two forms; namely, furious madness and dumb madness; the former being the more frequent. Pasteur considers that furious madness takes place when the brain is attacked, and also when the virus has been inoculated into the brain; and that dumb madness is manifested when the spinal cord is specially invaded. have been making enquiry into the condition of the The two are consequently only different forms of one lumber trade in Canada has completed its work and and the same disease, and are not different diseases, made its report to Parliament. From the evidence as was held in former times. A furiously rabid dog obtained the committee unanimously agreed and can transmit dumb madness, and vice versa. We reported that there is a combine in connection with must also lay stress upon the fact that there are the retailers' association and also in connection with are becoming accustomed to the vagaries of our many intermediate forms between these two variet- the manufacturers' association. The committee also climate, and also to almost certainty that crops come ies, which often merge into each other so intimately reported that as a result of this the price of lumber good anyway, so are abiding the time. that a distinction is impossible.

SYMPTOMS OF THE DISEASE IN A DOG.

The premonitory stage of the rabies lasts on an as commercial institutions. average from twelve to forty-eight hours, and some times even longer. The preliminary signs consist especially in the altered behavior of the animal, which becomes capricious, sullen, peevish, excited, nervous, irritable, frightened, restless, distrustful, or obstinate. It likes to hide itself, frequently changes its resting place, and often starts up suddenly; or it may become extraordinarily affectionate and confiding. Some dogs suffer from an abnormal itching of the site of the bite, which they gnaw and lick. There is a characteristic perversion of taste which has much similarity with that in pica (licking disease) of cattle. Although at the commencement of the disease the patient has a good and sometimes signs of restlessness the dog evinces a violent desire strong staff of agricultural experts with which Hon. to run away from its home. With this object, a very W. R. Motherwell has surrounded himself in the quiet and domesticated dogs, which have been kept Saskatchewan Department of Agriculture. in confinement, destroy their kennel or break their depart on long journeys, or boldly enter strange houses. ate in the posession of so promising an agriculturist They often cover in a very short time great distances, thirty or forty miles for instance. In some cases they return home. At the same time they are seized by a more or less excessive morbid desire to bite, which may increase to senseless fury and true mania. At first this inclination to bite is only slight, and is may take a longer period to develop.

into the melancholy stage. ster to the very last.

the period of incubation (length of time disease takes of the stage of irritation or mania. Consequently to develop) is proportionate to the distance of the paralysis, especially of the lower jaw, appears comsite (bite) of the inoculation from the brain.

Paralysis, especially of the lower jaw, appears comparatively early. Death takes place in two or three

In cattle and horses the disease appears in from

U.S. Boosts Salaries of Meat Inspectors.

The United States Civil Service Commission Regina Exhibition......July 30, August 2 announces an examination to secure eligibles from which to make certification to fill at least twenty vacancies in the position of veterinary inspector in the Bureau of Animal Industry, Department of Agriculture. The entrance salary of this position has been increased to \$1,400 per annum, promotion to \$1,600 to be made after two years' satisfactory service at \$1,400, and promotion to \$1,800 after satisfactory service for four years at \$1,6000 per

Hitherto the U.S. veterinarian on duty at the abattoirs (packing houses) has been termed a meat

Lumber Dealers Declared in a Combine.

The committee of the Dominion Parliament which in the West is excessive. No recommendations

the Government has acted quickly and wisely in enroute; and on the option market May 792c.; July selecting James Murray, B. S. A., at present Super- 812c., October 827c. a voracious appetite, later on it turns away from its intendent of Fairs and Farmers' Institutes in Saskat-accustomed and even favorite food. The affected chewan. Mr. Murray comes well equipped for the dog is fond of licking cold objects; bites and gnaws work of an experimentalist and investigator. His at whatever comes across its way, and sometimes agricultural education has been of the broadest characswallows foriegn bodies, especially straw, grass, earth, ter. The first twenty years of his life he spent on his stones, pieces of wood, bits of glass, rags, and even home farm at Avening, Simcoe Co., Ont. In 1898 its own feces and urine. Some dogs continually he began his four-year course at the Agricultural smell or lick their sexual organs or those of other College, Guelph, and graduated in 1902 with a most dogs. Even in this stage we may sometimes notice creditable standing. Immediately on graduation light spasms in swallowing, panting, difficulty in he was selected by the Dominion Department of breathing, fever and continued stretching out of Agriculture to assist in the advancement of the pure oropaganda which stipation. The second stage, that of irritation, Later he came to the West as the representative of lasts three or four days and is characterized by the Seed Branch and had charge of the work of attacks of fury, which may continue for some hours, preaching the gospel of seed improvement in the and convulsions with remissions. Among other four Western provinces. In 1906 he joined the

Mr. Murray is essentially a thoroughly practical chain, and dogs that live in the house remain close to farmer, both by instinct and choice, and brings to the door so as to escape, and when they get into the his work at Brandon a happy blending of experience, open they wander about aimlessly, run to and fro, discretion and youthful energy. Manitoba is fortun-

A Mad Dog Scare in Northwestern Manitoba.

Some time ago a dog was reported to have bitten evinced by the dog snapping at inanimate objects, live stock in the vicinity of Oak River, the animals animals or people, and also, in its state of mental bitten dying in every case. The dog was shot, but confusion, at imaginary objects in the air (snapping it is not known whether other dogs were bitten at flies). It is also very irritable. Later on it bites, before it was killed. Later on another outbreak of sometimes blindly, sometimes aggressively, every-rabies was reported a little further north and west, thing that comes in its way, such as human beings, with similar fatal results, and recently Shoal Lake including its own master (especially if he provokes is said to be the scene of another outbreak of rabies, it by puishment), horses, sheep, goats, fowls, and the two forms, dumb and furious, being present particularly dogs and cows. The animals bitten At the present time six townships are under quardie within four to eight weeks, although symptoms antine, in which dogs must be muzzled or tied up; if found at large, they are promptly shot. The Veterin-The altered behavior often takes the form of ary Branch have the matter in charge and are taking increased vivacity and increased friendliness of disposition. This high strong demonstative state human life. It's a pity the scare re dogs was not lasts only about a day or so, and then rapidly changes more widespread, if it would have the effect of ridding the country of mongrels so plentiful in some that are coming in at five cents. Country points in other canine patients, depression is more prom- districts. While the heading might be interpreted also pay five cents and better. Poorer stuff is graded inent than maniacal excitement. They appear dull by some that the alarm was not well founded, we and some is even so goor that it looks as if it might and imbecile, have hallucinations, stare constantly understand on good authority that the many deaths owe the feeder and buyer something. Hogs sell readat one spot, snap at imaginary flies, howl continually, from dog bites, of horses, cattle and swine point con- ily at \$7.75 without culling. Judging by the stock and are perfectly insensible to blows and kicks. In clusively to the presence of rabid dogs in that part coming in the popular hog is a cross between either a few cases well-trained dogs obey commands of their of the country. People will be wise not to take a Tamworth or Yorkshire and a Berkshire. chances, and dispose of wandering curs on sight.

Purebred Cattle Sale, Calgary May 9
Purebred Cattle Sale, BrandonMay 30
Central Alberta Stock Growers' Association
MeetsJune 9
Shorthorn Sale, A. & G. Mutch, Regina Exhibition GroundsJune 26
Calgary ExhibitionJuly 9, 10, 11 and 12
Portage la Prairie Exhibition July 9, 10, and 11
Hackney Sale, Rawlinson Bros., CalgaryJuly
Winnipeg ExhibitionJuly 13 to20

MARKETS

Last week the wheat markets all over America made a continuous advance due to the reports of damage done in the southwest by green bugs and cold weather. During the week May wheat advanced inspector. The official title has been changed to four cents on New York markets and in Winnipeg veterinary inspector.

the advance in cash wheat last Friday was 11 cents, the advance in cash wheat last Friday was 11 cents, the same on May and July, and 21 cents on October. Prices have also advanced in Europe and some good export business has been done.

Navigation is open down the lakes two weeks later than last year and when the washouts on the railways are repaired there should be rather a lively movement

of freight.

The lateness of the season is on every person's mind, but as yet no apprehension is evident. People

Quite a sensation was created last week when are made but it is morally certain that the Govern- the leading Crown counsel in the case against the ment will take steps to put an end to the combines Grain Exchange, R. A. Bonnar, retired from the prosecution. As a consequence Judge Phippen enlarged the case for ten days.

Brandon Farm has New Superintendent.

After being superintendent of the Dominion Superimental Farm at Brandon Man for about a superimental Farm at Brandon M Experimental Farm at Brandon, Man., for about a as much as U. S. markets, and our May wheat was year Prof. Newton Wolverton has resigned, the term almost weak owing to the liquidation of the May of his active services to end on June 1st. next. On option. This would have been otherwise if lake being relieved of duty at Brandon Prof. Wolverton navigation had been open, as then the demand for will go to the Kootenay country to engage in fruit cash wheat for boats would have held the price up better. Prices are I Hard 801c., I Nor. 79c., 2 Nor. In appointing a new superintendent for the farm 76½c., 3 Nor. 74c., and No 4 wheat 71½c., spot or

GRAIN AND PRODUCE (WHOLESALE).

			,	
No. 2 white oats No. 3 Barley No. 1 flax Bran Shorts	36½ 44¾ 25 50			
CHOPPED FEEDS— Barley and oats24	00			
Barley	00			
HAY, per ton (cars on track,				
Winnipeg)12 Loose loads	00	(a) (a)	14 15	
POTATOES, per bu	80			
CREAMERY BUTTER—				
Fancy, fresh made bricks Second grade bricks	32 25	(a) (a)		34 27
DAIRY BUTTER-				
Extra fancy	2 I	(a)		22
Prints, fancy, in small lots Dairy, in tubs	17	(a)		17
Cheese—				
Manitoba	$14\frac{1}{2}$	0		1
Ontario Ontario, twin	15 $15\frac{1}{2}$	(a) (a)		152
Eggs-				
Manitoba fresh gathered, f.o.b. Winnipeg	18	(a)		19
POULTRY (cold storage stock)—				
Spring chickens	153	(a)		16
Spring ducks Fowl	16			
Young turkeys.	0			
Geese	14			

LIVE STOCK.

There is still a good demand for the butchers cattle

Sheep are \$5 to \$6 per cwt. and lambs \$6 to \$6.50.

HOME JOURNAL



Life, Literature and Education

IN THE WORLD OF LITERATURE AND ART.

The Ontario public schools are to be given a new set of readers, and those in use at present are to be recalled.

Luxembourg.

Knox College, Toronto, conferred the degree of doctor of divinity on Rev. Hugh McKay, B.A., missionary to the Indians at Round Lake, Sask.

The President of France has conferred the Cross of the Legion of Honor upon Andrew Carnegie in recognition of the work he has done reject its findings as they see fit. in the interests of Peace. The presentation was made by Baron de Stournelles de Constant at the banquet of the Peace Congress in New York.

At Charlottetown, P. E. I., diamond medals have been given to Capt. John Champion and Capt. Daniel Fraser; watches to Jas. Cahill, William Leavitt, Geo. McBeath, Chas. McNeill, Wm. Smith for rescuing the crew of the schooner of A. J. McKeen, wrecked last November.

in Park Lane is being embellished with 60 tons of Canadian blue marble, about which the Prin-

The story of "Ben Hur" as dramatized has penalties named in the act. just been given on the stage for the 2,500th time in New York City. Beside it has been given people have seen it during the eight years it has

No singer since Adelina Patti was ever so careful of the voice as the little tenor Signor Bonci. He refuses all social invitations, lives only among por Bonci has learned from experience that his duct. In these days in which singers are eagerly ments was brought forward by Russia but was Canadians could afford to buy the press products chasing after every kind of social attention his case is striking.

THE COAL MINERS AND THE ANTI-STRIKE LAW.

Disputes Investigation Act, a bill was brought before this second conference, and now published at regular intervals of not more than into Federal Parliament and has since become law. these have been collected and formed into a pro- one month, to two cents per pound, packets to be This act provides for the constitution of boards gram issued by the Russian Government. A limited in weight to five pounds. In return for of investigation whose duty it is to deal with reduction of armaments, omitted on the ground General undertakes to convey, free of ocean any differences between employee and employer that its discussion led to nothing at the former transit charges, all such journals sent to Canada which cannot be settled without recourse to meeting. But some of the powers are of the opin- by vessels under contract with the Canadian strike or lockout. Until disputes have been ion that a Peace Conference without disarmament. Government. Such an arrangement should make

master acting contrary to the provisions of this subject. Italy, persuaded by Germany, will law is liable to a fine of from a hundred to a likely follow her ally's example, and while France thousand dollars for every day or part of day has a strong peace party, the foreign office is that the lockout exists. The men who go on inclined to side with Russia. Mr. Maurice, the Canadian artist, has two strike (that is, cease work in a body as the result pictures on exhibition in Paris; one at the salon of a common agreement or understanding) shall of the Societé Nationale and the other at the be liable to a fine of from ten to fifty dollars for each day or part of day that the strike continues. Penalties are also imposed on the persons exciting Post Office Department is not a thing of which or encouraging in any way either employers or to be proud so long as there are so many crying employees to violate the provisions of this act. needs in the service which that money ought to by the board and its recommendations have been because postal facilities have limped along so far reported, the parties are at liberty to accept or in the rear of commercial expansion, and com-

are the mine workers of Alberta and British the public. Columbia. They have asked the mine operators Postmaster-General Lemieux has seen the need for fortnightly pay, eight hours a day and a and is endeavoring to bring about improvements. general increase in wages of ten per cent. They The estimates for the coming year call for \$50,000 object to the condition insisted upon by the to be devoted by the Department to the instituoperators that the agreement between the latter tion of free delivery in cities of ten or twelve Frank Skerry, Chas Perry, John McCabe and and the men might be changed if the laws of the thousand whose annual revenue amounts to land imposed new burdens upon the mines or \$10,000. If the revenue reaches the required miners. The two forces have not yet discovered amount and other conditions are favorable, the a basis of agreement, and the men in most of minimum population will not be insisted upon. Sir Ernest Cassel's magnificent marble palace the Western Canadian coal mines have quit Provision has also been made for the liberal work. They maintain, however, that they have increase in salary to postmasters, a step in the cess of Wales is so enthusiastic, and which beau- not violated the new law because they have gone way of reform that will meet with the approval tifies many of her rooms in the Marlborough out as individuals without a general understand- of Canadians in general. ing or direct orders from the union, thus avoiding, New arrangements have been made in our they believe, rendering themselves liable to the postal dealings with Great Britain and the

five hundred times in Philadelphia, a thousand prove adequate to this situation and speedily mailed in the one country and addressed to the in Columbus, Ohio, fifteen hundred at Drury manifest it, for with scarcity of fuel added to other are subject to a rate of four cents a pound Lane Theatre, London, Eng., and two thousand insufficient means of transportation the prospect prepared by stamps. It is a conservative in Chicago. It is calculated that six million of another winter of discomfort and suffering estimate that for every ton of printed matter going from Canada to the United States there are seems imminent.

THE HAGUE CONFERENCE.

his intimate friends and seldom ventures into of the world met at the Hague in response to the the theatre except when he is going to sing, call of the Czar. At that conference three planks Rarely has he been seen in one of the city res- were laid in the platform of the peaceful inter- Canadian post office at domestic rates, in which taurants where his colleagues gather daily. Sig-course of the nations—provision for arbitration case Canada gets the benefit of the revenue voice can be kept in condition only by careful and meditation, the Geneva Convention of 1864, returns. living and a limited amount of singing. He and the rules for the government of maritime therefore follows very strictly his rules of con- warfare. The question of the limitation of armaset aside as involving useless discussion.

Last year under the name of the Industrial in the various capitals as to the matters to be papers, bona fide magazines and trade journals, noticeable omission from this program is the this consideration the Dominion Postmastersubmitted to this board, investigated thoroughly and reported upon, it is an offence for employees as a body to quit work or for employers to close of the peace movement are as a body to quit work or for employers to close of the peace movement are lioundarial quickens his interest in the probability of the peace movement are lioundarial quickens his interest in the probability of the probability of the peace movement are lioundarial quickens his interest in the probability of the peace movement are lioundarial quickens his interest in the probability of the peace movement are lioundarial quickens his interest in the probability of the peace movement are lioundarial quickens his interest in the probability of the peace movement are lioundarial quickens his interest in the probability of the peace movement are lioundarial quickens his interest in the probability of the peace movement are lioundarial quickens his interest in the probability of the peace movement are lioundarial quickens his interest in the probability of the peace movement are lioundarial trade content and the

each have put themselves on record as reserving the liberty of submitting to the second Conference the question of the reduction or limitation of armaments in addition to the items on the prepared program. Russia, Germany and Austria-Hungary are the chief powers endeavoring down on purpose to keep the men out. The to prevent the appearance of this obnoxious

CHANGES IN POSTAL ARRANGEMENTS.

A surplus in the revenues of the Canadian After the disputed points have been investigated relieve. Western Canada has suffered much plaints have come from every direction about the The first to test the strength of the new law inadequacy of the provision made to serve

United States. With the latter an agreement has It is sincerely to be hoped that the law may been made whereby newspapers and periodicals going from Canada to the United States there are twenty tons make the journey across the border into the Dominion, which means that Canada has all the work of distributing and none of the revenue arising from this immense amount of In 1898 the first Peace Conference of the nations literature. As matters stand now the only way for American magazines to avoid paying the new postage is to send the periodicals by freight or

Up to the present time the rate on British newspapers and magazines has been eight cents of the Mother Country. With a desire to The second Peace Conference will meet in the encourage freer intercourse between Great Britain same city this year some time in June. For the and Canada and a wider knowledge each of the past year diplomatic discussions have taken place other, the British Postmaster-General has agreed to reduce the postal rates on registered newsTHE QUIET HOUR

SUORA MARIANNA.

In a convent, old and quiet, near a little country town,

On a chestnut shaded hillside, to the river sloping down,

Dwelt a few of those good sisters who go

much weariness endure;

And the one who did in patience and in

all good works excel

story now I tell.

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ENTS.

heavy task prepared:

herself she never spared.

All unpraised and all unnoticed, bearing burdens not her own,

queen upon her throne! the young wife moped and pined: She was rich, though few would think it; Still her children's love sustained her, for God gave her grace to choose,

wealth one cannot lose.

There are many heap up treasure, but Week on week had hope been waning, it is not every one

when his earthly life is done.

But there came a time—poor sister! when her rosy cheek grew pale, And her eyes, with all their sunlight,

seemed to smile as through a veil; And her step was weak and heavy, as she trod the steep ascent,

Where through weeks of wintry weather

to her loving work she went. T'was a footpath, lone and narrow, winding up among the trees,

the slippery ground would freeze

And the snow fall thick above it, hiding every sign and mark; But she went that way so often, she So they left her, all unaided, in the

could climb it in the dark!

fierce malady assailed, That she made the daily journey, and There was none to share her burden,

she never once had failed. the spring had just begun;

and more strength was in the sun.

with little rest by day,

that helpless woman lay; There the flame of life she cherished,

when it almost ceased to burn,

the husband should return. 'Twas the old and common story, such

as all of us can hear.

If we care to, in the mountains, every day throughout the year!

She who languished, weak and wasting, in the garret chamber there,

Had been once as strong and happy as

boys to serenade:

simple rhymes they made,

to the lilies as they grew,

manner is to do.

with his ancient violin,

contrived her heart to win;

brought her home, a bride,

To his farm and low-built cottage on the

mountain's terraced side. 'Twas a poor, rough home to look at,

and from neighbors far away, But with love and health and music

there was much to make it gay

They were happy, careless people, and

they thought not to complain,

Though the door was cracked and broken, or the roof let in the rain: They could pile the fire with branches,

while the winter storms swept by

beneath the open sky.

changes-sunshine first, and then the

Frost untimely chestnuts blighted. sickness came and debts were made;

Fields were sold, alas, to pay them; yet

their troubles did not cease, And the poor man's heart was troubled

hus to see his land decrease! Fields were gone, and bread was want-

out among the poor,
Who must labor late and early, and
Much he loved them, much he labored— For her soul heard the answer; that
but he could not feed them all voung mother would not die!

So he left them, heavy-hearted, and his fortune went to try

Was the Sister Marianna, she whose In the low Maremma country, where men gain or where they die,

She was ever kind and willing, for each With its soft and treacherous beauty, with its fever-laden air;

No one ever thought to spare her, and But as yet the fever spared him, and

they hoped it yet would spare.
'Twas a long and cruel winter in the home he lett behind; Yet she lived as rich and happy as a Lonely felt the house without him, and

till this sickness laid her low; Not the world's deceitful riches, but the When good Sister Marianna came to

as more feeble still she grew Who will take his treasure with him Marianna tried, but vainly, every simple cure she knew.

Then the doctor gave up hoping, and his long attendance ceased:
"I can do no more," he told her; "you

had better call the priest. To her husband I have written; he will have the news to-day; If he cares again to see her, he had best

be on his way!' Now the priest had done his office; at the open door he stands,

And he says to Marianna: "I can leave her in your hands,-And 'twas hard to trace in winter, when I have other work that calls me: if tonight she chance to die,

You can say the prayers, good Sister, for her soul as well as I.

house forlorn and sad, 'Twas to nurse a poor young mother, by Still to watch and think and labor with what failing strength she had.

none to speak to, none to see Now the short, sharp days were over, and Save a helpful boy of seven, and a restless one of three,

Every morn the light came sooner, And their little dark-eyed sister (she was five and came between), Many nights had she been watching, and And a baby, born that winter, which the

father had not seen For her heart was in the chamber where Two days more! Her friend lay sleeping, and she watched beside the bed

In her arms she rocked the baby, while the Latin prayers she said-Praying God to help and keep them till Prayers to help a soul departing—yet

she never quite despaired Might not yet the Lord have pity, and She can hear the torrent roaring, in the that mother's life be spared?

Twas so hard to see her going—such a mother, kind and dear!

There was ne'er another like her in the

she tried to hold them in,

the head that she caressed, And with glowing words compared her Small and pretty, dark and downy,

lying warm against her breast. that had neither place nor part

Then the man who played at weddings In the grave and stately cadence of the prayers she knew by heart. With his sad, impassioned singing, had Then she spoke, with eyes dilated, with

her soul in every word, And one brilliant April morning he had As to one she saw before her-"Thou First became a drowsy murmur, then

hast been a child, my Lord! as this infant on my knees:

Thou hast stretched towards Thy Mother little helpless hands like these:

then-Oh, listen to my plea,

Thy Mother was to Thee! Think, when all was dark around Thee,

how her love did Thee enfold; How she tended, how she watched Thee; how she wrapped Thee from the cold!

that night of tears and strife, Time had come, and brought its When the cruel guards pursued Thee, when King Herod sought Thy life!

How her arms enclosed and hid Thee, through that midnight journey wild!

the mother of this child!' Now she paused and waited breathless; But her eyes, when first they opened, On that night of storm and trouble, for she seemed to know and feel

lds were gone, and bread was wanteg, for there now were children Then she bowed her head, all trembling; And He seemed no earthly infant, for but a light was in her eye,

young mother would not die! Yes, the prayer of faith had saved her!

And a change began that day: When she woke her breath was easy, and the pain had passed away

So the day that dawned so sadly had a bright and hopeful close, And a solemn, sweet thanksgiving from the sister's heart arose.

Now the night had closed around them, and a lonesome night it seemed! For the sky was black and starless, and

for hours the rain had streamed And the wind and rain together made a wild and mournful din,

As they beat on door and window, madly struggling to come in, Marianna, faint and weary with the strain of many days,

On the broad, stone hearth was kneeling, while she set the fire ablaze, For the poor lone soul she cared for would, ere morning, need to eat. 'Now, God help me,' said the sister,

"this night's labor to complete! Twas a meal she knew would please her, which she lovingly prepared, Of that best and chosen portion from

the convent table spared, Which she brought, as was her habit, with much other needed store.

In the worn old willow basket, standing near her on the floor, On her work was much depending, so

she planned to do her best; And she set the earthen pitcher on the coals as in a nest,

With the embers laid around it; then she thought again, and cast On the pile a few grey ashes, that it might not boil too fast.

But the touch of sleep was on her, she was dreaming while she planned,

Then she roused her, struggling bravely with this languor, which she viewed As a snare, a sore temptation, to be

fought with and subdued. But another fear assailed her-what if she should faint or fall? And to-night the storm-swept cottage

seems so far away from all! How the fitful wind is moaning! And between the gusts that blow,

deep ravine below. And her head is aching strangely, as it Now his limbs began to tremble, and he

She had been a country beauty, for the But her tears kept rising, rising, though see the morning light!

Only keep my eyes from closing till they one step more, his feet had gained it, see the morning light!

> weak and helpless lie, And with only me to serve them—if I leave them, they may die!

Twas in vain; for sleep had conquered, and the words she tried to say

grew faint and died away.

Thou hast lain as small and speechless And she slept as sleep the weary, heedless how the night went on,

With her pitcher all untended, with her labor all undone; Thou hast known the wants of children, On the wall her head reclining, in the

chimney's empty space, For one moment, Lord, remember what While the firelight flared and flickered Or a bird among the branches tried a on her pale and peaceful face. Was her humble prayer unanswered?

Oh, the Lord has many a way That His children little think of, to send She was leaving joy behind her in that

For the rest, their life was mostly out How her gentle heart was beating, on It was long she sat there sleeping -do you think her work was spoiled? No, the fire-wood kept burning, and For the father at his coming had brought

nor one precious drop been spilt; Oh, for love of Thine own Mother, save When she moved and looked around her, When her mortal eyes were opened, and

with a sudden sense of guilt. saw a vision, strange and sweet, That the Lord was there, and listened to For a little Child was standing on the

His robe was like the snow,

And a glory shone around Him that was not the firelight glow. And Himself her work was doing! For

He kept the fire alive, And He watched the earthen pitcher, that no danger might arrive

To the simple meal, now ready, with the coals around it piled; Then He turned His face toward her,

and she knew the Holy Child. 'Twas her Lord who stood before her! And she did not shrink or start-

There was more of joy than wonder in her all-believing heart. When her willing hands were weary,

when her patient eyes were closed, He had finished all she failed in, He had watched while she reposed Do you ask of His appearance? Human

words are weak and cold;

'Tis enough to say she knew Him-that is all she ever told. Yes, as you and I will know Him when

that happy day shall come, When, if we on earth have loved Him, He will bid us welcome home! But with that one look he left her, and

the vision all had passed, (Though the peace it left within her to her dying hour would last!) Storm had ceased, and wind was silent,

there was no more sound of rain, And the morning star was shining through the broken window pane, Later, when the sun was rising, Mari-

anna looked to see, O'er the stretch of rain-washed country, what the day was like to be, While the door she softly opened, letting

in the morning breeze, As it shook the drops by thousands from the wet and shining trees.

And she saw the sky like crystal, for the clouds had rolled away Though they lay along the valleys, in their folds of misty grey,

Or to mountain sides were clinging, tattered relics of the storm. And among the trees below her she could see a moving form;

'Twas the husband home returning, yes, And the wooden spoon kept falling from There was no one else would hasten up that mountain road so fast.

Now the drooping boughs concealed him, now he came in sight again; All night long had he been walking in the darkness, in the rain;

Through the miles of ghostly forest, through the villages asleep, He had borne his burden bravely, till he reached that hillside steep: And as yet he seemed not weary, for his

springing step was light, But his face looked worn and haggard with the anguish of the night.

'Good Lord, help me!'' she is saying: For he saw his home before him, should country far or near!

(So thought Sister Marianna.) Yet to O my blessed Lord and Master, only help me through the night—

help me through the night—

he neared the wished-for place!

boys to serenade; She tried to hold them in, And the poets sang about her, in the Till one fell and lay there shining, on Weak and helpless lie. "God has helped us!" was her answer they were standing face to face. to the question in his eye;

And her smile of comfort told him that Or to stars, or budding roses, as their She was silent; something moved her touch may turn the scale.

She is better—yes, I know it, but a It was morning now, fair morning! and

I can send for help to-morrow, but toThrough the boughs that crossed above the broken sunlight fell her, where the buds began to swell, As adown the sloping pathway, that her

feet so oft had pressed, Went the Sister Marianna to her convent home to rest. It was spring that breathed around her, for the winter strove no more,

And the snowdrifts all had vanished with the rain the night before. Now a bee would flit beside her, as she

few low notes of song. But her heart had music sweeter than

home of many tears Hope was there, and health returning;

Ne'er a taint of smoke had touched it, And she knew with Whom she left them, for herself His care had proved,

she saw the Face she loved,

when to help her He had come As He helped His own dear Mother in their humble earthly some. FRANCESCA ALEXANDER.

*NAMELESS" METHOD OF BREAD MAKING.

Dear Dame Durden:-Immediately upon receipt of your letter I sent the articles promised to the address you gave. The parcel did not contain quite what I said it would, because the mice had found it between the time of my writing and yours, and had quite ruined one or two things. Those mice make me more work than my money does.

'An Alberta Reader' asks about the temperature for setting bread. I have the yeast and water at a temperature of ninety degrees in the winter and take the chill off the flour. In summer I have it cooler or it might sour. use the following recipe for yeast and find it excellent, especially in winter, as a freezing doesn't hurt it. In summer it should be kept cool, which is beyond me, for I have no cellar, so I make only a third or a quarter the

Yeast; nine large or twelve medium potatoes, boiled and run through a ricer or mashed finely; 11 large spoonfuls of flour; ½ cup brown sugar; ½ teaspoon ginger; tablespoon salt; 3 yeast cakes; 3 quarts water from 80 to 90 degrees according to the season. Set yeast cakes to soak for 15 minutes in part of the water; mix the dry ingredients thoroughly, preferably while the potatoes are hot, and when sufficiently cooled add yeast cakes and water; stir well and set in a warm place to rise for 12 hours, when it is ready to use. To make the bread, take six or seven quarts of flour (unless the flour is exceptionally fine and dry you will need seven) with the chill taken off, one quart of yeast and two quarts of water. Mix up well in the morning and you should have one ovenful baked inside of four or five hours. If I have more than one ovenful I only mix or knead it once before putting in the pans, as the last is likely to be too light and wanting in that element of sweetness that distinguishes good bread from bread. That suggestion re using a candy pail for bread-bowl was timely for me. A pail is so convenient in size and shape and so cheap. am grateful to the one who suggested

I am writing with a baby on my knee and another at my elbow, so I trust you will excuse the writing. Nameless.

(Thank you very much for so promptly sending the parcel. What a pest the mice are, and so hard to discourage. I have heard that they dislike pepperment; and carbolic acid smeared round the holes by which they enter will drive then away, but the latter is so dangerous to have about the house, where there are children, that it is better to try other methods first D. D.)

A HAPPY HOME.

Dear Dame Durden:-I trust you will admit another member from the Old Country to your Ingle Nook. I have not yet been in your country a twelvemonth, but I must tell you I think Canadians are a very kind-hearted people. I feel quite at home amongst all my neighbors, who, one and all, have made me welcome from the beginning. I came out to my sweetheart, who had been out four or five years. We were married on my arrival and I am pleased to tell we are perfectly happy in our little home. You will laugh, no doubt, but through this winter I have often wished our parents, brother and sisters could just get a glimpse of us. We have quite a distance to go to of sugar; add a cup of molasses, one A plain deal table, some chairs (includ-please do not call me an intruder. We church, and the drive there in the teaspoonful of cinnamon, one-half ing a low rocker), and a home-made do not take your paper, but a next door early part of the winter was quite a teaspoonful of salt and a quarter-tea- cupboard will furnish this out-door neighbor takes it, and as they cannot spoonful of ginger. Mix well and add room sufficiently unless there is room read it I run over and get it as soon zard our horses seemed sometimes to a cup of boiling water in which a heap- for a hammock or an easy old cot or as it comes. For I love to read it: get half buried in the snow. It seemed ing teaspoonful of baking soda has couch fitted up with a few cushions, it makes me look on the bright side of useless to try to pick a good road anybeen dissolved. Lastly, stir in three A shelf fitted to the outside of the everything. There is so much help where. I had never ridden in a cutter cups of flour. Bake for three-quarters kitchen window is a convenience; dishes in it to myself and husband that I before and thought it very fine, and of an hour in a large pan. such a pretty sight on coming out of church to see so many cutters and sleighs all going in different directions. But the winter has nearly left us now. and it is nice to feel spring is almost here, which again reminds us we be up and doing. Now, I am s by this time you will think I have not written to you for nothing. I was

Ingle Nook Chats

through your columns a recipe for a good gingerbread? I found a very good soft gingerbread in your columns a HOME. little while ago, which I thought very nice, but my husband says he likes a success. I will enclose a recipe for by hearsay. The washing and ironing Irish lace.

Vanilla Biscuits.—Whites of 3 eggs and scrubbing and baking and sweeping There are so many topics I would whipped to a stiff froth; add 4 ozs. and sewing and a hundred other things love to talk over, but will only touch These are very nice and very dainty-

May I ask some kind friend to give pan in a moderate oven.—D. D.) and enjoyment.

the afternoon, and taken back in again before the dew falls. The baby will enjoy his nap, the children study their lessons, and the head of the house read nearly sending you a recipe for lemon tablespoon ginger, half a teaspoon within the solid walls. And inside, cheese, which I see you have found, each of cinnamon and cloves. Stir things are kept clean and neat with very but I thought as so many things go the dry ingredients gradually into the little effort, almost the only work being under different pages here that it liquid and add not seen that the head of the nouse read his paper, all more enjoyably than within the solid walls. And inside, the seen that the head of the nouse read his paper, all more enjoyably than within the solid walls. And inside, the seen that the head of the nouse read his paper, all more enjoyably than within the solid walls. And inside, the seen that the head of the nouse read his paper, all more enjoyably than within the solid walls. And inside, the seen that the head of the nouse read his paper, all more enjoyably than the seen that the head of the nouse read his paper, all more enjoyably than the nouse read his paper, all more enjoyably than the nouse read his paper, all more enjoyably than the nouse read his paper, all more enjoyably than the nouse read his paper, all more enjoyably than the nouse read his paper, all more enjoyably than the nouse read his paper, all more enjoyably than the nouse read his paper, all more enjoyably than the nouse read his paper, all more enjoyably than the nouse read his paper, all more enjoyably than the nouse read his paper, all more enjoyably than the nouse read his paper. under different names here that it liquid, and add more flour if necessary in the bedrooms. A verandah pays, as might mean something totally different. to make a stiff dough. Bake in a bread a garden pays, in comfort and health TEACH THE GIRLS AT HOME. Dear Dame Durden:-I have been The praises of country air have been wishing for some time to join your

easily done, and the ironing as well if

the stove is not too far away. The

sewing-machine can be brought out for

good "solid-eating" one. I don't know sung for ages, and its sweet, wholesome, Nook and now will muster up courage what he would say if he knew I sent healthgiving properties have not been as I would like to get "Irish Girl's" you his own words. I find the ADVO- over-rated in the least. The farmer address. I think if her work is satis-CATE (I should say we) a very useful knows of it by actual experience, but factory, it would be nice to have a guide, and wish it in future every too many farmers' wives know of it only tew doylies and center pieces of real

castor or granulated sugar; I teaspoon make it almost an impossibility for her upon the article in Mar. 27th issue of baking powder; a teaspoon vanilla or orange flower water. Put the mix-ture out in teaspoonfuls on to a papered sheet; bake in a cool oven until hard.

These orange flower water across the property of the pr The only remedy is to carry the it seems hard to teach others how to looking, and are improved by whipping work out into the air. You can't do make every thing "just up to the some cream and putting between two. that, perhaps, with sweeping and scrub-mark;" but a great deal can be done by teaching the girls at home, and not by mother doing it all, for fear of something being spoiled. Just let them try their luck. "Practice makes perfect," and then there are so many helpful hints in "Ingle Nook" that one who is observing and wishes to learn cannot help being benefited by having a chat now and again. I will send you the recipe for a pudding we had for dinner to-day, which we think very good:—One cup brown sugar; ½ cup black strap syrup; 2 eggs; ½ cup lard; ½ cups buttermilk; 1 teaspoon soda; i teaspoon salt; 2 teaspoons ginger; flour to make a thick batter. Steam 2 hours and eat with whipped

(I hope to be able to send you "Irish Girl's" address in a few days and hope your correspondence will be enjoyable.



Just as sure as a letter comes in with only a portion of the address, along comes a request from some member to correspond with the writer of that incomplete letter, and then at least two weeks must elapse, and often three or four, before communication can be established between the two. For example, "Puss" writes to say that she thinks she would like some lace made by "Irish Girl" and would Dame Durden please furnish address." Delighted, I'm sure, if it were possible but I've got only part of it. Will Irish Girl kindly write me as soon as possible and supply the deficiency. "Louie," "Aberdeen," "Canadian Song Sparrow", "E. G. R." "Merrie England", "S. F. M. C.", "Gold Elsie" and "Oba-San" would also be conferring a favor if they would send full name and address to the Ingle Nook. These are never published and never given, even to other members, if the wish that they shall not be is expressed, but to have them at hand is very often a great convenience

DAME DURDEN.

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Don't attempt these as I did bing, but the rest can be accomplished first, when you will want the oven by having a vera dah at the back door. badly for something else before they A necessity in its construction is a are done.

A SOMERSET LASS. Here are two ways of making ginger-

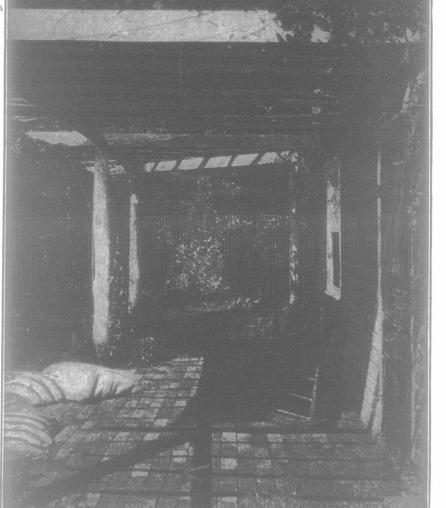
GINGERBREAD,

the mixing bowl .. 2 level teaspoons door ed and beaten

rain-tight roof and a floor that does not imperil the safety of one's limbs; beyond and saves much time. those two requirements, it can be as Here are two ways of making ginger-bread, which may please that good bushand of yours.

The supports may be of A SISTER FROM ACROSS THE SEA. poles, and vines trained on wires round at least half of the space will provide Cream a cup of butter with a half-cup a shady corner when shade is desired. and small articles can be passed through have been coaxing him to get the paper

Dear Dame Durden: - 1 am 11 selved even as Buster Brown, to come in, sa 2. A cup of a lasses is placed in instead of being carried round by the for ourselves, but I do not know if I shall succeed for we are Finlanders. It is surprising how many kinds of They are a hard working people, the aking soda are level and beaten croughly into the aclasses. Take housework can be carried on there just fins, but do not care much for readassethird cup of beiling water; and the butter is welted pour it into molasses. Sift together three the house, even if the service is not so of flour, half a teaspoon salt, a claborate. The washing can be more os it is not much, and I ask you not to



A Home-made Verandah with Possibilities for Summer Use.

ng as well if away. The ught out for ack in again e baby will study their e house read yably than And inside, at with very work being lah pays, as and health

HOME.

have been join your up courage ish Girl's ork is satisto have a ces of real

es I would only touch th issue of written by Recipes. ırden says, cooks, and rs how to up to the n be done e, and not ar of somelet them ce makes so many ook" that wishes to nefited by in. I will udding we we think vn sugar; ggs; 4 cup leaspoon teaspoons ck batter. whipped Puss.

DRESS.

70u "Irish

and hope

enjoyable.

comes in address. om some he writer 1 then at and often unication the two. to sav ike some ad would nish the ire, if it only part write me pply the erdeen,"
'. G. R." M. C. would ey would to the er memshall not

RDEN

them at

venience

IE SEA.

ne in, so er. We ext door cannot as soon read it: side of ch help that I ne paper now if I landers. ple, the or readead or or father I have ie says,

1 not to

laugh at my ignorance. The Ingle Nook looked so inviting that I couldn't help it—I had to write. Now, if any of you would care for Fin recipes I have some. They would be new to vou all, as they are Fin and they have fine names. May I ask, if it is not too much, if any one of you know what is good for chapped hands and face? Oh dear, I shall have to close for this time, for my courage is ebbing for fear thrown in the waste basket.

FINLANDER doing either of these things, for, indeed, in both writing and composition your English people, who have spoken our a fair education. Don't stay away get some help from the other depart-

chapped hands and face. (1) Two men folks were fain to flee to some disounces of pure glycerine mixed with tant shore where the inhabitants were the juice of one lemon to which is added six drops of carbolic acid. This suits out of doors. Thanks be, we have some skins but others find it too strong. (2) One ounce pure glycerine, one ounce oil of sweet almonds and two perhaps the first intimation of the dread ourselves. ounces of melted leaf tallow, from a season given to the men of the house lamb, and strain the tallow; add to it the glycerine and oil, beating the three together until almost cold. Put it in dishes that can be covered. Rub well into the skin at night after washing in warm soft water. It is well to keep on hand a bottle of witch hazel to rub on the hands immediately after washing dishes or other work where the hands have to be in water.

We shall be very glad to have your Fin recipes, and hope you will not forget to send them. (D. D.)

ANIMAL CHARACTERISTICS.

Farmers find many curious things happening around them every day which they cannot understand, and nobody, even the scientists, can explain for them. Why, for instance, does a horse strain a drink of water through its lips? Why does a cow poke her entire face into the bran mash, eat all she can, then lick her nostrils with her tongue? Why does the chicken drink exactly opposite to the horse and cow, having to hold its head up when it swallows a drink of water? Then note the pigeon, of the same feathered family, as it keeps its bill immersed while drinking. But a dog laps the water in its mouth. This animal, moreover, never chews its food, while the cat, his companion household pet, always chews thoroughly swallowing. How ailing to masticate does not hurt a dog while in case of all other animals, including man, unchewed food causes dyspepsia. Why has a cow a cud and why can a horse shiver its hide to drive we feel the house-cleaning fever throb- room look as though there were a away flies? These questions and many bing through our veins, we just let our woman about the place. more like them that might be asked extra force expend itself in setting to The home my husband took me to will show us that we are far from rights the bureau drawers, trunks and was just such a house. No nice white You'll find that they'll do very well knowing it all.—Live Stock World.

THE DANGERS OF CAT DIPHTHERIA

As illustrative of the grave danger what of cats suffering from diphtheria transmitting the disease to other felines and room at a time and unless we have not long before I had one room, studto human beings who fondle the sick lots of help, no more than one room a ding and all, shingled with the papers. pet, the story was published in the New day. By taking things coolly we save This made the place brighter and cleaner York papers on March 1st of a stray strength and temper, and do not neg- looking anyway, and as I had left the cat, befriended by little Annie, daugh- lect the children or meals. Then too papers folded they served a double ter of H. A. Yale, Patchogue, L. I., we have gotten rid of all or nearly all purpose, keeping out considerable that returned evil for good by causing the carpets, that would have tried the cold. The following spring I bought the death of its benefactress. The patience of Job himself if he had strive enough cheap cotton, the cheapest I germ has been traced to the cat. The —that on the stairs. Rugs are so fully, so as not to have the least little account states that this is the second much cleaner, prettier and cheaper. wrinkle in it. It is a wise plan to tack occasion on which a cat has spread Where it is desirable to take up an old the cotton at the top all around the death in Patchogue. A Mrs. Gordon carpet and replace it with a rug, the room, then pull it down well at the and her four children, some four years floor underneath may not be hard- bottom, tacking at each studding. ago, died under similar circumstances. wood, but that does not matter so long The ceiling was done in the same way Then it was definitely known that the as it is even and well matched. cat was responsible; and it was examined after the deaths and found to be fill the cracks with putty and let it and everything in the room seemed suffering from black diphtheria.

MISTAKE IN RECIPE.

In the recipe for muffins sent by "Nor experiment.—D. D.)

THE FARMER'S ADVOCATE

SPRING HOUSE CLEANING.

Now that the bright, warm spring days have come, the house cleaning germs are beginning to run riot in the veins of the most of womenkind. all profess to loathe the thought of this annual extra work imposed upon us, yet, if the innermost secrets of the feminine mind were known, it would be found that we really yearn for the that this note will be laughed at and season of step-ladders, endless rags, mops and the smell of paint. But although we still cling to the old cus-(Laugh at you? Call you an intruder? tom that calls for a tremendous yearly There is not the least danger of our upheaval of household possessions, we do not follow the old plan of turning everything upside down and inside out letter is the equal of many written by at the same time. So far is the modern method removed from that in vogue tongue all their lives and have had when mankind, coming home, was ply of washing powder. liable to trip over a pail of water and from us, since you say you enjoy our a lot of bric-a-brac put in some unaccosy corner. Your husband with you customed place; and then when he you will likely have a streaked effect, to read and translate for him, should sneaked down the back steps from the scene of disaster, he was very likely proving satisfactory. to upset a pail of water—and himself at Here are two preparations for your the same time. The poor helpless learned an equally effectual and far everything spick and span, we may less troublesome method, so that now, view our work with pleasure and enjoy less troublesome method, so that now, s the news that the house cleaning in frame houses that are not finished s finished.

they had been taken out and washed well matched. with great labor in a tub.

loud design gets very wearisome. upon the floor, and I could view my With a plain paper one can never go work with satisfaction and pleasure. much astray, providing the color harmonizes with the room.

Spring scrubbing should be particularly thorough, with one of the newfangled mop brushes and plenty of

large space at one time. If you do, mer hats in the fall.-Millinery Edict. anything but pleasing to the eyes or A few potatoes on the brim,

Now that the year's accumulation Will put the wearer in the swim, of rising smoke and microbes has been effaced, it will only be a few hours' work with the new varnishes to brighten up Some early lettuce torn to shreds every bit of wood-work and furniture. With clean curtains, and bedding,

So many on the prairie are living Perhaps someone so living

until the mixture becomes like soft ings (I did not have paint), the walls putty. Press this into the cracks with were ready to have the paper applied. a knife, while warm. The windows I invested in wall paper having a neat are washed and rubbed with kerosene, pattern, and hung it very carefully wiped, and look as well as though so as to have it without a wrinkle, and The change in the with great labor in a tub.

If you are going to have new wallpapers, choose them carefully. Rememand blinds on the windows, a few good ber that you have to live with a wall- pictures on the wall and four large paper all day and every day, and a mats, hooked during the winter, placed

THE MILLINERY MENU.

Summer bonnets are to be trimmed warm water containing a goodly sup- with small fruits; flowers will appear in the fall designs. This is done to In cleaning wood-work do not take a prevent women from wearing the sum-

> Arranged in some artistic plan, But only through the month of Jan.

> And woven in a dainty web. Will nod upon the stylish heads That know what is the mode for Feb.

Young onions of the palest green, Arranged to form a swaying arch Of tossing tops, will soon be seen As quite the only thing for March.

Strawberries with a net of lace That simulates the light whipped cream, Will form a finish for the face

That April styles will cause to gleam. A bunch of cherries and green peas, And little apples, too, will sway Upon the bonnets that will please

The fashionable folk in May. A wreath of roses—bear in mind That they must not come in too'soon You're out of style if we should find

You wearing them preceding June The morning glory hat will be
The idol of each woman's eye,
When, garnished with skyrockets, she

The poppy hat-now, do not let Your recollection slip a cog, To be in fashion, don't forget You must wear poppy hats in Aug.

Will see it flourish in July.

The golden wheat and rye, through which

The zephyrs of summer crept, Will make a bonnet rare and rich And rule the thirty days of Sept:

If you should wear crysanthemums, Your friends would be extremely shocked Upon the fashion stage in Oct.

A turkey wing and pumpkin shell Are millinery's treasure trove-To show you're up-to-date in Nov.

Of tinsel balls and candle grease, Will make a hat that represents, The nobbiest design of Dec -Chicago Tribune

TRUE BEAUTY.

What matter, though enshrined in plainest casket If a pure gem within that casket lies?

What matter, though a face is plain and homely If a pure soul is shining from the eves?

We never give a thought unto the casket. If but within the gem is pure and

fair: We never gaze as critics on the features

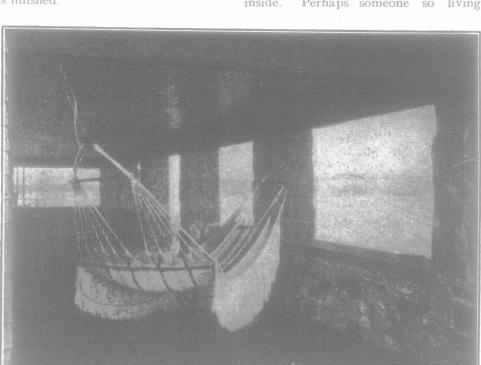
Of those we love, if the true heart is there

est setting.

If but the life with deeds of love abound;

We care not for the earthly fading beauty

If but God's image in the heart is found. -ELLEN LING.



ERANDAH WHICH CAN BE USED AS A LIVING OR SLEEPING ROOM IN SUMMER.

The reason?

boxes. As likely as not the next day walls, like we had been used to.

harden. Paint or stain the floor. It to have improved in beauty. the rug covers the rest of the floor.

this boils, stir in strips of newspaper wall finish to the mop board and cas-

may be at a loss to know how to go Should you forget that bonnet comes When the first warm days come and about making the walls of even one

will be cold and stormy and the "house-thought of a number of ways to "fix cleaning fever" will have abated some- up," but all the material on hand of A Christmas tree, with ornaments any use consisted of two boxes of tacks Then we do not clean more than one and plenty of newspapers, and it was child, who frequently caressed the cat, to beat and re-lay them. Only one could buy (after sewing it in strips) to soon contracted diphtheria, and the carpet in the house should be a fixture cover the walls and tacked it very carebut I had to have a little help from one Clean the floor thoroughly and then of the men. I was very well satisfied need be done only round the edges as next spring I nailed a narrow board at We grieve not thoughthe gem has plainthe top of the wall, a wider one at the Another way, which is cheaper and bottom and another just where the and appearing in the Ingle is so easily made and applied that chair backs and the table touched the ok of April 3rd, it should read "one unsightly floors really have no excuse wall. This was done all around the room. a generous pint of milk" instead for remaining so, is to stir one pound of Then I got narrow pieces of board pint. I hope this correction comes flour and a tablespoon of alum into and nailed them for casing round the time to prevent the failure of any three quarts of water and as soon as door and windows and applying arti

TIBLE OXJIM ILUJ



Are You The Man?

For an Ideal Home in the glorious KOOTENAY FRUIT LAND

Have you been dreaming of a home in an environment where you could live by the way as you journey through life? Let your dream come true.

The Opportunity

The famous Cold Spring Ranch, the most extensive improved property in the Kootenay, is now being subdivided. It is on far-famed Kootenay Lake, eighteen miles from Nelson, the capital of the Kootenay, on a Canadian Pacific transcontinental route; rail and water transportation at the door. Wild land, cleared land, orchard land from which to choose. Any size lot from three acres up. Abundance of water—springs and running streams. Prices from \$10.00 to \$300.00 per acre. Easy terms. Orchards will net \$200 to \$500 an acre within three years. No worry from coal strikes—unlimited supply of wood. A big income from vegetables and berries while the orchards are growing. Poultry, too—eggs 75c. a dozen in Nelson.

Place for a Colony Cold Spring Ranch makes a splendid location for a colony or neighborhood group. The ranch home is the most comfortable, convenient and modern farm home in the Kootenays. Piped with spring water, good plumbing, large rooms,

wide verandas. It has a sightly location overlooking Kootenay Lake Trains stop at the gate and steam-boats land right in front of the house. Large greenhouses. Plenty of water for forcing vegetables. A group of friends or associates,

religious or otherwise, would find this property ideal for a home. **Ideal Climate**

is claimed for the Kootenay country of British Columbia. Just winter enough for a tonic and to give quality to fruit. Just altitude enough to escape excessive moisture. Warm summer days, cool nights. No blizzards, no mosquitos, no sandstorms, no cyclones or terrifying thunder storms. Grand mountain lake scenery. Freedom from fruit pests. Irrigation unnecessary.

Finest Temperate Zone Fruits Apples, pears, peaches, cherries, prunes, plums, strawberries, raspberries, gooseberries of this district unrivalled. First place in competi-

tion with all the British Empire. Best Fruit Market in the World Stiff duty on U.S. fruit, rigid inspection of importations, and an area to supply of a million square miles that cannot raise fruit and into which 300,000 people are going annually. High prices, quick sales. Excellent transportation facilities. Very limited area for good fruit land. Big demand, small supply.

Act Quickly

Choose your piece and "get busy" at once. Don't put off the day of your happiness or lose the first se: lection of the famous Cold Spring

At present all applications for a subdivision of this preperty will be received subject to preference for applicants for the farm house piece and their friends and associates. If you and your neighbors are thinking of a new money-making location in a mild climate with grand and beautiful natural surremainted to the form of the present ings, write at once for particulars.

HANSEL, LANGAN, KNAPPEN CO.

35 Aikins Building, Winnipeg, Manitoba

CHILDREN'S CORNER

ANOTHER HUNTER.

Dear Cousin Dorothy:-I am a Tankee boy ten years old. I went from Indiana seven years ago to North Da-kota. Four years ago I came to Manitoba. We live on a farm seven miles from Cartwright. We keep horses, cattle, hogs, chickens, ducks and turkeys. mink and weasel for \$1.50.

Wood and oil were very scarce here. We had but little wood and no oil at all. We burnt candles. We got the last candles in town and when the candles are gone I guess we shall have to sit in the fire. In Dakota we burnt straw for day and am in the second reader.

this spring, and a calf that will be a year old next April.

KATHRYN P. McINNES. Alberta Co., Alta.

FIVE OXEN.

Dear Cousin Dorothy:-I should I have four brothers whose names are like to join the Children's Page. This Fred, Louie, Niron, and Ernest, the is my first letter, and I thought I baby. He is three years old and can would tell you about our things. We speak quite a few pieces. I and my have twenty-six cattle, and five of two eldest brothers go to school. There them are oxen. Their names are, is no school now but it will start in about Tom, Jerry, Joko, Samson and Duke. two weeks. We caught seven musk- We have thirteen pigs, nine cats, and rats, a mink and two weasels. We sold fifty chickens. Oh yes, and my sister the muskrats for 15 cents each and the and I played on a large drift in front of our house last winter.

STELLA WEBER. (10)

PLOWING BY STEAM.

dark. We could have burnt straw to Dear Cousin Dorothy:- I am nine keep us warm. It makes a very hot years old. I am going to school every two months once and our meals were live on a farm. We have six horses as good as they ever were. It makes and ten head of cattle. My father quite a lot of clean ashes but you keep and brothers own a big wheat farm good and warm. I got a nice big book six miles from Fielding. They run a or Christmas. It has 400 pages. We threshing machine in the fall and plow

SHAWATTAN FALLS, NEAR PRINCE RUPERT, B. C.

have the telephone. There are ten on in the summer with the engine. very well.

Mamma is reading us a book about the the cousins beat that? Coral Islands. It is about three boys. very nice one Pana is making a pig rack. We sold five hogs this year and we killed three and one beef for our own use. I will close my letter by sending a puzzle. Why is a colt like an egg? Ans.—Because it is of little use before it is broken.

GUY THOMPSON. Souris Co., Man.

TAKES MUSIC LESSONS.

Dear Cousin Dorothy:-We came to Leavings, Alberta, a year ago last fall, from Edgeley, North Dakota. I should like to know the town in North Dakota where Ruth M. Benson came from. She might have been somewhere near me. have a piano and take music lessons. My teacher is going to have all her pupils LEARNING ANOTHER LANGUAGE. play a piece sometime this month and piece I am going to play is called

dog, and about one hundred hens, eve a colt that will be two years old Smatheona Co., Alica,

our line. I like this part of the country have a pet cat twelve years old; he weighs fourteen pounds. Can any of AUSTIN H. SMYTHE.

SEVEN SISTERS.

Dear Cousin Dorothy:- I should like to join your circle of letter writers. have seven sisters. Their names are Marion, Jessie, Ethel, Ruby, Kathleen, Isabella, Gladys, and a brother in V.ctoria, B. C. We have a farm. I have a lot of pets—five pigeons named (Your letter is very interesting, but your spelling and writing were not the very best.—C. D.)

Have a lot of pets—live pigeons fiamed Peter, Lulu, Billy, Jack and Jill and two cats. Tib and Flip. We have a piano and all my sisters play it; also piano and all my sisters play it; also Dad and Mother. I had several nice lit le presents at Christmas and a Buddy Tucker Book. Do any of your little readers know this old fashioned riddle: Four stiff standers, four down hangers two hookers, two lookers, and a whisk about? Hoping this will amuse you WINIFRED NEATE (12).

Assiniboia Co., Man.

Dear Cousin Dorothy:-My father invite their parents. My teacher's has taken the FARMER'S ADVOCATE for name is Miss H—. I like her fine. The about two years and likes it very well about two years and likes it very well. Diece I am going to play is called "Dorothy."

My brother and I go two miles to school. We did not go much this winter because it was so cold and there was so much snow. I am in the fourth reader and my studies are an in the fourth reader cography, drawing, history, agriculture spelling, composition, writing and physiology. I was twelve years old on the senty-ninth of December. We have the composition of fuel. We have other sizes, and our sew catalogue will tell you all about them, and it was under the weathen advantage of our extremely low prices.

Our new Stove Catalogue tells what you want to know. It tells you how to save \$5.00 to \$40.00 in every purchase; it tells you where you can seven only birthday was on the 20th of February. I was twelve years old. I would like to see Cousin Dorothy's picture in the fourth of the control of I like reading the Children's Corner.

OUR NEW OFFER

Wonderful Reduction in Prices. We offer the best Stoves and Ranges at about half the price others ask. Thousands are taking advantage of our extremely low prices. Manufacturers and dealers everywhere wonder how we are able to make these phenomenally by low prices and furnish the highest grade Stoves and Ranges.



\$9.50 Cook. It has a heavy steel body, heavy top, covers and centers, an ex-cellent fire box. Burns coal or wood. Has four 8-in. lids. A perfect steel cook that will stand hard ser-vice and give vice and give

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It is, large top shelf with trimmings handsomely ackeled, furnished with reservoir at a small extra charge. Illustrated in our new Stove latalogue and details given. Write for our ew Catalogue—it's free.



coal or new construction, will give better rebetter re-sults with ire. Large sults with salf the fuel the old cast stoves require. Large bouch feed. Heavy fire-box. Thoroughly upodate in every respect, and a marvel at the rice. Handsome nickel panels and open shelf this price means a saving of at least \$10.00. Can be furnished with reservoir at a slight additional charge. Our new Stove Catalogue will explain everything in detail. It will tell you of our wonderful stove offers. Show you where ou can save \$5.00 to \$40.00 on every purchase

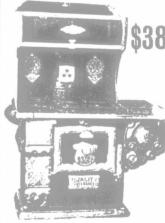
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in. oven. It burns

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cull size \$16.95
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buysthe Royal Wingold Steel Range, our latest production. Handsomest Range made. Beautifu blue polished steel, hand-some large, high closet, enamel reser voir, pouch icent trimmings, handsomely nic-

9 in. and two
9 in. lids, large 18 in. oven, burns wood or coal.
1 perfect baker, and most economical in the con2 umption of fuel. We have other sizes, and our

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receive your order within the next ten days.

Y doing so you take absolutely no risk for we sell it on the distinct

cessive rain we will take back the twine and refund the purchase money. And should the twine, which we know to be the best grade of 550 foot

twine offered for sale in Western Canada, be unsatisfactory for any

Our prices are 117c. per pound at Winnipeg, 12c. at Brandon,

12½c. at Regina and 12½c. at Calgary. To these prices must be added

the local freight rates, from any one of these points to the point to

The most economical way to buy twine is in car lots. You can get it

laid down anywhere in Manitoba for 12c., which is an exceedingly low

price for this grade of twine. Have your neighbors combine with you, and send your orders all together, and even if you have not a full car,

send them to us, for it is quite possible that we have other orders for

your station that will make up the car lot. If not, we will see that you

get the twine in the cheapest way possible. Trusting that we may

We beg to remain, Yours very truly,

T. EATON CO.

WINNIPEG, CANADA

understanding that if your crops are destroyed by hail or ex-

fully selected and free from weeds.

Growers is this:

statement of facts.

"It is always a mistake to plant old seed, and often it

The above is a quotation from Farmer's Bulletin, No. 94, of the

They are Northern grown

and we stand behind it with a record of thucy-

They are care-

This is a plain

Ask your dealer for

RENNIE'S SEEDS

Our prices are consider-

ably lower than the general

prices which have prevailed

throughout the country for similar twine. The brand

we sell is made specially

for us by a leading manufacturer and is known as the Diamond E Golden

Manila Twine. It measures

550 feet to the pound and

pure Manila. It is smooth-

ly woven and can be used

with perfect satisfaction in

every pattern of knotter.

contains about 50%

United States Department of Agriculture, and its application to Canadian

is well to procure a supply from a different part of the

country, but not very remote nor too different in climate.

Seeds of weeds that are hard to kill out are sometimes found in field and garden seeds, and precautions must be

FER

Prices. inges at about ads are taking rices. Manu-inder how we by low prices s and Ranges.

9.50 this new steel steel bok. It has a savy steel bdy, heavy p, covers and inters, an expellent fire box. urns coal or o o d. Has ur 8-in. lids. perfect steel ok that will and hard ser-



Four 8-in. lids, 16-in. oven. It burns coal or wood. A new construction, will give better re-sults with ire. Large oughly up-rvel at the open shelf ast \$10.00. slight ad-



Wingold Range, latest duction. adsomest ge made.
utiful
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, Ltd.

Taye Edit, Compile and Print Live Stock Catalogs

WRITE FOR PARTICULARS

The Farmer's Advocate of Winnipeg, Limited, Winnipeg, Manitoba

VERY NEAT WRITING.

first of March. Hazeldean is the name the day before. of our school and my teacher's name books. Is my writing as good as other girls of my age?

JANET RENWICK. Souris Co., Man.

STARTING SCHOOL AGAIN. Dear Cousin Dorothy:—I have taken great delight in reading the Children's Corner and thought I would write also, you would be so kind as to publish We have lived here for two years' from the station. I have two sisters and one brother. My eldest sister is married. We have three horses and You can see them lying around everywhere you go. I hope that you will excuse this writing as I have not been ed to school for over two years, but I am going to commence again.
THOMAS WEBBER (11).

Alberta Co., Alta.

A TAME ROOSTER.

Dear Cousin Dorothy:-Santa Claus was bad this last Christmas, for he never brought me anything. I have two sisters and one brother. I have a tame red rooster and a pet horse named Bessy. She is three years old. We Dear Cousin Dorothy:—We live ten have sixty-three head of cattle, seven- miles east and two miles north of BERT LYTLE. (10).

in again some time?—C. D.)

DROVE THE TEAM.

Dear Cousin Dorothy:-I was ten years old yesterday. Mamma made taffy for my birthday. We live about have a school house on our place. I calves. One of the calves came on my had to kill him. I was very sorry. birthday and it is going to be mine. The horses' names are Billy and Jess, Daisy and Nance, Pete and Mack, Jack and Dolly. I ride Mack for the mail and also go for the cattle in the

I drove a team when papa was loading car at the station. The station is a car at the station. two miles from our place.

LORNE MURDOCK.

MIGHT HAVE BEEN WORSE.

Dear Cousin Dorothy:—My father and mother came from Wales fourteen school after Christmas. Our teacher's name is Mr. R— and they say he is very good. We had a lot of snow this year, but they said we hadn't got it very bad to compare with other parts of the world. I have three brothers younger than myself and one little baby sister. I and my eldest brothers go to school. We have eighteen head of cattle, seven horses, three colts, and a good, dog Carlo

DEWEY AND NIGGER.

have three horses, four cows, three brothers and two sisters. My oldest calves, three pigs, forty-five hens, and sister and I go to school. The two five ducks. I have a dog and a cat, brothers and the other sister are younger My dog's name is Dewey, and I call my brothers and the other sister are youn-

HAZEL BLANCH FRAZER. (9)

A MIGHTY HUNTER.

Dear Cousin Dorothy:—I go to school Dear Cousin Dorothy:—I was fourand am in the fourth reader. School teen last December sixth, and my closed at Christmas and opened the youngest brother was two years old

I have a pup and I call him "Sharp. is Miss S—. I was 13 years old the He is a black and brown collie and I 6th of March. I got quite a few Christ-think he will grow to be a big dog. I mas presents. I go for the cows in the am going to train him to draw a sleigh summertime and help to milk them. or a cart, and fetch things out of the I have three cats and one dog whose water. Last year I wished I had a name is Macdonald. I help mother dog to bring out ducks. The first shot quite a little. I have read quite a few at ducks I got two, and that afternoon I got two more, but with two shots. While going after the two ducks that morning I very nearly got stuck in the bog. A few days later I went out one evening after school and came to a pond where there were nine ducks sitting on an island drying their feathers, shot in among them and got six and wounded one more. I went in after them and found that the place was a bog hole. I got them together and started and are about three quarters of a mile out, and with my extra load and my excitement I got so nearly stuck that when I was out I was played out. This winter I was out for about an hour and a pony, a colt and three cows. It has shot eleven rabbits, and for the first been a very hard winter here. There time got two at a shot. As I am very have been hundreds of cattle that have fond of sporting with a gun, I should died around this country this winter. like to hear from some other boys about my own age, about some of their shots where they got more than they expect-

> Excuse me for bragging, but I feel about the same as "Warner" did when he killed his first bear.

BOYCE ROBBINS (14). Dauphin Co., Man.

(I read that story. It is a good one.—C. D.)

A HOUSE WITH A FURNACE.

teen head of horses, and about one Ponoka. Our school is a mile and a hundred hens. We have two dogs and half from here, but there hasn't been five cats. I have a twenty-two rifle, any school here this winter as it is so cold. We have got a section and a Portage la Prairie Co., Man. quarter of land, a large herd of cattle, (Better luck next Christmas, Laddie. thirty pigs, one hundred chickens, There was part of your riddle I could three hens. I am in the second reader not quite make out. Will you send it and walk a mile and a half to school every day.

MILDRED CARLIN.

KILLED THE DOG.

Dear Cousin Dorothy:—I live in a fifteen miles east of Winnipeg and we little place called Knalt. My father has two farms. I go to school every day. go to school most of the time. I am in I have three little sisters and one brother the fourth grade and study reading, arithmetic, geography, spelling and grammar. We have eight head of cattle and eight head of horses and two ROBERT CARLIN. (10)

A HUSTLING TOWN.

Dear Cousin Dorothy:—This is my econd letter to the Children's Corner. enjoy reading the letters very much. I did not see my last one on account of being away from home. But my cousin who lives in Wolesley aw it. We have had a very severe winter, the worst I ever saw. We live in a hustling little Western town. My aunt keeps the post office and my father owns a years ago, and they have three-quarters fine big hardware store. He says of a section of land. We are going to business has been very quiet owing to start to school next Monday. It was the scarcity of money. I am in the very cold so that we could not go to fourth class. I have three brothers and two sisters. My second brother got a lot given to him because he was the first baby born in Lang.

WILLIE WRIGHT (13). Qu' Appelle Co., Sask.

THE BEAUTIFUL SWAN RIVER VALLEY.

Dear Cousin Dorothy:-I live in a NINA MORGAN. (10) beautiful Swan River Valley, situated between the Duck Mountain and the Porcupine. We live four miles from the nearest railroad station and a mile Dear Cousin Dorothy:—I go to school and a half from school. Our teacher's and am in the third reader. My teach-name is Mr. R.—. I like to go to school er's name is Miss A. I have two little very much and am going as soon as brothers. We live on a farm. We the weather changes, I have got two

Evan Morgan. (9)

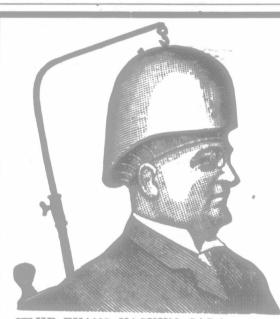
oxygen; gases are given off that foul the

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ITS PURITY, STRENGTH AND WHOLE-SOMENESS ASSURE THE VERY HIGHEST RESULTS. A POUND TIN WILL CONVINCE YOU OF ITS MERIT. AT ALL GROCERS.

16 ounce Tins-25 cents.



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An EVANS VACUUM CAP will be sent you for sixty days' free trial. If you do not see a gradual development of a new growth of hair, and are not convinced that the Cap will completely restore your hair, you are at liberty to return the Cap with no expense whatever to yourself. It is requested, as an evidence of good faith, that the price of the Cap be deposited with the Chancery Lane Safe Deposit Company of London, the largest financial and business institution of the kind in the world, who will issue a receipt guaranteeing that the money will be returned in full, on demand, without questions or comment, at any time during the trial

The eminent Dr. 1. N. LOVE, in his address to the Medical Board on the subject of Alopaecia (loss of hair) stated that if a means could be devised to bring nutrition to the hair follicles (hair roots), without resorting to any irritating process, the problem of hair growth would be solved. Later on, when the EVANS VACUUM CAP was submitted to him for inspection, he remarked that the Cao would fulfil and confirm in practice the observations he had previously made before the Medical Board.

Dr. W. MOORE, referring to the invention, says that the principle upon which the Evans Vacuum Cap is founded is absolutely correct and indisputable.

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Household Sanitation.

BY MARY E. ALLEN-DAVIDSON M.D. CHAPTER IV.

(Continued from page 584.) of children. This may predispose to coughs, colds, catarrh, etc. An irritating cough at night is often caused always be kept on the same, the steam from which will supply the necessary moisture. Where furnaces are used, the reservoir does not supply suffi-cient moisture to the heated air even if kept filled. Set tin pails in the registers and keep filled with water. The evaporation of this water into the warm air passing over it causes a quite perlikely to be too dry. So much for general ventilation and heating. Something may be added when the sleeping rooms are discussed.

As to lighting—be prodigal of sunlight through the day. Disease is a thing of darkness, and lurks in damp, sunless corners. Have plenty of windays and darkness corners. dows and don't keep the blinds down. Never mind the curtains and carpets. Better that these should fade and lose their freshness than that the children should be pale and peaked and without the red roses of health blooming on their cheeks. Let in the sunlight, flood the house with it. It will search out the cob-webs, show up the dust, sweeten and purify everything and revive you with its warmth and cheer The sun and the elements are always our friends. The former gives light and warmth and light; while earth, air, fire and water, Nature's tireless cleansers, are at constant war with our enemies, filth and disease. So welcome the sunlight and make the elements your co-workers. Burn every useless thing if it can be burned. It will not then become a source of contamination. Call earth and air and water to your aid in keeping your home healthful and so restful to mind and

For artificial lighting the electric off carbon dioxide gas. Be sure to allow a lot of extra fresh air if these are used. See that the coal oil is pure -they are only too fatally common.

LIVING ROOMS.

Kitchen.—This should be the largest, cheeriest room, in farm houses at any rate, because no matter how cosy the parlor may be, even if there be a good sized dining room, which does not obtain in the majority of farm houses, still the kitchen ever will be the living room, because the mother must spend the major portion of her waking hours there, and she is the magnet that draws all the inmates of the home into the charm of her presence. So, mothers, I address myself particularly to you. This is your especial domain; does it seem a lowly place and your daily round menial and commonplace? Not so. It is a throneroom, and though the toil is unceasing and severe, you are inculcating principles and giving a matchless example of fortitude and endurance, and of self-sacrifice for your loved ones, that will go a long way toward shaping the destiny of an empire; for the mothers of Canada are giving us men and women who will make our native land a nation of ideal homes and the home of an ideal nation. So mothers have your workroom spotless. pipes. Let it preach sermons to all who enter

air and infect the food. Now comes the most important thing. Forbid spitting absolutely. It is a disgusting and most dangerous habit. It is astonishing how prevalent this habit is. Many of my readers will exclaim, "Surely not!" But I have been taking note of this for years and many men and women (and of course their children too) who are respectable by dry air and will cease at once if moisture be applied. If parlor heaters are used a kettle of water should at home, in church or neighbor's house. There really are beings who chew tobacco and spit on the floor. What matter that their unfortunate babies whose playplace has been so defiled have to creep through this vileness? Isn't it horrible? How can such children ever struggle into decency and self-respect? These expectorations, on drying, are raised in dust, and taken into the lungs, and deposited ceptible difference in the moisture of on the food and in the milk and water. the air. Where steam or hot water Fathers who smoke or chew, I beg of is used for heating the air is not so you to forget your selfish, yes, most cruelly selfish appetite long enough to think a few minutes. Think of the lumps of foul-smelling contamination you are making of your own bodies. Go and look at yourself in the glass and take an honest picture into your mind. There you are, with the trade marks of tobacco the strongest characteristics of your personal appearance. Yellow, tobacco-stained teeth, perhaps worn into ugly jags and hollows to accomodate the pipe. Lips, dry, livid, perhaps cracked, or with sores that may be incipient cancer; or, if you chew a dirty brownish rime defiles and disfigures the mouth that should be as clean and red-lipped as when you were baby. There is a general dustiness and slouchiness about your whole make up. Your hair is dry and unkempt, for the poisonous nicotine has stolen its rich glossiness. Your eye is not so bright as it should be. The clear white has turned to a dirty yellow. Isn't it so? Where is the freshness, the clean wholesome wellgroomed appearance that should be yours? Has tobacco so undermined your self-respect that you don't care what you look like or how others regard you? Your breath! Its nastiness is indescribable, and your clothes, even your body, emit a rank odor of stale tobacco that smells to heaven! Isn't this a true picture? How selfish you are to persist in such a defiling habit, with your dear ones around you. For is the most sanitary. Coal oil and gas use up a great deal of oxygen and throw endure what must be disagreeable in the extreme. This habit is most injurious to their health, indirectly, as well and never burn with wick turned low. respect you or be proud of you, when as to your own. How can your family Shade lamp if necessary or set in an adjoining room. There is great dan-enslaving habit that is such an injury to ger of explosion when the wick is you, impoverishing you in mind, body turned low, because the escaping gas, and estate. Remember that tobacco so perceptible by its odor, is very inflammable and easily ignited. The consequences need not be dwelt upon ally and more alert and successful financially, if your powers were not narcotized by tobacco. It makes you irritable, unkind and supremely selfish, or you wouldn't persist in the habit when it means so n uch harm and loss to your dear ones and to yourself. I appeal to every tobacco user, for the sake of your better nature, for the sake of the health and moral training of your children, for the sake of God who gave you a clean beautiful body that your mother gloried in, stop this defiling habit! Don't set an example to your children that if followed. will make them less strong-limbed and clean and bright-eyed and clever than they are now. Help them to live clean, wholesome lives. Help them to hold up their heads in self-respect, knowing that they are good to look upon, a benefit, instead of a nuisance to the community, and that all their powers are theirs to use for good, instead of weakened, perverted and criminalized by the curse

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of tobacco. In regard to kitchen utensils—watch the sink. Disinfect the pipes often with boiling water having a little lye in it. The same applies to all the bath-room

As to the dining-room. Do not put it, of law and order. Keep it clean and food—milk, butter, meat, vegetables or healthful. Never allow the kitchen to beecome close smelling. No clothing should hang on the walls as a thing of they should wait awhile than that they should hang on the walls as a thing of routine. Have a closet for these outside weats, evershoes, etc., that litter up your kitchen, bringing with them hersey edors and barnyard smells. Don't allow swill as soon as the meal is over. Leave nothing that will attract fies. If you leave a cloth on your table let it be a soon as the meal is over. Fermentation goes on using up the dark one unless you can exclude every

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that foul the fly. If any flies do gain access try to day or the too direct rays of the sun. clear your dining room of them before Have sensible furniture that is substanow comes the rbid spitting ing and most onishing how Many of my not!" But this for years and of course ; respectable er ways, spit on the floor bor's house hew tobacco matter that whose playave to creep t it horrible? struggle into pantry and dining room, because there ingly indulged in.
the food supply is in danger of contam- When letting in air through the ised in dust, nd deposited and water. ination. w, I beg of , yes, most

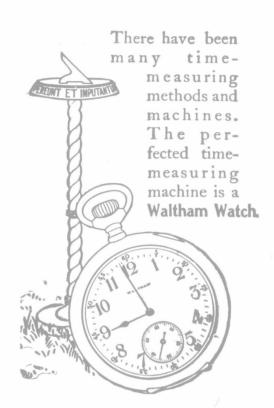
quickly, only saying that these should your curtains fall straight; then carefully always be well ventilated, of comfortable brush with a long-handled hair brush temperature, and with plenty of light, If the menfolk indulge in smoking, try summer and winter. Don't close up to windsweep the room as soon as possible these rooms, pulling down the blinds, afterward, to prevent the odor of stale and turning them into twilight abodes of smoke from lodging in every fabric and musty mystery, only to be opened and so making the air continually offensive used on state occasions, when if your and unwholesome for the children children are permitted to enter they will Don't allow spittoons to poison the air feel awkward and away from home, and offend the eye. Take out, scald afraid to move or touch anything for with boiling water and bring in again fear of spoiling so much grandeur. The if you must. Poor mothers and daughchildren should never have to be taught ters, it is disgusting work, and you "parlor manners." They should be should not be compelled to do anything taught to be kindly, courteous, defer- so repugnant to you, just because those ential to elders, and helpful to every one, who should shield you from every disbecause this is a large part of life's work agreeable task as far as possible choose and God looks to them to do their work to be selfishly indulgent But you will well. Then they cannot fail in truest do this as you do everything, because it courtesy, which is always the simplest is for the well-being and health of all the expression of kindly feeling. For the family, and because "Love constraineth." rest they should be left free to work out Sleeping rooms. — Special thought their own individuality in parlor or in should be expended on keeping these field. They will be natural, sympathetic in good condition, for many reasons, men and women.

the blinds only to temper the heat of the

and after every meal, by waving a large tial and that won't gather dust and get cloth to drive them out. This room may musty. Upholstered furniture, except be darkened when not in use, as it is not in leather, is most unhealthy from every a living room, but see that there is plenty standpoint and should be banished from of ventilation. If needful use fly-pads, every home. Have only what is necess-but it is better to exercise vigilance in ary. Nothing looks worse than a room keeping them out of the house altogether, crowded with all sorts and sizes of Have every door and window of your chairs, tables, settees, etc., They take house closely screened. Make this a up space and so lessen the available thing of prime importance. Impress it oxygen. Banish clutter; such as tidies, on the children's attention. Tell them mats, too many curtains and drapes. why flies are such enemies to health and enlist their help in keeping every fly out health standpoint and in my judgment of all the house by being careful to brush from that of good taste also. Rooms flies away before leaving or entering the should never look crowded and mussy, house and closing the screen door tightly but spacious for their size. Don't have and at once. Be specially careful to many pictures. Anything that takes up exclude these pests from your kitchen, space and gathers dust should be spar-

windows loop back the curtains so that Sitting-rooms, that is, parlor, library, any dust in them will not be loaded on drawing-room, etc., I will pass over the incoming air. After sweeping, let

some of which are: Because we spend Keep your sitting-rooms light; use from one-third to one-half our time in (To be continued).



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Bob, Son of Battle

(Continued from page 622.)

jerking his thumb over his shoulder.

sympathy. these months past! It's your Wull's "Dear, dear! it's come to that, has killed ma sheep back o' yon!" At that all the little man's affected eyes wandered to the grey dog and dwelt mournfully upon him. "Man, "Ye lee, mon! ye lee!" he cried in a dwelt mournfully upon him. "Man, "Ye lee, mon! ye lee!" he cried in a I'm sorry—I canna tell ye I'm surprised. Masel', I kent it all alang. antagonist. "I knoo hoo 'twad be. But gin Adam M'Adam had tell't ye, I said so. I see what ye're at. Ye've ye'd no ha' believed him. Weel, weel, found at last—blind that ye've been! he's lived his life, gin ony dog iver did; and noo he maun gang where he's sent a many before him. Puir mon! puir tyke!" He heaved a sigh, profoundly

angue at first puzzled. Then he caught ye first!" the other's meaning, and his eyes flashed.

"Ye're right, I never did. But your the other's face.
"There's none The Master was dog is not as ither dogs—'There's none like him—none,' I've heard ye say so yersel, mony a time. An' I'm wi' ye. There's none like him—for devilment." out his right hand. "Yon's proof that's deceived ivery one but me— that damning red hair. whelp o' Satan that he is!" He shoul- "Where?" dered up to his tall adversary. "If not him, wha else had done it?" he asked, him, wha else had done it? He asked, looking up into the other's face as if to look closer.

"There's for yer proof!" he cried, "There's for yer proof!" he cried,

The Master's shaggy eyebrows low- and spat deliberately down into the

o' t' Dyke," he announced shortly, ered. He towered above the other like the Muir Pike above its surrounding

"The Killer?"

"The Killer."

"Wha, ye ask?" he replied coldly, "and I answer you. Your Red Wull, wrinkle of the little man's face was absorbed in a wondering interest; and your Wull's the Black Killer! It's that again gave place to sorrowful your W'llus bin the plague o' the land sympathy.

these months past! It's your Wull's

that it's yer ain hell's tyke that's the Killer; and noo ye think by yer leein' impitations to throw the blame on ma Wullie. Ye rob me o' ma Cup, ye rob melancholy, tenderly sympathetic. me o' ma son, ye wrang me in ilka
Then, brightening up a little: "Ye'll thing; there's but ae thing left me—
ha' come for the gun?"

Wullie. And noo ye're set on takin' James Moore listened to this har- him awa'. But ye shall not-I'll kill

He was all a-shake, bobbing up and down like a stopper in a soda-water "Ye fool, M'Adam! did ye hear iver bottle, and almost sobbing."

tell o' a sheep-dog worryin' his master's sheep?"

The little man was smiling and suave again now, rubbing his hands softly together.

"Ye're right I power did. But your the content of t

His voise began to quiver and his face enough to hang a hunner d." For lying to blaze. "It's his cursed cunning in his broad palm was a little bundle of

"There!"

"Let's see it!" The little man bent

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INNISFAIL, Alta.
W. P. Perkins, Manager
KAMSACK, Sask.
G. Bourne, Manager
KINISTINO, Sask.
E. R. Jarvis, Manager
LANGHAM, Sask.
W. J. Savage, Manager
LASHBURN, Sask.
S. M. Daly, Manager
LEAVINGS, Alta
Thos. Andrews, Manager
LETHBRIDGE, Alta. Thos. Andrews, Manager Thos. Andrews, Manager
LETHBRIDGE, Alta.
C. G. K. Nourse, Manager
LLOYDMINSTER, Sask.
S. M. Daly, Manager
MACLEOD, Alta. MACLEOD, Alta.
H. M. Stewart, Manager
MEDICINE HAT, Alta.
F. L. Crawford, Manager
MELFORT, Sask. E. R. Jarvis, Manager

MOOSE JAW, Sask, MOOSE JAW, Sask.
E. M. Saunders, Manager
MOOSOMIN, Sask.
D. I. Forbes, Manage.
NANTON, Alta.
C. F. A. Gregory, Manager
NEEPAWA, Man.
C. Ballard, Manager
NORTH BATTLEFORD, Sask.
A. S. Howeton, Manager NORTH BATTLEFORD, Sask.
A. S. Hometon, Manager
NORWOOD, Man.
W. H. Switzer, Manager
PINCHER CREEK, Alta.
W. G. Lynch, Manager
PONOKA, Alta.
E. A. Fox, Manager
PORTAGE LA PRAIRIE, Man.
A. L. Hamilton, Manager
PRINCE ALBERT, Sask.
C. D. Nevill, Manager
RADISSON, Sask.
C. Dickinson, Manager
RED DEER, Alta.
D. M. Sanson, Manager
REGINA, Sask.
H. F. Mytton, Manager
SASKATOON, Sask.
W. P. Kirkpatrick, Manager
STAVELY, Sask.
Thos, Andrews, Manager STAVELY, Sask.
Thos. Andrews, Manager
STONY PLAIN, Alta.
C. S. Freeman, Manager
STRATHCONA, Alta.
G. W. Marriott, Manager
SWAN RIVER, Man.
F. I. Macous, Manager SWAN RIVER, Man. F. J. Macoun, Manager TREHERNE, Man. J. S. Munro, Manager VEGREVILLE, Alta. VEGREVILLE, Alta.
W. P. Perkins, Manager
VERMILION, Alta.
A. C. Brown, Manager
VONDA. Sask.
J. C. Kennedy, Manager
WADENA, Sask.
W. E. D. Farmer, Mauager
WATSON, Sask.
A. L. Jensen, Manager
WETASKIWIN, Alta.
H. I. Millar, Manager
WEYBURN, Sask.
J. D. Bell, Manager
WINNIPEG, Man.
John Aird, Manager
YELLOWGRASS, Sask.
C. Hensley, Manager

C. Hensley, Manager

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FARMERS' BANKING

Every facility for farmers' banking. Notes discounted, sales notes collected.

Deposits may be made and withdrawn by mail. Every attention paid to out-of-town accounts.

A SAVINGS BANK DEPARTMENT AT EVERY BRANCH 76 Deposits of \$1 and upwards received and interest allowed at current rates

The Empire Proves

The cream separator of Quality-Quality in work and quality in construction-

Improved Frictionless

Cream Separator

In construction it is admittedly the simplest in principle. Its bowl is the lightest and turns the most easily It is free of all complicated parts and is most easily washed. Its improved bearings make it as nearly absolutely frictionless as it is possible for a machine to be. It is so well built and made of such good materials that

it outlasts three or four ordinary separators, and very seldom needs repairs. It gets all the cream and of the highest quality. In convenience, in economy and in satisfaction, it

is emphatically the Separator of Quality. We Prove These Things. We don't ask you to take mere 'claims." We give you proof. Send oday for our new catalogue. It is well worth your while to find

Ontario Wind Engine and Pump Company, L.d., Winnipeg, Manifoba, Canada.

other's naked palm. Thenhe stood "Ye're big, I'm sma'; ye're strang, I'm back, facing his enemy in a manner to weak; ye've ivery one to your back, have done credit to a nobler deed.

crush him, who should come stalking was dreadful to see in its hideous round the corner of the house but the determinedness. Tailless Tyke?

A droll spectacle he made, laughable MR. SPURGEON AND HIS PHYSICIAN. even at that moment. He limped sorely, his head and neck were swathed in bandages, and beneath their ragged fessional interview between the late Sir William Gull, the eminent physician, and bloodshot.

teeth. Then he trotted heavily for Spurgeon, he began slowly: he came.

court of Queen Elizabeth.

to be allowed their will.

little man.

"Bob, lad, coom in!" called the other. Then he turned and looked down at the man beside him, contempt flaunting in every feature. "Well?" he said shortly.

M'Adam's hands were opening and shutting; his face was quite white beneath the tan; but he spoke calmly. "I'll tell ye the whole story, and it's the truth," he said slowly. "I was up there the morn''—pointing to the window above—"and I see Wullie crouchin' down alangside the Stony and dropped his thermometer into his breast pocket)—"and that is to let him die."—Manchester City News. Bottom. (Ye ken he has the run o' ma finger at Owd Bob.

gorged—the bloody-minded murderer! entire herd.
They fought and fought—I could hear—It is to the French scientists, Prothe roarin' o't where I stood. I fessors Arloing, Cornevin and Thomas

He turned away, but turned again. "I'm sorry for ye, but I've ma duty form of vaccine is used. to do—so've you. Till Saturday I We would suggest that you write shall breathe no word to ony soul o' to the Pasteur Vaccine Company. put him oot o' the way wi'oot bother, be glad to give you full particulars.

He turned away for the second time.

I've niver a one; you tell your story, James Moore strode forward. It and they'll believe ye-for you gae to looked as if he was about to make an church; I'll tell mine, and they'll think end of his miserable adversary, so I lie—for I dinna. But a word in your strongly was he moved. His chest heaved, and the blue eyes blazed. But land, by——!"—he swore a great oath just as one had thought to see him take—"I'll no spare ye. You ken best his foe in the hollow of his hand and if I'm in earnest or no." And his face grush him, who should come at allier was dreadful to see in the hollow.

(To be continued.)

An amusing story is told of a proand bloodshot. had a habit of referring to himself in the Round the corner he came, unaware third person, and as he shook hands of strangers; then straightway recog-nizing his visitors, halted abruptly. William Gull has had a busy day. First His hackles ran up, each individual he attended . . . Then. . . and hair stood on end till his whole body resembled a new-shorn wheat-field; and a snarl, like a rusty brake shoved himself." After diagnosing the case he had a snarl stood on the showed himself." After diagnosing the case he had a snarl stood on the showed himself." hard down, escaped from between his paused, and then, gazing gloomily at ward, his head sinking low and lower as Spurgeon, there can be no question as And Owd Bob, eager to take up the question at all. What you suffer from, gage of battle, advanced, glad and sir, is overeating. Sir William Gull gallant, to meet him. Daintily he repeats, overeating." The preacher propicked his way across the yard, head tested that he rose up early and had and tail erect, perfectly self-contained, exhausting work. "Sir William Gull Only the long grey hair about his neck gets up early," answered the slow voice stood up like the ruff of a lady of the of the other. "Sir William Gull leads an active and exhausting life, but Sir But the war-worn warriors were not sary to overtax his stomach. Doctor, William Gull has never found it neces-"Wullie, Wullie, wad ye!" cried the turning to the man with whom he was in consultation, "have you never told Mr. Spurgeon that his diet is too generous?" The answer was an affirmative. "Has Mr. Spurgeon obeyed your orders?" The doctor regretted that on that point his patient did not agree with him. Gull's tace assumed a deepened gloom and solemnity. "Well, then, Doctor, if Mr. Spurgeon won't obey your orders, there is only one thing to do"—(with a sudden briskness the physician arose

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land o' neets, the same as your dog.) WITH THE COMING OF SPRING this In a minnit I see anither dog squatterin' disease is again making its appearance WITH THE COMING OF SPRING this alang on your side the Bottom. He and the careful cattle raiser is considercreeps up to the sheep on th' hillside, ing the advisability of vaccinating chases 'em, and doons one. The sun his stock so as to prevent the ravages was risen by then, and I see the dog of this disease. There is no longer clear as I see you noo. It was that dog any question but that Blackleg Vaccine there—I swear it!" His voice rose as will positively prevent the disease, he spoke, and he pointed an accusing provided a reliable vaccine is used and in ample time. The loss of a single "Noo, Wullie! thinks I. And afore animal due to delay or faulty vaccine ye could clap yer hands, Wullie was will frequently amount to more than over the Bottom and on to him as he the cost of sufficient vaccine for the

watched till I could watch nae langer, that we are indebted for the discovery and, all in a sweat, I rin doon the stairs of a reliable Blackleg Vaccine. They and oot. When I got there, there was are recognized as being the greatest yer tyke makin' fu' split for Kenmuir, authorities on the subject and their and Wullie comin' up the hill to me. vaccines have been successfully used It's God's truth, I'm tellin' ye. Tak' all over the world for more than twenty him hame, James Moore, and let his years. Their vaccines can still be dinner be an ounce o' lead. 'Twill be the best day's work iver ye done.' Company, Ltd., of Paris and London The little man must be lying—lying palpably. Yet he spoke with an this country. They introduced Blackearnestness, a seeming belief in his own leg Vaccine into this country over tenserory, that might have convinced one. story, that might have convinced one who knew him less well. But the Master only looked down on him with a great scorn.

"It's Monday to-day," he said coldly.

"The property of the best and most satisfactory form of Blackleging." "I gie yo' till Saturday. If yo've not most satisfactory form of Blackleg done your duty by then—and well you Vaccine. Each dose is separate and know what 'tis—I shall come do it for ready for use, and the necessary instruye. Ony gate, I shall come and see. ment is the most inexpensive on the I'll remind ye agin o' Thursday—yo'll market. The doses of Blacklegine be at the Manor dinner, I suppose. are of a convenient size that can readily Noo I've warned yo', and you know be handled and can be seen during the last substitute I'm in the reference. best whether I'm in earnest or no. entire operation. There is, therefore, no question as to whether all the animals have been vaccinated when this

this business, so that if you see good to mentioning this paper, when they will

Going to School or Learn a Trade? If so, write for our fine new catalogue giving complete information about the special opportunites offerd for obtaining an education in almost any subject and learning some of the best trades Address

O. H. Longwell, Pres. Highland Park College,

Des Maines Le

Des Moines, Is

MAY 1, 1907.

PILES CURED

ZAM-BUK SUCCEEDS WHEN

ALL ELSE FAILS

To get relief from the agony of piles

just take this simple course. Apply a little Zam-Buk either with the hand

direct or on a clean warm lint to the

piles. If internal make a small wad of clean old lint (not new linen or cotton

as these are likely to contain the chemi-

cals used in bleaching which are very harmful). Melt a little Zam-Buk and

thoroughly soak the wad, then apply to the part, anointing well with the balm. Do this just before retiring and then lie on a fairly hard mattress. You

will be amazed at the ease which follows. This course taken on a few consecutive

nights and a little attention paid to the bowels to prevent or remove constipa-

Mr. Neil Devon, of Webbwood, Ont., says:—"I was bothered for eight years

with piles and nobody knows what I have suffered. I tried Zam-Buk and

the result was so pleasing that I secured a good supply. Now I am cured."

Avenue, Toronto, whose photo we reproduce above, says:—"For four

years I suffered acutely from bleeding

piles and spent an immense amount of money on "remedies" and doctor's

prescriptions but got no ease. Zam-

Buk was different to everything else

I had tried and it cured me. I am grateful for the cure, and as I have never

had piles once since, I know the cure is permanent.''

sions, pustules, scalp sores, itch, eczema,

etc. All druggists and stores sell at

50c. a box, or post free from the Zam-

Buk Co., Toronto, for price. 6 boxes

for \$2.50. Send ic. stamp for trial box.

Mrs. Elizabeth Taylor, of Greenwood

tion, will be found to cure.

e strang, I'm your back 1 your story r you gae to they'll think word in your h ye on ma a great oath ou ken best And his face its hideous

d.) PHYSICIAN.

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shook hands served, "Sir y day. First i. . . and is called to Spurgeon the case he gloomily at vly: "Mr. question as th you—no suffer from, illiam Gull reacher proly and had illiam Gull e slow voice Gull leads ife, but Sir nd it necesh. Doctor,

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Mege,

Steedman's SOOTHING **Powders**

Relieve FEVERISH HEAT. Prevent FITS, CONVULSIONS, etc. Preserve a healthy state of the constitution

during the period of TEETHING. • Picase observe the EE in STEEDMAN.

CONTAIN ² NO POISON

Trade Notes

THERE ARE SO MANY DIFFERENT styles of roofing on the market at the present time that a person needs to enquire into the merits of each before deciding which best suits his purpose and which would be the most economical to use. One of the latest of the prepared roofings to come under our notice and which is advertised in another column is the Amatite roofing. Amatite has a mineral surface which takes the place of paint and is claimed to be much more endurable. Farmers who have any roofing to do should obtain a Free Sample, which may be done by addressing the Barrett Manufacturing Company, New York, Chicago, Cleveland, Allegheny, Kansas City, St. Louis, Minneapolis, Philadelphia, New Orleans, Cincinnati, or Paterson Mfg. Co., Toronto, Ont.

WE ARE IN RECEIPT OF A CATALOG from the Wingold Stove Co. of Winnipeg, mail order dealers in stoves, harness, sewing machines, hardware and stable sundries. This book contains over forty pages of a full list of all kinds of stoves suitable for the farm and home. This firm has been established for considerable time in the city of Winnipeg, and is doing a large mail order business throughout the country. They have shipped their goods to all parts of the Dominion. They are thoroughly reliable and our friends can be assured of the best of treatment from the Wingold Stove Co. of Winnipeg. The catalog will be mailed free to all who request it, mentioning the paper in which they saw this notice.

CAUSTIC BALSAM FOR SPAVIN AND RINGBONE.

Casselman, Ont., Feb. 6th, 1905. The Lawrence-Williams Co., Cleveland, Ohio:

I have used vour GOMBAULT'S CAUSTIC BALSAM for spavin, ringbone and a good many other ailments, and found it very good for all.
ALF. LALONDE.

'CAUSTIC BALSAM GIVES UNIVERSAL SATISFACTION."
Wapella, N.W.T., Canada April 22, 1904.

The Lawrence-Williams Co., Cleveland,

Please send me by mail any nice show cards or advertising matter so I can make a good show. I have sold quite a lot of GOMBAULT'S CAUSTIC I have sold quite BALSAM and it has given universal Zam-Buk cures cuts, burns, abrasatisfaction. Yours for push and sales. JAMES A. MACDONALD.

> EVERYWHERE IN THE WEST, there is a"great demand for fruit lands, and especially for irrigated lands. Down in Washington orchard lands have grown in value to \$1,000 and \$1,500 an acre.

> Soon many thousands of acres in the fertile irrigated valleys of British Columbia will be on the market.

> The Kettle Valley Irrigated Fruit Lands Co., operated west of Midway are now ready for buyers of five and ten-acre tracts, tracts of high-grade soil, with water assured and with an unexcelled climate.

Recent reports from that district show no injury from the unusually cold weather of the past winter. Large plantations will be set out this spring. The land is now open for sale. Further particulars can be had from the Kettle Valley Irrigated Fruit Lands Co. of Midway, B. C.

Alex. Galbraith and Son, Brandon, Man., writes us as follows

"We have just sold the Baron" Pride Stallion Bulwark, illustrated last month in the ADVOCATE, to a syndicate of enterprising farmers at Carman, of which Mr. Alex Morrison is president and Mr. T. W. Ivey is secretary. This is the third Clydesdale stallion we have sold to this same syndicate and their pluck in securing such a valuable horse as Bulwark is most commendable. This horse is own brother to the Show horse Dunbar and also to Empressthe mare that beat everything in Scotand in 1899."

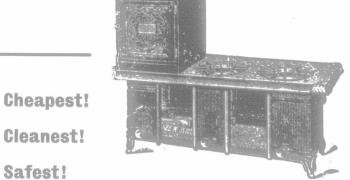
A Hint to Butter Shippers

The Bristol (England) Dairy Commissioner states: "Some consignments of Manitoba Butter arrive in a dirty condition, on account of the tubs being very badly coopered. We would much prefer goods in clean well-made packages, and hope the department will assist us in the matter." Therefore Mr. Butter-Packer,

INSIST ON

They are clean, well-made from white spruce, and the boops will not fall off. For sale by all first-class dealers.

"Always-Everywhere in Canada-Use Eddy's Matches"



Not like those Sold in Stores. **Absolutely Safe** from Explosion.

Burns Barrels of

The Most Wonderful Stove Ever Invented

CAN'T CLOG UP!

Causing great excitement wherever exhibited. Fuel drawn principally from atmosphere. Uses 395 barrels of air while consuming one gallon of oil. Wood, coal and oil cost money. Only free fuel is air. Supply is unlimited. No trust in control. Air belongs to rich and poor alike.

Harrison Valveless, Wickless, Automatic Oil-Gas and Air Burner Stove

Automatically generates gas from Coal Oil, mixing it with air. Burns like gas. Intense hot fire. Combustion perfect. To operate turn knob, oil runs into burner, touch a match, it generates gas, which passes through air mixed, drawing in about a barrel of air to every large spoonful of oil consumed. That's all. It is self regulating. No more attention. Same heat all day or all night. For more or less heat simply. turn knob. To put fire out simply turn knob. As near perfection as anything in this world. Not like those sold in stores. No leaks. nothing to clog up. No wick, not even a valve; yet heat is under perfect control. Cheapest fuel on earth. The only stove absolutely guaranteed to be safe from explosions. No hot fiery kitchens. Not dangerous like gasoline. Simple, durable, lasts for years. Prices, one burner, \$3.75; two burners, \$7.50; three burners, \$11.50. Write to-day. All orders receive prompt attention.

International Supply Co. Suite 3, McKay Block

299 Portage Avenue

WINNIPEG

MANITOBA



The FARMER'S ADVOCATE has won a place in your Home because it has filled a want. It would prove its worth to your neighbor if you introduced

it to him. Talk it over, and if you send in one new name we will extend

your subscription for six months, or for two new names accompanied by \$3.00 we will send your paper one year free of charge.





LOSSES PAID IN FULL

283 Loss Claims Paid by this Company Last Year Amounting to \$51,421.17

\$2,700,000
INSURANCE NOW IN FORCE

Rate of Assessment last year 14 cents per acre

Total losses paid for years 1905 and 1906, \$144,000

Average rate of Assessment last 4 years 15% cts. per acre. Over 3,750 farmers now insured with us. For further particulars write the Company.

Assets, \$121,000

The Northwestern Hide & Fur Co. say of the market on April 15th.

"The hide market continues to decline. The over supply in the large packers' hands, also the dealers' hands through-

out the country, has a depressing effect.

There is only an occasional car sold and each time at a reduction of the previous sale. We have to reduce

tc. and warn our shippers to expect another tc. decline inside of a week.

"Wool and pelt market all quiet.

The Manitoba Farmers' Mutual Hail Insurance Company

W. C. GRAHAM, Manag

W. C. GRAHAM, Manager - Box 513, WINNIPEG

Bonded

Bankers; Bank of British North America

Licensed

Farmers! Ship your Grain to the GRAIN GROWERS' GRAIN CO. Ltd.

Commission Merchants, Track Buyers and Exporters
Wheat, Barley, Oats and Flax bought on track or handled on commission

We would ask every farmer, whether a shareholder or not, to consign his grain to us or wire for bids when car is loaded. Let every farmer take a share or shares in the Company and increase our working capital. The larger the Company the greater the economy in operation and ease in maintaining satisfactory export connections. Although enjoying the privileges of membership on the

Winnipeg Grain and Produce Exchange, we will take every opportunity to enlarge our export connections and trade in Eastern Canada and the Old Country.

You must pay someone for the service of handling your grain. The Company will employ part of the profits of the business in spreading the organization, improving conditions and developing markets; the balance of profits will be available in the payment of dividends on paid-up capital. Those of our subscribers who have only paid 10% on shares had better meet the 20% call since made,

at once, and so share to a greater extent in the profits of this season's business.

Get your neighbors as shareholders, if possible; if not, try and induce them to patronize

Bill your grain to the order of the **Grain Growers' Grain Go.**, at Fort William or Port Arthur, according as you are on the Canadian Pacific or Canadian Northern railway system

Write across the bill "Advise Grain Growers' Grain Co., 5 Henderson Block, Winnipeg.

Prices are merely nominal and will likely continue until the new clip comes in. Prices are expected to be 2c. or 3c. less than last year. Large stocks are carried over from last year in the large wholesale centers.

"Fur market rather quiet. All late caught grade low in quality, except muskrat, beaver and otter. They will

Horse hides are lower.

caught grade low in quality, except muskrat, beaver and otter. They will continue prime for a few weeks as long as the waters are icy cold; then they will deteriorate rapidly. All trapping should cease May 1st, as the law will then be out, and even water animals will be getting poor.

"Beeswax and feathers in moderate demand without change."

ALEXANDER DEY goes to Brownsourgh, Que.—The many friends of Mr. Alexander Dey of the Stanley Gun Club, Toronto, will be pleased to know that he has been appointed to take charge of the Dominion Cartridge Co., shot shell loading department, and is now living in Brownsburgh, where the Company's factory is located. The Dominion Cartridge Co. are also to be congratulated in securing the services of such experienced a man for this department, and we don't doubt out that trap-shots throughout Canada and sportsmen generally, will feel, if possible, increased confidence in the Dominion ammunition—knowing that Mr. Dey has had "a finger in the pie."

FOR THE SCENT SCHOOL SC

Farmers' Interests Are Our Interests We Originate Others Imitate

We have facilities not possessed by any other creamery in Manitoba for pasteurizing and ripening all cream we receive. This enables us to turn out a strictly A1 article, thereby ensuring our patrons the highest price at all times.

Our system of weighing, sampling and testing each individual can of cream which we receive is as near perfect as can be.

Highest Prices Prompt Payments Accurate Tests Trial Solicited

Crescent Creamery Co. Limited

WINNIPEG and BRANDON

Wedding Rings

There is no question of the quality of wedding rings stamped "DINGWALL," 18k or 22k.

Our	No.	2123.	An	18k	ring				\$4.00
6.6	No.	2125.	4.4	4.4	4.6				6.00
4.4	No.	2127.	4.6	4.1					8.00
4 4	No.	2129.	* 4	4.	1.4				10.00

These rings we have selected as being the most used. Should a special design be required we will make same to order. Order by mail, stating number.

Catalogue on request.

D. R. DINGWALL, Ltd.

Jewelers and Silversmiths

WINNIPEG

Questions and Answers

GROWING ARTICHOKES.

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Can you tell me anything about the growing of artichokes?

Ans.—An authority consulted states that artichokes will grow in practically any soil and climate and produce annually heavy crops of tubers for many years. In point of nutritive value, the artichoke excels all other tubers, while with only ordinary care and a little manuring each season they will easily produce three or four times as many bushels per acre as will potatoes. Horses, cattle, sheep, and swine are fond of them and thrive on them wonderfully. Even without any cultivation and manuring, they will produce fine crops year after year and this without replanting, for their great tenacity of life and their disposition to reproduce themselves will save the necessity and expense of annual replanting. No matter how thoroughly the crop may be harvested, there will be enough left in the ground to produce even a fair-sized crop for the following year, and this fact, coupled with the spreading tendency of the plant, has caused the artichoke to be teared as a pest.

By planting in an out-of-the-way place and using ordinary precautions to keep them within bounds, such a

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plantation will be found to be very profitable and can be depended on to produce a big supply of fine stock food each season at practically no outlay except a little manure and the har-

They can be planted either in the fall or spring, in hills three feet apart each way, covering them about three inches deep. Either small tubers or cuttings from larger ones, containing eyes, can be used. The first season, at least, draw a little earth around the roots or stems, as a support. By pinching off the tops of the stalks, when well grown, the size and yield of the tubers are increased.

They can be harvested as wanted until the ground freezes. The freezing does not hurt them at all. They can be stored the same as potatoes, or in outside pits or in dry sand in the cellar. After harvesting the crop, turn in the hogs. While they will get plenty of food, there will still be enough left in the ground to make a crop next

CONCRETE FOR GRANARY.

Will you kindly advise me on cement or concrete through your most valued paper? Can you recommend it for a granary? If so, how much cement, sand and small stone will be required for building 16 x 30 x 8? Gables will be seven feet rise from plate. Would a cement floor be advisable or would it be damp? How thick should the foundation be? Also the walls? What is the price of cement? G. W.

Ans.—Yes, concrete can be recommended for practically all buildings as it can be built into walls in all poss ible ways, solid walls or hollow walls or as a veneer. The concrete floor would be dry enough, especially if the soil upon which it was laid were not damp and springy. In making concrete the proportions of cement, sand and gravel would depend upon the quality of the cement. Portland cement is much stronger than the rock cements. much stronger than the rock cements and of course requires less for a given bulk of wall. An average proportion of Portland cement for walls, floors, sidewalks, etc., is one barrel of Portland cement, two and a half barrels of sand and five barrels of loose gravel or broken stone. This will make up into about twenty-five cubic feet of wall. In the building referred to there are 784 cubic feet in the walls, making them on an average of twelve inches thick, which at a barrel of cement for every twentyfour cubic feet would require thirty-three barrels. Then the gables would probably require another barrel or two. If the walls were to be supported or the granary divided so that there would not be a full pressure at the middle, the thickness could be reduced. In any case it would be better to make the walls thicker at the bottom than at the top, say from twelve to sixteen at the ground and six to eight at the top. The foundation should be laid on firm ground or below the line of severe frost and should be considerably thicker than the walls above ground. In our calculations we have not allowed for foundations, not knowing how deep this would be.

If rock cement were used it would require from one third to one half more, but the price is less. The sand used should be clean and free from clay, the stone hard and clean and the concrete well mixed.

Mixing should be done on a flat, water-tight platform in the following manner: Measure the sand and spread it in a layer of even depth. Place the cement on top and turn with shovel at least three times, or until the two are thoroughly mixed, as shown by uniform color. Stone (thoroughly wet) should then be thrown on top of the whole and turned at least three times, water being added on the second turning, the quantity varying according to the nature of the work. In general, sufficient water should be used to give a "mushy" mixture just too soft to bear the weight of a man when in place. Concrete mixing machines should be used on large jobs as a matter of econ-Water should be added to the mixture of stone, sand and cement, a little at a time, until the proper constituency is reached. A sprinkling pot is handy for adding water, as it does unless you are an experienced hand, all one-cylinder engineers you are an experienced hand, sh way the cement. Do not use a

Double Your Dairying Profits Without Buying A Cow

CUPPOSE somebody offered to swap a ribbon, prize-winning milker for any cow in your dairy-herd, — without a cent to boot? Wouldn't you jump at the chance?

I will do as well as that for you. I will show you how to get as much real money out of an ordinary herd of dairy cows as you'd get by your present methods out of a herd of prize-milkers. I will prove to you there's twice the money in dairyfarming you've been getting, — and you needn't spend any money to get the difference. I will do this just as soon as you write me and say: "I keep so many cows. I get such-and-such a price for my milk-or creamor butter" (whichever end of the dairy business you follow)

I am not setting any traps for your dollars or your brains. The more skeptical you are, the harder I'll convince you. The best friends I've got among my customers are the men who didn't believe any cream separator amounted to much.

apital

They found out different after they got a Capital Separator and put it to work getting back the money they'd been feeding the pigs and vealing the calves. They found out that the Capital Separator adds over thirty dollars a year to the actual net earnings of every cow they keep. So will you find that out, if you'll write to me and ask for the plain truth about this whole separator idea.

Thirty dollars a year more profits out of every cow you keep for profit's sake, -whether you keep four cows or forty! That is what I promise you. That is what the Capital Separator will get for you-and it is the only thing that will get it. Yes, indeed, I CAN prove it, right up to the handle. Ask me and see.

And I will not only show you why and where and how the Capital gets that extra profit for you, but-I will show you in plain words how you can make that profit with a fraction of the work you have to do to-day to get half as much. That is where my plan for SELLING butter and cream comes in, -my plan specially devised for your special case and your special locality, and

which you can work yourself without sharing the profits with anybody.

Maybe you don't need the plan; but I know you do need the separator, and I can prove to you why and where and how you need it, and what it will pay

you if you get it.

Half the work you have to do now to make any money out of dairy-farming,
—that's another thing the Capital
Separator means to you. Half the
work, every day in the week; and thirty dollars more a year from every cow.

Half the work,—much less than half the work, maybe, but half at least,—simply because the Capital Separator is the machine that runs with the least elbow-grease and makes by far the least work for everybody who has anything to do with the dairy side of your farm. That's due to three things: the Capital bowl, the Capital gears and the Capital really-low-down whole-milk tank. tank.

The Capital bowl gets all the cream possible out of the milk because it is the bowl that weighs least of any and sends the milk through a wing-cylinder that simply can't let any cream stay in the skim milk. The Capital bowl is as easy to clean as a lamp-chimney—doesn t take five minutes to cleanse it perfectly.

The Capital gears run so easily that a ten-year-old boy can handle the milk of eight cows in twenty minutes, and not be out of breath when the run is over. The mechanism is so perfectly balanced, so nearly automatic, that the whole work of perfect cream separating, twice a day, won't use up as much energy as it takes to carry a bucket of water fifty

The Capital whole-milk tank is the only really low-down tank there is— because it's just as low-down as a tank can be put,-it stands on the floor! That one thing does away with more waste effort, banishes more bother, abolishes more muss and slop, than you'll ever think possible until you've seen and used the Capital.



But all these things, and many more, are things you ought to know about in detail. I can't tell you about them here,—no room to. But if you will simply write to me and ask for the facts, I will show you why the Capital Separator is the one thing your farm needs right NOW,—and I will show you that you CAN afford to get it right now. Doesn't matter if money's a little tight with you,—I can fix it so the Capital will buy itself before you have to pay a cent for it. Write to me and hear the whole story,-it's worth



National Manufacturing Co., Limited 52 Mail and Empire Building, TORONTO, ONT.

It Pays to Advertise in THE FARMER'S ADVOCATE.

recautions s, such a

WANTS & FOR SALE

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

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

FOX AND MINK Trappers—I teach you eight secrets free. No fake. I buy the furs at highest prices. Enclose stamp. E. W. Douglass, Box 44, Stanley, N. B. 28-2 tf

POTATOES FOR SALE—Vicks Early and Six Weeks, two of the best varieties of early potatoes grown. Price \$1.00 per bus., sacks 10c. Also Red Pyte seed wheat. J. T. McFee, Headingly, More seed wheat. McFee, Headingly, Man.

WANTED—Ladies in rural districts desirous of engaging in profitable business will do well to write the Robinson Corset & Costume Co., of London, Ont.

Saskatchewan and Alberta. Some excellent propositions in improved farms with small cash payment, balance in half crop. Write for particulars to Western Canada Real Estate and Business Agency, Souris, Man. 1-5

year-old Kentucky Saddlebred Stallions registered, black, bay, and chestnuts. D. P. Woodruff, Caldwell, Alta. 8-5

FOR SALE—Bees from Moore's famous honey gathering strain. Edmund J. Berry, Brome, Que.

BEES—Italian bees for sale, order now. Jno Houston, M.D., Starbuck, Man. 8-8

from Foxwarren. 480 acres, 140 under cultivation, farm well fenced, creek runs through farm, can put up from 40 to 60 tons of hay yearly. Good frame house, barn 30x60 feet with stone basement. Granaries frame, holds 5,000 bushels. Apply to H. S. Rochett, Boxwarren.

FOR SALE,—Three puppies two and three dollars each; also one cattle dog, 9 months, good heeler, eight dollars; pair Golden Wyandottes, three dollars; two Buff Rocks, four dollars; pair Embden geese, five dollars; pigeons, canaries, etc. A. Guilbert, Letellier.

FOR SALE.—Single Comb Brown Leghorns, Third prize cock at Edmonton, he is a beauty, almost ideal but his comb was slightly frosted; price \$8.00. Also a cockerel, beautiful shape and color and standard comb.—\$10.00. Cockerels common stock of good quality, all the way from \$1.50 to \$5.00. each. Satisfaction guaranteed. Eggs from my Edmonton prize winners, including the first cockerel and first pullet, \$8.00 per setting, and from general stock headed by high scoring males, \$2.00 per setting or \$10.00 per 120 eggs. H. A. Samis, Olds, Alberta. Box12.

FOR SALE—Uruguayan potato (Solanum com mersoni violet) the new wonder, the finest tuber; it beats them all in productiveness and in quality as can be seen by the reports of the French National Society of Agriculture. They thrive best in wet, marshy land, but they wil do well in any soil and beat any of er kind; three thousand bushels have been raised in one acre; no fiction, just facts. Any quantity will be sent postpaid to any address on receipt of price: One dollar per pound; order now, no better investment. E. Cheyrion, St. Laurent. Man. Agent for Canada.

ON CROP PAYMENTS. 200 deep soil farms for sale on crop payments, these farms are ready for the breaker, and close to Yorkton, Saltcoats, Rokeby and Wallace, Saskatchewan, and Reston, Manitoba; first payment after you sell the first crop. Apply now, James Armstrong, 4 East Richmond street, Toronto. 22-5

RENT FOR TERM, option of purchase, 489 acres, about 200 cultivated, 100 meadow, rest bluff, and scrub. Creek through center. Brick veneered, twelve roomed house. Good buildings, etc., tennis lawn. Quarter section joining, with shack and stable, creek, 25 acres cultivated, rest meadow and pasture. One mile from Austin, C. P. R. Half mile from G. T. P. Apply, Vavasour, Austin, Manitoba. 11-5

FOR SALE-Good half section one mile from elevators and stores; about 90 acres ready for crops. Lots of good hay land and water. A snap for cash; or terms could be arranged for part. J. Millward, Mather, Man. 1-5

FOR SALE—One 10 inch Champion Feed Grinder, second hand, with new plates, re babbitted throughout, \$25.00. Two Jacks, extra strong, for four horses, \$15.00 each. One Grindstone and frame, 18 inches diameter, 2 inches thick, \$6.00. The Manitoba Iron Works, Limited, Winnipeg, Man. 8-5

WANTED—Persons to grow mushrooms for us in their own homes. Waste space in cellar, graden or barn can be made earn \$15 to \$25 per week. Send stamp for illustrated booked and full particulars. Montreal ∑Supply Co. Montreal

POULTRY and EGGS

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

J, R. McRAE, M.D., Neepawa, Man., breeder of Dunston strain White Wyandottes 1-5

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

DR SALE—Choice Indian games, Golden Wyandottes, Buff Orpingtons, Plymouth Rocks. S. Ling, 128 River Ave., Winnipeg

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

BDMESS TOUR 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 Orp. gtons. Eggs \$1.50 per setting. E. J. Cook, Mgr. 26—

FOR SALE-Barred Plymouth Rock and Mam moth Pekin duck eggs for setting. T. E. Bowman, High River, Alta. Box 81.

WHITE WYANDOTTES—A few good cockerels on hand. Also eggs. M. T. Buchanan, St Charles, Man.

H. E. HALL, Headingly, Man. Pure-bred Barre Rock Eggs for sale. \$1.50 for 15. Incubato lots, \$7.00 per 100 eggs. 26-6

BUFF WYANDOTTES—Best winter layers yet produced. That's what counts. Any henelay in summer. Purebred eggs \$1.50 per fifteen. Jas. Sinclair, Box 130, Stonewall,

PEARCE & BAGG, Wawanesa, Man.—Eggs for hatching from the finest layers, Rose Comb Rhode Island Reds and Single Comb White Leghorns, also Toulouse Geese and Mammoth Brouze Turkeys. **编译的编译**

BUFF ORPINGTON Eggs a specialty \$1.50 per setting. McNaughton Bros., Didsbury, Alta 15-5

INCUBATOR lots of eggs for sale at \$10.00 pe 100. Barred and White Plymouth Rocks and Buff Orpingtons. All birds selected from trap nest record laying stock of A. W. Foley Dominion Government Peultry Breeding Station, Rowmanville, Ont. Eggs from choice stock, \$2.00 per setting. Address, Northern Nursery Co, Drawer L, Edmonton, Alta. 29-7

H. E. WABY, Riverside Poultry Farm, Holm field, Man., breeder of imperial S. C. Brown Leghorns which have won more 1st, 2nd and 3rd prizes and specials at all the big shows that any other strain. Write for free egg circula and list of winnings of our heavy laying strains of Leghorns. Amber B. Orpingtons and Ringlet Barred Rocks also Red Polled Cattle 8-4

BARRED AND WHITE ROCKS, White Wyat dottes and Buff Orpingtons. Eggs \$2.00 pesetting; am booking others now, catalog and prize list sent on application. Address: Ole Chief Poultry Yards, Lethbridge, Alta.

JOHN STRACHAN, Crandall, Man., Silver Wyan dottes, farm raised, only breed kept. Stock for sale. Eggs \$2.00 per setting. 8-PORTAGE POULTRY YARDS-Ringlet Barred

Rocks and Single Comb Rhode Island Reds, Eggs \$2 per 15. Joseph Campbell, Portage la Prairie, Box 281.

WHITE WYANDOTTES, White Rocks, Black Minorcas. Eggs \$1.50 for 15. Mammoth Bronze Turkeys, great laying strain. Eggs \$2,00 for 10. J. B. Gamble, Lemberg, Sask. 29-5 EGGS FOR HATCHING-From two of the best American strains \$1.50 for 15, \$2.50 for 30, \$6.00 for 100. Mrs. J. T. McFee, Senior, Headingly, Man.

BARRED ROCKS exclusively. Eggs \$1.00 per thirteen, \$5.00 per hundred from utility stock. \$2 per thirteen. \$10 per hundred from fancy stock. All breeding stock selected for laying by Hogan system. Ship C. P. R. or C. N. R. Mrs. A. Cooper, Treesbank, Man. 15-5

Mrs. A. Cooper, Treesbank, Main.

ELMER SELLER, proprietor Last Mountain
Valley Poultry Farm, Strassburg, Sask.;
Harry Latta, Manager. Breeders of Buff
Orpingtons exclusively. Our pens contain
some noted prize winners from Canada and
the United States; eggs, \$2.00 per 13, \$8.00
per 100. Satisfaction guaranteed.

22-5

THOMAS COMMON, Hazel Cliffe, Sask.—Eggs for hatching from Prize Winning White Plymouth Rock. \$3 sitting Barred Rocks, \$2 general purpose, \$1 sitting, \$1.75 two, \$5 hundred eggs.

HATCHING EGGS—Buff Orpingtons, Barred P. Rocks. My pens contain A 1 imported stock and prize winners. Eggs \$2.00 per 13; \$12.00 per 100. S. A. Tucker, Pincher Creek Poultry Yards.

WHITE PLYMOUTH ROCKS.—Fishels strain direct. A few cockerels for sale, price \$2.50.
G. E. Cox, Manage Riverby Gardens, Box 113, 1-5 branded H2 over ye Brow Hall, see the strain branded H2 over ye Brow Hall, see the strain direct.

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.

"PRIDE OF MANITOBA"-Rhode Island Reds and Red Rocks. "Greatest laying combina-tion on earth." "Bred for Western climate," Catalog free—Maple Leaf Yards, Oakville, Man.

EGGS FOR SALE from E. B. Thompson strain Barred Plymouth Rocks. Choice matings, \$1.50 per 15. Utility stock \$5.00 per 100. Mrs. Jas. McFee, Jr., Headingly, Manitoba. 22-5

Breeders' **Directory**

Breeders name, post-office adress, 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 then there line. more than three lines.

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

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

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

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

GUS. WIGHT, Napinka, Man.—Clydesdales an Shorthorns 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 York shires, Barred and white Rock Fewl and Toblouse geese.

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

CLYDESDALES, Shorthorns and Tamworthe T. E. M. Banting & Sons, Banting, Mar Phone \$5, Wawanesa.

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

7. HARDY, Pairview Farm, Reland Man breeder of high class Ayrshires, Yerkshires Black Minorca and White Wyandette poultry SHETLAND PONIES and Hereford Cattle, fines in Canada. Write or come and see them

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

R. A. & J. A. WATT, Salem, Blora Station, G. and C. I. R. R. — Champion herd at Torcat. and New York State fairs, 1985, also Grant Champion females, including both Senior and Junior Honors at both fairs. Write you

BROWNE BROS., Ellisboro, Assa.—Breeders o Polled Angus cattle and Berkshire swine Stock of both for sale.

ASHCROFT, W. H. NESBITT, Roland, Man., Clyde and Hackney mares and Stallions, work horses in car lots, Ayrshires. Our motto, Live and let Live.

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 of best Scotch type.

Lost, Strayed or Impounded

Below is to be found a list of impounded, los and astray stock in Western Canada. In addition to the notices otherwise received, it includes the official list of such animals reported to the Man to the notices otherwise received, it includes the official list of such animals reported to the Man to the notices otherwise received, it includes the official list of such animals reported to the Man to a sakatchewan and Alberta Governments. This department is for the benefit of paid-unsuched to one free insertion of whom is entitled t

GRASSES FOR PASTURES

Which is the best grass to sow for a pasture? Will white or red clover do. well in this country, and how much would you put to the acre? Kilwood. W. E. MABBY.

Ans.—The above question was received before the April 24th number had been mailed, but after reading "Various Opinions on Grass Seeding and Fertility" in that issue our correspondent should be able to form an opinion upon the question.

There is not much doubt but that

brome makes the best pasture grass. but there are so many objections to it that one does not like to recommend It is hard to kill in soils that are rather moist and it soon becomes sodbound. On soils that are heavy and dry out well in the late summer and fall it has been broken and killed quite easily. Its seed is also very light and if the pasture is allowed to grow up and seed, the seed often blows to other fields where it is not wanted We think, however, on the open prairies. farther west in Saskatchewan brome and rye grass would make a good pasture mixture, but in Manitoba and in districts where there is a natural growth of scrub, timothy, rye grass, red top and white clover would be better. In the latter class of soils red clover grows quite readily and even in some of the more upland soils it soon adapts itself if it is persistently sown and the plants that nature selects allowed to continue to grow and seed. The growing of grasses and clovers is just becoming a regular farm practice and many things remain to be learned about the adaptability of different soils for them. Experiences with these crops should be liberally provided for publication, so that each man may the more readily be helped to a solution A his own problems.

ENFORCING LIEN ON COLT.

If K buys a colt 11 months old at a public auction sale, can M sieze colt or compel K to pay for service of horse? READER. Sask

Ans.—The act says that if the stallion is purebred the owner may register a lien on his get within twelve months after the service of the mare (or before the colt is about a month old). This lien holds until the following first of January, after which the owner of the stallion may sieze the colt.

In this case if the stallion were pure-bred and a lien registered within the time allotted, the owner of the stallion would have first claim, but if the colt were advertised to be sold in the regular way at auction sales and the lien were not enforced, we doubt if it could then be used. It should have been enforced when the colt was put up for sale.

DR. BARNADO'S HOME.

Could you kindly give me the address of a Canadian branch of Dr. Barnado's

Ans.—Farley Ave., Toronto.

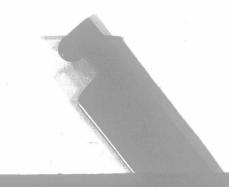
THIS OUGHT TO MAKE A FIELD FOR DISTILLERY PRODUCTS.

If he can steer a clear course between the W. C. T. U. and the Society for the Prevention of Cruelty to Animals, fancier, hopes to achieve a notable success by hatching chickens eggs under drunken turkey hens. Farmer Unrodosed two turkey hens with rve whiskey and under each hen placed twenty-five chicken eggs. The stupefied turkeys remained on the nests and under judiciously applied potations proved steady "setters." In due time forty-eight chicks were hatched. As the chicks hatched the "mothers" were allowed to "sober up," and, though seemingly puzzled over the development, devoted themselves to the care of their broods.

"And why didn't you keep your

house-maid, Frau Roth?"
"Well, she arrived with a sewing

machine, a typewriter, a camera, a portable dark-room, motor bicycle, gramophone, bath, and health exerciser, to say nothing of her trunks. 'That was too L. c. Santh, much for our small house."-Meggen-



STURES.

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E. MABBY.

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A FIELD DUCTS.

rse between Society for to Animals, a notable eggs under rmer Unroye whiskey twenty-five ed turkeys nder judicved steady forty-eight the chicks. allowed to seemingly it, devoted eir broods.

keep your

a sewing era, a portle, gramoriser, to say at was too -MeggenKettle Valley Irrigated

MAY 1, 1907.

Fruit Lands

Company

have large acreage of subdivided fruit lands now for sale. Prices \$100 to \$150 per acre. Ample supply of water for which NO RENT is charged. Soil a rich sandy loan which produces the finest apples, small fruits and vegetables. Valuable local market in surrounding mining towns. Splendid climate and excellent railway facilities. Apply to

W. O. Wright, Managing Director MIDWAY, B. C.

Monuments



FOR PRICES AND BEST WORK WRITE

SOMERVILLE STEAM MARBLE CO., BETWEEN 15th and 16th STREETS, BRANDON, AGENTS WANTED.

London and Lancashire Life

HEAD OFFICE FOR CANADA: MONTREAL

This Company is paying on matured policies the full amount of estimated profits

Liberal Contracts to Suitable Representatives

B. HAL. BROWN, Gen. Mr. Montreal

W R. ALLAN - - - Agent L W HICKS - Branch Manager

want the FARMER'S ADVOCATE AND HOME JOURNAL FREE for one year get two new subscriptions at \$1.50 each.

Tell your friends and

neighbors about it.

GOSSIP

WHEN SPRING OPENED IN FORMER YEARS.

In 1884 the break-up came April 12, plowing began April 17, seeding April 25, trees in leaf May 16.

In 1885, seeding started on April 14, wheat showing green May 10, trees in

In 1886, seeding started April 8, wheat was showing green April 18.

In 1887, seeding began April 4, wheat was showing green May 1.

In 1888, seeding began May 1. In 1889, seeding began March 25, trees began to leaf April 18.

In 1890, seeding began April 4. In 1891, seeding began April 8, wheat quite green on summer-fallow April 24.

In 1892, started plowing April 18, began seeding April 20, a great snow storm April 28, seeding delayed for a week, trees in full leaf June 4.

In 1893, a big blizzard came on April 12, which left drifts of snow many teet deep in places, seeding began May 1, trees in leaf May 24.

In 1894, seeding began April 30. It will be noticed that seeding was late in 1884, 1888, 1893 and 1894. In these years harvesting began on August 22, August 16, August 11 and August 16.

THE MOSSOM BOYD SALE OF PURE-BRED CATTLE AT CALGARY.

We especially urge those of our readers who are interested in Hereford and Polled Angus Cattle not to overlook the large auction sale of these breeds to be held at the Alberta Stock Yards, Calgary, on May the ninth. We have received from Mossom Boyd Company, Bobcaygeon, Ontario, a catalog of their consignment to this sale, including thirty bulls and a number of young cows. If the cattle are equal to their breeding (and we are assured that they are) this is an exceptionally choice offering, and no one need go abroad to import herd headers when such rich blood can be purchased right

here in our own province.

The first bull in the catalog is the three-year-old March On 73rd 169208, by the great March On 76035 and out of W. S. Van Natta's fine cow Clare 79353. The three top sires of this pedigree are March On 76035, Eureka 58549 and Fowler 12899. Noted sires appearing at the tops of other pedigrees in this catalog are Valentine 46544, Garfield 4th 32195, Earl of Shadeland 41st 33378, Cherry Boy 26495, Anxiety 3rd 4466, Klondyke 79197, Beau Donald 36932, The Grove 3rd 2490, Lord Wilton 4057, Christopher 69172, etc., etc. All these great sires appear directly in the three top crosses of the dams and are not brought in by the new method of tabulating. There are of bulls in all two three-year-olds, twelve two-yearolds and sixteen yearlings. These bulls should be as good as their breeding calls for, seeing that they are the selected best out of 75 bulls and come from a herd containing over 400 head of the choicest Herefords to be found in America. The cows are mostly your g carrying their second or third calves.

The Polled Angus offering includes all of the herd of C. D. Jermyn, of Cold Banks. Alberta.

A most successful sale of Shorthorns was held on April 8th at Minneapolis, when H. F. Brown of Browndale disposed of 38 head, 31 females and seven bulls, for an average of \$317.70. The top price of the sale was made by Lady Winifred 3rd with bull calf at foot by Whitehall count, being \$1,025.

American breeders lovally patronized the sale held at Waukesha, Wis., by F. W. Harding on April 10th. Prices for females were most encouraging and Whitehall Sultan bulls were in good demand. Several females by Marquis of Zenda, bred at Senator Edward's farm, Rockland, Ont., were in the sale and brought big averages. 40 females averaged \$364, the top being \$1075 for Lucy of Pine Grove, by Missie Champion.

The Importance of Regular Habits

The welfare of the body depends upon how regularly the stomach, liver, kidneys and bowels perform their respective duties. Carelessness or delay in attending to Nature's demands, brings on disorders, which, sooner or later, have a bad effect on the general

Sluggish bowels, inactive liver, retarded digestion are important matters calling for immediate attention.

are a proven remedy. They possess corrective properties which act favorably upon the several organs and induce free and regular movements, so very essential to the bodily health. Do not fail to give instant attention to the calls of Nature. Neglect invites disease. Beecham's Pills are the old and reliable safeguard of health and can always be depended upon to

Keep Stomach, Liver and Bowels in Good order

25c, with full directions.



Wheat Oats Barley Flax

Frank.G.Simpson A.T. Hepworth.

GRAIN GROWERS' INTERESTS—OUR INTERESTS.

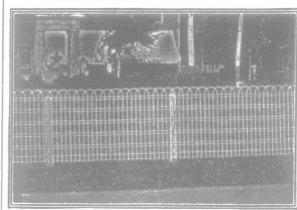
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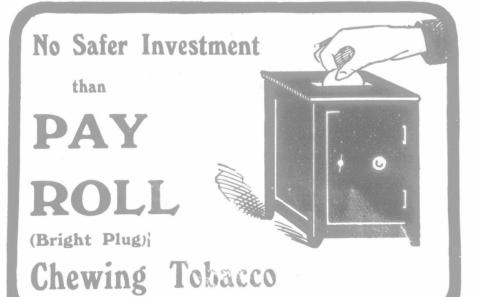
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HORSE BREEDING HINTS.

A reader requests that we republish the article which appeared in our columns about a year ago on the above subject:

FOALING.

First sign is waxing of teats two or three days before. Udder becomes full and hard; position

of foal alters. Abdomen becomes more pendant,

and points of hips fall. Wax drops off and gives way to milk.

Mare looks anxious and moves around

Looks round at her flanks; gets up and down with care. Breaks into perspiration; ultimately

lies down when labor comes on. In ordinary course foal is born in ten to fifteen minutes.

When mares foal standing there is great risk with the foal. Mares are most anxious to foal

If there is any difficulty, assistance must be given.

It must be carefully given, and force avoided.

First see the tore legs are straight and equal in the passage, with head between them.

When head and elbows have passed through, the rest of the body comes quickly.

When foal is born, remove envelope and nostrils.

The umbilical cord should be tied and cut two inches from belly of foal. Tie with carbolized ligature and then cut, and apply diluted carbolic acid or other disinfectant to end of navel

When properly done there should never be an enlarged navel. The mare sometimes licks it till it is

severed; this, no doubt, is nature's way THE FOAL AFTER BIRTH.

Mare should be allowed to lie down until she gets up herself.

The foal should be taken round to her head, when she it will commence to lick it. This does the foal and brings on circulation.

The foal then struggles to get up. This should not be interfered with unless in danger against wall, etc., as it expands the lungs and exercises the muscles.

The foal should not be litted to its

legs.
It should not be forced to suck until it is able; it is well able to wait for an hour or so. When able to stand it may be sup-

ported beside the mare, and its head directed, but never forced, to suck. A little milk drawn into the hand when nose is close to udder, will often

induce it to suck. It is most important the foal should

get the first milk itself. When teats are small and difficult

for foal to get hold of, it should be carefully guided to udder. When mares are irritable or vicious they should be held or tied up, fore foot held up, or even twitch put on, until foal has confidence and mare

allows it to suck freely. If foal's bowels do not act within an hour after birth, remove contents of rectum with the finger, on which a little oil or vaseline is smeared; rubbing with

soap is also good. THE MARE AFTER FOALING.

Give mare a nice warm mash of bran, or a warm drink, but avoid flour drinks. The afterbirth usually comes away in half an hour to two hours; when

mares foal before their time it is longer. It should not be forced or pulled away unless it remains too long; then a veterinary surgeon should be employed. Mares should be kept in at least three

days after foaling. Should not be let out when grass is wet, as foal may lie down and get a cold.

A mare when let out with foal frequently gallops about until foal is heated; it then lies down exhausted and gets a chill, which turns to inflammation of the lungs or wints. This should be watched and precented.

When there is two such wilk for foal, and which becomes would and

hard, mare should be rulled twice per



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Why Not Buy the Best?

ROBSON

Is the Cream of the

KOOTENAY

ROBSON is one of the very few districts in the Kootenay where you have Rail and Steamer transportation, Telephone and Telegraph, Post Office, with daily mail service. Saw Mill and Brick yard. Plans are now under way for the erection of a church and school house.

Have you see our new Robson map showing sub-division of 3500 acres? Let us send you a copy of it with our illustrated booklet. They are free.

McDermid & McHardy NELSON, B.C.

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IF WOMEN **ONLY KNÉW**

MAY 1, 1907

Thousands of women suffer untold miser les every day with aching backs that really have no business to ache. A woman's bach wasn't made so ache. Under ordinary conditions is sught to be strong and ready to help her bear the burdens of life.

It is hard to do housework with an aching back. Hours of misery at leisure or at work. If women only knew the cause. Backache comes from sick kidneys, and what a lot of trouble sick kidneys cause in the world.

But they can't help it. If more work is put on them than they can stand it's not to be wondered that they get out of order. Backache is simply their cry for help.

DOAN'S KIDNEY PILLS

will help you. They're helping sick, overworked kidneys—all over the world making them strong, healthy and vigorous. Mrs. P. Ryan, Douglas, Ont., writes: "For ever five months I was troubled with lame back and was unable to move without help. I tried all kinds of plasters and timiments but they were no use. At last I beard tell of Doan's Kidney Pills and after I had used three-quarters of the box my back was as strong and well as ever."

Price 50 cents per box or three boxes for \$1.25, all dealers or The Doan Kidney Pill Co., Toronto, Ont.

> The health of the Country depends upon the purity of food and drink.

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200 different lots, from 5 to 200 acres, for sale on Kootenay Lake, Kootenay River and Arrow Lakes—the finest fruit district in British Columbia. BUY NOW when you can get on the ground floor. Prices range from

\$15 to \$100 per acre

Your Money will Double in Two Years Write for Particulars

J. E. ANNABLE, Nelson, B.C.

thrice a day until foal is able to take

SERVICE AFTER FOALING.

The ninth day is the usual time. This, however, varies—sometimes it is the eighth, while others go to the enth or eleventh day.

If not in use, horse should not be orced on her simply because it is the

If horse is not taken then, she will run to the twenty-first day. Many never get in foal till the twenty-first

If forced on the ninth day they often prove barren.

The fifteenth day is not of much consequence—it is often the ninth day not passed off.

The twenty-first day is the most important day, both as a trial day and as a service day

Mares in good health, having had an easy foaling, if served on the ninth day, may be considered in foal if they successfully pass the twenty-first day.

With delicate mares, or those which have had severe or difficult foaling, the twenty-first day is the proper one as the generative organs have had time to recover tone.

Mares not stinted on the ninth day usually come well in season on the twenty-first day, and stand to their

It is important to try young mares on their twenty-fifth days.

The thirty-fifth is the next important day on which mares should always be tried. If the mare passes the thirtyfirst day it is a strong indication that she is in foal.

She should however, be tried again on the forty-second day. If a mare passes this successfully she may be considered safe in foal.

Many mares break at sixty days, in which casetthe first service has generally been cast

To summarize, the chief days for service after foaling are the ninth, twenty-first, twenty-fifth, thirty-first, forty-second and sixtieth.

TIME MARE IS IN USE.

The natural period is four days, but many not so much. Some only remain in season one day, and should be closely watched.

It is a great mistake to send mares a long way to the horse, especially in May or June, when days are hot, and then another long journey home.

If driven off heated and excited,

when in relaxed condition, the service probably passes away and the mare is barren

Absolute quietness after mares are covered is most essential to allow the parts to restore themselves and assist in the due closing of the uterus and its

appendages. The sober, steady horse is the most

successful sire. Twitching should be done as little It is not reasonable that service should stand when mares are suffering such pain as severe twitching must produce.

Lastly, all mares should be properly hobbled.—Dr. Pallin's prize essay on horse breeding.

A FEATHERED PROPHET.

"Women that whistle, hens that crow"—the good people of Devon are not inclined to treat with much deference. In fact the saying exhorts the listener to decapitate them at once and void disaster.

Mr. Smithurst, of Tennyson Road, now believes firmly in that saying and he attributes to his prompt action the fact that the greater evil did not befall He also considers that had he fulfilled the injunction more closely he might have altogether averted the evil. All of which is anticipating.

Mr. Smithurst keeps hens. He has a number of them. Plain, ordinary, "garden" fowl, content to take life's routine calmly and discharge their duties with faithfulness and dispatch. they did not meddle with the future But every Eden has its apple tree and hens as well as humans will boldly rush into calamity. From a batch of chickens hatched some months ago came the interloper.

Perhaps a trace of that prescience which characterized the sacred chickens from whose entrails the augurs

If you are Deaf--Read This

The Accidental Discovery of an Electrical Engineer, Which Restored His Lost Hearing.

completely restored.

every deaf person, life devices.

trumpet, and had tried every device known; had almost constantly been under medical treatment in the vain effort Drums have benefited by them.

Way, Inventor

That "Truth is stranger than fiction" is most and Mr. Way bounded across the room terror That "Truth is stranger than fiction" is most forcibly illustrated in the case of Mr. Geo. P. Way, for many years the electrical engineer of the Detroit Y. M. C. A., in the accidental discovery he made of a scientific principle, through the application of which his lost hearing was completely restored.

Page 25 years Mr. Way bounded across the room terror stricken. Unconsciously he pulled the trut of the silence that had enveloped him for years. The sound of the machinery came to him as far away. Then he realized the truth—he had found a scientific principle which would give him back his hearing. For five years he experimented For 25 years Mr. Way constantly to put his accidental discovery to was a deaf man unable to hear his wife's voice across the human ear from every standpoint. At last the table, unable to enjoy an active part in social life. For him, as for was overwhelmed with requests for the little

the roar of his engines which his wonderful ear drums bring to those and dynamos. For ten who suffer from impaired hearing and deafness years he carried an ear Thousands of the drums have been sold in every part of the world, as one pair of the drums in any locality produces many other sales. Nine persons

under medical treatment in the vain effort to get back his hearing. To-day he hears perfectly, yet when he removes two tiny devices from his ears, he is quite as badly off as before—he is again deaf. The story of his discovery, which restored his hearing, is remarkable.

As Mr. Way tells it, he was at his post in the dynamo room one day, and as the buzzing in his ears bothered him more than usual, he placed a curiously shaped tuft of waste in his right ear. Immediately in the midst of the silence that is the misery of one shut off from the sounds of the busy world, there came a crashing sound,

My New Importation of

CLYDESDALES & HACKNEYS



Has just arrived at my stables. I want to point out to the breed ers of Manitoba, Saskatehewan, Alberta and British Columbia, that without doubt I have the best consignment of Clydesdales and Hackneys that I have ever handled. My Clydesdales consist of stallions aged 2, 3, 4 and 5 years. Fillies aged 1, 2 and 2 years Hackneys are 2, 4 and 5 years old. Many of them were prise-winners this year and last in some of the leading shows in Scotland and England. Parties wishing anything in my line will save money by seeing my stock and getting prices before buying elsewhere.

THOS. MERCER, Markdale, Ont.

The Bow River Horse Ranch has for Sale

Two and three-year-old Registered Clyde Stallions. Registered Clyde Mares, 1,600 and 1,700 lbs. heavy in foal. Grade Clyde Mares, 1,400 and 1,500 lbs., 4 and 5 years old, heavy in foal, sound and gentle, at \$500 per team. Grade Clyde Geldings, 3 and 4 years old, 1,200 to 1,300 lbs. Everything sound, halter broken and gentle, and the mares in foal to registered prize winners.

Two car-loads of well-bred 1,100 lbs. mares, mostly in [foal to a French Coach stallion.

High-class drivers and saddle horses a specialty.

Prices reasonable. Prospective buyers met at Cochrane. G. E. GODDARD Cochrane, Alta.

YDESDALE STALLIONS and MARES Out of a carefully bred and selected lot I am offering a five-year-old

stallion, a three-year-old, a two-year-old, two yearlings, and several mares and fillies. Will sell quick before seeding. Farm (Meadow Lawn) convenient to Regina. Full details given on application. Address

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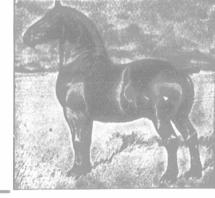
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Breeder and Importer of Percheron and Hackney Horses

Percheron stud headed by Berenger, winner of first prize at three years old at Paris, France,

My*new importations are now in their new quarters on farm. They are a very choice lot and doing finely and are all for sale at reasonable*prices.

Every horse sold under a warranty. Terms easy. Correspondence solicited; Barns ½ mile



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Your hens will lay all the year round, if you will give them Smith's Ovary Tonic

One teaspoonful to four fowls keeps hens healthy - strengthens and invigorates the egg-producing organs—and renews wasted tissue due to prolific laying.

Only 25c. and 50c. a bottle. Sold by druggists, grocers, etc.

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warned their clients of the future, came down through the long ages to this hen. Or perhaps from its Cochin China stock it had derived something of the mysticism of the East and a consequent insight into events to come. Mr. Smithurst will not hazard a guess. But he will take his word on one thing. This hen crowed.

It happened when Mr. Smithurst was at breakfast. Calmly upon his ear impinged a clarion note worthy of any chanticleer. He looked out. Before his very eyes the hen lifted up its voice and crowed a second time.

With Mr. Smithurst to see and hear was to act. He seized his rifle from its roost, and aiming at the wanton pullet, he fired. The bullet, however, was one of those homeless waifs akin to the leaden missiles which Mr. Winkle sent wandering abroad to the alarm of his immortal chief. He fired again. Again he missed. A third shot was more effective. Taking effect, the rash bird's destiny was achieved.

The alarming phenomenon troubled Mr. Smithurst, however, and he waited with apprehension the fulfilment of the prophecy. Sure enough, the next morning came tidings that the morning before, just after the bird had given its message his wife then visiting in its message, his wife, then visiting in Metchosin, had been thrown from a hired rig. While with her friend, she escaped injury, over \$100 worth of damage was done to the conveyance.

Few will be rash enough to sneer at the sayings of Devon. When youthear a hen crow, chop. -Ex.

THE SOUNDNESS OF HACKNEYS.

The exceptional soundness of the breed may be judged by the following table. At the London Hackney Shows from 1890 to 1906 inclusive, 5,827 stallions, mares and geldings have been thoroughly examined by the veterinary inspectors; and of this number 5,542 have been passed as sound, only 285 being rejected, the larger proportion of these being horses entered in the half-bred and harness classes. The examination is a most stringent one, and the inspectors appointed are the most capable in the profession. It should be mentioned that since the 1896 show every animal present in the show has been submitted to the

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THE SPRAYING OF MUSTARD IN GRAIN FIELDS.

Professor Winter, of the University 'ollege of North Wales, has sent out a bulletin providing particulars of the results of experiments in the spraving of mustard in North Wales. These experiments, he remarks, are productive of good results, although the rate of progress is slow. Each succeeding year witnesses more spraying, and he hopes in time to see the practice become general in mustard-infected land in North Wales. Farmers, he thinks, are not likely to buy large machines for the purpose, the cost of which ranges from £5 to £8 each (825 to 840). considerable area of mustard-infested land, the outlay is small commensurate with the benefit derived. On smaller farms the "Knapsack" machine, which costs about 30s. (87.50) will cover a considerable area. Moreover, with farmers' co-operative societies become tive purchase can easily be arranged. The solution of sulphate of emper was applied in three different screnerio

The Bear Objects!



make a bear hunt
—and one is the
bear. The hunter
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SIX YEARLING BULLS, fit to head herds. Sired by Nobleman, Meteor and Tepsman's Duke. Also some cracking BULL CALVES by Meteor. Some females (Cows and Heifers) in calf; just the stuff to lay the foundation of a herd with.

NOW IS THE TIME TO BUY

Cattle are going up in price. I shall not hold a sale this year, but parties will have abundant opportunities to buy by private treaty. . . .

CARBERRY - C.P.R. and C.N.R. FAIRVIEW - C.N.R.

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JOHN A. TURNER, BALCREGGAN STOCK FARM, CALGARY P. O. Box 472 Importer and Breeder of Clydesdales. Hackneys, Shorthorns and Strepshire Sheep.

New importation from Scotland has just survived. Scottish Farmer reports—"Altogether this makes up one of the grandest shipments made this eventful year." A large number of excellent males of the above breeds to select from, both home bred and imported. Also a few stallions suitable for range purposes. Quality and breeding of the best. Prices defy competition. No agents or commission men—homess conducted personally. Sales speak for themselves—35 stallions sold last season. Any previousling a show stallion or filly can have a greater choice here than in any other breeding a subjectione.

Orders for stock carefully filled. Visitors all made welcome.

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No matter how old the blemish, how lame the horse, or how many doctors have tried and failed, use

MAY 1, 1907

Fleming's Spavin and Ringbone Paste Use it under our guarantee—your money refunded if it doesn't make the horse go sound. Most cases cured by a single 45-minute application—occasionally two required. Cures Bone Spavin, Ringbone and Sidebone, new and old cases alike. Write for detailed information and a free copy of

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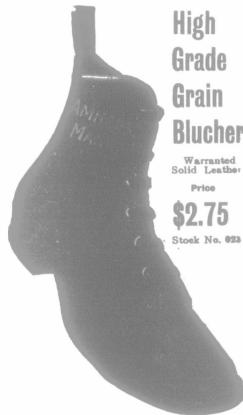
960 acres in Block. $7\frac{1}{2}$ miles from town; all fenced. Running Water and Springs. Good House and Barns. Write for full particulars. This is one of our many good buys.

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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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WINNIPEG BRANCHES North End—Corner Main street and Selkirk avenue F. P. Jarvis, Mgr. Main Office-Cor. McDermot Avenue and Albert

namely, 3, 4, and 5 per cent. solutions, or 15 lbs., 20 lbs., and 25 lbs. of sulphate of copper respectively to 50 gallons of water. The trials last year were carried out in nine different centers, in four different counties. The practical destruction of the weed was accomplished in many cases, and in others 70, 80, and 90 per cent. was destroyed. and in other cases where the grain was tinged, it made a complete recovery On one farm in Flintshire, June spray ing killed about half the plants to three quarters; the remainder were greatly checked, but looked like recovery. Accordingly the July spraying with a 4 per cent. solution was tried, the mustard then getting past the flowering stage, and most of the seed-pods formed A week later every mustard plant was found to be dead and even the oldest seed-pods shrivelled up and killed The grain was slightly brown, but speedily recovered, while the clover and grass seeds were not damaged at all. Summarising the results of the trials, Professor Winter remarks that they confirm in the main those of previous The 3 per cent. solution gave rather better results than usual, owing to the hot, dry season. Having regard to the moist climate of Wales, however, probably a 4 per cent. or 5 per cent. solution will be more effective. Of these experiments, the application of the solution on the young plants was not so effective as when spraying was conducted when the plants were quite matured.

HOW SHIRES STOOD UP UNDER VETERINARY INSPECTION.

At the London Shire Show there were 313 animals submitted to inspection and the following is the list of

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EDUCATION, CULTURAL AND VOCATIONAL.

Principal Robertson of the Macdonald Agricultural College, near Montreal, addressed the Toronto Canadian Club recently on the value of education for culture as contrasted with education for a vocation. All thoughtful teachers will agree with him in the opinion standpoint, is more important than progress from the materialistic standpoint, and that increased satisfaction in living is more than increased wealth in land and buildings and manufac-tures. Unfortunately it is not easy to induce people to accept this view and act on it in practice. They persist in asking with regard to each subject of the school course of study what it is good for, and if there is no revenue to be obtained by its application to some industrial pursuit they have no more use or toleration for it.

This is, of course, in strict keeping with the general tendancy of the times. To make money is apparently the first duty of man, and the second is to make as much display with it as possible. Materialism brings its own penalty in the form of vulgarization. The man who thinks of nothing but making money will ultimately find himself unable to give attention to or take pleasure in any other occupation. Rational recreation becomes for him an impossibility, because, being no longer able to take interest in anything except what costs or produces money he is compelled by necessity to think only of that. Even the too ardent and persistent pursuit of science, as such, tends to crush and starve the emotional side of human nature. Charles Darwin says he was fond of literature in his youth, but he lost all liking for it as he grew older, and would at last take no interest in anything but physical science.

In education the term "culture" is N. G. Leslie, Mgr. used of both the intellect and the emo-

Gombault's Caustic Balsam

The Worlds Greatest and Surest **Neterinary Remedy (** HAS IMITATORS BUT NO COMPETITORS I

SAFE, SPEEDY AND POSITIVE.

Supersedes All Cautery or Firing. Invaluable as a CURE for

FOUNDER. WIND PUFFS, THRUSH, DIPHTHÉRIA, SKIN DISEASÉS, RINGBONE, PINK EYE, SWEENY, BONY TUMORS, LAMENESS FROM SPAVIN, QUARTER CRACKS, SCRATCHES, POLL EVIL,

PARASITES REMOVES BUNCHES or BLEMISHES. SPLINTS. CAPPED HOCK

STRAINED TENDONS. SAFE FOR ANYONE TO USE.

THE BEST FOR BLISTERING. I have used GOMBAULT'S CAUSTIC BALSAW quite a good deal, and for a blister it's the best I ever used. I wish your remedy every success, CHAS, MOTT, Manager. CHAS. MOTT, Manager., Mayfield Stud Farm, Leesburg, Va.

We guarantee that one tablespoonful of Caustic Balsam will produce more actual results than a whole bottle of any liniment or spavin mixture ever made Every bottle sold is warranted to give satisfaction white for testinolials showing what the loss problem there men say of it. Price, \$1.50 per bottle, sold by druggists, or sent by express, charges paid, with full directions for its use.

The Accepted Standard VETERINANY REMEDY Always Reliable.



Mone genuine without the signature of the Lawrence, Williams Co. U.S.& OANADAS. CLEVELAND.O.

> CURED CURB WITH TWO APPLICATIONS. Have used your GOMBAULT'S CAUSTIC BAL-SAM to cure curb. I blistered it twice, and there is no sign of it any more. The horse is as good as ever.—DAN SCHWEE, Evergreen, Ill.

Sole Agents for the United States and Canada. The Lawrence-Williams Co. CLEVELAND, OHIO. TORONTO, ONT.

& G. Mutch **Craigie Mains** LUMSDEN, SASK.

Importers and Breeders of Clydesdale Horses and Shorthorn Cattle. A new importation of young Clydesdale Stallions from Scotland now on the way; should land here about March 15th. This will be one of the best importations we have yet made, consisting of good, large, thick, quality horses. We buy and sell our own horses, by this means saving to our customers all high commissions and expenses. They will, also be They will also be commissions and expenses. sold on a small margin above cost.

Shorthorns, Young Bulls, Cows and Heifers from the best families



10,000 Well-Bred Cattle For Sale

Owing to the curtailment of their range by settlement, the New Walrond Ranche Company, Livingston, Alberta, intends to offer during the coming summer their entire herd of shorthorn, Hereford and Galloway Cattle for sale.

Owing to the winter feeding and careful handling these cattle are semi-domestic, the young heifers are easily made gentle. For settlers they are the most desirable imaginable, being absolutely free from tuberculosis and other diseases common among dairy breeds, and while they are high-class beef cattle, they yield a large quantity of

When necessary to car them, neighbors should combine so as to purchase a train-load, say 300 to 400, smaller numbers cannot be handled profitably.

Bulls will also be diposed of.

For particulars apply to

THE LOCAL MANAGER

NEW WALROND RANCHE CO. LTD.

Livingston P. O., Alberta

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Percherons and Shires

Do you want to improve your stock of horses P

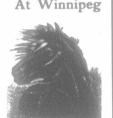
Then buy a first-class Stallion. We have them.

Don't take my word for it but look up my prize record

At Brandon winter fair I took 1st, 2nd and Championship. At Neepawa a horse sold from my barn took first. At Winnipeg Industrial I took 5 firsts on individuals; I also won the 3 gold medals offered by the Percheron Society of America, on my group of stallions, the Championship mare and 3-year-old stallion. These are for sale and at reasonable prices. Write or call on

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GLYDESDALE LLIONS and

of the highest merit and choicest breeding at lower prices than all competitors.

New Shipment just arrived containing several sons of the noted Baron's Pride

A few choice Suffolks, Percherons and Hackneys on hand EVERY ANIMAL GUARANTEED. WRITE FOR PARTICULARS. 26 YEARS in the front rank of importers.

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(Box 483)

"PILGRIM"
"BURNBRAB," who won 1st at Pan-

American "BURNBRAE"

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Clydesdale, Percheron and Hackney Stallions

THE MOST FASHIONABLE STRAINS OF BREEDING ALWAYS ON HAND

At Brandon Fair, 1906, we had three Stallions, sold by this firm, in the Aged Class. Cairnhill, the Champion, was 1st and Champion. We also won 1st in the Three Year Old Class. The following list of prizes will speak for themselves:

"CAIRNHILL" (11292)
"TOPPER" (imp.) "CAIRNHILL" (11292) "PLEASANT PRINCE ST. CHRISTOPHER, who won let at Chicago International Stock Show in class of 10, in 1900

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Inspection invited. Correspondence solicited.

tions, and in each connection it is worthy of the educationist's most careful attention. Intellectual culture is much more dependent on the method of dealing with a subject than on the nature of the subject itself. Fortunately it matters comparatively little, so far as discipline of the mind is concerned, whether one is learning a language or becoming acquainted with a science, provided he deals with each in the way of discovery through research. The habit of observation lays the ground-work of all intellectual culture worthy of the name, and it matters very little whether the observed facts are linguistic or physical; either sort lend themselves to analysis, comparison, and generalization, the processes which enable us from observed facts to arrive at sound conclusions.

Equally important is the culture of the emotional nature by the use of literature or art, but especially by the former. People will read after they leave school, and it would be of great advantage to them to acquire the habit of selecting the best literature and of making the most out of it by appropriate methods of study. Education which aims merely at storing the mind with useful knowledge will do little in the way of preparing a man to spend his leisure time profitably, when he has any to spend in recreation. In the words of Mr. Robertson, "the ideals of school training should broaden out to include all the energies and faculties of the boy." Clean living, self-sacrifice, good citizenship, are subjects that need a larger place in school curricu-lum.—Globe.

THE ATTEMPT TO CONTROL MAR-KET PRICES.

The exemplification of this idea is the basis of the Society of Equity, and is a subject on which all men do not agree. Equity enthusiasts question the wisdom of aiding farmers to produce larger crops without devising means to improve prices; in fact have complained that agricultural papers do not tell the farmers how to market their stuff to make a living profit. One of these men taxed that well known Iowa agricultural authority, Uncle Henry Wallace, and got the following

"It is true that the marketing of crops is quite as important as the growing of them; for the farmer is not working for bushels of grain or pounds of meat, but for dollars. That man never lived, however, who is competent to say to farmers definitely just when and how to market their crops. That is a question which each farmer must determine for himself, and on account of the different circumstances under which the farmer is placed and the difference in the capacity of different farmers, the answer must be different

under these different conditions. 'The situation is this: The farmers of the West are a long distance from the primary markets for their grains and live stock. They are therefore dependent on transportation; and in studying the question, apart from the world's supply and demand, which can never be accurately known by the individual farmer, there are three facts which stare him in the face

"First-All crops, whether of grain or of live stock, cannot be marketed or of live stock, cannot be marketed at the same time. The railroads cannot furnish the cars; and if they could, the bottom would drop out of the market. Hence no man can advise farmers in general as to the best time for marketing their crops. We get the vear's supply of grain during the sumyear's supply of grain during the summer season. Somebody must hold that grain until the consumptive demand, which is from hand to mouth, requires

"Second—But a small percentage of the grain and forage crops of the West can be marketed in the crude form. Less than twenty per cent. of the corn erop of Iowa moves across county lines. Very little of the hay crop which is about half the value of the corn crop and equal to the value of the wheat and oats crop combined, can be sold off the farm. Therefore, it must be marketed not as grain and forage, but as live stock. If it could be marketed as grain, the cry of diminished fertility would be heard from COCKSHUTT PLOW CO., Agents Western Canada

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Infallible guide to horse health 100 page book, free. Symptoms of all diseases and treatment by eminent veterinary, compounder of

Sure cure for curb, colic, splint, recent shoe boils nost horse ailments. \$100. reward for failure where ve say it will cure. Tuttle's American Tuttle's American Worm Powders never fail. Tuttle's amily Ellair, greatest of all household liniments. Write for the book.

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Catalog on application W. H. BRYCE

Doune Lodge Stock Farm Arcola, Sask.

Wanted

1000 farmers who wish to put their horses in good condition; salso 10,000 dairymen who are interested in increasing the quantity and quality, of the milk received from their herd, to write for a special offer of Peel's Stock Food (the old reliable), Peel's Gall MCure, "sel's White Linimiet, Peel's Worm Powder. IT WILL PAY YOU.

The Peel Richards Co., Winnipeg.

FOR SALE The Imported **Suffolk Stallion**

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NEW

tsing three years old. Sire, Warrior 3rd (2845)
Dam, Depper (4695). A handsome, whole
colored, dark chestnut with heavy bone, grand
eet, strong joints, good action, The acme of
strength and quality combined, Sound and all
right and price right, Correspondence solicited

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Trees and cuttings, small fruits, shrubs, creepers

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MAY 1, 1907.

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Shingles the easiest and quickest laid —and also insures the roof being absolutely leak proof. Eastlake Shingles are fire, lightning and rust proof.

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Our cheapest grade will last longer and co-t less than the best wooden shingles. Our best Metallic Shingles hould not be mentioned in the same breath with any other roof cover-ing, shingles, slate or tin. Write us for

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COMPLAINT.

The liver is the largest gland in the body; ft-

office is to take from the blood the properties

which form bile. When the liver is torpid and

inflamed it cannot furnish bile to the bowels

eausing them to become bound and costive. The

symptons are a feeling of fulness or weight is

the right side, and shooting pains in the same

region, pains between the shoulders, yellowness

of the skin and eyes, bowels irregular, coated

MILBURN'S

LAXA-LIVER

are pleasant and easy to take, do not gripe.

weaken or sicken, never fail in their effects, and

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JAS. BRAY, Portage la Prairie

Tamworths, pigs of both

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sexes. Write me,

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all diseases or disorders of the liver.

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If you want reeders that will graze you must have

Select

tongue, bad taste in the morning, etc.

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never fail. Tuttle's iniments. Write for CO., loston, Mass.

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CE k Farm

d put their also 10,000 in increas-of the milk write for a Food (the ure, [sels Powder.

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rn Canada

I publish a real-estate bulletin British giving description and price Columbia's of some of the best farms in Richest the Valley. Send for one (i will be of value to anyons farming interested in this country o looking for a chance to bette District their present conditions) to

T. R. PEARSON NEW WESTMINSTER.

every state in the West, and in twentyfive years the agriculture of the West would be ruined.

'Third-Poor stuff, whether grain or forage or live stock, cannot be marketed at a profit at any time. It is usually only stuff of good quality that brings any profit to the farmer.

Under these conditions what must the farmer do? He seldom makes a profit on a crop that is small in quanity, no matter how good the quality. Therefore, we have been advising farmers not to grow the greatest possible crop that can be grown upon an acre of land, but the crop that can be grown at the greatest profit, and this is always the crop above the average. Merely average crops do not pay much more than the cost of production.

profit is in the big crop of good quality "No man need expect to make a profit on grain, for example, if he is forced to sell at any particular time. There will always be enough men in some part of the country who must sell their crops directly after harvest, and this usually means a price low enough to justify the speculator or investor in holding the crop until it is required for consumption. It is for this reason that we have urged farmers to stack their grain, and thresh and market it when convenient. In this way they have less loss from weather, have a botter quality of grain, and can hold it in the cheapest place that it can be held—on the farm.

"Taking all things into consideration, the best market for grain is in live stock. Yet there are some years when the best market is in crude grain sold to the feeder, but this is always at the expense of the fertility of the land, and therefore of future crops and future profits. It is not, however every man who is competent to market his crops in the way of live stock; for here, again, as in the case of grain, the better class only gives a profitable

"We believe that the man who is competent to do it, and who will do it intelligently, can make more money by marketing his grain in the shape of butter than in any other way. A large number of men can market their crops through hogs more profitably than in any other way; others through horses; others, again, through sleep. As the stars differ from one another in glory, so farmers differ from one another in capacity. They always have done and

always will. "All this, however, is no reason why farmers should not work together for the purpose of finding better markets for their products. They can do this in various ways: By co-operation in establishing creameries to furnish a market for their cream; by co-operation in the breeding of live stock, in ways that we have heretofore by co-operation with their fellow citizens in the different states in securing more just and equitable rates of transportation; by co-operation in selling their live stock at the stock-yards; by availing themselves of every scrap of knowledge obtainable with reference to the supply and demand.

"In short, there is no patent way of marketing crops either in the crude form or condensed. The way that suits one man does not suit another, and every man must work out the

NEEPAWA STOCK FARM FOR SALE-Shorthorns, combining milk and co-operation in the sale of their live beef, and prize winning stock in the great markets. They are learning how to produce a better quality of grain, and they are getting more forehanded, so as to be able to hold it in the cheapest way possible.

"Any man wise enough to advise farmers of the particular time and the IN LOWER FRASER VALLEY particular method of profitably disposng of their crops could be rich beyond the dreams of avarice in three or four years, not by advising them, but by speculating for himself. To qualify nim for this he must have an accurate knowledge of the crop production of the entire civilized world, of the consumptive capacity, of the drift of speculation, and of political movements present and future. He would have BRITISH COLUMBIA to be an encyclopedia of universal THE

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Do you want to grow CATTLE that go to market early, that make the BEST use of their sed, and so leave the largest PROFIT to the seder? Then use Hereford Blood, Usefuroung stock offered the trade. Herd headed by ampson 1st. Get my quotations.

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"CALIFORNIA STOCKMEN'S FAVORITE" ad our booklet on Blackleg and Anthrax 'REE to each stockman who sends the sames and addresses of 20 cattle-raisers. f you do not want Vaccine, send us you tame and address on a post card and we will promptly send the booklet. It is upo-date, valuable and interesting. Men-ion this paper. Address

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Saskatchewan Valley Stock Farm.

Largest Herd of Pure Bred SHORTHORNS in northern Sas-katchewan Wianers of Imperial Bank Cup. Best hard any breed 1904, 1905 and 1906. Farm adjoins city

Stock for Sale R. S. COOK, Prince Albert, Proprietor.

Sittyton Shorthorns The Champion Herd at Regina and Calgary, 1906. At present all my bulls are sold but I can supply a number of first-class females of all ages and of most approved breeding. My old stock bull, Sittyton Hero 7th, has left a good mark. Get my prices for females before closing elsewhere. GEO. KINNON, COTTONWOOD, Sask.
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Fleming's Lump Jaw Cure and it remains today the standard treatment, with years of success back of it, knews to be a cure and guaranteed to cure. Don't experiment with substitutes or imitations. Use it, no matter how old or bad the case or what else you may have tried—your money back if Flessing* Lump Jaw Oure ever fails. Our fair plan of selling, together with exhaustive information on Lump Jaw and its treatment, is given in

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and every man must work out the best way for himself under his conditions and circumstances.

"Farmers are getting better control of the transportation system through their state legislatures. They are gradually working out methods of gradually working out methods of the conversion in the sale of their live.

A scientific Stock Food prepared by leading Veterinarians. Prevents Contagious Abortion, Swamp Fever, Equine Typhold, Pink Eye, Strangles Indigestion, Hidebound and all blood and skin diseases of Live Stock.

Endorsed by prominent stock men.

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GRENFELL, SASK.

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Sold Out, But Still In The Business

We have no more Yorkshires or Berkshires for sale until the Spring litters come in. Send it your order now and avoid disappointment. We expect a grand lot of young stuff from imported and Prizewinning sires.

Several excellent Shorthorn Bulls and Heifers for sale. Some of these are extra quality.

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WESTERN SEED POTATOES

Grown from selected seed. Yielded 200-420 bush, per acre last year. ENGLISH BERKSHIRES 12 Sows due to farrow in April and May.

Barred Plymouth Rock and Mammoth Pekin Duck Eggs for Hatching Write for what you want and get my prices
before buying elsewhere.

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YORKSHIRE HOGS

Spring Pigs \$10 apiece when weaned. You can save money both on price and freight by ordering now. Remember, we raise the big litters.

Shorthern Bulls, Helfers and Heifer Calves for Sale.

Fire get of Sir Calin Campbell (imp)--- e8ty8-and General--- 1919--- Cown all ages, in calf a relf at fact Seventy head to cho-se from Young Stalliens for sale, two and thin years and Also mares and allow Lelcoster Sheep, both sexes. Stock always on hand Geo. Rankin & Sons. - Namieta, Man

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Ranchers and farmers need the reds, white-and roans, if you wish to breed the best and most profitable cattle. Can supply you with tip-top stuff Am offering two-year-old Bull—s herd header—and 14 yearling Bulls; also Cowand Heifers

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FOR SALE two right good Clydesdale Stal lions, rising two years Shorthorn Bulls and Heifers, one and two years old. Yorkshire Pigs (fall and spring. litters), and a grand lot of Barred Rock Cockerels.

All at moderate prices ANDREW CRAMAM Pomeroy P.6. Carman or Roland Stations, C.P.R., C.N.R. or G.N.R.

Terra Nova Stock Farm HERD OF **ABERDEEN-ANGUS** CATTLE

All the best families represented. Some fine young bulls for sale from both in ported and home bred cows. Prices reasonable S. MARTIN, Rounthwaite, Man.

The Champion Herd at Winnipeg and Brandon for **ISLAND PARK HEREFORDS** PARK HEREFORDS three years. This year won nine first prizes out of ten competed for. At Winnipeg, three champion ships and one grand championship. A few good young females for sale.

Address: J. A. CHAPMAN, ISLAND PARK FARM, BERESFORD MAN.

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Our young bulls are the best that our herd has ever produced. We can furnish Cruickshanh bulls of high quality to head the best herds a some that will produce prime steers.

We have a bull catalog—send for one.

Brooklin Ont. Myrtle O.P.R

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OUR OFFER:

spect 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 the cost of ap-

Buy one lot of Paroid; open it: in-

T'S a simple proposition.

Paroid Roofing costs you less per year because it ing surface and cannot leak, work loose and cause leaks. lasts longer than any other kind of ready roofing.

It lasts longer because it is better made and is made of better materials.

You can see and feel the difference.

We can prove to you the difference.

It will pay you to get the proofs—because it means a saving of dollars to

Here are some of the reasons:

The felt that is the foundation of Paroid is made in our own mills, and is stronger, tougher, more du-

rable than any other. We are in position to know that it is right. You cannot afford to buy a reofing made from a cheap

felt or from a manufacturer who does not make his Paroid has a thicker, smoother, more pliable and

more durable coating than any other. Just compare samples and see for yourself.

Paroid is the only roofing laid with square, rust-

proof caps, which have the largest and strongest bind-

At every point, and in every way, Paroid is a superior roofing of proved and tested quality. You

don't have to take our word for it. Read our offer.

Paroid has stood the test of time at the hands of the United States Government, of leading manufacturers and railways, of farmers, dairymen and poultrymen everywhere at home and abroad.

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(Established in U. S. A. in 1815) WINNIPEG OFFICE 937 LOGAN AVENUE FACTORY AND OFFICE Partition, Onc.

We stand back of every foot of Paroid. Originators of the ready roofing roll containing complete kit for applying.

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knowledge. He would need an integ. rity which has been sought in vain among mortals since Jesus of Nazaretl walked among men.

THE RATION OF THE HORSE.

When a horse weighing 1,000 lbs., of good working age, and performing a moderate labor, is fed upon a ration prepared in accordance with scientific teaching, it is supposed to require to one day, 20 lbs. of food—10 lbs. being hay and 10 lbs. grain. Unless the oats are exceptional, 11 lbs. to 12 lbs are sometimes recommended; or, it corn and barley is used in conjunction with oats, 10 lbs. will be found sufficient Without doubt the best hay and the best oats form the best and safest ration although for slow work corn may be added to oats with advantage when the price makes it economical. There are, however, many forms of food which are used in compiling rations, such as bran, brewers' grain, and barley, to which beans are occasionally added during severe work, and on the farm an occasional mangel, or a pound or two of crushed linseed cake, or even linseed meal.

The quantity of food supplied is not only based upon the weight of the ani mal, but upon the work it performs With the increase in exertion, there is an increase in the consumption of energy, for a horse trotting 25 miles will require more sustaining than it he walked the same distance. Accord ing to the German investigations, an animal doing a moderate day's work and weighing 1,000 lbs., requires 11 lbs. of digestible nutritious matter in his ration. If this work is increased to an average day's labor, he requires 2 lbs. more, whereas if the work is heavy it is increased to 16½ lbs. But as the digestive apparatus of the horse unlike that of the cow, is not adapted for bulky food, the increase in a horse' ration is mainly, and sometimes en tirely provided from grain alone, 10 lbs. of hay or chaff being estimated as sufficient for an animal of the size mentioned. Many attempts have been made to ascertain the exact waste or consumption of food in the process of labor by the horse, but without any very accurate results. When at work a horse not only draws his load, but moves himself, and in moving himself alone energy is consumed

It has been noticed, and the fact should be well studied by agriculturists that although a given quantity of hay contains as much nutritious digest ible matter as a given quantity of grain yet the grain is much more beneficial than the hay, and this is another reason why the hav rations should not be increased. Suppose it becomes necessary for a horse to consume sufficient food for a hard day's labor on the German theory he would requir 16½ lbs. of digestible nutritious matter. He would obtain this in slightly more than 37 lbs. of hay, it hay alone were supplied; but the simplest wagoner, carter, or horse keeper, to use the various terms employ ed on the farm, is aware that sucl feeding would be most inadequate and improper. Contrary to somewhat gen eral belief, a hard-working horse needs more starchy matter and fat than albuminoids; hence the value of heavy oats, and indeed of corn, when this food is added to a sound oat and have ration.—British Exchange.

EGG NOG FOR ORPHANED LAMBS.

A woman who has had success

prepare the milk, feeding theu

raising orphan lambs writes in the

regularly every two hours, until about

two weeks old, and then not quite so

often, finally feeding only three times a day. Now, in regard to the milk

I take milk fresh from the cow, heating

it on the stove until it reaches the boil

ing point; then set it aside to cool until

about milk warm. For one quar-

of milk I beat one egg lightly and str

into the milk after it is cool. Do not have the milk hot enough to cook the

egg, as it is the raw egg that benefits the lamb. I have tried many different

things, but find this most successful

I have raised as many as ten lambs it

one summer, and without the lea-

Sheep Breeder:

KOOTENAY

52 acres of splendid fruit land only 20 minutes from the centre of the City of Nelson. First-class wagon road through property.

The Best in the

5 acres under the very best of cultivation and 13 acres almost ready for

of an acre bearing strawberries.

500 raspberry bushes. 150 apple trees. 50 cherry trees. All the very best

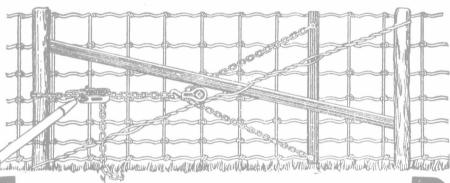
Last year 41 TONS of finest tomatoes were raised from half an acre of new ground on this sunny property and marketed at good prices.

Small frame house and good frame

\$100 per acre on easy terms.

Wolverton & Co. NELSON, B.C.

A GOOD FENCE



Our new folder on "Erecting Fences" will tell you and if you will follow the instructions carefully when you are through you will have a good job.

It's full of valuable and interesting information on fence building and tells how to erect woven wire fencing in the quickest and most substantial manner.

No farmer, tence man or any one interested in fence construction should fail to write for a copy. It gives all the information required for building fences and we send it

In addition there is also a complete and very interesting description of the manufacture of fence wire. Persons who have never had the privilege of visiting a wire mill will find this article of especial interest

It also has an article quoted from a bulletin issued by the U. S. Department of Agriculture on the manufacture of concrete fence posts, showing how posts made of this most useful and durable material can be manufactured at home. Don't fail to write for a copy today. Ask for our folder called, "Erecting Fences." Remember it's free. Address THE BANWELL HOXIE WIRE FENCE CO., LTD., Dept. N., Winnipeg, Man.

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Clydesdales and Shorthorns

Stallions and mares of excellent breeding, of all ages, for sale Also some choice young bulls fit for service and a number of cows and heifers of noted Scotch strains.

Many of them Leading Prize Winners at the big Western Fairs.

P. M. BREDT

Regina, Sask.



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the lea-

May 1, 1907.

THE FARMER'S ADVOCATE

Questions and Answers

POULTRY QUERIES.

1. What is the best food to feed chickens on that have been hatched by an incubator, whilst in the brooder?

What is the best method for pickling eggs for winter use or sale? 3. Can you recommend a good book on poultry raising by incubator? Sask.

Ans.—1. See our April 17th issue.
2. The best method for preserving eggs for winter is by the use of waterglass (sodium silicate), which can be got from druggists in a form resembling thick syrup (home-made). Take one part (say quarts or gallons) of water-glass, twenty parts of boiling water, and allow the water to cool; place the and allow the water to cool; place the water-glass and water in a vessel, and stir well together. Put the eggs to be preserved into a tub or vat constructed for the purpose, and pour the solution over them until the topmost layer it completely covered. The water is boiled to destroy any germs that may be present in it. Before boiling eggs that have been kept in this solution, the have been kept in this solution, the shell should be punctured with a needle; otherwise the egg shell will crack as soon as placed in hot water. Eggs can be kept for long periods in waterglass solution.

3. "Poultry Craft" is a book that deals authoritively with this subject and others pertaining to poultry, which we recommend to all our readers interested in poultry raising. Price \$2.00, through this office.

CUCUMBERS: CABBAGE WORMS.

Each year my cucumber bed looks fine, the vines grow and bloom, but seldom bare any fruit. How should I treat them?

What is the best treatment for green grub on cabbage, and how should it be applied?

Man. Ans.—1. The cucumber is one of those plants that produce two classes of flowers; namely, staminate and pistillate. Betore fruit can be borne the pollen which is produced on the stamens of the staminate flowers must be transferred to the pistil of the pistillate flower to ensure fertilization. This fertilization process is usually effected by bees flying about from flower to flower. If there are no bees the fertilization process are no bees the fertilization process may be carried

on by some artificial means.

The best method is to collect in a saucer a quantity of pollen from the staminate flowers, and by the aid of a feather dust it on to the pistils of the pistillate flowers. The pistillais the spike in the center of the flower.

The pistillate flowers may be distinguished from the staminate flowers by the enlargement on the stem_which later develops into fruit.

2. The cabbage worm is the larval form of the cabbage butterfly. It obtains its food by eating the leaves of the plant on which it is feeding, and may easily be destroyed by the application of a solution containing some form of stomach poison. A solution of 1 oz. of pure Paris green to 10 gallons of water, or a solution of 1 oz. hellebore to 3 gallons of water, applied in the form of a spray or shaken on the plant with an old broom, will be effective in destroying this insect.

Care should be exercised in the use of these poisons if the cabbages are intended for immediate use as food. F. W. BRODRICK.

Prof. of Horticulture, M. A. C.

CARING FOR SICK NEIGHBOR.

I have been appointed to look after a neighbor who has scarlet fever and would like to know how much I am entitled to a day. Does each council set its own price?

Man. Ans. -The amount per day would lepend upon the contract existing wiween you and the municipal coun-In case the contract is silent as terms, the provincial board of health here is of the opinion that \$5.00 ter day would not be an excessive irge, though you might make some er arrangement with your neighbor.

Vigorous

The sow is supposed to impart to her offspring her own constitution. It is, therefore, important that we raise pigs from vigorous, healthy sows. No stock will give as much return for the keeping as pigs, stock will give as much return for the keeping as pigs, if properly cared for. It is said that in ten generations the progeny from a single sow will number into the millions.

But disease must be avoided. Proper feeding is the first necessity and cleanliness the second. The advantage of giving a sow a tonic to insure proper digestion and assimilation, and to increase both quantity and quality of milk for pigs is apparent.

Dr. Hess Stock Food is the combination of just the proper tonics, etc., to produce perfect health, and hasten maturity. Given to the sow before farrowing, and up to weaning time, and in the milk and meal to the pigs afterwards, there will be no loss from disease, and a steady vigorous development will result.

R HESS STO

is the prescription of Dr. Hess (M.D., D.V.S.) and costs but Sc per month for the average hog of 125 pounds. It is especially ntended to make market stock grow faster, cows give more milk and horses do more work. Besides this, it gives stock that sleek, healthy appearance that, commands the fancy price. As proof that Dr. Hess Stock Food will produce the results we claim, we quote Professors Winslow, Finlay Dun and Quitman—the most noted of all medical writers—who tell us that bitter tonics improve digestion, that iron makes blood and nitrates of soda and potash assist nature in throwing off the waste material from the system. These are the ingredients contained in Dr. Hess Stock Food, and besides it is

SOLD ON A WRITTEN GUARANTEE. 100 lbs. \$7.00. 25 lb. pail \$2.00

Smaller quantities at a slight advance. Duty paid. Where Dr. Hess Stock Food differs in particular is in the dose—it's small and fed but twice a day, which proves it has the most digestive strength to the pound. Our Government recognizes Dr. Hess Stock Food as a medicinal tonic and this paper is back of the guarantee.

Free from the 1st to the 10th of each month—Dr. Hess (M. D., D. V. S.) will prescribe for your alling animals. You can have his 90 page Veterinary Book any time for the asking. Mention this paper.

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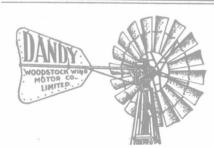
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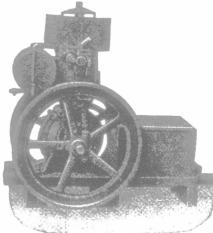


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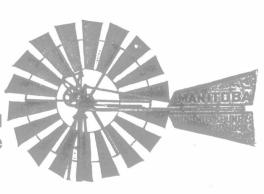
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even though you do not believe it electric selts yourself still you can't help being glad that your friend imagines that it cured him. You are but one out of hundreds who at first were skeptical, but these same men are to-day praising it as only men can who have been cured of their aches and pains by its

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is a wonderful renewer of the vigor of men. Its touch is the touch of magnetism. It fills the nerves with snap. It charges the body with a grand force of vitalizing energy, and turns back the hand of time for men who have begun to feel old, broken down and feeble; men who are weak and puny, and who have lost the force of vitality, who feel gloomy, despondent and unable to battle with the affairs of life; who have Rheumatism, Back Pains, so Stomach and Kidneys, and feel generally as if they needed to be made over.

If you have been paying money to doctor, and taking nasty drugs for years, and after getting no benefit from it all, you find a new lease of life after using. Belt for a month, you will be enthusiastic. You will want to go out on the highways and shout, and you won't care who knows that you were once a weakling, because now you are cured. Our Belt is easy to use: put it on when you go to bed; you feel the glowing heat from it (no sting or burn as in old-style belts, and you feel the nerves tingle with the new life flowing into them. You get up in the morning feeling like a two-year-old.

Dear Sir—I was greatly troubled with backache, so much so that I had to quit work several times but after I bought your Belt I wore it for forty days and it did wonders for me. Now I can do any kind of work and never feel a pain in my back. It has completely cured me. Hoping others will do as you advise, I remain,—Hormidas Lamoureaux, Alta.

Dear Sir—The Belt which I purchased from you nearly three years ago was all that I could expect, as my lack never bothers near all now except when I get a cold; then I wear the Belt a few nights, perhaps two or three, and I am all right [agair. That king you for the goodness of the Belt and the benefits I have received, I am - O. Stockford, Altamont, Market Example 1.

Dear Sir—I regret very much in keeping you waiting for the recommendation you so nichly deserve in praise of your Belt, "I must say that it is a God send to anybody in need of it. It will one anything as regards Physical Weakness, and is far ahead of drugs. Anything I can do in the way of recommending your Belt I will do to the lest of my ability. You can refer anylody to me that may be in doubt about your Belt.—Thomas Murray, 148 Gladstone Ave., Winnipez, Man.

I HAVE AN ELECTRIC BELT THAT DOES CURE, and I am offering it to you in such a way that you take no chances whatever. Give me your name and address, with a statement of your case, and I will at once arrange a Belt suitable for your case, and

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DR. M. D. McLAUGHLIN

112 Yonge Street, Toronto, Canada

SCRATCHES.

Can you recommend a good remed for scratches in horses?

Ans.—Prevention consists in ben careful not to overfeed with grain, and giving exercise when not at regul work. Keep the parts dry and cleaand avoid washing with warm water unless carefully dried and bandaged immediately after. To cure a case first give a purgative ball of 6 to 10 drams aloes and 2 drams ginger, accord ing to size. Feed bran till purgation ceases, and very little grain till he i put to work. If the case is chronic follow up with 3 drams nitrate of pot ash twice daily for a week or ten day or with one to one and a half ounce Fowlers' Solution of Arsenic, twice daily for a week. Local treatment depends upon the weather. Lotions oils or ointment are generally used lotions in warm weather, or when the patient is used on dusty roads or fieldbut oils or ointments are preferally in cold weather. Sometimes they are used alternately. A tavorite lotion of made of I ounce each of sulphate zine and acetate of lead, ½ ounce of carbolic acid, and a pint of water Perhaps the best cintment is one drain oxide of zinc to six drams lard; rui once a day. Before applying eitla: lotion or ointment, poultice, every six or seven hours for a couple of days and nights, with poultices of warm linseed meal and a little powdered charcoal then use the ointment or lotion two or three times daily. If the legs ga wet rub them dry; if muddy allow them to dry, and then brush. Do not wash.

BLIND COW.

I have a cow which I noticed was almost blind last fall. She ran our with calf sucking her. Sometimes there would be four and five calfs sucking her. I took the calves off early. She appeared better through winter, but is almost blind again. There does not appear to be any scum over her eye. Is there any cure for her or anything that will help her? Her eves look quite natural.

Ans.—If there is any sign of inflammation in the eyes a line of treatment might be indicated to relieve the condition; such as the application of saturated solutions of boracic acid. There is a form of contagious eve disease in cattle, but it generally runs its course in a shorter time than you have mentioned, and is quite amenable to any mild treatment; such as the use of lotion made from sulphate of zinc five grains; clean soft water, one ounce or atropria sulphate, five grains, to one ounce of water.

PAYMENT FOR GOODS.

A bought goods from B and promised to pay for them in a week or two. The time has elapsed. Can B go and take goods back?

J. W.S. Ans.—Yes; or bring suit to recover

HOMESTEAD FOR DEBTS.

Is there any law in Manitoba that could force a homesteader to sell his place on account of debts?

Ans.—A homestead is exempt from debt, together with a certain supply of implements, stock and furniture.

MANGE ON COW.

I have a cow 2 years old, which have kind of dandruff all over her and scratches herself with her horns till he skin is sore. Could you tell me what is the matter and what to use to cure it? There is no sign of lice and otherwise the cow is healthy and gives

Ans. The contappears to have sange. Clip the hair if it is long or cite it anyway along the neck. Rub soft scape over the body and then take . sh and varin water and give her studding. Dry her off an

good remer

G. T sts in ben th grain, ar t at regul. y and clea warm watt id bandager cure a case 1 of 6 to 11 nger, accord ill purgation in till he i e is chronic trate of por or ten day half ounce senic, twice 1 treatme: er. Lotton ierally used or when the ads or held e preferald ies they ... ite lotion 1 Ounce is one drag is lard; rui

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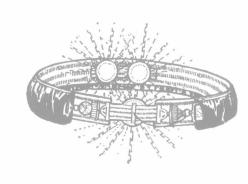
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I point with just pride to my invention, which during 40 years has enabled more than 100,000 sick men and women to regain their health and vigor—a record to be proud of. I say record, because I have the proof always open to inspection for those interested. Since discovering the marvellous curing powers of electricity 40 years ago, I have faithfully and persistently labored to bring it to the notice of sufferers who need building up mentally and physically, who are troubled with Nervousness, Rheumatism, Lame Back, Wrecked Stomach, Varicocele, etc., and how well I have succeeded is best shown by the fact that the Dr. Sanden Electric Herculex is now standard in every part of the world. I admit the first 30 years was hard work, but I am now enjoying the success and satisfaction I feel is due me.

I do not believe that there to-day is a grown person who doubts the wonderful curative power of electricity—in fact, I take it for granted there is not. I, therefore, only find it necessary to give a few hints as to its application. To restore strength and vigor to a worn-out system, to feed the brain and nerves, to drive uric acid out of the blood, to strengthen a muscular center, as in lame back, to give renewed and healthy action to the stomach, liver and kidneys-in short, to really renew the life forces of the whole body, the continuous galvanic current must be used and applied in

a mild, prolonged manner, to allow the system to absorb it. The strong, harsh current applied from the ordinary battery is mostly wasted, as the system only accepts a small portion of it, just as the sudden heavy shower mostly runs off, while a gentle, prolonged rain is thoroughly absorbed. My invention does exactly as explained above. You put it on when going to bed and take it off on arising in the morning. It gives a soothing, exhilarating current you instantly feel, but not suffieient to in the least disturb you. It fills you with new life, and electrifies every nerve and drop of blood in your body As weakness and disease is a LACK of electricity, how can you wear my Electric Herculex without receiving benefit? I know you cannot, therefore I invite you to send for it on absolute free trial

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The price is as low as \$5.00 in many cases, and you get a discount for cash if you prefer to deal that way

As the founder of the Electric Body-Battery system of treatment, my success is the envy of many, and my Herculex of course, imitated (what good thing is not?), but my great knowledge to advise and direct my patients is mine alone ad cannot be imitated. I give it free to all who use my invention until the cure is complete—My Hereulex is guaranteed give a current for at least one year.

Call or send for my Electric Herculex to-day, or if you want to look into the matter further, I have two of the best the books ever written on electricity and its medical uses, which I send free, sealed, upon request.

OR. C. F. SANDEN, 140 Yonge St., Toronto, Ont.

ROBERT LOUIS STEVENSON'S PRAYERS.

A Morning Prayer.—The day returns and brings as the petty round of irritating concerns and duties. Help us to play the man, help us to perform them with laughter and kind faces; let cheerfulness abound with industry. Give us to go blithely on our business all this day, bring us to our resting beds weary and content and undishonored, and grant us in the end the gift of sleep.

An Evening Prayer.—Look down upon ourselves and upon our absent dear ones. Help us and them; prolong our days in peace and honor. Give us health, food, bright weather and light hearts. In what we meditate, of evil, frustrate our will; in what of good, further our endeavors. Cause injuries to be forgotten and benefits to be remembered. Let us lie down without fear and awake and arise with exaltation, for His sake in Whose words we now conclude.

A Prayer for Friends.—For our absent loved ones we implore Thy loving kindness. Keep them in life, keep them in growing honor; and for us, grant that we remain worthy of their love. For Christ's sake, let not our beloved blush for us, nor we for them. Grant us but that, and grant us courage to endure lesser ills unshaken, and to accept death, loss and disappointment, as it were straws upon the tide of life.
A Parting Prayer.—To-day we go

forth separate, some of us to pleasure, some of us to worship, some to duty Go with us, our guide and angel, hold Thou before us in our deviated paths the mark of our low calling, still to be true to what small best we can attain to. Help us in that, our Maker, the dispenser of events—Thou of the vast designs, in which we blindly labor, suffer us to be so far constant to ourselves and our beloved.

Humorous.

An engineer from Sunderland was spending a few days in London with a friend, and after a busy morning sightseeing the Londoner chose a large restaurant for luncheon, thinking it would be a novel experience for the man from the north. The visitor appeared to enjoy his luncheon, but cept looking in the direction of the door. 'What are you watching?'' asked his friend, rather annoyed.

"Well," was the quiet reply, "A's keepin' an eye on me topcoat.

"Oh, don't bother about that," said the other, "you don't see me watching

"No," observed the guileless engin-"thee has no call to—it's ten minutes sin' thine went."

Umpire (to part of "Skeleton" Army)

"What do you represent?"
Private—"I dunno, sir. I'm carry-

ing this 'ere flag.''
Umpire—"Well, you ought to know, you represent a company in extended order. Understand?"

Private (after deep cogitation)—
"And do I draw the beer for a company when I get back to camp?"

Teacher—"Johnny, can you tell me what a hypocrite is?"

Johnny—"Yes, ma'am. It's a boy

what comes to school with a smile on

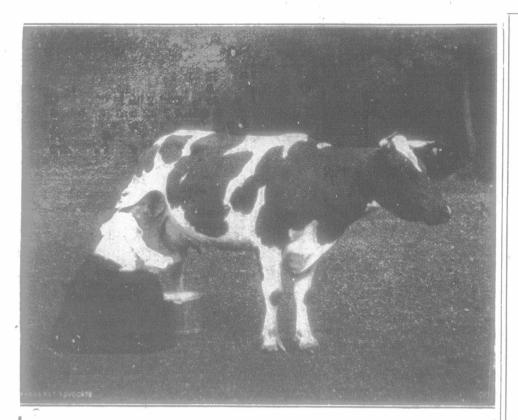
"Shure and you have turned very industrious lately, Mr. Finnigan," said Mr. Flaherty.

"That I have," replied Mr. Finnigan "I was up before the magistrate last week for assaulting Cassidy, and the magistrate said that if I came back on the same charge he would fine me

"Did he, though?" said Mr. Flaherty 'And so your'e working hard so as to keep your hands off Cassidy?"

No, bedad, I'm not," said Finnigan, "I'm working hard to make up the \$10 for the fine."—Tatler.

Agent-"This is the aut mobile you vant. You never have a crawlunder



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We have always paid the highest prices and we will continue to do so.

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You are paid by express orders twice in each month on the 1st and 15th.

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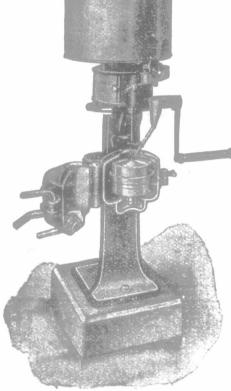
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Single Brand 4	1.75 .65	Gom. Brand S.B 9 up	1.70	.45

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