PAGES MISSING

e power that you can or any kind of work, peration the moment Think of having all want just as long as d then shutting it off the expense instants always low in prowork done. It's a operate yourself. It labor and make you of ways. You will

repay its cost, and he engine for many ity. The Internationhave catalogs giving these farm laborou have not already I better call and get ks and study it, and al service such a ma-

STS TO FEED THE PHERS

of readers is directed nent of the Mickelson any of Minneapolis, in our last issue, they are advertising

ons, one of the worst h the farmer has to copher. These little normous amount of more than many of aselves realize, unless the trouble to figure

g, when the seed is begins his work. It ered that at this time phers have very rewinter quarters and in and hungry.

ervation, it has been oher will eat fully 90 before the wheat has to sprout and grow, for each gopher to future use, is a very

This makes 215 ker— The increase which realized from these ed wheat, amounts to

und that one gopher y 170 plants by eatsprouts as they appround, and 150 heads it is harvested. This would amount to 320 which, on the basis ould figure one more lost, making 4 lbs. gether with the first would figure fully amount lost and degopher alone.

bes not seem large, cure that in a 40 acre be from 500 to 1000 creatures, and that there will raise from each season, the exnature of the loss is for it will easily 0 or \$100.00. Gopher. You can't afford

3, how are gophers to most natural weapon tself is poison, but lties in the way of ons. Most of them

any poison in which ised, can never give ilts. It is next neca solution of it and 12 to 20 hours for absorb this solution. Son is prepared, the become stormy for a grain is very apt to ing, for, if put out in pher will not be out he damp ground will son from the strych-

n-quick" is used, all ager is avoided, for, any kind. the water is soaked, throw it off, and the "Kill-emomes in the form of stirred in just before it. Above all is the phers will eat it and



April 28, 1909

WHEALLER & CARLE

ENGINEERS MACHINISTS

Machine and Foundry Work of Every Description

Brazing of Cast Iron, Wrought Iron and Steel

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BETTER THAN GOLD

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Inside of one year, private lands adjoining ours, but further from market, increased and sold at more than three times the price we are asking for ours, and is now held at \$50.00 to \$200.00 per acre.

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We will sell you a 62½-acre or 125-acre farm at \$5.00 per acre, which will produce the finest cranges

and lemons possible.

We will also sell you first-class land for cattle and bog raising, etc., at \$3.00 per acre.

We guarantee that the Climate is delightful and healthy for those who go to our lands to live.

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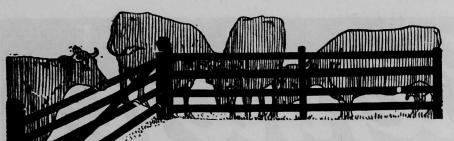
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Are exclusively used in Creameries and Model Dairies throughout the length and breadth of two Continents. Sometimes the original purchase bore the name of one or other of inferior makes extensively advertised, but always practical folk, dairying for profit, replaced this with the De Laval—the universally accepted standard of Separator Values.

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THE EMPIRE LINE

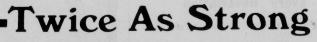
The Frictionless Empire (The Cone Method)

The Center Feed Empire Disc (The Disc Method Perfected) In a full range of capacities and sizes.

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YOU CHOOSE the one that SUITS YOU. You will be more than satisfied.

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of the fence. Notice that this lock not only grips the lateral wire to stay, but the ends of the lock are curved in such a manner that the lock practically inter-locks itself, making it the strongest part of the entire fence, and giving a double grip. A double-grip means a twice-asstrong lock, a twice-as-strong fence—a twice-as-good investment, and no danger of loose locks in fence, and that is well worth consideration.

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We also make the old reliable Anchor field erected fence coiled spring wire, gates, etc. Catalogue shows different styles of fence and gates for horses, cattle, hogs, etc. Write for your

Copy. This is the best fence agency offered the dealer—GET IT.

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with NEW STEWART SHEARING MACHINE With 4 combs & \$ 12.75 the New Stewart Shearing machine. It does not cut or hack sheep like hand shears, dealer's and gets one pound and over more wool per head. It shears any kind of wool easily and quickly. WE GUARANTEE IT FOR 25 YEARS. All gears are cut from solid metal, not cast; all wearing parts are file hard; spindles are ground and polished, and the driving mechanism is enclosed from dust and dirt and runs in oil. 95 per cent of all the shearing machines used in the world are Stewart patents. If your dealer does not have it, send \$2 and we will ship c.o.p. for balance. Send for a copy of our free book "How to Shear Sheep," and our big new catalogue showing the largest line of shearing machines on Chicago Flovible Chaft to 110 Chicago Flovible Chaft to 110 Chicago ng machines on Chicago Flexible Shaft Co., La Salle Chicago

rence

The greater the elasticity the longer the life.

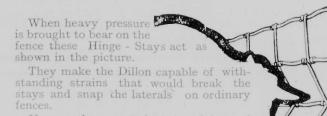
No fence equal in elasticity Dillon Hinge - Stay fence, therefore no fence is as lasting. The beginning of the Dillon superior elasticity is in the laterals themselves.

They are made of High Carbon Hard Coiled Wire

These Dillon Coiled laterals have one-third more elasticity — one - third more tensile strength than the hard steel wire used in ordinary fences—will stand one-third more weight and pressure before breaking.

Then, the elasticity of the Dillon is increased ten-fold by the use of the Hinge-Stays.

The Elastic THE DILLON



Your cattle can match their weight and strength against the Dillon - your horse can press down on the wires—you can climb all over the Dillon—but, thanks to the Hinge - Stays and the quality of the laterals, no damage or

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Why not buy the Dillon Hinge - Stay fence fence in the world.

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ada. You will be wise

The Owen-Sound Wire Fence Co. Ltd., Owen Sound, Ont. Western Agents: CHRISTIE BROS. LTD., WINNIPEG, MAN.

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The Monarch is not by any means an ordinary fence.

It is manufactured entirely of high-grade No. 9 wire.

The lock is applied in a different manner to those on ordinary stiff-stay fences. The wires are not bruised in the making of the fence. There is no undue kinking of laterals. Just write for catalogue explaining difference between the Monarch and other stiff-

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Vol. XLV.

FARMER'S AND HOME J

Canada's Foremost Published Ever

SUBSCRIPT Canada and Great Britain, p

United States and Foreign (Date on label shows time In accordance with the last sent to all subscribers unt for its discontinuance, accordance arrearages.

British Agency, W. W. Norfolk St., London, W. C., Specimen copies mailed Address all communicat individual.

FARMER'S 14-16 PRINCESS STREET

The Price

Not in a good man first cereal sold at price for it during the past for has been due almost in supplies. True, c gamblers in Chicago ha of that nature, devel delivery, but no corn any time had the worl seemed needed to b until a new crop cou are shorter on whea people imagine, shor capable of portraying heavier crop reaped in than were harvested year before, wheat] that some of us nev

touch again.

Naturally a short cr circumstances interve by a crop of more Indications are that planted to wheat dur in the northern her area hitherto sown to seed time and harv wheat reserves, so s the past twelve mont to standard when the the trade. At the s indication that whea better return to the some time. The spec now to buy for S delivery at around a bad outlook for those to sell.



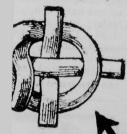
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Farmer's Advocate

and Home Journal

Vol. XLV.

Winnipeg, Canada, April 28, 1909.

No. 866

FARMER'S ADVOCATE AND HOME JOURNAL

ESTABLISHED 1866.

Canada's Foremost Agricultural Journal Published Every Wednesday.

SUBSCRIPTION PRICE

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FARMER'S ADVOCATE OF WINNIPEG, LIMITED.

EDITORIAL

The Price of Wheat

Not in a good many years has the world's first cereal sold at prices, as high as were paid for it during the past few weeks. The advance has been due almost entirely to the stortage in supplies. True, certain prominent grain of that nature, developed in wheat for May delivery, but no corner could have stood for any time had the world had all the wheat that seemed needed to bread the wheat eaters until a new crop could be drawn upon. We are shorter on wheat this year than most capable of portraying. If in 1909 there is no heavier crop reaped in the world's wheat fields than were harvested either last year or the year before, wheat prices will touch points that some of us never dreamed they could

Naturally a short crop year, unless unforeseen circumstances intervene, is followed regularly by a crop of more bountiful dimensions. planted to wheat during the next four weeks, in the northern hemisphere, will excell any area hitherto sown to this crop. A favorable seed time and harvest will mean that the wheat reserves, so seriously depleted during the past twelve months, will be brought back to standard when the crop of 1909 comes into the trade. At the same time there is every indication that wheat next fall will make a better return to the producer, than it has for some time. The speculative element is willing now to buy for September or December

Horizontal and Vertical Hope

is continually on the increase.

wheat yield over America of some sixteen selves beyond the vagaries of the weather man. the addition of more acres.

Ottawa, Feb. 5, 6, 7, 1908, has just been issued. an exact science and, with this experience beread before the convention, is a work of 150 methods may not be improved. Indications are that this year the acreage pages, containing some valuable information on the pure-bred and commercial live-stock

> If Canadians are anxious to contribute to the strength of the British navy, the best they can do is to provide a liberal supply of bacon and flour We have the farms to produce these and to Dreadnoughts on Canadian prairies.

of the wisdom of the tenderers.

Observe the Oat Plant

Never again to know "cheap" wheat is the Careful students of our methods of farming prospect that many authorities in the grain have been telling us that we have been making trade hold out to us. It is said the recent a mistake in our methods of oat seeding, and sensational climb of prices is but the end of a the experience of careful farmers, who observe, long period of a certain level of values and the seems to support the impeachment. In this beginning of another period of higher prices. matter of thickness of seeding we need to It is pointed out that the available wheat land question the soil and the variety of oats we are has practically all been brought under cultiva- sowing. Turning to the soil we have been tion and that the average yield throughout the taught by experience that under average conworld is not improving, and especially in the ditions of moisture and fertility, a certain newer countries, while the rate of consumption given number of plants to a given area, gives the best returns. When the grain is of average As has often been remarked to prognosticate size and of the variety most commonly used, the markets is an idle occupation, yet it is ex- Banner, setting the drill at two bushels to the pedient to view the situation in the light of acre gives us this proper number of plants to experience. Many things will enter into the given space. If we observe closely we will factor of prices the next few years, if the mar- see that the number of seeds we have sown does ket is disposed to maintain its present high not correspond to the number of plants that the level. For instance more land will be sown to soil will conveniently carry, or with which the wheat, which is now devoted to hay, which is oat crop makes the best growth. The stooling not excessively high priced, or that is in pasture habit of the oat plant is depended upon to producing low priced beef or that is being held make up the difference. As a general rule, for speculative purposes or that may be em- weather conditions assist the habit of the plant ployed for any other purpose less profitable and we get an average stand. But it is this than growing wheat at one dollar a bushel and dependance upon weather conditions to favor upwards. But perhaps the greatest change stooling that is not considered good farming will be observed in the increase in the average and we are called upon to work away from it yield per acre, that will result indirectly from by growing varieties that do not stool and by higher prices. It is quite within the range of sowing the stooling varieties thicker each year, gamblers in Chicago had a corner, or something immediate possibilities to raise the low average to eliminate the stooling habit, and so put our-

bushels to the acre to thirty-two bushels, and Looked at from every standpoint the sugthen have plenty of room at the top for further gestions are sound. In the highly organized advances. Such a yield would not simply agriculture of Great Britain and Europe, where double the supply, but would increase the prof-moisture is more plentiful than in Canada, its by more than 200 per cent. no matter if farmers consider that they cannot take chances people imagine, shorter than figures seem prices failed to maintain their present high on grain stooling but sow thickly enough to get level. The hope of future agriculture strikes a maximum stand without stooling. Where the downwards into the soil not horizontally with charges against land in the way of rent, manures etc., amount to about \$25 an acre before the crop is up, we may reasonably assume that The report of the second annual convention methods of cultivation and seeding best of the National Live-Stock Association, held at calculated to produce a big crop are reduced to It gives in full the address delivered, and papers fore us, we may well question if our own

The Uses of Corn

If you can tell a Scottish farmer by his crop of "neeps," a German by his large cabbage patch, an Irishman by his luxuriant potato crop, you can also distinguish an American farmer by his field of corn. Corn seems to be one of the compliments of American country produce them is our specialty. We would not life. Strangely the international boundary expect to grow wheat on Plymouth docks, nor seems to arrest the northward march of King Corn, irrespective of the favorable local conditions that may be found far to the north Boards of trade and women's councils, are of American territory. The American corn delivery at around a hundred and ten. Not a advising the government to build Dread- fields extend right up to the north side of North bad outlook for those likely to have the cereal noughts. The nature of the advice is a measure. Dakota, thus demonstrating that the crop can be grown in the most adverse conditions that

exist in any of the crop growing areas on the continent, for nothing can be more trying than the Dakota climate along the watershed between the Missouri and Saskatchewan Rivers.

The Dakotans grow corn for a purpose and that purpose is that they may grow more wheat. every year; just across the line is one farm two pictures are asked for. with 250 acres of fodder corn. Corn fields have Many of our readers already have a Baron's application form for the registration of Clydestivation it demands insures as clean land as a The engravings are 8 x 11 inches in size, and Stock Records, Ottawa. fallow and soil equally as moist. It is a case are printed in soft tones, on heavy coated paper. of getting summer fallow conditions for wheat and yield of grain is very little behind those New horses costing as high as \$2.000 are arriving. There is also a general impression that the rule of the essentially corn states.

Corn, (zea mays) has been grown in Western Canada for some time for dry fodder and for silage; but until attempts were made with varieties suited to our shorter and drier summer seasons, little success was attained in growing and ripening corn. The experimental farms at Brandon and Indian Head have for years demonstrated the possibilities of corn as a fodder crop, which testimony has been backed up by the experience of hundreds of farmers.

The FARMER'S ADVOCATE has in its campaign for an improved and more profitable agriculture and the institution of crop rotations, urged the inclusion of clover and corn into those rotations, and has gone far afield in a search for varieties and methods likely to prove of use to Western farmers.

It will be years before the Canadian West can hope to produce large quantities of ripe corn, and only after varieties, quick maturing kinds, are secured, either by importation or by breeding up the squaw corns or selections from varieties already grown. In the meantime, every opportunity to use corn as a fodder crop should be improved.

Books and Book Farming

There still remains in this country a limited a successful farmer or stockman on the highway, cert offers something really rare at a farmers' picnic, on the railway train, or any other place, and drew from him practical, helpful also regard what he said as something practical and helpful. We would both agree that such information was practical. Now, suppose we had a stenographer to take down not only what this man said, and to write out his experiences, but also those of hundreds of other successful men along the same line. Suppose, further, that we placed all this matter in the hands of a careful, capable person, who would arrange, condense and express in a simple, plain, helpful way all that he had so accumulated. Would any of the information so gathered be less valuable because it finally appeared in print than if it were to fall a gall bladder, showing that his digestion must be on the ear, soon to be largely forgotten and lost?

One of the greatest peculiarities in the structure of the horse is the small size of his stomach, which is ported from Great Britain and Ireland. Application of animals imported from Great Britain after April 1st, 1909, must be accontinuous, and not interrupted by distinct intervals, as in the ruminants and carnivorae. The middleman in agriculture is just as important as in the ruminants and carnivorae. in his way as is the practical man, who produces; we must have both, and let us appreciate both and despise neither.

HORSE

Premium Pictures of Great Horses

We have just completed arrangements for They are not greater stock raisers than the new premiums for horsemen. Splendid photo Canada, the statement was made that a written farmers on this side of the line, but they have engravings of the celebrated Clydesdale Stallions, declaration of service, made by owner of stallion, Baron's Pride, Hiawatha and Oyama, have been was required. Information has since been reless wild hay, and they feed fodder corn to purchased, and will be given to anyone who ceived from the Canadian Live-Stock Records everything. As yet silos are not common, helps us with our subscription work. For two office, that the Department of Agriculture will but they are increasing by a hundred per cent. new names at \$1.50 we will send the three pictures, or for one new name at \$1.50 which ever those made out on the special form printed by

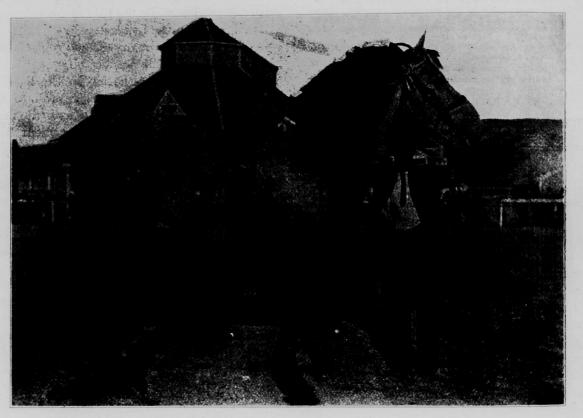
largely supplanted summer fallows, because Pride picture, and this gives them a chance to dales also has a space for the signature of the the crop is valuable for fodder, and the cul- make an interesting collection, as we will from owner of the service stallion. Both may be had time to time get pictures of other great horses. on application to the Accountant, National Live

Clydesdale Rules of Registry

I. W. Sangster, Secretary of the Clydesdale Horse Association of Canada, writes as follows

"In the circular which was sent out from this office some time ago, re certificates of service from owner of stallion, now called for in the registration of Clydesdales in the Clydesdale Records of accept no such certificate of service, excepting them, and issued for this purpose. The new

"Below will be found a copy of the rules, of entry, as revised at the last annual meeting of without losing a crop. Corn improvement Horse lovers are promised the greatest treat the Clydesdale Horse Association of Canada, and toward securing early maturity has developed of their lives by attending the Winnipeg Horse the Secretary writes, 'There is little more that can to such an extent that a crop can be grown in Show on June 24, 25 and 26. Classes for carriage be added, excepting that the rule regarding to such an extent that a crop can be grown in horses, saddle horses, hunters, drafters, ponies, the imposition of penalty fees on colts over one about ninety days, which for bulk of fodder etc., have been prepared and will be well filled. year of age comes into force on July 1st, 1909.



THREE YEAR OLD PERCHERON STALLION GOURNAY (IMP.) Selected in France to head the Percheron stud of Geo. Lane, Pekisko, Alta. Reserve Champion at the Calgary Spring Show.

in the city weekly. The event held annually providing for the registration of four-cross fillies is giving an unusual impetus to horse breeding has been revoked. This is not the case, but the throughout the country and helps to prepare application form must be filled out with a statumeritorious entries for larger shows.

The railway companies are co-operating with number of farmers who harbor a mild enmity and the directors, and will give special rates to parties narrow suspicion towards those who write books of ten or more buying tickets at one point. The on agriculture, or those who read such books. occasion is favorable for a visit, and recreation. Stock Records, Ottawa, for Application Blank It is a steadily diminishing number, fortunately. and as for newness of entertainment the horse Forms, Transfer Blanks, etc. All letters to this Now, reader, suppose that you are I were to meet show in the new amphi-theatre with a band con- address will go free of postage.

Speed, or, as it is called pace with high action observations and experiences in the line in which is coming to be more in demand than was in the he excelled; we would not only be interested, but best horse markets. Hackneys that have pace are seldom offered for sale.

> The various provincial departments of agriculture report that enrolling of stallions is proceeding rapidly. Still there will be a lot of stal-lions that will not be enrolled and their owners will be liable to a fine as well as miss the protection of the courts in making collections.

Nature has thus framed this animal in order that he may be at all times able to exert his utmost speed, which he could not do with the mass of provender in his stomach which is carried by the cow or sheep. The same provision is shown in the udder of the mare, Wisconsin College of Agriculture. which is not larger than that of the goat or sheep.

tory declaration or affidavit.

Write to the "Accountant," National Live

The following are admitted to registry

1. IMPORTED ANIMALS.—Stallions and mares recorded and bearing registration numbers in the Clydesdale Stud Book of Great Britain and Ireland, whose sires and dams, together with their sires and dams, are also recorded and bear registration numbers in said Stud Book, providing that the breeding of such sires and dams, if already recorded in the Clydesdale Stud Book of Canada as ancestors, comply with this rule.

When recording animals imported in dam, certificate of service must be furnished from the breeder, signed by the owner of sire at the time

to the regular export certificate issued by the Clydesdale Society of Great Britain and Ireland, showing ancestors numbered as stated above.

CANADIAN-BRED ANIMALS .- (a) Stallions and mares by sires and out of dams recorded in the Clydesdale Stud Book of Canada.

(b) Clydesdale stallions by sires recorded in the Cl Canada, and Clydesdale n crosses by sires recorded i Book of Canada. In all animals, the dam must t stallion is eligible, or, in c top-crosses, her dam must is eligible. Applications four-cross pedigrees shall b affirmed to by the bree authorized to adminster oa

2. Every application f made on a blank which sh the purpose, and must co complete as possible, tog birth, name and regist sire, and of the dam, if signed by the breeder, ex applying for registration p being served, then he mi form; but a transfer of must be supplied, signed (giving date of service, na sale). In registration of mares which were not bre which have been foaled l cation must be signed by the time she was served, year of birth, and name of dam must be given.

3. The owner of the pedigree is offered for entr giving date of service, w number of said sire in th of Canada. Signature wi such ownership appears of desdale Horse Association

4. The breeder of an the dam at the time she owner is the owner of tl colt was foaled.

5. No application for shall be considered until shall any number be assign every requirement has be

6. In the case of a ch animal, the buyer must certificate of transfer wri form procured from the I when returned to the Rei by the original certific entered upon the record. fer shall be endorsed on certificate, and returned t fers will be required from owners to the applica animal is a female, it m not she has been served service must be given, w number of the sire, cert his authorized agent.

7. When an animal stated when applying for given of the animal wit Should a twin be entered such statement, no subse entry of animal twin wi

cepted. 8. When the pedigre been admitted or owner misrepresentation or frau shall, on the discovery entry or transfer void, or transfers of descenda subsequent application: dependent on the sign: plicated in such fraud sl

9. Duplicate names this end, the right will h name when necessary, p as practicable, some ch given in the application shall not be used in co unless the pedigree has 1 ed in another Stud Boo

10. No duplicate cer less a statutory declarat must be the recorded o forth reasons why suc Such declaration must b

11. The fee for regis be as follows:

FOR CANADIA

To Members—Animals To Members-Animals April 28, 1909

of Registry

ry of the Clydesdale i, writes as follows

as sent out from this ficates of service from for in the registration rdesdale Records of made that a written by owner of stallion, has since been re-Live-Stock Records t of Agriculture will of service, excepting cial form printed by purpose. The new gistration of Clydesthe signature of the

Both may be had ntant, National Live

copy of the rules of t annual meeting of ation of Canada, and s little more that can the rule regarding es on colts over one e on July 1st, 1909. ression that the rule



Calgary Spring Show

of four-cross fillies ot the case, but the d out with a statu-

it," National Live Application Blank All letters to this

1 to registry itallions and mares tion numbers in the Great Britain and together with their ded and bear regislook, providing that d dams, if already ud Book of Canada ; rule.

imported in dam, furnished from the of sire at the time

which has been imid Ireland. Applinals imported from 1909, must be actificate, in addition cate issued by the ritain and Ireland, stated above. -(a) Stallions and ms recorded in the stallion is eligible, or, in case of a mare with five New Certificates, replacing old ones, of top-crosses, her dam must be recorded before she which shipping vouchers have been used is eligible. Applications for the registration of Tabulated Pedigrees four-cross pedigrees shall be certified and sworn or MIn determining fees, the age of an animal is authorized to adminster oaths. Every application for registration shall be made on a blank which shall be furnished free for the purpose, and must contain a description as

complete as possible, together with the date of birth, name and registered numbers of the sire, and of the dam, if recorded, and must be signed by the breeder, except in case the person applying for registration purchased the dam after being served, then he must sign the application \$2.00. Members wishing to withdraw from the form; but a transfer of ownership of the dam must be supplied, signed by the Recorded owner their intention to do so, and pay all arrears. (giving date of service, name of sire, and date of sale). In registration of pedigrees of four-cross payable to Accountant, National Live Stock mares which were not bred by the applicant, but Records, Ottawa, Canada. which have been foaled his property, the application must be signed by the owner of the dam at the time she was served, and the general color, year of birth, and name and address of breeder of dam must be given.

pedigree is offered for entry shall certify to service, flammation of the parts, followed by effusion of ingiving date of service, with name and recorded flammatory lymph (serum) under the muscle that number of said sire in the Clydesdale Stud Book runs over the shoulder (levator humeri). Pus forms of Canada. Signature will not be accepted unless the of the parts, followed by effusion of in
War seems to be inevitable in the matter of meat warranties. The meat traders are organizing in such a manner that it is claimed they can do without home such ownership appears on the books of the Clydesdale Horse Association of Canada.

the dam at the time she was served. The first muscle, is fed by enlarged blood vessels and caused owner is the owner of the dam at the time the to increase in size by further irritation of the collar.

When such a condition starts, there is a large or small colt was foaled.

shall be considered until the fees are paid, nor applications will remove the pus, nor does the applishall any number be assigned to the pedigree until cation of a blister avail. The knife is needed and in every requirement has been complied with.

animal, the buyer must obtain from the seller a certificate of transfer written in ink upon a blank cleansed finger being introduced to break down adform procured from the Record Office, which will, hesions and help remove clots which may have when returned to the Record Office, accompanied formed. Following the evacuation of the pus the by the original certificate of registration, be cavity should be syringed tightly with full tincture of entered upon the record. The certificate of trans- iodine and then packed tightly with full tincture of fer shall be endorsed on the back of the original day, the first dressing having been removed, oakum and the statement of sound parts turned in a manufacture of fer shall be endorsed on the back of the original day, the first dressing having been removed, oakum are condemned compensation is to be paid to the certificate, and returned to the applicant. Transsaturated in a mixture of equal parts turpentine and fer will be required from the first and succeeding raw linseed oil should be inserted, and this is to be cattle selling at less than £8 the scheme shall not apply apply. In the event of cattle being condemned the purpose of identification. animal is a female, it must be stated whether or get anything in the cavity. not she has been served. If served, the date of failing to evacuate the pus the only recourse is the service must be given, with the name and record knife. The tumor has to be cleanly dissected out, number of the sire, certified to by the owner or and this is a somewhat heroic and bloody job as the his authorized agent.

stated when applying for registration, and the sex or using a red hot iron to cauterize the bleeding vesgiven of the animal with which it was a twin. Should a twin be entered upon the record without quent treatment consists in use of the absurged of the should a twin be entered upon the record without quent treatment consists in use of the absurged of the should be recorded in th such statement, no subsequent application for the ing advised for the treatment of abscess of the shoulentry of animal twin with the same shall be accepted.

Such statement, no subsequent application for the ing advised for the treatment of abscess of the shoulentry of animal twin with the same shall be accepted.

Where a tumor returns it has not and permanent.

or transfers of descendants of such animal, and it is best to employ a qualified veterinarian for the tive report has been issued. subsequent applications for entry or transfer work. The lancing and treatment of the ordinary abplicated in such fraud shall be refused.

ed in another Stud Book.

forth reasons why such certificate is required. Such declaration must be made on form provided.

11. The fee for registration of pedigrees shall

FOR CANADIAN-BRED HORSES

To Members-Animals under 1 year of To Members—Animals over 1 year of age

(b) Clydesdale stallions having five top-crosses To Non-Members—Animals under 1 year by sires recorded in the Clydesdale Stud Book of of age Canada, and Clydesdale mares having four top- To Non-Members—Animals over I year crosses by sires recorded in the Clydesdale Stud of age

Book of Canada. In all cases of Canadian-bred Transfers animals, the dam must be recorded before the Duplicate Certificates

affirmed to by the breeder before an officer computed from the first day of January of the year of foaling.

FOR IMPORTED HOPERS

1		TOR IMPORTED HORSES	
		E	Cach
	To	Members—Males \$	3.00
	To	If i n i	2.00
	To	37 37 4 77 4	4.00
	To	Non-Members—Females	3.00
		Annual membership fee, payable Ianuary	

Association must give three months' notice of

Address all correspondence and make all fees

Ailments of Horses' Shoulders

The continued irritation occasioned by the rubbing of a badly fitted collar may lead to several difficult forms of sore shoulders. Severe bruising of the 3. The owner of the sire of an animal whose muscles of the shoulder of a work horse, leads to inthis pus is given vent by the use of the knife, it tends to become thickened and voided of its fluids, whereupon nature surrounds the sac with a fibroid wall, 4. The breeder of an animal is the owner of constituting a tumor which lies imbedded in the When such a condition starts, there is a large of shall salop, and threatened a boycott. The local families abscess indicated by a rounded, hot, painful swelling association refused a warranty, and the sale proceeded. Many buyers were present, bidding was be considered until the fees are paid, nor applications will remove the pus, nor does the applibrisk and trade was good. As high as £27 10s., was each case should be freely used, after removing the

Where a fibroid tumor has formed as the result of blood vessels of the part having enlarged, bleeding is When an animal is a twin, it shall be so apt to be profuse but as a rule this is easily stopped by packing the cavity on conclusion of the operation, 8. When the pedigree of an animal may have been perfectly removed, or it has been due to a fun-8. When the pedigree of an animal may have been admitted or ownership transferred through misrepresentation or fraud, the Board of Directors shall, on the discovery of the same, declare the entry or transfer void, together with any entries skill is required in conducting a successful dissection, much needed work along these lines, and an instruction of the same of

owner, where competent assistance cannot be had. name when necessary, preserving, however, as far of the shoulder, not involving the uscles deeply and cane sugar, molasses and cellulose, are freely assimias practicable, some characteristic of the name having on its surface a round, red sore. These baggy lated. given in the application. The word "Young" tumors tend to swell up under pressure of the collar shall not be used in connection with the name, and fail to heal although persistently treated with unless the pedigree has been previously so recordan astringent, antiseptic lotion, such as a mixt-10. No duplicate certificate will be issued un- ure of one ounce of sugar of lead and six drams of less a statutory declaration of the applicant (who sulphate of zinc in a pint of water. This mixture is sprouted over unsprouted seed was 1 ton 18 cwt., must be the recorded owner) is supplied, setting poisonous and should be so labeled, and as a heavy per acre. In the following year again of 1 ton 9 cwt. precipitate falls when it is not in use it should be thoroughly shaken before application. It should be used several times a day. Often it is not necessary to remove all of the tumor, as in some cases the removal of the center will be followed by absorption of the tumified tissues. Iodine applications may be used The method is well wor with some degree of success while the horse is being interested in potato culture. worked and until he can be laid aside for the operation described. A suitable lotion for use in the last .00 mentioned cases is made by mixing together two 2.00 ounces of tincture of iodine and six ounces of extract garding the feeding of draught horses. A Yorkshire

of witch-hazel. This should be applied with a brush 2.00 night and morning and before the horse is put to work a little carbolized vaseline may be applied to the sore. It is much better, however, to operate than to bother with the treatment of these tumors an en-

to bother with the treatment of these tuniors and tire season without the hope of final cure.

For ordinary "galls" of the shoulder an ointment composed of one dram of iodoform, and one dram .50 each of tannic and boracic acids to the ounce of lard 2.00 will be found useful, but in all cases it is absolutely necessary to improve the fit of the collar and to keep the collar clean and dry when the horse has much work to do in warm weather or on hilly ground where great strain comes upon the shoulders. Dirty, sweaty, roughened, tight or too loose collars accounts for most of the ailment we have considered, and more care in such matters will greatly lessen the prevalence of sore shoulders, while properly fitting collars and nicely adjusted hames, tugs and wagon or implement poles will have as sure an effect in preventing sore necks. The lotions suggested above will also prove effective for the latter form of harness galls

A. S. ALEXANDER, V. S.

STOCK

Comment upon Live-Stock Subjects Invited

Live-Stock and Farm News from Britain

OUR ENGLISH CORRESPONDENCE

cattle. The Central Chamber of Agriculture advises farmers to boycott all members of the Meat Traders' Federation who demand a warranty, and generally to maintain their firm attitude.

The butchers made their first demand for a warranty at the Easter auction sale at Wellington, Salop, and threatened a boycott. The local farmers'

given for Welsh bullocks. every requirement has been complied with.

each case should be freely used, after removing the A scheme has been proposed to overcome the difficulties besetting the warranty question. It is animal, the buyer must obtain from the seller a tion. The incision must be made deep to reach the suggested that "fat" cattle sold at auction shall be sold as fit for human food, but this guarantee shall only hold for six days. If the cattle should again change hands the condition would be void. A compensation fund is proposed by making a charge of sixpense per head on all fat cattle sold, half to be paid by the seller, and half by the buyer. If cattle identification.

> The sale of Lord Rothschild's famous herd of Red Polls brought an enormous crowd to Tring Park. No. outstanding prices were realized, but the average was good, bulls making £36 18s., and cows and heifers £24 18s. 4d. The herd realized 1,883½ guineas. For the champion cow of the breed, "Clarissa" Mr. George Taylor paid 70 guineas.

England has long lagged behind Germany and the United States in certain lines of agricultural investigation, and in no branch has this been so noticeable

By actual data the feeding value of many fooddependent on the signature of any person im- scess caused by the collar may be carried out by the stuffs is shown, and these show how unreliable it is to depend on chemical analysis alone as the percentage Speaking of the fungus it may be added that it of digestibility is so very variable. As much as from 9. Duplicate names should be avoided. To causes another form of shoulder "gall." This is of 40 to 60 per cent. of the calculated value of some foodthis end, the right will be reserved to change any the nature of a baggy tumor situated near the point stuffs is not utilized in digestion. Others, such as

> Many field trials to ascertain the value of sprouting seed potatoes in boxes before planting them have been recently made in Britain. The results indicate that the method is profitable.

> In one experiment in 1905 the average gain of was shown.

On twelve farms in 1907, the average gain was 2 tons per acre, and on fourteen farms in 1908 the gain averaged 2 tons 14 cwt. In addition there were fewer small potatoes, and less disease

The method is well worthy of trial by anyone

Some valuable information has come to hand re-

stud of 240 horses used for draught purposes have been kept for a long period at moderate cost. The stud has not been troubled by colic, and ailments of any kind have been very few. On an average not more than two horses per week were unable to work, and this is an unusually small number in so large a stud.

The horses in question were fed a weekly ration of 56 pounds of oats, 14 pounds of maize, and 49 pounds

An ordinary day's ration was about as follows:— 18 pounds of hay, 8 pounds of oats, 2 pounds of maize, and 7 pounds of bran. 8 pounds of peat moss was used as litter.

These rations were mixed at home as it was found that if blended by the manufacturers they could not be relied upon, maize especially, being cheaper, was used to excess. Maize in quantity is fattening and not desirable for draught horses. One highly lauded purchased food was found to be 85 per cent. maize.

For eight years experiments have been in progress in different countries to find the best manurial dressing for meadow lands. A summary of the work so far conducted gives the following mixture as giving the heaviest yields and greatest profit:—1 cwt. nitrate of soda, 2 cwt., superphosphate, 2 cwt., kainit per

Ten tons of farmyard manure per acre, costing 4s., per ton, gave a good yield, but resulted in a loss

The Irish Department of Agriculture has been testing various varieties of barley, and recommends the Archer & Goldthorpe types to give the largest and most profitable returns to farmers. The Chevalier types all proved inferior to Archer in yield. The department advises early sowing, except on the heaviest soils. Archer being an especially late ripener must be gotten in very early.

tional rent. In all seven farms were divided, and the

agricultural education was passed. * * *

The foreign trade returns for March show declines from last years total, but smaller than for some months past. The aggregate imports were £52,034,-063, and the exports were £31,904,673.

The amount paid for breadstuffs fell by £197,000which brings the shrinkage for the first three months of the year to nearly £2,000,000, a tribute to the good

Cattle imports declined by £340,000 and bacon was

March proved a cold, stormy month—the worst for a long time. As a consequence little farm work was done, and the farmers who took advantage of the mildness of early winter are to be congratulated.

The fine, bright weather of the first week of April has brought relief, and has been taken advantage of by farmers, and in Cheshire, especially a large acreage of oats has been sown. In some sections the land is still too saturated to be fit for tillage.

Shortage of keep is bringing large numbers of cattle to market, and prices have suffered. Fat sheep are

colonial competition is very keen.

The slump in potatoes still continues, and pro-

spects of any better prices are very slight.

Wheat is in strong demand at higher prices. Barley is not much called for, but oats are selling freely. Photo by C. & B. Rutter, Red Deer Leeds, England.



P. M. BREDT. 'Golden West Stock Farm,' Balgonie. Elected president of the Saskatchewan Cattle Breeders' Association.

Finds Ranch Sheep Infested with Liver Worms

EDITCP FARMER'S ADVOCATE:

Every half section in Manitoba can carry from

tional rent. In all seven farms were divided, and the lecturer gave particulars in each case. On one large estate the arrears of rent during twelve years were less than 2s. 6d. for each £100 payable.

One holder of 58 acres in 1907 fattened 20 head of cattle, and 116 sheep, spending £250 on cake and feeding stuffs.

**

The Daylight Saving Bill now before parliament proposes that the clock shall be put forward one hour in April for the summer months so that workers may have the benefit of more daylight after their labors end. Most sections of the Chambers of Agriculture are vigorously opposing it, and they claim that the measure is a foolish and unworkable one.

**

The hours between four and six in the afternoon of the bill, but some of the fall of 1906, I bought from a firm of ranchers, Magrath, Alberta, 234 range ewes, adding 136
Shropshire grades from J. Harkness, Lyleton, Manitoba, and the last of the Shropshires of the Prairie to establish a department of external affairs.

**

A new department of federal government is being considered at Ottawa, a bill being before the house to establish a department of external affairs.

The parallel of 1906, I bought from a firm of ranchers, Magrath, Alberta, 234 range ewes, adding 136
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Shropshire grades from J. Harkness, Lyleton, Manitoba, and the last of the Shropshire grades from J. Harkness, Lyleton, Manitoba, and the last of the Shropshire grades from J. Harkne In the fall of 1906, I bought from a firm of ranchers, * * *

The hours between four and six in the afternoon are said to be the best of the day for both corn and hay, and if work is dropped at five o'clock it would tell hardly on farmers. Morning dews would prevent an earlier start so the loss could not be thus overcome.

Hexible up and down, but no side motion, is somewhat elastic. As my pastures are now all contaminated, I shall keep my pure-breds in the stable in the hope of getting rid of this pest through the summer. I have some very expensive stock here, imported and other, that I cannot even offer for sale.

I hope readers will take warning from this overcome.

habit of the ranch make the chances of picking this parasite up less in the bands that in the farm flocks. I do not think it causes very great loss to ranchers, but on a farm it doubles losses and completely prevents profit. At the same time I feel certain all range sheep are afflicted and that no safe purchases can be made from that quarter.

A. A. TITUS.

Managing Show Sheep

While practical breeders depricate the necessity that requires sheep intended for exhibition purposes to be fed to a degree of fatness, beyond that which is either necessary for the well being of the animals, or for their utility when put into the breeding flock, it has become fashionable these days to fatten sheep for the shows, and the custom is too deep rooted to be broken. The exhibitor who wishes to be successful must therefore see that his exhibits are brought out with a depth of flesh and touch also, equal almost to that which is necessary to win in the fat stock show To bring out sheep and lambs in this forward condition is a matter that requires the greatest care and minutest attention of those who are responsible, and many sheep, particularly ewes and lambs, become broken down, or at any rate, to use a homely phrase, driven off their legs and feet," during this severe course of preparation.

To prevent the breaking down of stock intended for exhibition, regular exercise and plenty of it is a necessity. It is difficult sometimes to get rams, ewes or lambs, being heavily fed for the show-ring to walk about as much as they should, after they become heavy in flesh. Their feed usually is abundant and they do not have to travel far to get it. In the Old Country, where rather more trouble is encountered with sheep breaking down while being fitted for the Every half section in Manitoba can carry from twenty to thirty sheep on the wasted grain grass and weeds. Only sheep can clean stubble or summer fallow properly. Mutton is the only meat the farmer experiments in South Lincolnshire. One place mentioned was "The Crown Lands" at Burwell—a farm of 917 acres, leased by Mr. C. D. Rose, and sublet in 75 small holdings.

The total cost of equipment was under £2,000, of The same grass that will grow a pound of beef will make one of lamb or mutton.

Every half section in Manitoba can carry from twenty to thirty sheep on the wasted grain grass and weeds. Only sheep can clean stubble or summer fallow properly. Mutton is the only meat the farmer exercising of sheep on the halter. It may seem rather out of place with the average western breeder, this exercising of sheep on the halter. It may seem rather out of place with the average western breeder, this exercising of sheep on the halter. It may seem rather out of place with the average western breeder, this exercising of sheep on the halter. It may seem rather out of place with the average western breeder, this exercising of sheep on the halter. It may seem rather out of place with the average western breeder, this exercising of sheep on the halter. It may seem rather out of place with the average western breeder, this exercising of sheep on the halter. It may seem rather out of place with the average western breeder, this exercising of sheep on the halter. It may seem rather out of place with the average western breeder, this exercising of sheep on the halter. It may seem rather out of place with the average western breeder, this exercising of sheep on the halter. It may seem rather out of place with the average western breeder, this exercising of sheep on the halter. It may seem rather out of place with the average western breeder, this exercising of sheep on the halter. It may seem rather out of place with the average western breeder, this exercising of sheep on the halter. It may seem rather out of place with the averag fore the judge.

The oil trust is fighting a desperate battle to retain the duties on oil. As the new tariff bill passed the house of representatives, oil is on the free list. It is believed, however, that the senate will amend the measure, placing oil on the protected list.

vent an earlier start so the loss could not be thus overcome.

The Cumberland and Westmoreland Boards have passed strong resolutions against the measure.

A better system of education in rural schools in England is being persistently advocated, and a conference of agricultural associations has been assembled in London to foster the movement. The inadequacy of both teachers and facilities was deplored, and a resolution demanding vastly increased grants for agricultural education was passed.

I hop readers will take warning from this and buy stock from flocks only, not from ranch bands, without first killing and examining. In fact, all movement from the West of sheep should be watched and care taken at exhibitions that this trouble does not cause further loss. The veterinaries with whom I have communicated know nothing of this, neither have the veterinary books any information in the matter. The ranchmen do sometimes offer bands of choice stock, all the one grade, age and appearance, sufficient to tempt anyone. The roving the world are forced to pay for the commodity.



A SHEEP FLOCK NEAR RED DEER. WINTER QUARTERS INEXPENSIVE BUT COMFORTABLE.

Letters Upon Farming

Topics for

To afford an opportun ideas, and to provide a may be given and receiweek at the head of t topics, which our reade Opposite each topic is t contributions on it and 1 articles contributed on a must be in our hands than the subject is sched columns.

Readers will understa of the paper is entirely They are invited at all fully and freely expresmanner in which it is vited to suggest topics reader has in mind any may think could be pr be given a place in the or to the notice of the ed general interest. Becau at the head of the Famean that farm quest cussed. The discussio every department of the

For the best article we will award a first and for the second b the latter sum for ot subject received and pu Article should not ex

ORDER O May 12.-What meth for cream intended for d

creamery? May 19.-Which pay to stable feed and fatte feed them outside in yar. straw and grain, or to s farmers may think that of handling, offer pro they are invited to ex turning profit out of the Just now while the operations are fresh in

for the discussion of suc. May 26.—Describe 1 and what amount of ve are grown. Send photo Brinda Neville is contra which we would like our

Preparing the

Tell how to prepare either turnips, mangels sown, cultivation give suggestions you deem questions readers were experiences on for this those received are give some other practical h awards go to Th and G. E. Iveson, The attention of question on cattle fee issue of April 21st. is more pertinent at with experience in t favorable or otherwis that experience, that sum total of informa may be presented at for publication on th before May 10th.

The Growing of

EDITOR FARMER'S AD The soil best adapted may be grown upon hough cultivation. Sar but a light crop. In remember that summ yields, but roots can be seeding, which I do

chances of picking this that in the farm flocks. great loss to ranchers, es and completely pree I feel certain all range safe purchases can be

A. A. TITUS.

w Sheep

lepricate the necessity for exhibition purposes s, beyond that which is eing of the animals, or the breeding flock, it days to fatten sheep is too deep rooted to be wishes to be successful chibits are brought out h also, equal almost to in the fat stock show. in this forward condithe greatest care and ho are responsible, and es and lambs, become o use a homely phrase, t," during this severe

n of stock intended for I plenty of it is a necess to get rams, ewes or the show-ring to walk ld, after they become ually is abundant and to get it. In the Old trouble is encountered ile being fitted for the reised by the shepherd r. It may seem rather western breeder, this er, but the system has s the sheep exercise, eneficial to their wellenables those who are ion to train them to t advantage when be-

I government is being eing before the house ernal affairs.

one in 1908 by the life in Manitoba, show an the business of 1907. ill the companies.

perate battle to retain tariff bill passed the on the free list. It is nate will amend the

a advanced a cent a wheat due to the corr the United States will be advanced, and its perennial bills to fs. In the meantime, it," as the American Patten, sits in his sessing a bushel of



FARM

April 28, 1909

Letters Upon Farming Operations Welcomed.

Topics for Discussion

To afford an opportunity for the interchange of ideas, and to provide a place where information may be given and received, we will publish each contributions on it and readers are reminded that putting it in about two inches deep.

Cultivation should begin as soon as the rows can articles contributed on any of the subjects given, must be in our hands at least ten days earlier

of the paper is entirely and altogether their own. in the row. Thorough cultivation is what is necessary They are invited at all times to write the editor for a root crop. Cultivate and hoe the crop once a fully and freely expressing their opinion of the week or oftener, the oftener the better. Last year I manner in which it is conducted. They are invited to suggest topics to be discussed. If any reader has in mind any question which he or she may think could be profitably discussed, it will pected. be given a place in the order of subjects, if brought to the notice of the edition, and is of sufficient general interest. Because this notice runs weekly at the head of the Farm Department does not that it is easily harvested, but the yellow globe will mean that farm questions, only, may be dis- keep the best for spring feeding. cussed. The discussions will be spread over every department of the paper.

For the best article received on each topic, we will award a first prize of Three Dollars and for the second best Two Dollars, paying and for the second best Two Dollars, paying for small seeds. The carrots are sown in rows about the latter sum for other contributions on the subject received and published in the same issue inches high I thin the plants out till they are from the plants of the plants out the plants out the plants out till they are from the plants of the plants out the plants out till they are from the plants of the plants out till they are from the plants of the plants out till they are from the plants of the plants out till they are from the plants of the plants of the plants of the plants out till they are from the plants of the plants of

ORDER OF SUBJECTS

May 12.—What method do you follow in caring for cream intended for delivery to a cream gathering creamery?

May 19:-Which pays the average farmer best, to stable feed and fatten his steers in winter, to the drills dry out and the prospects are not as good for given the consideration it deserves. feed them outside in yards or in the scrub, on hay or a crop as if they were sown on the level. Just one straw and grain, or to sell them as stockers? Some remark about growing roots: Be sure and keep the throughout the country has been to continue breakfarmers may think that none of these three methods growing crop clean and well cultivated. Cultivation, ing three or more inches deep so long as the teams of handling, offer profit making possibilities so I think, is the one thing most possibilities are the drink dry dutant the prospects are not as good for some years past the general practice. of handling, offer profit making possibilities so they are invited to explain their own system of crops of roots. It keeps the ground with a good turning profit out of the cattle they rear each year. Just now while the experiences of a season's operations are fresh in the mind is a good time anyone should not have a bumper crop of roots of any even a fair crop on this land in the next succeed-

which we would like our readers to discuss.

Preparing the Land for Roots

Tell how to prepare the land for a crop of roots, Editor Farmer's Advocate: either turnips, mangels or carrots; how the seed is My method of preparing the soil for seeding and and G. E. Iveson, Saskatchewan, respective- snow to lodge, which difficulty may be overcome by ly. The attention of readers is directed to the spreading straw in winrows about twenty to thirty tivation. question on cattle feeding, published first in our feet apart, or by scattering brush over the field. In Summe

Carrots

the season is moist no bad affects will result; but to freeze—the tops, pull the roots, load them into should the summer be dry, the crop is apt to be very rough and rooty, and not a clean well shaped crop as you would expect. I always prepare my land in the fall, applying plenty of well rotted manure on stubble land, plowing it five or six inches deep, harrow it smooth and leave until spring. As soon as the land is ready in the spring, I harrow it well at first, once a week or oftener. This helps to kill the weeds and tweek or oftener. This helps to kill the weeds and tweets and turnips to feed four cows a patent pailful each every morning, dividing another pailful amongst three calves, fed the horses a half bushel about three retains the moisture. About the latter part of April I roll or pack the land to have it firm. The seed is sown with an ordinary wheat drill in rows, three feet apart. I test the drill by running it on hard ground to get the right thickness of seed. To get the right distance between the rows, block up all the spouts the season is moist no bad affects will result; but to freeze-the tops, pull the roots, load them into week at the head of this department a list of distance between the rows, block up all the spouts topics, which our readers are invited to discuss. not required with a small bag of grain and sow be-Opposite each topic is the date of publication of tween four or five pounds of mangel seed to the acre,

be followed, care being taken at first not to cover the than the subject is scheduled for discussion in our young plants. I always cultivate with a one-horse ultivator and do not cultivate very deeply till the lants are three or four inches high. At that time I Readers will understand that this department thin them out till they are about eighteen inches apart four pounds of mangel seed per acre, but the season being very dry, the crop did not do as well as I expected. Still I had about four hundred bushels per This year I am going to sow mangels on timothy, backsetting that has been well manured. I always grow the Perfection long red, and yellow globe varieties. I prefer the long red for the reason

I also grow field carrots and turnips with good suc-For these I cultivate the land same as for mangels. I always sow carrots the same time as mangels, only with a different seeder. I have a Planet Junior, No. 4, which is a most perfect machine Article should not exceed 500 words in length. four to six inches apart in the row. I sow about three pounds of seed to the acre and keep the land well cultivated during the season.

Turnips sown in drills are more easily a dry season. cultivated and thinned out, but if the season is dry

THOMAS WALKER.

Roots in Saskatchewan

The soil best adapted for mangels is loam, but they may be grown upon heavier clay soils if given thorough cultivation. Sandy and gravelly soils will yield but a light crop. In preparing land for a root crop, but a light crop. In preparing land for a root crop, it remember that summer fallow gives the largest yields, but roots can be grown to advantage on stubble feed the pigs, then I pull out what are smallest and remember that summer fallow gives the largest pields, but roots can be grown to advantage on stubble feed the pigs, then I pull out what are smallest and remember that summer fallow gives the largest pields, but roots can be grown to advantage on stubble feed the pigs, then I pull out what are smallest and remember that summer fallow gives the largest pields, but roots can be grown to advantage on stubble feed the pigs, then I pull out what are smallest and vantage of the June rains, and to prevent the feed the pigs, then I pull out what are smallest and vantage of the June rains, and to prevent the feed the pigs, then I pull out what are smallest and vantage of the June rains, and to prevent the feed the pigs, then I pull out what are smallest and vantage of the June rains, and to prevent the feed the pigs, then I pull out what are smallest and vantage of the June rains, and to prevent the feed the pigs, then I pull out what are smallest and vantage of the June rains, and to prevent the object has been to spend as little time as posland as a cleaning crop. The land for mangels should the field three or four times increasing distance at the object has been to spend as little time as posland as a cleaning crop. After seventeen years further experience and object has been to spend as little time as posland as a cleaning crop. The land for mangels should have a spend of the June rains, and to prevent the feed the pigs, then I pull out what are smallest and vantage of the June rains, and to prevent the feed the pigs are prevented from drifting, I am satisfied that one of the vantage of the June rains.

G. E. IVESON.

Preparing for Grain Crops in Saskatchewan

During the growing season of 1908, almost the entire western portion of the Province suffered from dry weather, and the majority of the new settlers either from unfamiliarity with the methods of cultivation for the conservatism of moisture, or through a desire to bring the greatest possible area under cultivation, naturally suffered a severe disappointment.

In some districts, where in former years moisture has been abundant and proper cultivation had in consequence been neglected in the effort to 'get rich quick,' the partial failure of the crop proved

an expensive lesson.

For many years, commencing in 1888, the methods of conserving moisture by "Breaking and Backsetting" and by "Summer-fallowing," now called "Dry-farming" for a change, have been recommended and universally adopted by the older settlers but to very many of the service of the commence. settlers, but to very many of the new settlers they are unknown. The latter, I trust, may be benefitted by the following explanation of the methods,

BREAKING UP PRAIRIE SOD.

For turnips keep the land well cultivated till about June the 15th, then sow the seed in drills or upon the level. I prefer sowing on the level, to insure against of the land for his first crop, and it is, therefore, of the utmost importance that the question of the land for his first crop, and it is, therefore, of the land for his first crop, and it is, therefore, of the utmost importance that the question of "Breaking" or "Breaking and Backsetting" be

crops of roots. It keeps the ground with a good top-soil and grow in the spring following. From mulch, which retains moisture, and moisture is the breaking so done before the end of June, a absolutely necessary for a good root crop. I think if good crop of wheat, oats or barley is usually obthese suggestions are followed there is no reason why tained, but no amount of cultivating will ensure anyone should not have a bumper crop of roots of any time anyone should not have a bumper crop of roots of any time anyone should not have a bumper crop of roots of any time anyone should not have a bumper crop of roots of any time anyone should not have a bumper crop of roots of any time anyone should not have a bumper crop of roots of any time anyone should not have a bumper crop of roots of any time anyone should not have a bumper crop of roots of any time and the first crop has been cut, the warriety. The turnip seed, I might say, is sown in soil year. After the first crop has been cut, the drills or rows thirty-six inches apart. When the soil is usually in a perfectly dry state and read what amount of vegetables, fruits, and flowers plants are three inches high they should be thinned out to twelve or fourteen inches apart in the row. I sow from two to two and a half pounds of seed per a latter of the first crop has been cut, the warriety. The turnip seed, I might say, is sown in soil year. After the first crop has been cut, the variety. The turnip seed, I might say, is sown in soil year. After the first crop has been cut, the soil year. After the first crop has been cut, the variety. The turnip seed, I might say, is sown in soil year. After the first crop has been cut, the variety. The turnip seed, I might say, is sown in the first crop has been cut, the variety. The turnip seed, I might say, is sown in the first crop has been cut, the variety. The turnip seed, I might say, is sown in the first crop has been cut, the variety. The turnip seed, I might say, is sown in the first crop has been cut, the variety. The variety and the first crop has been cut, the variety and the first crop has been cut, the variety and the first crop has been cut, the variety and the form of the first crop has been cut, the variety and the form of the first crop has been cut, the variety and the first crop has been cut, the variety and the first crop has been cut, the variety and the first crop has been cut, the variety and the fo

SUMMER-FALLOWS AND SUMMER-FALLOW-

ING. Among the many advantages to the credit of the practice of summer-fallowing may be mentioned: sown, cultivation given and whatever practical cultivation for the growing of field roots or garden at a time when no other work is pressing, the questions readers were invited to contribute their well rotted manure. The manure is spread and the experiences on for this week's issue. Several of applied to keep manure from drying out, to a depth minor advantages of having suitable land for the source of the source of having suitable land for the source of the source o The conservation of moisture, the eradication of experiences on for this week's issue. Several of those received are given herewith together with some other practical hints on root growing. The awards go to Thomas Walker, Manitoba, the open on plowed land it is very difficult to get the and G. E. Iveson. Saskatchewan, respective, and the plowed as soon as possible after manure is the carriest possible date in the spring, and the minor advantages of having suitable land for the growing of pure seed, potatoes, roots and vege-and left till spring. Right here I might say, that in tables at the least cost and with the greatest chance for success, and that of being able to secure

Summer-fallowing undoubtedly has some disadquestion on cattle reeding, published hist in our reet apart, or by bettering brash over the hear. In Summer landwing undoubtedly has some disadissue of April 21st. No question other than this sections where rainfall is heavy this precaution is not vantages; but so long as the growing of grain, and issue of April 21st. No question other than this sections where rainfairs neavy this precatation is not validages, but so long as the growing of grain, and necessary. So much for fall preparation.

In the spring, as soon as the drag harrow can be used, give the field a good harrowing. If straw has store up moisture against a possible dry season, that as much as possible of the wait for straw to be dry enough to burn before harrowing at least a possible of the sum total of information on the points raised. wait for straw to be dry enough to burn before harsum total of information on the points raised,
may be presented at one time. Letters intended
for publication on that question should reach us
before May 10th.

The Growing of Mangels, Turnips and

wait for straw to be dry enough to burn before harand on account of the short seasons, to prepare
at least a portion of the land to be cropped in
the year previous to seeding and a well made summer-fallow is the best means to this end. Among
the disadvantages are: The liability of the soil
but intend to grow some this season. I have found
the turnip and sugar beet mentioned, good growers
ger of damage by frost, and it is claimed, the
and large yielders, not having very many roots to
partial exhaustion of the short seasons, to prepare
at least a portion of the land to be cropped in
the year previous to seeding and a well made summer-fallow is the best means to this end. Among
the disadvantages are: The liability of the soil
but intend to grow some this season, causing late maturity and consequent danthe turnip and sugar beet mentioned, good growers
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ger of damage by frost, and it is claimed, the and large yielders, not having very many roots to partial exhaustion of the soil. The two former ake hard pulling.

may, to a greater extent, be overcome by different I plant the seed with a Planet Jr., No. 4, planting it methods of cultivation, and if the soil can be pre-

METHODS OF PREPARING NEW GROUND

the Northwest many new settlers who are unac- The seed that has come through can then be weighed quainted with the methods of breaking up and pre-paring new land for crop, a few suggestions with mined. The method is very simple, and is abso-regard to this important work may not be amiss. lutely reliable.

T. R. GARTON, regard to this important work may not be amiss. lutely reliable.

"In all sections where the sod is thick and tough, breaking and backsetting should be done; while in the districts where bluffs abound and the sod is thin, deep breaking is all that is necessary.

BREAKING AND BACKSETTING

ince, and while this method does not permit of as cultivation it should be used. greater number of districts throughout the provlarge an acreage being brought under cultivation in the year, it does permit of more thorough work the drill and ensures better results in the long run. The 2. Sh anxiety of nearly all settlers to sow every acre re-packer been accomplished, may be given as the reason for fallow? Also fall plowing? breaking and discing, to a large extent, superseding the older, better and safer plan. ing the older, better and safer plan.

Breaking and backsetting means the plowing after the grain is up?

If you can give means the plowing after the grain is up?

of the prairie sod as shallow as possible before the June or early July rains are over, and in August this subject it will be thankfully received. or September, when the sod will have become thoroughly rotted by the rains and hot sun, plowing and then harrowing to make a fine and firm seed-bed. From land prepared in this way, two good crops of wheat may be expected. The first crop will be heavy and the stubble, if cut high at har-neither should it he used when any class of soil vest time, will retain sufficient snow to produce neither should it be used when any class of soil mustard seeds on the surface, the idea being to bury the moisture required, even in the driest spring to germinate the seed for the next crop. The stub-ble land can readily be burned on a day in the spring with a warm, steady wind, and the seed may be sown with or without further cultivation. In a case where the grass roots have not been entirely killed by the backsetting, a shallow cultivation before seeding will be found advantageous, but, as a rule, the harrowing of the land with a drag harrow after seeding will be sufficient.
"The principal objection to breaking and back

setting' is urged with regard to the backsetting, which, no doubt, is heavy work for the teams but if the discing required to reduce deep breaking and then the plowing or other cultivation that must be done in an effort to obtain a second crop, be taken into consideration, it must be conceded that in the end 'breaking and backsetting' is the cheaper and better method.

When two crops have been taken from new land, it should be summer-fallowed.

"The former is generally applicable to the southern and western portions, and the latter to the northern part of Saskatchewan, where the land is more or less covered with bluffs.

The sod should be turned over as thin as possible, and for this purpose a walking plow with a 12 or 14-inch share, is the best. When the breaking is completed (which should not be later than the second week in July), rolling will hasten

Backsetting is merely turning the sod back to its original place, and at the same time bringing up two or three inches of fresh soil to cover it. Two inches below the breaking is con-powder, or it may drift with the wind. turned. sidered enough, but three or four inches will give

fine, and the use of the disc or Randall harrow to cut up every piece of unrotted sod will complete grain is up.

DEEP BREAKING

Deep breaking, which in some sections of the case packing should be deferred for a time new land, and which is, unfortunately, done in some until it has dried up somewhat.

H. W. Campbell says, "Sub-surface packing of in some sections in the modern method of eradicating mustard, but there are circumstances in which it is not practical. Considerable water is required and usually from four to five inches.

is necessary to have the work completed early, so surface and the loosened soil of the furrow.' as to take advantage of the rains which usually At Brandon I found that summer fallowed land come in June or early in July. These rains cause plowed early, and, properly worked during the the sod to rot, and without them, or if the plow- summer was moist from near the surface to a practice is to seed with a nurse crop, preferably sowing is done after they are over, the sod remains in depth of seven feet, while adjoining old stubble ing the grain a little light, say of barley, at the rate of

of work will make up for the loss (Continued on page 645.)

Test Drill for Thickness of Seeding

FERGUSON BROS.

ethod we use in our seeding operations on food instead of an injury. our seed farms, where very careful work is necessary,

the wheels, set it at a given point, measure the circumference of the wheel, and calculate how far that wheel would have to travel to cover a given amount of "In view of the fact that every year brings to land, then turn it until it has covered that distance.

Seed Specialist, Winnipeg.

When and Where to Use the Packer

Editor Farmer's Advocate:

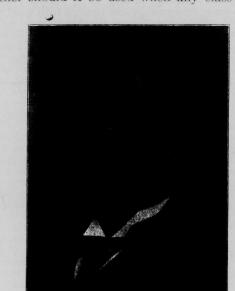
"Breaking and backsetting is the true way of I have purchased a land packer this spring, but laying the foundation for future success in the I don't know just at what stage of the process of

the drill, or does it matter which?

2. Should the land be harrowed after the

If you can give me any other information on

G. H. S. Man. The land packer should be used on ordinary two or three inches deeper in the same direction, sandy loam soil as soon after plowing as possible,



JAMES FOTHERINGHAM, GRENFELL. Grower of prize winning barley at Grenfell Seed Fair.

forming a hard crust on the surface, a condition considerable areas have been sprayed for mustard,

The plowing should be done in the same direction packer, but not too fine. The soil should be left of water, sprayed onto the crop at the rate of about as the breaking, and the same width of furrow in a granular condition, but not reduced to a fine

If the soil is in any way loose I should be afraid to use the packer after the grain is up, it would is required, and the cost of this together with the "After backsetting, the soil cannot be made too likely drive a lot of the plants too deep, and if the materials required brings the cost up to a dollar and

Summer fallow should be packed immediately and spraying the following season. "Deep breaking, which in some sections of the after plowing unless the soil is very wet, in which Spraying is the modern method of eradicating

give much more satisfactory results, consists in the soil is a process of following the plow imturning over of the sod as deeply as possible, mediately or otherwise, with implements which towards the end of June and during July, water is not ally from four to five inches. When the sod crush down the loose soil of the under portion available for the purpose. In case of rain, too, imhas rotted, the top soil should be worked and of the furrow slice, breaking up the large lumps, mediately after, or within twenty hours or so of the has rotted, the top soil should be worked and of the furrow since, breaking up the large fullips, made as fine as possible. The use of harrow or and compacting the whole so that the particles spraying, the treatment will have no effect, and the disc will fill up all irregularities on the surface, of soil lie closer together and form a perfect conoperation has to be performed again. Two treat-I make a fine, even seed-bed.
Whether the land is broken shallow or deep, it nection between the unbroken earth beneath the ments generally are required in a season.

M. A. C. S. A. BEDFORD.

ject in the Annual Report of the Experimental is to set the drill on a clean floor, then raise it off Eradicating Wild Mustard and Seeding to Timothy

EDITOR FARMER'S ADVOCATE:

My land is badly infected with mustard. Summerfallowed it in July and August last year, but lots of mustard seed was ripe when turned under. How may it be eradicated? Have been advised to sow barley and timothy together. What is your advice? If I sow barley and timothy how much of each to the

NEW SUBSCRIBER.

Mustard, once it has become well entrenched in land, is a difficult weed to eradicate, so difficult in fact, that we have seen farms after years of the most careful cultivation and hand pulling of the weed, still ditivation it should be used.

It is difficult to get rid of for the reason that the seed retaining of the weed, still infested with the pest. It is difficult to get rid of for the reason that the seed retain their vitality longer in a dormant state, than the seeds of any other weed perhaps that we have. It follows therefore that in cultivating to eradicate mustard in badly infested soil, one is continually turning up fresh seed from below, or bringing it up near enough the surface to permit of germination. The result is that for some years, even though no plants have been permitted to mature seed, the weed will still persist with almost unabated luxuriance. In the older sections of the country, where labor is less at a premium than it is here, hand pulling is the means usually recommended, together with a properly planned system of cultivation and crop rotation, as a means of eradicating mustard. Here, however, hand pulling is entirely out of the question, except in a very limited way. good way to fight the pest is to harrow the stubble land as soon as the crop is off in the fall, and start the as few seeds as possible with the plow. In the spring after the grain is up, harrow the crop with a weeder or light harrow, to cut off any plants that may be starting, and also to produce conditions favorable for the germination of the seeds lying near the surface. Some farmers hesitate to harrow the growing crop, fearing that the grain plants may be dragged out, but experience goes to show that no fears on this score need be entertained, providing the land is in condition fit for harrowing, and the work is done with light or slope-toothed harrows. Wheat will stand a good deal of harrowing, more than oats.

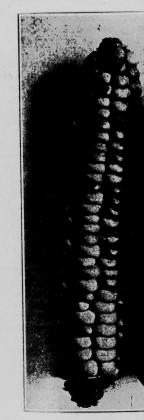
The next problem is to get after the seeds near the surface, started into life by the harrowing, but not If the affected area is small, hand pulling may be resorted to, spudding or other means of destroying the plants. It is necessary, as much as possible, to prevent the mustard from producing seed. Cultivation up to this point has been for the purpose of starting all the seeds in the surface zone into life; the problem now is to cut the plants from these off before seed is borne to reinfest the soil. Probably the most effective method of doing this, where a large area is being handled, is by spraying with chemical mixtures. Spraying as a means of eradicating mustard and certain other weeds, susceptible to the action of the mixture used, has lately been widely experimented with. Last season some work was done in the West on a large scale and with a fair dethe rotting process and permit backsetting to comis saturated with water, as there is then danger of gree of success. In North Dakota and in Ontario, forming a hard crust on the surface process. very unfavorable for grain crops of all kinds, and with satisfactory results. The mixture ordi-The land should be harrowed directly after the narily used is two pounds of bluestone to ten gallons forty gallons per acre. It destroys the mustard without injury to the grain crop. A spraying outfit the stubble after harvest, harrowing the grain crop

Some valuable hints on the seeding of timothy were given in our issue of February 3rd last. The usual the same condition as when turned, and no amount land was dry from the surface to a depth of six a bushel to the acre, seeding the timothy by means of feet, showing clearly that a properly managed the ordinary grass seeder that may be procured for fallow is a great restorer of moisture to the soil. most drills, and sowing about eight pounds per acre. Then again a good summer fallow will be the If you have no grass seeder on your drill, scatter the means of greatly reducing the amount of old stub- timothy seed on the land by hand, or use a hand ble and other trash which so greatly tend to keep our Western soil open to the drying winds of summer. The moisture of the fallow rots this vegetable matter and it becomes excellent plant not advise the sowing of barley and timothy seed together, that is, mixing the grain and seed together

Corn is the only cereal of any importance grown on this continent that is native to the new world. When the Span gan their explorations barred their westward w spicy islands of the eas plant cultivated by the r In the north, from what nearly the northern limi ward through the tropic latitudes of the temper Remains of different var in the ancient tombs of and Peru, indicating the the Europeans came, co grown by the people Europeans took seeds of Old World and introduc Egypt, Turkey, and countries bordering u the Mediterranean, the it has never attained Europe anything like prominence it has in Ame as a staple cereal crop. people of the United St consume each year per h 5.3 times the quantity corn, which they cons of wheat, several times quantity of corn which consume of any one grain grown. Nor are United States the only tion of America where bulks large as a farm Ontario produces each more bushels of corn she produces of any o save oats, and seventy per cent of her corn c from the Lake Erie cour the portion of the prolying southward of the b dary marked on the nort beyond the northern li corn for grain, the cerea purposes, and as we in hope at the moment of grain product of the C the growing of the plan

April 28, 1909

most of us interested a Corn is known bota botanical characteristic our other cereals and appreciated if we remen the grass family and b of plants as wheat, o It develops in much t the other cereals, that istics as regards grow very similar. It differ the grass family in the



SQUAW CO Showing how the native cor

ard and Seeding

mustard. Summerlast year, but lots of turned under. How been advised to sow What is your advice? much of each to the

NEW SUBSCRIBER.

e well entrenched in dicate, so difficult in ter years of the most ling of the weed, still ficult to get rid of for their vitality longer ds of any other weed ws therefore that in rd in badly infested up fresh seed from nough the surface to sult is that for some ve been permitted to persist with almost older sections of the a premium than it is sually recommended, ed system of cultivaneans of eradicating d pulling is entirely very limited way. harrow the stubble the fall, and start the ie idea being to bury plow. In the spring crop with a weeder plants that may be iditions favorable for ing near the surface. w the growing crop, nay be dragged out, no fears on this score the land is in condiwork is done with Wheat will stand a

in oats. er the seeds near the harrowing, but not small, hand pulling other means of desary, as much as posrom producing seed. been for the purpose urface zone into life: plants from these off e soil. Probably the this, where a large aying with chemical ans of eradicating s, susceptible to the s lately been widely on some work was e and with a fair deota and in Ontario, prayed for mustard, The mixture ordiestone to ten gallons at the rate of about stroys the mustard

A spraying outfit s together with the t up to a dollar and s by again harrowing wing the grain crop

thod of eradicating ances in which it is ter is required and ng season, which is ng July, water is not ase of rain, too, imy hours or so of the e no effect, and the again. Two treateason.

ling of timothy were 3rd last. The usual rop, preferably sowparley, at the rate of imothy by means of lay be procured for tht pounds per acre. our drill, scatter the and, or use a hand day, and giving the rwards. We would and timothy seed n and seed together

April 28, 1909

Corn is the only

cereal of any impor-

tance grown on this

continent that is

CORN GROWING IN WESTERN CANADA

native to the new world. When the Spaniards and Portugese be- a pithy substance and its sex organs arranged crop, corn offers the advantage of producing gan their explorations of the continent that somewhat differently to what we find in the a larger acre yield than any other farm barred their westward way, from Europe to the cereals or grasses. But these largely are botanical crop grown. As a crop for the eradication of spicy islands of the east, they found the corn differences and of little significance to the corn weeds the growing of it, if proper cultivation is plant cultivated by the natives of both Americas grower, less significant to the grower of fodder given during the growing season is a method In the north, from what is now considered very corn than to he who grows the plant for grain, superior to summer fallowing. As a regular crop nearly the northern limit of corn growth, south- Five distinct varieties of corn exist naturally, for a mixed farm it is very nearly a necessity. ward through the tropics and on until the cooler the deut variety with wedge-shaped kernels and Corn is a rank feeder and requires a good deal latitudes of the temperate south were reached indented top; flint corn, with hard smooth, of moisture to attain its proper development. in the ancient tombs of Mexico, Central America with an elongated oval kernel, extremely hard almost as one may desire, the manure serving the

Egypt, Turkey, and the countries bordering upon the Mediterranean, though it has never attained in Europe anything like the prominence it has in America as a staple cereal crop. The people of the United States consume each year per head, 5.3 times the quantity of corn, which they consume of wheat, several times the quantity of corn which they consume of any one other grain grown. Nor are the United States the only section of America where corn bulks large as a farm crop. Ontario produces each year more bushels of corn than she produces of any cereal save oats, and seventy-five per cent of her corn comes from the Lake Erie counties. the portion of the province

lying southward of the boun-

beyond the northern limits of the cultivation of standpoint. Flint corn, as a general rule, re-soon as it has made sufficient growth. If inpurposes, and as we in this country have little the average it does not produce as heavily to the with the binder, corn harvester or sickle, stook it hope at the moment of ever seeing corn a staple acre, of either grain or fodder. Soft corn is the in the field until cured, and, later in the fall, stack grain product of the Canadian prairies, it is in kind the Indians make a specialty of growing and near the barns. The silo has been used successthe growing of the plant for fodder purposes that is better known perhaps as "squaw corn," sweet fully in this country in several cases for the curing most of us interested at all are concerned.

our other cereals and to grasses, may best be cob of dent corn.

Corn is known botanically as zea mais. Its The illustration given herewith shows the de-subject of the silo and silage is one for considerbotanical characteristics and its relationship to sirable and undesirable characteristics of a good ation at some other time. It has been tried, appreciated if we remember that it is the giant of On the uses of corn several volumes might be method of handling the corn crop may be suc-

A MANITOBA CORN FIELD GROWN FOR FODDER

the grass family and belongs to the same family written and the various purposes for which this cessfully carried on. of plants as wheat, oats, barley, timothy, etc. plant and its grain are utilized only partially burnt as fuel. The pithy matter within the stalks is used for packing between the armor plates of battleships, because of the wonderful power of the pith substance to expand when wet, thus when the armor is pierced below the water line the pith packing swells out and fills the perforation. The same substance likewise is used in the production of cellulose, high explosives, etc., in fact, more uses have been developed for the various parts of this plant than for any other produced. From the standpoint of the corn grower of the Canadian prairies, the most important use of corn, it's most important use anyway, wherever grown, is as a fodder plant for live-stock, a fodder ideally adapted both for summer and winter use.

We have only touched the edge vet in this country, of our possibilities in fodder corn production. For years the experimental farms of the West have carried on experiments with different varieties and with different methods of growing, that form a valuable guide to those undertaking the cultivation of corn for the first time; here and there, all over the prairie provinces, farmers have experimented with the crop on their own land and many successful demonstrations have been given in this way. The acreage annually planted to the crop is increasing and will continue to increase as mixed farming develops, as dairying becomes a more permanent branch of our agriculture, as the absolute necessity becomes recognized of providing succulent feed for the production of milk in winter and as

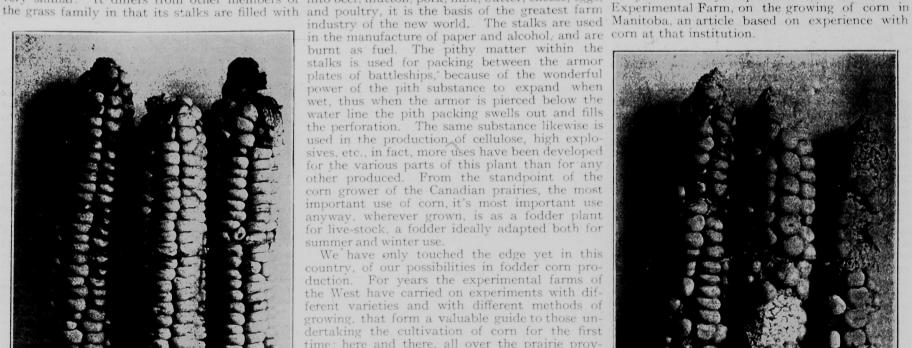
the value of corn as a summer and winter feed becomes more generally appreciated. As a fodder

Remains of different varieties of corn were found glossy grains and smooth top; pop corn, a variety The soil it is sown on may be manured as heavily and Peru, indicating that for generations before and more or less sharply pointed; soft corn with dual purpose of feeding the crop and holding the the Europeans came, corn was the staple cereal easily crushed kernels, and sweet corn, that type spring moisture for the use of the plants in the grown by the people of this continent. The in which the kernels are wedge-shaped, very dry season. For best results corn should be Europeans took seeds of the corn plant to the much wrinkled, sweet to the taste and when sown on the warmest land on the farm, on the Old World and introduced it into Spain, Sicily, mature, hard. The dent variety is the most im- part least subject to early fall frosts. Experience

shows that the best method of sowing the seed is with the grain drill, plugging up the grain spouts in such a way that the corn is sown in rows from three feet to forty inches apart, the quantity of seed sown being regulated by testing the drill on the road, or on a hard piece of ground before starting in the field, in order to guage the proper amount of seed to sow. It pays to make a germination test of the seed before it is sown. The crop may be harrowed without injuring it in anyway until the plants have reached a height of six inches or so. After that the one-horse cultivator is the best implement to use, regulating the depth of cultivation, making it more shallow as the lateral roots of the corn develop.

dary marked on the north for the corn belt. But far portant of these both from the grain and fodder For fodder purposes the crop is ready to use as corn for grain, the cereal may be grown for fodder quires several days longer to reach maturity, on tended for winter use it is usual to cut the crop and pop corn are grown only for garden purposes. and storing of the crop for winter use, but the however, sufficiently to demonstrate that this

We will publish later a number of contributions It develops in much the same way as wheat or discussed. Without one exception corn has the by practical corn growers, on the methods which the other cereals, that is, its general character- most diversified uses of any plant grown. The they have employed successfully in the growing istics as regards growth and reproduction are grain as such is a staple human food; transformed of this crop. Appended hereto is an article by very similar. It differs from other members of into beef, mutton, pork, milk, butter, cheese, eggs, Mr. James Murray, Superintendent of Brandon



SOUAW CORN (UNSELECTED)



SQUAW CORN (SELECTED). how the native corn may be improved in a short time.
very hardy.

April 28, 1909

others published.

The question of how to garden that is to be, is one sidered. Very different t to virgin prairie soil, from

garden. Supposing you are a new little patch of new breakir best thing to do in that of piece thoroughly, till all the A few strokes of the drag-improve it. Do not roll the exposed to the wind it we fine, and the soil will blow seeds with it, or else cuttir and stems of the young tene

If you have the good fort



summer fallow near the ho for a garden. Usually it should be rather light fo certainly more convenient land; but I have seen b heavy clay soil. It really kind of soil you have to garden almost anywhere need is perseverence, and life. If you are starting a I would advise you to ple If the soil is heavy, you n but in any case it is bette raw soil all at once. If the last season; do not plow however, be harrowed, to surface as soon as possible moisture for use during t allowed to become hard, after the snow goes off, a

If the land is new, who fallow, I would not advis

Decide where the garder shape.

evaporate.

Forty yards wide by one a very good home garden. house as possible, so that to do with these matter vegetables at a moment's to have to go a long distar onion or parsley for flavor is close at hand, many a w of hoeing done, in spare m it a pleasure to care for gr

If the garden is an old plow it. Let the plowir garden gets older, the plov year. A little well-rotte

Corn in Manitoba

per acre of any of the crops grown in Manitoba, rows 36 inches to 42 inches apart. and is adapted to being grown much more exbe secured.

about the right distance apart. Fifteen to and may be drawn to the stable as wanted during twenty pounds of seed is sufficient for an acre the winter. Indian corn is the heaviest producer of fodder when the corn is of good vitality, and sown in Where a large acreage of corn is grown, the

tensively than it is at present. With the in- pends on getting suitable varieties. The heavy cutting box when green and stored in the silo, crease in the numbers of live-stock kept, the late varieties will undoubtedly produce a heavier an air tight chamber. The efficiency of the silo acreage will doubtless expand, but even at present yield of green fodder per acre, but as they have depends upon its being air tight and of sufficient it only requires to be better known to be more ap- to be cut before they are nearly mature and often depth to insure the corn being packed properly. preciated and grown more largely by those who before they are in tassel, the quality of the fod- It should have no sharp angles and have no have cattle to feed. Corn is an excellent land der is not what it should be, and not nearly so obstacles on the inside surface to prevent unicleaner when properly grown and leaves the land good as when smaller earlier varieties are grown. form settling. The stave silo will probably conin first class condition for a grain crop to follow. The varieties that have been most commonly tinue to be the most popular, although when As a feed for cattle of all kinds it is unsurpassed grown in Manitoba are: Compton's Early, North cement is used the structure is more permanent, and may be fed in small quantities to horses and Dakota, White, and Longfellow. The average and will usually preserve the silage with less loss. pigs to good advantage. In our latitude, we can-vield of these varieties on this farm for the past not expect to grow it to the perfection that it is five years has been, 19 tons 1640 lbs., 18 tons Experimental Farms, and those contemplating grown in the corn belt, nor should we attempt 1924 lbs., and 22 tons 722 lbs., respectively, of building would do well to secure a copy to grow the same varieties, as we have a much green fodder per acre. Ordinarily these varieties shorter season and we must, therefore, adapt our do not reach any nearer maturity than the early methods to our conditions, if best results are to milk stage, and in unfavorable seasons are only in tassel. Such corn has not the feeding value While this crop will grow on almost any soil, that we find in corn more mature. For two The land on my homestead is a sandy loam, it thrives best on a rich, warm, well drained land years we have had North Western Dent corn on inches deep on a clay subsoil, and I would be glad if preferably with a southern slope. Land that has trial, and while it has not yielded as much per you would advise me with respect to the following

Ear No. 1 is almost ideal in form. It is well proportioned and strongly and uniformly

developed.

Ear No. 2 is too tapering in form, the tip is weak and the kernels are rounded and shallow. TI prefer not to sow barley on newly broken land, Ear No. 3 is too thick for its length, and looks blunt and coarse. Such ears are slow to mature and dry.

Ear No. 4 is too slender, showing a rather weak constitution. The kernels are shallow. Ear No. 5 is weak and irregular near the butt end, showing lack of vigor.

Ear No. 1 is the only desirable type in the group.

been in sod usually gives good results, provided it acre, it has reached the glazed stage before time is broken the year previous to when the corn is to for cutting, and has made most excellent feed, be sown and well worked down.

crop is a rank feeder, and will utilize a heavy believing that the difference in the value of the inches deep, harrow down at once, better if one has dressing without danger of lodging like grain feed is sufficient to offset the comparatively low a packer (a subsurface packer) to pack, than harrowing crops. Thorough cultivation pays well, and the yield. land should therefore be well prepared before the time for sowing. This should usually be not earlier than the 25th of May, as it is easily cut down with late frosts. Sowing broadcast has from the time of sowing until the corn is six with some light harrows, lever harrow preferred. system now obtains of either sowing in rows or hiils. Sowing in hills is done either with a special corn drill or with a hand machine, and while this method has the advantage of allowing cross cultivation with horse implements, it does not yield any more per acre, and has the disadvantage of being more difficult to sow. Sowing in rows is, everything considered, the most satisfactory method for the average grower. satisfactory method for the average grower. the weeds will grow uncontrolled, and one of the set down and braced, stooks thus treated will stand a Rows are sometimes made as close as 30 inches objects in growing this crop will thereby be deapart, but 36 inches is a better width and 42 feated. If left in the field for stook threshing and inches is a common distance. In order to get a strong growth of stalk, the plants should not be

broken the year previous to when the corn is to for cutting, and has made most excellent feed, dual purpose, starting weed seeds and conserving when the grant will be liberally manured, as this year ware sowing this variety almost exclusively the first to the middle of May I plow from five to six

may be used to good advantage every few days much good can be done by giving the land two strokes then, that would give trouble later. When the helping to retain moisture. harrows can be no longer used, the one or two-horse cultivator should be used occasionally until the crop is four feet high. Cultivation should be deep at first and gradually get shallower. The things to retain horse that the can be done till harvest. I prefer cutting, if possible, when the heads are fully ripe and the straw a little green. Make good sized bundles, with the twine good and tight. Stook-

closer than six inches apart in the row, but in of September, or before danger of frost. While be injured, its commercial value and value for show sowing it is advisable to count on having them some of the fodder may be fed green during the purposes is very much reduced.

somewhat thicker. The sowing can be done late summer as a soiling crop, most of it will resowing it is advisable to count on having them some of the folder may be fed green during the somewhat thicker. The sowing can be done late summer as a soiling crop, most of it will requite satisfactorily with a grain drill by plugging quire to be preserved for winter use. Where only up a sufficient number of the spouts to sow at the a small acreage is grown, the corn can be satisproper distance apart. Before starting to sow, factorily cured by stooking, putting about 250 to apply to set our concaves up too close and do considerable to characteristic and the solution of the solution the drill should be tried on a hard road or in a 400 pounds in each stook, sufficient to stand up in ing and show purposes.

most satisfactory means of preserving it is pro-Much of the satisfaction in growing corn de- vided in the silo. The corn is run through a

A bulletin on Stave Silos has been issued by the

TAMES MURRAY. Brandon Experimental Farm.

Inquiry Re Breaking

Would wheat be the best crop to grow on such land; if not, what other crop would give best returns? What method of breaking and cultivation

would you advise? Would you advise say, after the land had been plowed once or twice, to plow deep and turn up the sub-soil by small degrees, say, one inch at a time, and if that was done would it have a good or bad effect on the top soil?

1. The class of soil mentioned should prove excellent for wheat, but would also be suitable for

either barley or oats. There are two systems of preparing prairie for grain, called deep and shallow breaking. By the first plan the sod is plowed from four to six inches deep and then worked on the surface with a disc harrow, this plan usually leaves the sod only partly rotted and very dry, and for years afterwards the soil is filled with sods and refuses to yield a profitable crop of grain. The most approved plan is to plow the prairie as thin as possible with a breaking plow before the 7th of July, and when the sod is well rotted, which is generally about the end of August, backset by plowing two or three inches deeper in the same direction and harrowing as fine as possible. The last plan ensures a good crop the following year and leaves the land in excellent shape for future crops.

3. It is a good plan to gradually increase the depth of plowing until a maximum of from five to seven inches is reached, but the increase in depth should only be made in the fall or when plowing for summer fallow. If any quantity of new soil is thrown up in the spring by deep plowing it will remain hard and sour and seriously injure the crop. In all our farm operations in the west we should en-

deavor to have the soil moist and fine S. A. BEDFORD. M. A. C. A. Maria & Barrie &

Barley in Southern Alberta

The cob is large, but prefer land that has been cropped one or more The better the preparation, the better the crop, but not always the best quality, for this depends largely on the handling at harvest and after, which I will deal with later on.

My land is a strong, clay loam. I find that a good way to prepare it for sowing is to double disc and harrow it down early in the spring. This answers a

The next is the seed. I put on about two measured Frequent cultivation during the growing season is essential to satisfactory results. The harrows If the land is weedy and the barley has good root, inches high, as many small weeds are destroyed This answers a double purpose, killing weeds and

should be deep at first and gradually get shallower ing should be done right after the binder, with about as the roots fill the ground. Unless cultivation ten or twelve bundles in a stook and capped with one is given liberally, comparatively poor results are or two bundles. If the stooking is done after the inevitable, as not only will the crop be lighter, but binder, while the straw is yet green and heavy, well the weather is somewhat catchy, the grain soon be-Cutting will require to be done about the first comes stained and, while the feeding value may not

THOS. H. WOOLFORD.

ble as wanted during

corn is grown, the preserving it is pron is run through a stored in the silo,efficiency of the silo ight and of sufficient ing packed properly. ingles and have no ace to prevent unio will probably condar, although when

those contemplating ure a copy JAMES MURRAY,

is more permanent, silage with less loss.

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S. A. BEDFORD.

n Alberta

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when the heads are green. Make good l and tight. Stookbinder, with about nd capped with one g is done after the en and heavy; well treated will stand a barley should be took threshing and the grain soon beling value may not and value for show

hing to do with the hat tough and the threshers are very se and do consider rain for seed, malt-

H. WOOLFORD.

HORTICULTURE

April 28, 1909

The Farm Garden

SOWING EARLY VEGETABLES

free from lumps, should be spread over the garden before plowing, and a little more after plowing. This last should be harrowed in well, until it is thoroughly incorporated with the surface soil.

The topic announced this week for discussion in the ground is well thawed, often lie a long time in the the reason that the season is shorter, and if not marthe May 26th number is upon garden subjects.

Expect to get some good letters for that issue and will pay as usual \$3.00 for the best and \$2.00 for any others published.

The Farm Garden

The Farm Garden

The Farm Garden

The supon garden subjects. We cold earth before they commence to grow. If they keted at just the right time there is considerable loss. The need for an up-to-date and effective selling organization has been felt very keenly in the Koote-Several times I tried sowing hardy seeds in the fall, nay. For the past two years the operations of the order of during a thaw in February. Although the seeds germinated and gave a fair crop, they were slow, and the vegetables so grown were from one to two weeks a later than the same varieties sown after the ground contract with a selling expert from Hood River at a

The first seeds to be sown are as follows: Radish, (Continued)

The first seeds to be sown are as follows: Radish, lettuce, onion, cress, parsnip, spinach, beets, sugar in other words, the expense of selling \$25,000 worth of small fruits was found to be about \$5,000.

In addition to this the Kootenay Fruit Growers' sidered. Very different treatment must be given be sown early also. Radishes, lettuce, cress, spinach, to virgin prairie soil, from that required for an old beets, and early turnips should be sown several times, leaving from a week to ten days between the sollows: Radish, to the expense of selling \$25,000 worth of small fruits was found to be about \$5,000.

In addition to this the Kootenay Fruit Growers' Association sold their fruit through the B. C. Fruit through them were very unsatisfactory. One grower through them were very unsatisfactory. One grower who shipped 540 crates had received up to a short Supposing you are a new homesteader, and have a sowings, so as to have them always fresh and tender little patch of new breaking near your shack. The for the table. Carrots may be planted as late as best thing to do in that case is to disc-harrow the piece thoroughly, till all the sod is worked up finely. Seeds sown in April will yield best. If celery is to came back—some three or four months after the best earlier for the table. Carrots may be planted as late as time ago only \$128. Others were in the same possible time ago only \$128. Others were in the ag If you have the good fortune to have a good piece of bers, citrons, and pumpkins. Windsor beans should



AN EAST KOOTENAY ORCHARD. Located near Cranbrook, B. C.

kind of soil you have to start on. You can have a garden almost anywhere, if you will. What you a very short time by its use.

But often, in Saskatchewan, we have dry weather life. If you are starting a garden on very light land, is a the time when the seeds should start. Instead I would advise you to plow rather shallow at first. If the soil is heavy, you may plow it a little deeper; late rains commence. That is usually late for many but in any case it is better not to turn up too much raw soil all at once. If the land was summer fallowed last seasons do not rolow it this coring. It should last seasons do not rolow it this coring. It should last seasons do not rolow it this coring. It should last seasons do not rolow it this coring. It should last seasons do not rolow it this coring. It should last seasons do not rolow it this coring. It should last seasons do not rolow it this coring. It should last seasons do not rolow it this coring. It should last seasons the work well and it is an easy matter to sow a large garden in "Mr. Griffith's report will be awaited with interest, for while it is not likely that the financial returns will be encouraging, it is thought most likely that a thorough examination of the operations of the defunct exchange, will result in a number of valuable lessons from which further fruit organizations will be able to profit. Mr. Griffith's report will be awaited with interest, for while it is not likely that the financial returns will be encouraging, it is thought most likely that a thorough examination of the operations of the defunct exchange, will result in a number of valuable lessons from which further fruit organizations will be able to profit. Mr. Griffith's report will be awaited with interest, for while it is not likely that the financial returns will be encouraging, it is thought most likely that the financial returns will be encouraging, it is thought most likely that the financial returns will be encouraging, it is thought the financial returns will be encouraging. last season, do not plow it this spring. It should, however, be harrowed, to form a dust mulch on the allowed to become hard, and full of little cracks, time and surely. after the snow goes off, a great deal of moisture will evaporate.

If the land is new, whether breaking or summer-

house as possible, so that the woman who has most down. to have to go a long distance when one wants a bit of the seed. onion or parsley for flavoring. Besides, if the garden is close at hand, many a weed may be pulled, or a bit of hoeing done, in spare moments. Most women find loose. It is worse than useless to sprinkle the ground matter is that the growers have lost confidence in the co-operative effort to such an extent that in the

year. A little well-rotted manure, made fine and Sask.

heavy clay soil. It really matters very little what are just right. The drill does the work evenly and in which they were attempting to work. kind of soil you have to start on. You can have a well, and it is an easy matter to sow a large garden in "Mr. Griffith's report will be awaited with interest,

For several years I have followed a method of planting that seems to do away with all risk. It is a the exchange when told of the Government's action, surface as soon as possible, thus conserving all the lot of work, but I have found that it pays for the moisture for use during the summer. If the soil is extra work because the seeds always grow in good

I first open my drills to the desired depth. I use a Planet Jr., plow for this purpose, making the drills long, and about a yard apart. Then I sow the seed long, and about a yard apart. fallow, I would not advise adding manure the first carefully by hand. Next I fill my sprinkling can year.

Decide where the garden is to be, and what size and lie have I then turn the carefully in on them again with or beans, I then turn the earth in on them again with Forty yards wide by one hundred yards long, makes the plow. If they are fine seeds, I cover them very a very good home garden. It should be as near the carefully with a handrake, pressing the soil firmly Care should be taken not to cover the seeds to do with these matters may easily secure fresh too deeply. A good rule to follow is to cover all vegetables at a moment's notice. It is very awkward seeds to a depth equal to four times the thickness of

it a pleasure to care for growing plants, if the garden after seeds have been planted and covered. The moisture does not reach the seeds, and it makes the

The Fruit Growers' Problem in B. C

The fruit growers of British Columbia are grappling and grappling good and hard with the problem of The frost should be out of the ground before any selling their produce to the best advantage and this attempt is made to sow the seeds. Seeds sown before is more particularly so with regard to small fruits, for the topic announced this week for discussion in the ground is well haved, often lie a long time in the the reason that the season is shorter, and if not mar-

> later than the same varieties sown after the ground was warm.
>
> contract with a selling expert from Hood River at a large salary, but the organization was found to be too expensive, considering the limited output, or, in other words, the expense of selling \$25,000 worth

Supposing you are a new homesteader, and have a sowings, so as to have them always fresh and tender who shipped 540 crates had received up to a short

B. C. Government has appointed a chartered accountant to go through the books of the exchange, and the Victoria Colonist, in a recent issue has this

"The government has appointed Albert F. Griffiths, chartered accountant of this city, a commissioner under the Public Enquiries Act with power to take evidence under oath, for the purpose of enquiring into the affairs of the B. C. Fruit Exchange of Revelstoke, which has recently gone into liquidation.

"It will be remembered that the B. C. Fruit Ex-

change was started last year. It prepared to handle all the fruit output of the province and place the crop to the advantage of all concerned. In this way all were assured that there would be no fruit markets glutted one day and no fruit the next, no fruit would be left to rot in cars on sidings for want of proper arrangements, but, in a word, the situation would be handled in a businesslike up-to-date fashion.

Subordinate exchanges were organized in various districts to work with the central body and special agents were sent out on good salaries. There was nothing wrong with the scheme. It was one that has been successfully worked out in California and elsewhere. Just what was the matter it will be the duty of Mr. Griffiths to discover. Fortunately, the exchange only handled a portion of the crop.

"The season ended with the central exchange in debt to the local exchanges and no available assets beyond a few bad debts. The Victoria Association like others, has money coming to it from the Central Exchange but it was not nearly so badly hit as some on the mainland. The Nalson man seem to have on the mainland. The Nelson men seem to have been the worst hit, many of the fruit growers having little or nothing to show for the crop entrusted to the distributing organization.

"The one good point in a bad business is that there summer fallow near the house, you have an ideal spot for a garden. Usually it is thought best that land should be rather light for garden purposes. It is certainly more convenient to work in than heavy land; but I have seen beautiful gardens on very method and; but I have seen beautiful gardens on very method and the first crop of does not seem to be a suggestion of graft anywhere. The money has been lost by incompetent management but has not been stolen. It seems to be the such as the Planet Jr., for sowing their seeds. Their old story of a fascinating idea, insufficiently worked and the planet Jr. are just sight. The drill does the week every and in which they were attempting to work.

Mr. James Johnstone of Nelson, the president of said, that he was delighted to see that an enquiry had been decided upon. Regarding the exchange he said that the greatest opposition they had been obliged o contend with, was the Coldstream Packing Co. They had obtained a very large percentage of the shipments from the Okanogan district which had been promised to the exchange. Owing to this the exchange only received some 97,000 crates instead of the 400,000 promised by the growers. Not only did the tonnage of fruit not come up to expectations but it was a practice of many of the growers to sell only their second grade fruit to the exchange, while their first grade stuff was sold to the firm before referred to or direct to wholesalers.

Concerning the statement that some of the growers had received very little for their fruit, he asserted that was their own fault through careless packing and

The co-operative effort to such an extent that in the Kootenay at least, the local association will not at-If the garden is an old one, then it will be best to surface of the soil hard and impenetrable, so that tempt shipments this year. Of course the indiplow it. Let the plowing be done deeply. As a garden gets older, the plow should be set deeper each to break through the earth to reach the light and air. BRENDA E. NEVILLE. of the growers may make good contracts with big

retailers on the prairies, all cannot do this and as well

that a very effective means of getting over the keeps closer together, and thenceforth holds warmth would kill all disease germs, but as it has a strong difficulty would be to have a central exchange under better, and where this is used the hens may be odor and presumably a strong taste, fowls will not control of the government although just why there allowed more eggs. Straw is hollow, and so conducts might not be mis-management then, as well as now, the cold air to the eggs, especially in frosty weather.

Nest-boxes should be made considerably larger like fortune and presumably a strong taste, lowis will not define the water as long as they get along without. The best method I have found is to put a little period in frosty weather.

Nest-boxes should be made considerably larger like fortune and presumably a strong taste, lowis will not define the water as long as they get along without. The best method I have found is to put a little period for the water, as it is a good like the water as good like the water is hard to detect. There should be no reason, however, why a competent man or body of men under the than is generally allowed, as it is important that a disinfectant and nearly odorless and tasteless.

W. I. Thomas

POULTRY

organized at Okotoks, Alberta. Mr. E. A. Hayes

The German people consume annually some 1,000,000,000, necessitating the importation of some 2,500,000,000 eggs each year. These supplies are drawn from Russia, Asia Minor and Egypt chiefly.

or pound they sell for there determines the prices that this is done. can be paid in the wholesale trade the world over,

in the way of sportsmans' licenses will soon more nice and smooth.

will live in any cold climate, and well adapted to When the hen is sitting her wings rest on the side withstand the severe winters. They are somewhat of the nest and her feet go to the bottom, and this larger than the quail, not quite as large as the native is the reason why the comfort of the hen should be through same performance. Before going to bed at partridge, fly swiftly at different angles, and are studied. anything but an easy mark. The birds when hunted with a dog lie close to cover, and their flesh is said to surpass that of the quail or ruffed grouse.

Notes on Artificial Incubators

start the incubator going.

use medium sized eggs.

rough-shelled eggs.

daily in both cold and warm weather. aired house cellar. I have heard of people having yellow fever is no longer dreaded. good success in a roomy kitchen, where the machine

can be kept free from drafts.

and you will be sure of success.

arrange for sitting hens

shape of the nest. Where no earth can be removed chicken lice. I am thoroughly of the opinion that a few shovelfuls of soil should be obtained and mould-the lice carried the disease from fowl to fowl. ed into the shape in an ordinary nest-box. It is Typhoid fever is always spread by food and water easier to form the nest of soil than with a turf, and in cities by sewerage getting into the water supply

there is much overlapping and many of the small bottom of the nest in very cold weather, but before accumulate till spring, the fowls' food being thrown towns supplied with very little fruit.

The hollow should be lined with the half at the hollow should be spring the fowls' food being thrown towns supplied with very little fruit.

A disinfectant should be this is put in a handful of slack lime should be sprin- down upon the droppings. A disinfectant should be Mr. Beeston, secretary of the Kootenay Fruit kled into the nest, as this prevents vermin from breedGrowers' Association suggested that he considered, ing there. Hay is much better than straw, as it any signs of roup. I have tried several. Zenoleum

employ of the government should not be able to good depth and width should be allowed for, as materially assist in the problem of marketing, just only when a good amount of earth is put in is sufficient as the able force of government inspectors are keeping moisture applied wherewith to damp the eggs. The the orchards of the province remarkably free from heat from the hen's body draws it upwards as the inner membrane of the egg is softened by this moisture, consequently if there is not sufficient the dry tough membrane holds the chicks prisoners, and

Where a nest is large, this is, of course, avoided, as there is a much better supply of moisture. nest-box should never be less than 15 inches or 18 inches square. A board 6 inches to 7 inches wide should be put in front of the nest, so that the damp A Poultry and Pet Stock Association has been soil, when thrown in, should be a little higher than this board. The soil should be beaten into shape with the hand, which should be protected with a glove, so that nothing that is in the soil may injure the hand. Some people have a piece of wood, about 3 inches 3,500,000,000 eggs and produce something like or 4 inches square, to beat the soil with, but the hand shapes the earth better. The nest should be perfectly round, and the center should be the lowest point of the hollow, so that all the eggs should roll towards the center.

Prices for eggs were higher in December in the out a little wider at the top if more eggs are set. window facing south. London market than they have been for 20 years, A hen will cover fifteen eggs in the coldest weather, being worth 21½ cents per dozen. London in the sometimes twenty-one, but it is better to be on the chicks: As soon as the chicks are dry I put them egg business regulates the markets of the world, safe side, and if valuable eggs are set twelve in a into a box with old flannel or woollen undershirt at The supplies reaching it determine the price eggs sitting, if put into a well-made nest, will hatch for the bottom, or an old woolen shawl; then I put a will sell for in that center, and the price per dozen all they are worth, as few addled eggs are found if thin piece of flannel over them to exclude the light.

Effort is being made to have the Hungarian nest is lined with fine meadow hay this lime comes the bottom, and that is covered with some warm, dry partridge introduced, into certain states, in the under the hav and kills any vermin that may accu- clean sand. Then some clean, tepid water in a can States, the idea being that natural increase mulate. It is very necessary that the hay be inter-turned upside down to prevent their getting into it will quickly make this bird plentiful, and the returns woven and put together layer over layer, so that it is is given.

When the hen is sitting her wings rest on the side place them covered up warm for an hour in the first

The Spread of Poultry Diseases

EDITOR FARMER'S ADVOCATE:

of all human diseases in the States about the Gulf retiring till the chicks are a month old. If I have of Mexico. For years it baffled all attempts to disonly 40 or 50 birds I don't bother with the brooder, as The end of March is time enough in this country to cover the manner of infection. People lived in the oil at 50 cents a gallon is too expensive for such a few; art the incubator going.

Same houses with those suffering from the disease, and even if I have 70 or 80 I always feed in houses. Select eggs for use in incubators with as much care sometimes even slept in the same beds with them brooder last thing at night just like the few in boxes as you could choose a setting to place under a hen, without taking the disease; while others who had not and never lose any. If their feet or legs seem weak I the fresher the eggs are, the better they will hatch, come in contact with diseased persons were attacked keep the weak ones out alone and feed them in a box Do not use very small, extra large, mis-shaped or bough-shelled eggs.

Collect eggs intended for hatching several times

Dy the hundred. It was finall discovered that the separately as described until their legs of feet (text) are straight. I find the soft woollen underwear at diseased persons and then bit well persons, who soon bottom of box much better for their curled toes on afterwards contracted the disease. Since the govern-weak legs than a brooder floor and sand all them. went has taken the matter in hand and killed the and they soon get strong. After I have taken them mosquitoes by draining and the use of petroleum, from warm box three or four times to feed in box

When I was in the university a report came to the straight and strong like the others and I put them medical department of the institution, of a peculiar into brooder with their relations. Probably the air charged with steam and moisture disease which was causing the death of many people with fairly uniform temperature is responsible for the on one side of a valle, in the Rocky Mountains, while chicks get their feet wet. On the fourth day from the chicks get their feet wet. one died from it on the other side of the valle, the shell I give them wheat cracked very fine, and Be sure to keep your incubator lamps clean, and During the next summer vacation, one of the pro- bread crumbs and fresh water three and four times a The wick when you fill the lamp once a day.

Never fill the lamp before turning the eggs, do it afterwards, oil on the eggs from your soiled hands will not help the hatch, use a new wick for each while none of the other members of the family to find the manner of infection till her have a result of the professors with others to help him went to the valle, to day, the water always tepid. When they are big and strong and about a month old, I put them into a sunny yard, with large and small meshed wire fencing while none of the other members of the family took it. They were una le to find the manner of infection till hen-house so there sunlight is on floor all the time, Follow the printed instruction closely in all details they chanced to learn, that one of the patients had I put six inches of sand on floor of the house, so if the been bitten by a wood tick short! Defore he was taken weather is chilly in May, they can go indoors. I put sick. Then the observed that the side of the valley a box on its sides in the house for them to go into at where the disease was found was wooded, while the night. When all are in the box cover it with sacks

little earth from the ground, and then the earth in manner of treatment or change of feed. In both when they are incubator hatched. the hollow should be beaten down quite firm in the cases the were housed in old buildings alive with Alta.

Typhoid fever is alwa s spread by food and water:

The hollow should be lined with fine hay at the fowls for the winter in a building where the dropping

Raising Incubator Chicks Without a Brooder

EDITOR FARMER'S ADVOCATE:

Seeing so many poultry raisers complain of not being able to keep chicks alive hatched from incubators. I will say right here where their trouble begins and ends. Most of these people feed their chicks at sunset and leave them warm for the night. probably these poultry keepers do not rise till seven m. next day and never bother about chicks till after their own breakfast is over, which will probably be by 8.30 or 9 o'clock. The consequence is the chicks are half-starved. I guarantee to raise all I can hatch. We have R. C. B. Leghorns and never yet lost a bird from frost. Our hen-house is a big dugout, with logs for sides and roof turf covered over all outside. A window with double glass with south aspect and the door same size as window, 21 feet each way (lengthwise and width) with a drop of 3 feet from sill of door to floor of house gives light and After the nest is shaped it can easily be beaten fresh air. The door is of wood and right beside

A fittle freshly-slacked lime should be put round the top of the nest and in the middle, so that when the shallow box that has some white packing paper on is given. Then I sprinkle dry cornmeal on sand and put the little things in. I hold them towards water than repay the cost of bringing the birds in.

The hen turns her eggs twice in each twenty-four and as soon as one or two learn to drink the rest soon.

The Hungarian partridge, it is claimed, is one of the bours, and when the nest is properly made the eggs copy them. I leave them in box until they begin to best game birds known to sports and, they are hardy, turn quite easily, and do not roll one on the other. Huddle together. When I shake out flannel and rewill have in any cold alignment. box by the stove, then I take them out again and go 9 or 9.30, or sometimes 10 o'clock, I put them into the box and feed them once more ere I fix them for the night, and at 6.30 a. m. before I get breakfast, feed them again, just fresh water and cornmeal and a few bread crumbs. Every hour that day I feed them as A few years ago yellow fever was the most dreaded they were fed the day before, and always feed before y the hundred. It was finally discovered that the separately as described until their legs or feet (toes) with sand, I notice first one and then another stands

How to Make a Nest

other was not. Investigation showed that the gophand letting the chicks out early next morning and ers of the valley were d ing of the disease; that feeding them with cracked wheat and fresh water. They are very fond of boiled potatoes, and I find following description of the best kind of nest to people who died of the spotted fever as they called it. these fed once a day are good for them. A her can appear to spitting here. range for sitting hens:

Two flocks of poultry have come under my obsermake her chicks eat much more at a time than a The best way to make the nest is to scoop out a vation that were d ing of disease that ielded to no breeder can. They require more feeding and oftener

EXPERIENCED.

Trap Nesting Hens

easier to form the nest of soil than with a turf, and in cities by sewerage getting into the water suppl, the soil should be damp, beaten down well with the hand. If the soil is damp it forms a nice even surface and holds well together. The nest should be a quite for the hen alters her position. The lowest point should, of course, be in the centre, so that the eggs roll and keep together again when the hen steps into the nest. Plenty of room must be given, as when a bird is cramped in sitting a good many of the eggs are likely to get broken.

Two years ago the North Dakota Experiment in the water suppl, the water suppl, the water suppl, the country by underground drainage from outhouses to wells, and perhaps the greatest spreader of this disease is the common house fly, which walks across the stool of persons coming down with it, and then lights upon the food placed upon the table for other persons to eat.

Bowel diseases are spread among fowls by eating food which has fallen upon the droppings of diseased fowls. Other diseases are spread by the drinking poorest laying bird received exactly the same care and feed as the best layer and laid only one-third as Two years ago the North Dakota Experiment

many eggs. The hens hol were not the largest, nor ye The hens hol but were of a medium but fluous flesh. They were alert in appearance with econstitution.

The second year of trap number of birds and a much was found. The leading]

The practice of trap nesmended to the average p expense entailed in furnish extra labor involved. It however, to the special bre tempting to produce a hea As a means of eliminating great value, and the trap n poultrymen at least a por purpose.

DAI

Alberta (Conve

The annual convention government creameries wa Tuesday evening, April 13, officials and buttermakers the platform were Hon. Agriculture; George H. F. of Agriculture; C. Mark W. J. Botterill, Mayor o M. L. A.; and E. Carswi Deer creamery. Mayor J spoke briefly in welcoming The meeting, the first

nature, addresses by memb dairy experts were in order Hon. W. T. Finlay spok dairy industry in the prov

in the number of the crear industry had been taken years ago Mr. George Harcourt,

culture, spoke on the accountry during the last fe and stock form one of the stones for agriculture ir development of the stor development of the dairy So far the improvements stock, but the time is change and with a little possible for every crean without the number of co it is absolutely necessary cows and find out what court also briefly outli undertaken by the depart

Mr. W. F. Stevens, Liv a brief description of a Calgary, and also gave industry. Hon. W. T. prizes to the winners of the season 1908, and poir work done by the butte there was less than 11 p first prize-winner and winners, and the points

D. Morkeberg, Mark Red 1

M. Stevenson, Rimb Munro. Dangerfield, Olds, M. McLean, W. H. Morris, W. W. McGregor, Weta Black Lame Fred Stenberg, Coni M. B. Latam Rose

Hon. W. T. Finlay o morning, and Mr. Geo in regard to the resolution tion. He said that the supplied to the govern season of 1908 were se patrons before Christm tion asking for uniform ies, an amendment to had been under conside department had also n proprietors or secretari in the province by pri to adopt the system. sistance in introducing at the recent session \$1000 was set aside for information that deal

ling where the dropping owls' food being thrown A disinfectant should be specially where there are ried several. Zenoleum , but as it has a strong ng taste, fowls will not they get along without and is to put a little perwater, as it is a good ess and tasteless. W. I. THOMAS.

hicks Without a

sers complain of not beatched from incubators. heir trouble begins and eed their chicks at sunfor the night. Very

rs do not rise till seven other about chicks till ver, which will probably The consequence is the arantee to raise all I can eghorns and never vet hen-house is a big dugof turf covered over all puble glass with south ize as window, 21 feet th) with a drop of 3 feet house gives light and wood and right beside

bringing up incubator ks are dry I put them r woollen undershirt at n shawl; then I put a m to exclude the light. which is set in a warm day I put them into a thite packing paper on d with some warm, dry 1, tepid water in a can nt their getting into it cornmeal on sand and ld them towards water n to drink the rest soon box until they begin to ake out flannel and refor an hour in the first them out again and go Before going to bed at ock, I put them into the ere I fix them for the re I get breakfast, feed nd cornmeal and a few hat day I feed them as and always feed before month old. If I have ner with the brooder, as opensive for such a few I always feed them in it like the few in boxes eet or legs seem weak I and feed them in a box their legs or feet (toes) woollen underwear at or their curled toes or and sand all the time, ter I have taken them times to feed in box nd then another stands others and I put them

lay, and never let the 1 the fourth day from cracked very fine, and three and four times a When they are big and ld, I put them into a all meshed wire fencing nd connecting with the on floor all the time, r of the house, so if the can go indoors. I put for them to go into at ox cover it with sacks rly next morning and heat and fresh water. potatoes, and I find for them. A hen can ore at a time than a re feeding and oftener

EXPERIENCED.

g Hens

Dakota Experiment ng records of hens by vears the Station has rred Plymouth Rocks. ear were very striking ields among the birds he same breeding the her credit while the tal of 212 eggs. The xactly the same care laid only one-third as

April 28, 1909

mended to the average poultryman, owing to the expense entailed in furnishing special nests and the extra labor involved. It is of incalculable value, poultrymen at least a portion of the year for this

DAIRY

Alberta Creamery Convention

The meeting, the first evening being of general dairy experts were in order.

Hon. W. T. Finlay spoke of the development of the berg, Tindastoll; E. Carswell, Red Deer. dairy industry in the province, and noted the increase in the number of the creameries and output since the industry had been taken over by the province three

Mr. George Harcourt, Deputy Minister of Agriculture, spoke on the agricultural progress of the country during the last few years, showing that dairy requests were also received by the department. In issuing of cheques, etc., that the charge shall be made and stock form one of the most successful foundation response to these requests an order-in-council was only in the creamery associations now out of debt stones for agriculture in any country. With the passed, authorizing the expenditure of \$1,000.00 in and self-supporting, also that these associations be development of the stock industry will come the this work. A circular letter was sent to the creamery charged only with the actual expense incurred by development of the dairy stock and the creameries. associations, agricultural societies and farmers' So far the improvements have been mostly in the beef sociations, stating what the government was preschange and with a little care and attention it will be possible for every creamery to increase its output in the form of complaints. One complaints. One complaints was "Why rule shall become operative. Further, that the without the number of cows supplying it. To do this were the dairy Shorthorns not admitted?" Others it is absolutely necessary for every farmer to test his were that it would place the buyers at the mercy of the option of either agreeing to this charge or to undercows and find out what they are doing. Mr. Harsellers and breeders in the East, and still others that take all the work as above outlined, the Dairy undertaken by the department.

a brief description of a visit to a dairy ranch near procured except in England, and at present, at least, Calgary, and also gave some statistics on the hog it was not advisable to go to so much expense industry. Hon. W. T. Finlay then presented the work done by the buttermakers by remarking that reported, the department will appoint a man to collect provinces from which dairy cattle may be imported. there was less than 1½ points difference between the them and deliver them to the nearest stations in first prize-winner and the eleventh. The prize- Alberta. winners, and the points obtained by them, are

Name.	Creamery.	Points	. Pri	ize.
D. Morkeberg,	Markerville,	95,53	Challe	nge Cup 1d Meda
J. M. Stevenson,	Red Deer.	95,42	Silver	Medal
A. A. Munro,	Rimbey,	95,12		4.4
J. A. Dangerfield,	Olds,	95,05	6.4	**
J. J. Skalitzky,	Spring Lake		**	
L. M. McLean,	Innisfail,	94,92	* 11	
W. H. Morris,	Wetaskiwin		4.4	
W. W. McGregor,	Blackfalds,	94,82	4.4	
Fred Stenberg,	Lamerton,	94,34	6.6	
M. B. Latam,	Conj'g Creek			44.
W. I. Beckett.	Rosenroll,	94,19	6.6	**

ACTION ON RESOLUTIONS

morning, and Mr. George H. Harcourt spoke first in regard to the resolutions passed at the last conven- the government was to help the farmers help thempatrons before Christmas. In regard to the resolu-tion asking for uniform statements from all creamer-ies, an amendment to the present dairy legislation washing the so called government are marked to take it. Last nominated by the government and one by each of the organized associations now existant in the pro-vince, and the associations interested in this industry, also that all creameries and cheese factories be licensed had been under consideration for some time, and the making the so-called government creameries a dona-department had also mailed a circular letter to the tion of between \$5,000 and \$6,000 yearly. This proprietors or secretaries of all creameries operated included the cost of entry cheques, keeping accounts, proprietors or secretaries of all creameries operated in the province by private enterprise, asking them to adopt the system. In regard to request for assistance in introducing dairy bulls into the province, at the recent session of the legislature the sum of \$1000 was set aside for this purpose. Regarding the information that dealers were using government creamery boxes for the purpose of pushing the sales

was found. The leading hen had a record of 229 the purpose of advancing further loans to creamery the business as a balance wheel, and if the creameries The practice of trap nesting is not to be recomdifficulties and complied with the requirements of the system would soon fall to pieces. government with respect to security for such additional loans. He reported that at the poultry breeding station, Edmonton, there was now at the station extra labor involved. It is of incalculative value, station, Edmonton, there was now at the station however, to the special breeder of poultry who is attempting to produce a heavy laying strain of fowls. As a means of eliminating unprofitable layers it is of White Rocks, 3 of Barred Rocks and 1 of Brown Leg- Fream took up the subject of general bookkeeping, which is a station, Edmonton, there was now at the station. The first discussion at Wednesday evening session to the special breeder of poultry who is attended to the station of the station of the first discussion at Wednesday evening session at Wednesday evening s great value, and the trap nest is being used by many horns. Eggs are being supplied from these pens at

> Mr. C. Marker gave a resume of the past session's instructive and convincing. Reviewing the situation possible, a uniform system be perfected and recomgenerally there was a most hopeful outlook, and not mended by the department to all associations for only was the output of last year considerably larger, their use but the markets, on the whole, were better. During the past winter the department have held a large number of meetings and the reports from the institute workers show that greater interest is being taken in

> > PROGRESS OF THE INDUSTRY

officials and buttermakers being in attendance. On that each association should subscribe for two or feels that it is impossible to emphasize too much the platform were Hon. W. T. Finlay, Minister of three good trade papers and keep in touch with the Agriculture; George H. Harcourt, Deputy Minister of Agriculture; C. Marker, Dairy Commissioner; W. J. Botterill, Mayor of Red Deer; E. Michiner, M. L. A.; and E. Carswell, president of the Red Deer creamery. Mayor Botterill and Mr. Michiner spoke briefly in welcoming the convention.

The meeting the first evening being of general The meeting, the first evening being of general appoint a resolution committee. The following were nature, addresses by members of the government and dairy experts were in order.

The meeting, the first evening being of general appoint a resolution committee. The following were now in force for one year, and in the meantine that a statement be issued by the Dairy Commissioner Ward, Red Deer; C. A. A. Hare, Earlville; D. Morketot to the association, showing just what the department

IMPORTATION OF PURE-BRED STOCK

Mr. W. F. Stevens said that at the convention a That this convention suggests to the Department year ago a resolution was adopted asking the provin- of Agriculture that the scheme outlined by the Deputy out of business. The reason, dairy Shorthorns were butter sold.

Mr. W. F. Stevens, Live-Stock Commissioner, gave left out, was on account of the expense, they cannot be

Mr. Stevens said the only assistance the department prizes to the winners of the scoring competition for can give is as laid down in the circular letter. When the season 1908, and pointed out the excellence of the a sufficient number of animals to fill a car have been

CREAMERY WORK IN 1909.

ment had gone time, however, had now almost arrived when some shall be open to inspection of patrons at any time. of the creameries should learn to stand on their own feet, as the necessity which existed years ago, when this system was started, no longer exists to-day, and the question is now asked whether the government is not justified in taking some steps towards relin-Hon. W. T. Finlay occupied the chair Wednesday quishing, at least the older creameries. convention in 1906 it was stated that the object of He said that the balance cheques for cream selves, and to carry out this idea it was thought adsupplied to the government creameries during the visable that some of the work should go over to the season of 1908 were sent out in time to reach the creameries which are in a position to take it. Last

many eggs. The hens holding the highest records of other kinds of butter, this has been investigated were not the largest, nor yet the smallest in the flock, and evidence has not been obtained in support of the but were of a medium build and carried no superfluous flesh. They were invariably vigorous and for the purpose of pushing other makes of butter alter the proposed change for one year, in order to allow the proposed change for one year, in order to allow Regarding the request for financial assistance to all creamery associations to become fully conversant The second year of trap nesting included a greater reameries in difficulties, at the 1908 session of the with the same. The concensus of opinion of the number of birds and a much wider variation in records regarding the request for financial assistance to all creamery associations to become fully conversant creameries in difficulties, at the 1908 session of the with the same. The concensus of opinion of the delegates was that the government was needed in sociations, which found themselves in financial were once more thrown on their own resources the

CREAMERY ACCOUNTING

The first discussion at Wednesday evening session horns. Eggs are being supplied from these pens at showing a sample of this synoptic ledger, and Mr. the rate of \$1.00 for one setting of 13 eggs, or \$2.50 Ward followed with the share ledger, showing a sample of the one used by him at Red Deer. The convention decided that the Dairy Commissioner work, using comparative charts which were both should investigate the systems as outlined, and, if

RESOLUTIONS ADOPTED

The Resolution Committee's report was then presented, and all resolutions submitted were unanimously adopted. The resolutions were as follows:—

That this convention places on record its appreciation of the services and assistance rendered to the Using the charts to illustrate his remarks and com- creamery industry by the Minister of Agriculture The annual convention of delegates from the government creameries was opened at Red Deer on Tuesday evening, April 13, 1909, some sixty delegates, when butter was cheapest. He also recommended his time and services to this work, and the convention officials and buttermakers being in attendance. On that each association should subscribe for two or feels that it is impossible to emphasize too much

to the association, showing just what the department wishes the association to do, so that all can properly discuss same and be prepared to act on it at the next annual convention.

each association, such expenses not to exceed oneassociations now known as self-supporting be given court also briefly outlined the educational work it would drive the dairy stock breeders in Alberta Commissioner issuing cheques to the association for

That the government be requested to amend the order-in-council applying to the importation of purebred dairy stock, by adding thereto Shorthorn cattle of dairy strain, and that the sections of the Dominion now omitted from the order be added to the list of

culture to take up with the Executive Council and secure the passage of an Act to regulate all creameries Mr. George Harcourt, speaking on this question proper statements, showing the relative proportions said, that when the Dominion government started of butter and butter-fat each month, and the basis the creameries it was with the idea that they would of payment, the requirement of full weight and the only operate them for three or four years or until the proper amount of moisture and other foreign matter loans to the creameries were repaid. This arrange in butter and cheese, and also that the Act be made ment had gone on for a long time and when the so that the government will have full power to inspect province was organized the creameries were taken creameries and cheese factories, not only in the matter over by the provincial authorities and carried on. of manufacturing, but also in all matters of sanitation. It was thought at that time better to do this. The Further, that the books of all creameries and factories

That the government be requested to take steps to pass legislation, either by order-in-council or by Act, whereby no person or company can erect a creamery or cheese factory in the province without first securing a permit authorizing the erection, the applicant to file plans of the proposed creamery or factory and the area from which the support will be drawn, the plan of permit to be prepared and full authority for issuing same to be granted by a special council appointed as follows: One member to be nominated by the government and one by each of and that the licenses be renewed yearly.

FIELD NOTES

Social Life Among Bachelor Homesteaders

How many can look back, almost with a shudder, to the first days of their homestead life. Bred in large cities, accustomed to luxury and congenial companionship, these men undertake the momentous task of homesteading. It needs no stretch of imagination to see them in their new spheres. Lonely and tired, the backelor retires to rest at night, unable to conjecturing concerning the future. After the Home," contrasting the present with the past, and to conjecturing concerning the future. After the veariness of the night he arises with the sun to go through the day's toil once more. What an event is the visit to or from a neighbor! What a pleasant surprise when the mail brings a letter.

In pioneer settlements such disadvantages have to be faced for a time but with the past, and in view.

Some country districts have quite a presentable for the view. Some country districts have quite a presentable for the wist. Some country districts have quite a presentable for the wist. Some country districts have quite a presentable for the wist. Some country districts have quite a presentable for the wist. Some country districts have quite a presentable for the wist. Some country districts have quite a presentable for the wist. Some country districts have quite a presentable for the seed for swede turnips, and the last of June for common white turnips, although a few of the latter may be planted for early use.

The grand thing to plant mangolds here, or the view.

In view.

Some country districts have quite a presentable for the wist op lant mangolds here, or the surely enough to plant mangolds here, or the source of the sowing. The first of June if the seed for surely is quite early enough to plant mangolds here, or the

The bachelor requires some mild excitement, something to lift himself above his own lonely something to lift himself above his own lonely thoughts, something to break the monotony of his otherwise dreary existence. The solution of the problem as to how this result may be obtained is found in the formation of an exclusively Bachelor Club. Exclusive because bachelor interests are common to each member, because each knows the other's difficulties by experience, and the good-hearted fellowship is more complete, the members more united. The followers of Benedict, though, could be admitted on "Visitors' Nights" and their occasional presence would add a new zest to the meetings. As to the nature of the clubs: that depends on the district and the tastes of the members. One district has a literary and debating society where many profitable evenings are spent discussing questions of the hour.

The school trustees have thrown open the school house have been been only in the solution of the problem. His Case

His Case

His Case

Editor Farmer's Advocate:

In the Farmer's Advocate of March 17th, there is an article entitled "The Marrying Problem." I would like to give "One of the Fair Sex" an answer. The lady states that if some of these bachelors, who have been bemoaning to you the awful loneliness of single blessedness, would go to town once in a nature of the clubs: that depends on the district and the tastes of the members. One district has a literary and debating society where many profitable game. I am living in a town with a population of breaking up broodiness in hens:

The school trustees have thrown open the school house have plenty of chances to meet the fair sex. For the school house have plenty of chances to meet the fair sex. For the school have a first week in June on any account. Planted earlier give method and horny. Then, being sown so late gives you greater advantage over your foes, so late gives you greater advantage over your foes, so late gives you greater advantage over your foes, so late gives you greater advantage over the week in June of any account. Planted earlier you get them hard and The school trustees have thrown open the school house have plenty of chances to meet the fair sex. For these meetings, a privilege that is greatly appeared that on "Ladies' Invitables have been thinking of taking a homestead and an anil some 1 by 3 inch slats edgeways up in the bottom, preciated. It is rumored that on "Ladies' Invitables have been thinking of taking a homestead and about 3 inches apart, the object being to make it so

nection with some other clubs where the current magazines and bound volumes, (chiefly fiction) are circulated amongst the members. This insures increased facilities for reading with a minimum expense. Some societies exist for the distributing of pense. Some societies exist for the distributing of reading matter amongst settlers in Western Canada, yet the numbers are small that can be reached by these on account of their limited supply and the vast number of applicants. Private individuals would create some pleasant sensations in the breast of homestead farmers and their families and also the

"The Bachelor Social Circle" has proved to be a success. A number of young men band themselve of the community, especially amongst themselves. Their meetings should be held weekly or fortnightly to act as host, each endeavoring to outshine the other to their shack. A musical evening, impromptu speeches, and story tellings, when each man gives a "yarn" from his own experiences, are suggestions which, if properly carried out, will prove a source of dreary and lonely to each separate individual. This circle should sometimes give an evening to the ladies, when each member contributes some part of this does not interest, and perhaps amuse the fair sex they are unlike the rest of their class. A gentle hint given by the chairman might secure a return invitation from the ladies for the circle to spend a few

as far as organizing new entertainments is concerne to make life more pleasant to the toiling farmer and

his neighbors. A programme could be arranged for every month by a committee. Novel ideas and unusual plans would attract many visitors. A charge unusual plans would attract many visitors. A charge any experience in growing roots has extended over for admission would help pay for printing, etc., and a period of fifty years; I have grown as many as 140 probably leave something to go into the funds of the acres in one year, and had them all fit to be seen society. Some enterprising literateur has an op- when thinned out and cleaned. My practice is to portunity to start a district magazine in almost every plow the land in the autumn and leave it in the furneighborhood. If the "Circle" took the matter in row. It will hold more snow to thaw out and give hand, each member contributing something for every moisture in the spring here, if left in the furney than of the copies at a profit. A small hostograph would. The poet sings of the joys of solitude, and intimacy of the copies at a profit. A small hectograph would

wealth from the rich soil. After their arrival, desolate, rather let him get out, enthuse his chums, weeding.

opportunities are practically unlimited to enjoy social intercourse with the ever-increasing horde of settlers round. It is just possible that this social life will be pouring in from all quarters. Solitude no longer the means of convincing some of the Western bachexists after the day's work is done; evenings are spent elors of the advisability of having a helpmate in his surface. You can stay them right and left before in the various homes entertaining and being entersus conviction.

Town C. Bry nose weeding.

Louis C. Belrose.

preciated. It is rumored that on "Ladies' Invitation Nights" (which occur frequently) the bachelors have a surprisingly jolly time.

Every homesteader is aware of the difficulty of procuring good literature on the prairie, so book clubs have been formed in many places, often in connection with some other clubs where the current magazines and bound volumes. (chiefly fiction) are

Catch the Weeds at the Start

My experience in growing roots has extended over

As soon as the surface is dry enough in the spring The poet sings of the joys of solitude, and intimacy of the copies at a profit. A small hectograph would with Nature. One can easily believe he was not be the most economical and easiest way of making a Western bachelor homesteader, else he would have duplicates of the original. It should not cost more found that one can have too much even of a good than a couple of dollars at the most. The amuse-thing. The desolate loneliness, the craving for ment afforded by a sheet of this nature would simply be harrowed again. This will practically kill all seed in view.

How many can look back almost with a shudder.

through the day's toil once more. What an event is the visit to or from a neighbor! What a pleasant surprise when the mail brings a letter.

In pioneer settlements such disadvantages have to be faced for a time, but only for a short period. Soon one quarter, then another is taken up and the rolling prairie is dotted with homes of thrifty farmers who kave gone to be with nature and wrest the latent wealth from the rich soil. After their arrival, desolate, rather let him get out, enthuse his chums, one quarter arrival, desolate, rather let him get out, enthuse his chums, one quarter arrival, desolate, rather let him get out, enthuse his chums, one quarter arrival, desolate, rather let him get out, enthuse his chums, weeding.

These whose tastes do not lie in the direction of the suggestions laid down in the beginning of this article. I harrowed my soil well as they did, killing a lot of the suggestions laid down in the beginning of this article. I harrowed my soil well as they did, killing a lot of the suggestions laid down in the beginning of this article. I harrowed my soil well as they did, killing a lot of the suggestions laid down in the beginning of this article. I harrowed my soil well as they did, killing a lot of the suggestions laid down in the beginning of this article. I harrowed my soil well as they did, killing a lot of the suggestions laid down in the beginning of this article. I harrowed my soil well as they did, killing a lot of the suggestions laid down in the beginning of this article. I harrowed my soil well as they did, killing a lot of the suggestions laid down in the beginning of this article. I harrowed my soil well as they did, killing a lot of the suggestions laid down in the beginning of this article. I harrowed my soil well as they did, killing a lot of the suggestions laid down in the beginning of this article. I harrowed my soil well as they did, killing a lot of the suggestions laid down in the beginning of this article. I harrowed my soil well as they did, killing a lot of the sugg

wards. I would not plant my Swedes before the first week in June on any account. Planted earlier

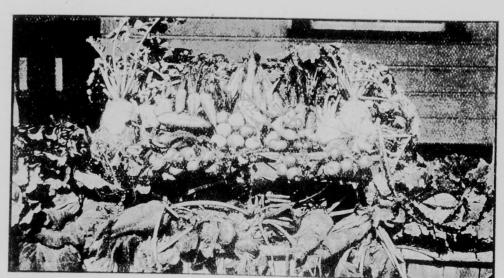
I would like it some readers of the FARMER'S ADVo-backelors, by passing on papers, magazines and paper bound books. The majority of those whom they would benefit would be intelligent, educated people, who could properly appreciate their thoughtfulness and kindness. Might this suggestion be offered to any who read these articles?

I would like it some readers of the FARMER'S ADVo-trequently to new ground while the chicks are small, and giving good range when they are large enough to up a homestead. I do not know Canada and would like if some homesteader would advise me as to desirable locations. I am willing to make good the expenses.

We would fixe it some readers of the FARMER'S ADVo-trequently to new ground while the chicks are small, and giving good range when they are large enough to up a homestead. I do not know Canada and would like if some homesteader would advise me as to desirable locations. I am willing to make good the expenses.

We chawkin, N. J.

C. Honegar.



A BUNCH OF EAST KOOTENAY PRODUCTS.

Events o

P. Burns & Co., Calg a packing plant at Vanc week capacity.

The C. P. R., will con struction of a high level and Strathcona.

The governors of the have decided on the 1,172 acres and the purch It is across the river from city limits.

The negotiations under the government of Saska phone Company, conclud by the government of province. The purchase \$367,500.

Vice-president Mann, states that the company a month in constructio season and that three n rolling stock will be delive grain crop is ready to be r

A Canadian revenue had an encounter with a within Canadian waters cruiser fired several sho up the mast and doing then hauled the prize into

A serious ice jam occur River above the Falls. tance of twelve miles in to a height of sixty experts were hurried to and American governme dynamite used to break a back by the ice dam, th considerable damage to li

A committee represe Agriculture of Alberta, ciation and the Alberta are in Ottawa to lay bef commerce a proposal for Manitoba grain act. I secured, grain shipments coast as readily as to t As the Manitoba grain ac take shipments to the co grain buyers of Alberta accommodation in Van

A French professor ar ered a means of signalli He requires ten million

The latest word from t world is that Mr. J. J. readiness to meet Mr. J. just as soon as he can at the fray. The colored

Ten thousand person killed as a result of the a last week. The riotin

Rat Invas

and were soon making tors, stores, barns, etc. of the trouble they we his barn for a founda underneath and killed on the ground beneath an unusually large-size water rats.

s at the Start

roots has extended over e grown as many as 140 them all fit to be seen aed. My practice is to and leave it in the furw to thaw out and give f left in the furrow than

ry enough in the spring ul, cultivate and harrow wheat and other grain the root land is ready to will practically kill all id that the 20th of May t mangolds here, or the arted by soaking before une is the time to put and the last of June for ugh a few of the latter

n root growing, is weed ngland, where roots are and thin them out costs

They are the most he necessity of planting I hit on a different ien others were planting ney did, killing a lot of aree weeks later. Then eds by the thousands, hich I had started. I who sowed three weeks expense of hoeing and

cally the same plan. e weeds started, and to themselves above the right and left before then be vanquished rou much trouble after-ny Swedes before the count. Planted earlier y. Then, being sown antage over your foes, fine ones here as I ever were born in Canada ch fine ones before. and turnips for cattle ouble the feeding value fleshed ones, at least e double progress fed nite ones OHN C. WALKER.

llowing simple method

ase large enough, and ways up in the bottom, ct being to make it so wn with any comfort, its. Make aperture in wire netting or some ty of light, give plenty e box where the occuning about. I never cure in three days or

small runs or coops, think they thrive, but ks look thrifty when with really vigorous itions. There are two ne is by shifting coops hickens grown. It is satisfactory to raise a



April 28, 1909 Events of the Week

and Strathcona.

The governors of the University of Saskatchewan have decided on the purchase of a site of be a difficult task fighting off the rat invasion of the 1,172 acres and the purchase price is fixed at \$112,240. North. It is across the river from Saskatoon, adjoining the city limits.

The negotiations under way for some time between the government of Saskatchewan and the Bell Telephone Company, concluded last week in the purchase by the government of the Bell system within the The purchase price is reported to be \$367,500.

states that the company will expend a million dollars a month in construction work during the present for this continent, for the world in fact, since trading season and that three million dollars' worth of new in European exchanges was calm as compared with

River above the Falls. The ice piled up for a distance of twelve miles in the river and in some places to a height of sixty or seventy feet. Explosive experts were hurried to the scene by the Canadian and American governments and large quantities of dynamite used to break up the jam. The waters held back by the ice dam, threatened, at one time to do considerable damage to life and property.

He requires ten million dollars to carry on his ex- estimate of the world's future supply, and conditions,

the fray. The colored champion will accept.

Ten thousand persons are reported to have been killed as a result of the anti-Christian riots in Armenia last week. The rioting arose over the political revolution now centering at Constantinople, in which the young Turk party are fighting for the recognition the young Turk party are fighting for the recognition.

Prices for the week have fluctuated wide figures touched day by day are as follows:

Wheat: Mon. Tues. Wed. Thurs. Fri. No. 1 Northern Young Turk party are fighting for the recognition.

Rat Invasion Threatens

dian prairie country is threatened. During the pass fortnight frequent reports have been received a

tors, stores, barns, etc. Farmers began complaining of the trouble they were having with the rodents. Citizens in town noticed that the rats were thriving pretty well off their chickens. One farmer, raising his barn for a foundation found it alive with rats underneath and killed 78 of the vermin. Another underneath and killed 78 of the vermin. Another moving his granary found about 60 bushels of wheat on the ground beneath it. The rats are described as an unusually large-sized species, seemingly sewer of

While the present is the first intimation the public have had sof the northward movement of rats, the P. Burns & Co., Calgary, packers, will establish a packing plant at Vancouver of a thousand hogs a week capacity.

* * *

The C. P. R., will commence at once on the construction of a high level bridge between Edmonton and Strathcona.

That is not had of the northward movement of rats, the pests have been for years, slowly and steadily travelling in our direction. Those who live in North Dakota can remember when vermin was unknown there. But ten years or so ago they began appearing in the south. At first the numbers were small and the rate escaped notice, but gradually, stores, basements, grain elevators, hog pens, chicken houses, barns, stables, houses, etc., became so infested with rate that people found it simply impossible to dislate. that people found it simply impossible to dislodge In some of the places professional rat catchers were employed to fight the vermin. As the avenues of entrance for the rodents are numerous, it will likely

MARKETS

The wheat markets of the new world for the week Vice-president Mann, of the Canadian Northern, attes that the company will expend a million dollars on its present basis. Chicago was the storm center of the purchase pince is reported to back have not been lacking in sensational features. Things happened in the exchange of the first cereal that have scarcely been parallelled in the history of grain trading since that business became established on its present basis. Chicago was the storm center of the purchase pince is reported to back have not been lacking in sensational features. Things happened in the exchange of the first cereal that have scarcely been parallelled in the history of grain trading since that business became established on its present basis. Chicago was the storm center. season and that three limitor dona's worth of the rolling stock will be delivered in the West before the grain crop is ready to be moved.

The excitement prevalent in America. The net result of the week's business seems to be that Pattern has scraped out from under the load of May wheat he was carrying, without breaking the market serious-A Canadian revenue cutter on the Pacific Coast ly in doing so, has left Chicago unexpectedly and the A Canadian revenue cated had an encounter with an American schooner fishing within Canadian waters one day last week. The cruiser fired several shots at the poacher, smashed up the mast and doing other warlike damage, and then hauled the prize into Vancouver

* * *

| A Canadian revenue cated | Section | Sectin | Section | Section | Section | Section | Section | Section | S for weeks, unshaken by any happening in the wheat world, suddenly felt that the mainstay high prices had was out from under, and that the market would slump. They aided the slump by dropping over everything they owned in the wheat line.

Meanwhile the world's situation, the situation as regards actual wheat, not the Chicago commodity, * * *

A committee representing the Department of Agriculture of Alberta, the United Farmer's Association and the Alberta Pacific Elevator Company, are in Ottawa to lay before the minister of trade and commerce a proposal for certain amendments to the Manitoba grain act. If these amendments can be secured, grain shipments will be made to the Pacific coast as readily as to the head of lake navigation. As the Manitoba grain act reads at present, it does not take shipments to the coast into consideration. The grain buyers of Alberta are anxious to have elevator accommodation in Vancouver, as soon as possible.

* * *

has every indication of maintaining its strength. The situation in America hangs on the condition of the United States winter wheat crop and the probable circumstances in which the spring wheat country will seed. Seeding in the Canadian West is late. The spring grain will go into the soil before the first of May. May 1st is an extremely late date for the start of seeding in Manitoba. The first week in May is late enough for the finish of wheat seeding, instead of the start. In Saskatchewan conditions are very similar. In Alberta a good percentage of the land in the south has been sown for some time, but no growth of any has every indication of maintaining its strength. The accommodation in Vancouver, as soon as possible.

BRITISH AND FOREIGN

A French professor announces that he has discovered a means of signalling by the use of mirrors, by which communication may be opened with Mars. He requires ten million dollars to carry on his execution account has been sown for some time, but no growth of any account has been sown for some time, but no growth of any account has been made. Conditions on this continent, take them generally, do not point towards a bumper crop of wheat. In Europe the situation in regard to the winter crop is said to be satisfactory, but America is the factor to consider in forming an estimate of the world's future supply and conditions.

The movement of acttle is the factor to consider in forming an estimate of the world's future supply and conditions. on this continent, are far from indicating heavy re-

the Northwestern product.

	Wheat:	Mon.	Tues.	Wed.	Thurs	. FTI.	Sat.
7	Wheat: No. 1 North-		2224		440	1101	117
7.	ern	1225	$120\frac{1}{4}$	1214	118	1194	111
	No. 2 North-				** ***	4 4 10	1119
	CIII	THU	1173	119½	1154	117	114
	No. 3 North-					4441	1109
	ern	1175	1151	117			1124
	No. 4	112	1093	1114	108	$109\frac{1}{2}$	1074
h	No. 5	103	101	$102\frac{1}{2}$	98½	100	973
	No. 6	95	- 93	$94\frac{1}{2}$	$90\frac{1}{2}$	91½	894
	Feed	79	77	. 78	76	78	78
	No. 1 Alber-						
	ta Red Oats—	121	119	121	1175	118	1155
	Oats-						
ř	No. 2 White	433	431	433	433	431	431
	No. 3 White	421	42	421	42	42	42
	Feed		421		43	423	4 ? !
	Feed 2	413	413	42		$41\frac{3}{4}$	411
	Donlary						
	No. 3	57	57 55	571	57	57	57
9	No. 4	55	55	551	55	55	55
		491	49	49	49	49	49
	-T/10-10						
	No 1 N W	138	137	1353	134	134	1341
	No. 1 N. W. No. 1 Man.	136	135	1333	132	132	$132\frac{1}{2}$
		OPTI	ON QU	JOTAT	MONS		
	Mr. Jane	Wheat		Open	High	Low	Close
	May						
	July			1251	126	124	1241
	Oct.			106			104
	Oct						

Tuesday-				
May	1221	123	1201	1203
July	1241	1241	1214	1217
Oct	104			102
Wednesday—				
April				1213
May	121	1223		1221
July	1225	1237		123
Oct	1031			105
Thursday—				
May	1213	122	1181	1181
July	123	123	1187	$119\frac{5}{2}$
Oct	105			100
Friday—				
May	1201	1201	1173	1197
July	1211	1211	1183	120%
Oct				102
Saturday—				
May	1173	1177	117	1174
July	1181	1181	1174	$117\frac{7}{4}$
Oct	100			100
. DRODWOD AND	D MITT	737373	n	

Jul	ly	1213	1211	1183	$120\frac{3}{4}$
Oc	t				102
. 5	Saturday—				
Ma		1173	1177	117	1175
Jul	y	1181	118‡	1175	1177
Oc		100			100
	PRODUCE AND	MILL	FEE	D	
Br	an		2 202		\$21.00
Sho	orts				22.00
(Chopped Feeds—				22.00
	rley and oats				26.00
	rley				23.00
	ts				28.00
Ha	y, per ton, car on trac	k,			
	Winnipeg, (prairie hay)		6.00	(a)	7.00
Tin	nothy	10	0.00	(a)	12.00
Bal	led straw		4.50	(a)	5.00
	BUTTER AN	ID EG	GS		
Fre	esh turned creamery brick		27	(a)	28
		0	21	0	20
	DAIRY BUTTER—		20	0	0.1
	tra fancy dairy prints		20	(1)	21
	iry in tubs EGGS—		14	(0)	16
	nitoba fresh				17
	POULTRY—				
			10	0	00
	rkey, Manitoba rkey, fine Ontario (undraw		19	@	20
	nd case weight)		19	@	20
Spr	ing chicken, per lb.		1.0	CC .	18
Din	cks per lb				17
Gee	cks, per lbese, per lb				14
	EGETABLES—				
	atoes, per bushel		90	(a)	95
Car	rots, per cwt		00	Co.	\$1.50
	ets, per cwt				1.25
	nips, per cwt		50	(a)	75
	bage, per cwt		1.00	(a)	4.50
	ons, per cwt		2.50	(a)	2.75
	snips, per cwt		2.00	(a)	2.50
	C. onions, per case, 95 lb				
	et				3.00
	HIDES—				
Cov	v hides (subject to usus	al			
t	are)		61	@	7
	1 tallow		5		
No.	2 tallow		. 4		

LIVE-STOCK, WINNIPEG

40 (a)

The movement of cattle for the season has begun at the Winnipeg stockyards, and large increases were on this continent, are far from indicating heavy returns and low prices.

The latest word from the head liners of the pugilistic world is that Mr. J. J. Jeffries has announced his readiness to meet Mr. John Johnson in a fistic bout just as soon as he can get himself into condition for the fray. The colored champion will accept.

on this continent, are far from indicating heavy returns and large increases were turns and low prices.

Deliveries in Europe are falling off from the amount and prices remain firm. When one reviews the situation in live-stock, in the light of recent developments, riving at present are said to be far from satisfactory. In this country alone, but all over the continent, are far from indicating heavy returns and low prices.

Deliveries in Europe are falling off from the amount and prices remain firm. When one reviews the situation in live-stock, in the light of recent developments, and large increases were turns and low prices.

Deliveries in Europe are falling off from the amount and prices remain firm. When one reviews the situation in live-stock, in the light of recent developments, and prices remain firm. Active enquiry exists for Canadian wheat both in not in this country alone, but all over the continent, are far from indicating heavy returns and low prices.

On this continent, are far from indicating heavy returns and low prices.

Deliveries in Europe are falling off from the amount and prices remain firm. When one reviews the situation in live-stock, in the light of recent developments, and prices remain firm.

Active enquiry exists for Canadian wheat both in not in this country alone, but all over the continent, are far from indicating heavy returns and low prices.

Great Britain and the continent, are far from indicating heavy returns and low prices.

The close of the winners are going through in the supplies of the process of the process of the process of the prices remain firm.

The class of the process of the pr Great Britain and the continent, French buyers and in Europe, there is good basis for an optimistic recently showing a tendency to purchase freely of the Northwestern product.

Prices for the week have fluctuated widely.

Prices for the week have fluctuated widely.

The figures touched day by day are as follows:

Wheat: Mon. Tues. Wed. Thurs. Fri. Sat. cattle as characterized the market season of 1908. of meats in the form of the beef trust. Domestic supplies in Britain are no greater than a year ago, and certainly the live-stock of this continent to be drawn on to fill the usual old country supply, as well as the domestic deficiency, are no greater in numbers, if as great, as in 1908. Prophesying as to future prices of food commodities is an uncertain line of at present affords there is reason for the expectation

Locally exporters are quoted at \$5.00 and a fair business doing; butcher cattle, \$3.00 to \$4.50; sheep, \$6.50; bacon hog, \$7.00; light hogs, \$5.50.

Export steers, \$5.50 to \$5.60; prime butchers, \$5.30 to \$5.60; medium, \$4.00 to \$5.00; calves, \$3.00 to \$6.00; sheep, \$4.50 to \$5.00; rams, \$3.50 to \$4.25; lambs, \$5.00 to \$7.50; hogs, \$7.50.

Export steers, 1275 to 1400 pounds, \$5.90 to \$6.40; export steers, 1150 to 1250 pounds, \$5.90 to \$6.40; light steers, \$5.10 to \$5.40; cows, \$3.35 to \$6.15; heifers, \$3.40 to \$6.10; bulls, \$3.25 to \$5.25; native wethers, \$5.25 to \$5.65; native ewes, \$4.25 to \$5.15; lambs, \$6.15 to \$7.40; hogs, \$6.85 to \$7.40.

HOME JOURNAL

A Department for the Family

People and Things the World Over

No woman can legally enter a bar or a music fishing shack, with its traps, often the sole capital pleasant thing, about all they can manage. hall where liquor is sold after June 1. Such is the of the owner, every private pumping station that Nothing but limitation of armaments can stem

The Gowganda Tribune, "a journal with determination," is the title of Ontario's newest newspaper, Vol. 1., No. 1, being dated April 10. It is published on the spot by Alf. W. Law, formerly of West Toronto, and is a very well gotten up issue of eight pages of quarter size, on good brown

Persons afflicted with consumption may no longer marry in New Jersey. Neither may persons having any transmissible disease. A law forbidding such marriages which modern health

Church pageant which takes place in the grounds of Fulham Palace in June. Among the notable features will be an episode having a particular bearing upon the Welsh history, "The 'Alleluia' Victory," which promises to be one of the most that he will abdicate upon certain conditions. misinterpreted. If it is misinterpreted, why are dramatic incidents in the pageant. This episode is being undertaken by members of the Church in Wales resident in London, and one of the features will be the singing of a great choir provided by Welsh Churchmen.

their national heroes, are preparing to celebrate have been kined that the difference of nations must have been kined that the difference of nations are the second that the difference of nations have been kined that the difference of nations are the second that the difference of nations have been kined that the difference of nations are the second that the difference of nations have been kined that the difference of nations have been kine will appoint a commission in order to choose are felt for the safety of others. from Lord Byron's works all the poems relating to Greece, and to arrange a competition for the translation of these fragments into modern Greek. The poems will then be published,

Dr. Edgar Geil, of Dovleston, Pa., sketches miles of it has never before been mapped. He land, and no other among the colonies would be the colleges and the institutes, to unite in the fight also reports evidences of the existence of at least more ready to respond to that motherland's against the crime, cost and curse of war; that a ten great walls apart from the famous one. Dr. need. At the same time, in every mind not in-boycott of, a nation that will not submit to Geil confirms reports of the existence of a wild flamed by distorted views of military and naval arbitration, no matter how abominably brutal race of Chinese pigmies in the mountains north

week, has been witnessed the amazing spectacle Mistress of the Seas, must keep in advance; of Niagara Falls dry, a thing that has not octhe United States, France, and even little Japan, curred before in the memory of the white man, fearful for their own territory and their own in-Owing to heav, winds prevailing the ice on Lake terests, follow in the wake. Without check Erie was driven dowe and packed in a solid dam somewhere, Germany must go bankrupt, the along the lower end of the lake. But before the United States, France, Japan, and, if once she is falls went dry the correct below the falls was drawn into the vortex strongly enough, Canada. flooden to a height of 40 feet above the water's Money in countless millions will be required.

from the lower steel arch bridge to Lewiston. and women who work for a living, and who find Company's power house, which was thought world to have been out of reach of any possibility of flood, the water poured over the window-sills.

Trouble in Turkey

There are very few dull moments in Turkey. authorities have been urging for years, was passed is disturbing the country. The young Turk and far-seeing rabbi to the New York Tribune, in the closing hours of the legislature's session party, who some time ago demanded a constitu- in reply to an editorial statement made by that and was signed by Gov. Fort. There was bitter tion and constitutional government, has resorted periodical, that "The realization of universal opposition to the law on the ground of the con- to violence in the attempt to make the Sultan peace is an impossibility, unless all nations become stitutionality but it finally passed by a comfort- keep the promise made at that time. The in substance a single nation. committee telegraphed their ultimatum to Abd- "Does not your editorial mean," writes the ul-Hamid in the following dispatch: "You rabbi, "that religion, and especially Christianity, Much interest is being shown in the English are a perjurer, for, having sworn to respect the since the great modern nations are Christians, is a hurch pageant which takes place in the grounds constitution, you organized its abolition. We failure? If Christianity, which is nothing if it Fulham Palace in June. Among the notable has not been very definite, though it is reported which it stands, either it is a failure, or else it is

due to the fact that several divisions of the troops interpret it correctly.? have declared in favor of supporting the ruler "The real crux is this: That Christianity of rather than upholding the constitution: The to-day is not the old, original Christianity. The centenary is being celebrated this year of nople is the center of the actual revolution, teachings and example of Jesus, with the result Lord Byron's first visit to Greece. The Greeks, the interior of the country is faring even worse. known in human history as the great Reformaamong whom the name of the great English poet There are general massacres of Armenians by the tion, you and your readers know. But is it not who died for Greece and for her cause is as Turks, the troops in some cases taking part in the time to carry it back yet further to the ideals of greatly beloved and venerated as the names of outrages instead of suppressing them. Hundreds Jesus, and make Christianity the religion which their national heroes, are preparing to celebrate have been killed and thousands have had their he personally preached, and which he personally

Limitation of Armaments

immediate place in the naval world has been the try, and the ambassadors, envoys, and plenioccasion of grave discussion in our own parliament potentiaries of no less than twelve great nations Dr. Edgar Geil, of Doyleston, Pa., sketches of whose recent explorations along 1,800 miles of the Great Wall of China have recently appeared in the English illustrated papers, has this week arrived back in New York. Dr. Geil traced the wall to the north border of Thibet. Two hundred wall to the north border of Thibet. Two hundred land, and no other among the colonies would be the colonies would be the colonies and the public schools. prowess, there must exist only deepest regret and inhuman a boycott may be, is preferable that the present trend of affairs throughout the to the abominably brutal and inhuman crime, Twice this year, in February and again last such as the world has never seen before. Britain,

filling the gorge and blocking the outlet from of those fleets, and the airship fleets which loom the whirlpool. The tracks of the Great Gorge in the immediate future, and the terrible burden route were, with few stretches excepted, covered must be borne, to a great extent, by the men In the lower stretches of the river, where the ice the matter of subsistence, with a very little over was packed the hardest, every boathouse, every for the comforts and pleasures that make life a

law just passed in Washington State, a law which supplied the summer homes that line the shores, this tide, and to that Germany has refused to con-also refuses these privileges to drunkards and every private landing and the piers of both the sent. It would seem that, were the nations International Railway and the Niagara Navi- really at one on the subject of liberty and peace, a gation Company at Lewiston and Queenston, were general boycott might force Germany to such a buried beneath thousands of tons of ice. At concession; and yet, complications of commercial Niagara-on-the-Lake the wharf was overwhelmed interests would be likely to block the first step and all the bathing houses were swept off their towards such an action; after all, commerce, foundations. On the Ontario side the Power the grand machine for money-getting, rules the

> Things may readjust themselves, but for the present people everywhere stand helpless before the immensity of the problem, and the universal spirit of helpless rebellion finds issue in the press. Little wonder is it that Christianity is becoming a by-word among the Jews and the heathen, in regard of such preparations, or that the following At present what appears to be a serious revolution letter should have been written by a shrewd

p to date the Sultan's reply to this demand will to man, is not able to bring about that for The indefiniteness of his reply is in no doubt not its ministers and leaders strong enough to

young Turks army is closing in gradually around not Jesusism, for it is not the religion which Jesus Constantinople but have not yet decided to attack preached. How an effort once was made to carry the city. In the meantime, though Constanti- back what was called Christianity nearer to the

always continue is not well taken, in my humble opinion. At this very moment an invitation has been placed in my hands for the International Peace Festival, on the 24th of this month. The The universally-discussed subject of Britain's patrons include the President of this great coun-

"Your editorial, therefore, 'One Nation or Many?' means really, 'Is Christianity a Failure?' Restore it to its first principles of peace and goodwill, and the abolition of war, respect for the direct sponsibility—will result. Is it not worth your

That will mean the establishment of God's -Farmer's Advocate, London.

THE

TO BE WITH For to me to live it strait betwixt two, h depart, and to be wi is far better.-Phil.

"Beside the dead I And felt a Preser Lo! it was Jesus He smiled, 'Be r

" Lord, Thou has we know, Restore again to This one who die He smiled, 'She

" 'Asleep, then, as But Thou can'st Her prisoned eyes 'He smiled, 'She

" 'Nay, then, tho

And look upon so Restore her to our He smiled, 'She

" Alas! too well v Nor hope again Until the stream cross!" He smiled, 'The

" Yet our beloved The while we y near, Albeit with Thee He smiled, 'And

" Dear Lord, how that they Still walk uns

Thee; Nor sleep, nor wa He smiled, 'Ab

" Anxious Mother what I think of He shall "know each ber what relation e in this life." She think it was a "pl hears some people "state" or condit is a little disappoin of opinion; although if the heart is bea new and wonderful comes dear. Pala satisfying to one w the sight of a dea with Christ is to our hearts are one

As for the que shall know each ot the past, in the never of death, I do in my own mind. all earthly love is Him to His dear o in its nature, et thing in the infinit would be very poo survive death, or tells us of the lov can rest on that, fully satisfy our hu would be terribly man fellowship we destroyed.

I don't know wh given above, but to questioning hearts they must speak t they fit the lock which seems to sh who have passed door is flung open

We see that thos through that door they are " not dea sleep," they are they seem to be f with Christ, and F therefore they al If we abide consta certainly in clos them. As for the they can see us, th be of very little c

ip fleets which loom I the terrible burden extent, by the men living, and who find th'a very little over res that make life a ey can manage.

armaments can stem y has refused to conwere the nations liberty and peace, a Germany to such a ations of commercial block the first step fter all, commerce, ey-getting, rules the

nselves, but for the tand helpless before n, and the universal ds issue in the press. stianity is becoming and the heathen, in or that the following itten by a shrewd New York Tribune. ment made by that zation of universal ss all nations become

mean," writes the ecially Christianity, s are Christians, is a nich is nothing if it on earth and goodoring about that for failure, or else it is nterpreted, why are s strong enough to

That Christianity of Christianity. religion which Iesus e was made to carry anity nearer to the sus, with the result the great Reformanow. But is it not ther to the ideals of the religion which which he personally

iken, in my humble nt an invitation has r the International of this month. The of this great counwelve great nations ient be encouraged. and we are helpless: ted, and that every ne press and for the the public schools to unite in the fight urse of war; that a vill not submit to

stianity a Failure? of peace and good-

olishment of God's

QUIET THE HOUR

TO BE WITH CHRIST

is gain. choose I wot not. For I am in a without seeing us. strait betwixt two, having a desire to We look up into the sky and say depart, and to be with Christ, which that Heaven is there, but if we begin is far better.-Phil. 1., 21-23.

"Beside the dead I knelt for prayer, And felt a Presence as I prayed, Lo! it was Jesus standing there, He smiled, 'Be not arraid!'

" Lord, Thou has conquered death, we know,

Restore again to life,' I said, This one who died an hour ago He smiled, 'She is not dead!

keep

Her prisoned eyes from ours away. He smiled, 'She doth not sleep!

wake, And look upon some fairer dawn,

Restore her to our hearts that ache: He smiled, 'She is not gone!' " 'Alas! too well we know our loss, Nor hope again our joy to touch, Until the stream of death we

He smiled, 'These is no such!'

" Yet our beloved seem so far The while we yearn to feel them Albeit with Thee we trust they are.

He smiled, 'And I am here!

" Dear Lord, how shall we know Still walk unseen with us and

Nor sleep, nor wander far away?'
He smiled, 'Abide in Me!''

" Anxious Mother" wants to know what I think of Heaven, whether we shall "know each other, and remember what relation each one was to us in this life.". She says she used to think it was a "place," and now she hears some people say that it is a or condition. I fancy she is a little disappointed at the change of opinion; although we all know that if the heart is beating fast with a new and wonderful joy, any place becomes dear. Palaces are very un-satisfying to one who is homesick for the sight of a dear face, and to be with Christ is to be in Paradise, if

der memory of the past.

be in closest fellowship with friends For to me to live is Christ, and to who are out of our sight, and they What I shall also can be in close touch with us,

to measure the distance by mileswith mathematical; materialistic precision—just think how infinitely away it would seem to be! Take the most powerful telescope that you can conceive of, look through it, and you will see into the depths of infinite space-but no telescope could possibly help us to see the golden gates of Heaven, nor the sunny fields of Paradise. In our desire to make the life beyond the grave seem a reality, we must not lower it by ma-"Asleep, then, as Thyself did say, terialistic thoughts. If we do, we But Thou can'st lift the lids that shall be forced to seek the spiritworld at an immeasurable distance. When Elisha prayed that God would appoint us in nothing, but to do for open the eyes of the young man, that us far more than we could ask or he might "see," the prayer was think. Wherever in space the heaven then, tho' haply she doth answered, and, "behold the mountain may be into which His bodily pres-

> "And everywhere, here and always, If we would but open our eyes We should find through these beaten

footpaths

round about Elisha.'

The clod would sparkle—a gem;

fect place imaginable could not make space. any one happy if his soul were black

shall have bodies as well as souls, ways: and our Lord expressly declares that He has gone before to prepare a "place" for His disciples. He has also promised to "come again" and receive them unto Himself, saying Where I am, there ve may be also. He speaks of making a new heaven and new earth, as though great changes might be expected in the existing order of things.

We cannot understand; yet we can surely trust our Lord's love to dis- Editor "The Quiet Hour" Wherever in space the heaven ings " was full of horses and chariots of fire ence ascended visibly, and from which He shall visibly come again at the Last Day, we know that He is most truly with us still-and yet He went awav.

too deep for us, we at once discover words that would imply nourishment new difficulties. If our present ideas for his spirit as well as for the body? Our way into Paradise. new difficulties. If our present ideas Dull earth would be dull no longer, of place are to govern heavenly things, how can we—each of us—kneel



ALONG THE SHORES OF LAKE ERIE.

Would be building Jerusalem."

would be very poor if it could not without the help of the senses. In has met and is meeting their highest From heaven in answer rang survive death, or if it lost the ten- Heaven, when soul and body are re- needs. The Bible united, God will provide perfect satis- We cannot yet understand the life

who have passed out of sight. The door is flung open, and we can look through into the brightness beyond. We see that those who have passed through that door are with Christ—they are "not dead," they "do not sleep," they are "not dead," they is don't sleep," they are "not dead," they are "not dead," they "do not sleep," they are "not dead," they are "not dead," they "do not sleep," they are "not dead," they "do not sleep," they are "not dead," they are "not dead," they are "not dead," they "do not sleep," they are "not dead," they are "not dead," they "do not sleep," they are "not dead," they weep with those who have they shad on the shadow of a cross arose Upon a lonely hill. As the shadow of a cross arose Upon a lonely hill. As the shadow of a cross arose upon to hearth the shadow of a cross arose upon to hearth the weep with those who have the shadow of a cross arose upon to hearth the shadow of a cross arose upon to hearth the shadow of a cross arose upon to hearth the shadow o

And our hands, at their commonest at our Master's feet and gaze up into His face. We should be crowded out by the thronging multitudes, and could hardly hope to get near As for the question whether we shall know each other, and remember the past, in the new life beyond the veil of death, I don't feel any doubt in my own mind. God is Love, and learthly love is a rich gift from Him to His dear children. Love is, in its nature, eternal—the greatest would be very poor if it could not without the help of the senses. In has met and is meeting the to to to to the hem of His garment. If He is to be all-satisfying the to the spirits, and also the bodily the senses, of all who love Him, He must be some way of meeting us that is tood in Old Jerusalem have some way of meeting us that is beyond our present comprehension. I heard the children singing, apprehend here, that we can and do millions of souls at once, and yet unsured witnesses testify that He Methought the voice of angels would be very poor if it could not without the help of the senses. In has met and is meeting their highest. It is a great mistake to attempt to even to touch the hem of His gar-

der memory of the past. The Bible united, God will provide perfect satistically we cannot yet understand the life tells us of the love of God, and we faction for both bodily and spiritual beyond death; but we shall still be can rest on that, sure that He will desires. If He leaves us in the dark ourselves, and the God who loves us now, it is probably because the things will provide opportunity for our highworld be terribly disappointed if human fellowship were interrupted or deep to go many has not seen nor his been called to "go forward" by first The eye of man has not seen, nor his been called to "go forward," my first I don't know who wrote the verses ear heard, anything fit to be compared instinct is to send congratulations to And then, methought my dream was I don't know who wrote the verses ear heard, anything fit to be compared instinct is to send congratuations to given above, but they answer many to the glories which God has prepared his friends on his behalf. The sorquestioning hearts. We feel that for hearts that love Him. It would row seems really small in comparithey must speak the truth, because be impossible to describe the beauty son with the joy that he is most certainly experiencing. The mourners which seems to shut us from those birds to one who had always been who have passed out of sight. The blind or deaf. His conception would door is flung open, and we can look be very different to the reality.

We know that Heaven is a "state was not bound by the laws of gravibecause the most per- tation, or hampered by the laws of

But I must not make this article with unrepresented sin. No one too long. The subject is beyond my could possibly find himself in Heaven powers to understand or make clear, unless he was cleansed and made pure; but I would remind "Anxious even if he were permitted to enter Mother" that we can trust where we the open gates and wells along the the open gates and walk along the cannot understand. I know that "to golden streets. He would be utterly die is gain," because we shall be more miserable, being out of harmony with perfectly in open fellowship with our God and all his surroundings. Lord when, with clear spiritual vi-But 1 should be very unwilling to sion, we "see Him face to face," and believe that Heaven is not also a know even as also we are known. Let "place." When we enter there we us never forget that He sees us al-

> Thou, all unseen, dost hear my tired cry

As I, in darkness of a half-belief, Grope for Thy heart, in love and doubt and grief ;

Lord, speak soon to me-' Lo, here am I!'"

DORA FARNCOMB.

In your issue of March 18th, a subscriber asks for one or two "blesssuitable for mealtime. answering a question such as this, your reader would like to know what was in Subscriber's mind that prompted the question? Was it that the food would be of more beneit to him if he prayed the Lord to If we try to understand mysteries bless it?-or was it for a form of -or was it to know whom he should ask? As this is very important, I will assume this was his reason, and as there is diversity of ideas on this point, it is necessary for me to be careful what I say. I am aware some would say, "Ask God," mean-ing a personal Deity, who hears our I am aware petitions through another personal divine Being-but I would say, and I think that Scripture teaches, that "Blessed is the man whose God is the Lord"; the name Lord implies all of Deity revealed to man, and is the fulness thereof, "the true God and eternal life," the "I am." That Name is above every other name as a revelation of the attributes of divinity recorded in the Bible, therefore He says, "Ask of Me and it shall be given unto you, come unto Me, etc.; therefore any form of words is acceptable, when the mind and heart are directed to Him as the Giver of every good and perfect gift. Ask Sub-scriber to continue the blessing in using that he has manifested in providing his blessings for body and spirit.

JNO. BROADFOOT.

Huron Co.

THE HOLY CITY

Jerusalem! Jerusalem! Lift up your gates and sing, Hosanna, in the highest, Hosanna to your King Hosanna, in the highest Hosanna to your King!

changed

The streets no longer rang, Hushed were the loud hosannas The little children sang. The sun grew dark with mystery

The light of God was on its streets, It was the New Jerusalem, The gates were open wide, And all who would might enter, And no one was denied.

No need of moon or stars by night,

Or sun to shine by day; It was the New Jerusalem, That would not pass away. That would not pass away.

Jerusalem! Jerusalem! Sing for the night is o'er, Hosanna, in the highest, Hosanna, for ever more! Hosanna, in the highest, Hosanna, for ever more!

NOOK INGLE

READ THIS

There is a new Barrie play called "What Every Woman Knows." Every woman knows that things to eat grips every feminine heart. Cut do not have them, we all try to That is all, except the little work imagine ourselves presiding over the table on which they are displayed,

DAME DURDEN, and hope some day the dream will come true.

But suppose the costly table trap-

especially where there are children and hired help, and replacing broken pieces in Crown Derby or Royal Doulton is possible but costly.

However, there is no need to make up one's mind that being unable to buy costly china means using clumsy and ugly dishes. Not at all. That belongs to the Some of the past. art that is seen on the good ware—and it is art as real as you will find on canvasses and in picture galleries—is finding its way into the grades that are quite within the reach of us who cannot afford luxuries, but who like our necessities in as beautiful form as possible. Both tea and din-

Ingle Nook readers to know about right away, so that you could meeting. have an opportunity to get a set

Send in their names and addresses

In a recent number of the "Farm- them.

had singing, an appropriate recita- den for sending it to me. We mean have them nominated, a seconder is ers are hurrying up with their spring not required, and it will usually be work and getting ready for seeding found that even balloting or a show It is discouraging for the farmers to of hands is not required, for there work so hard getting their grain in will colder the second of the sec

DAME DURDEN, enough of the women's institute spirit so that we discussed the recipes WOMEN'S INSTITUTES IN ALBERTA of the various foods while eating

tion, had our photos taken, listened to make some before long. to a comprehensive talk on the ori-gin and growth, objects, subjects and Easter. I think it looks so nice to outlook of women's institute work, see the Easter eggs hanging about Then, after considerable discussion we the room. The snow is going lively, when electing officers at an organiza- banks. tion meeting, it is only necessary to I have noticed mostly all the farm-

difficult to get one person willing to oaughter, I take a great interest in accept any of the offices at the first farm life. I do love to see the golden grain waving in the gentle breezes.

The Alberta Superintendent of In- I think if the people in England's "What Every Woman Knows." Every woman knows that things to eat taste better if served off pretty dishes. Is there a woman in this good old world who does not love a daintily set table? There is a fastination about nice tableware that per year.

"What Every Woman Knows." Every have an opportunity to get a set that you would pay from \$4.50 to stitutes supplied us with blanks cities were here on a farm in sumshowing the various officers and commer they would be taken up with it mittees it was deemed wise to have and ready to leave the cipy. We elected. After we completed the have always had good crops, so I do not complain. I did not complain. I did not had lunch, which several of the wothink I would drift into such a long men considerately contributed. In conversation, but please forgive. business portion of the meeting, we should not complain. I did not had lunch, which several of the wo-think I would drift into such a long men considerately contributed. In conversation, but please forgive.

will seldom be any opposition. In and then have it either hailed or fact, I have usually found it most frozen. Although a farmer's glass, silver with the hall mark, glassy linen and china of the best are the ideal table furnishings, and, if we the set will be sent to you.

Send in their names and addresses towns or villages, and in summer. I should like to receive letters from the ideal table furnishings, and, if we the set will be sent to you.

That is all, except the little work certainly enjoyed it on a cold February was all try to the sent to you. not be considered necessary, but we answer all. certainly enjoyed it on a cold Febru-

pings did come into our possestion, we er's Advocate" I noticed your re- In addition to the general program Dear Dame Durden,-I wonder if pings did come into our possestion, we er's Advocate" I noticed your recould not use them every day, for we marks re women's institutes. One committee, we appointed a special you will let another girl into that
are all too busy to give the care and can not help wondering why there are committee to prepare the program for cosy corner, the Ingle Nook. My
labor that cut glass and silver and not more of these or similar organ—March, these to name three members cousin takes the "Advocate," and I
rare china needs. So they would be izations throughout the western provfor April, and so on. At our March always read the Nook and would like
put in the china cabinet or buffet and inces. Is it that the departments of meeting we had a splendid discussion to become a member if I'd be welbrought forth only on high days and
agriculture of the various provinces of flower and vegetable gardening come. holidays. This is true particularly are waiting for some show of inter- from a ctual experience in I wish you would give some space of the silver and glass.

China is somewhat different. The the women? Or is it that our own district, and, in addition, in your valuable corner for a talk on China is somewhat different. The the women are waiting for the de- we talked on labor-saving devices, and the justice of the local merchants best grades are not particularly fra- partment to make the first move? many bright ideas and amusing ex- in our towns. Some time ago I said will stand hard usage as If the latter is the case let us wait perjences resulted. We had a couple saw a piece in a paper entitled "Be gile, and will stand hard usage as If the latter is the case, let us wait periences resulted. We had a couple saw a piece in a paper entitled "Be well as the cheapest wares. But no longer. We have only to write to of appropriate songs and appreciative Loyal to Your District," and I sent

they are expensive, and accidents are the superintendent of institutes, or addresses from some of the escorts. in a reply to the same, but it did bound to happen in a busy household, the department of agriculture to be We commenced the meeting with not appear in print. I must say

THE HORSELESS CARRIAGE ON THE PRAIRIE.

sible. Both tea and dinner sets can now be obtained at reasonable prices that are strong enough to be used every day, and pretty from experience, as early this year enough in shape and design to decorate the table on any occasion, no matter how elaborate.

As a very concrete example, I have sible way will be given us. I speak "God Save the King." with on a strictly cash basis. Where is the difference between them and the mail-speak we made the first move in Alberta, miles, some drove eight or nine. Some women, who never saw an ox are sure of good quality for your from a railway, we have organized a a year ago, were not afraid to drive money. You can't give the merchant were promising women's institute, an ox team. We prove the truth of a very large order when he keeps before me a tea set that answers to which I fancy will continue to spread the maxim "Where there's a will hardly anything but groceries, and we the description given in the last sense. It consists of forty pieces of the original organization into several vote the women's institute as being don't we? Where is the local merkarishad china—an Austrian make, and Austria is famous for its glass should, or could, be a branch where-tricts.

The description given in the last sense which I fancy will continue to spread the maxim "Where there's a will hardly anything but groceries, and we are prepared to do need a little clothes sometimes, the original organization into several vote the women's institute as being don't we? Where is the local merkarishad china—an Austrian make, should, or could, be a branch where-tricts. and Austra is randous for its glass should, or could, be a branch where and china. The decoration is simple, ever there is a school district, where wreaths of tiny blue-green flowers festoned round the edge of each piece grown out of school age might meet and finished with a gold rim. The with the teacher and the boys and color in the decoration shows up well girls of the school one Friday aftermine the pure white and high finish many month, to discuss and against the pure white and high finish of the school one Friday afterof the china. There are in the set demonstrate subjects that are of via dozen each of plates, cups and tal interest to every person. What of a song called "When the Snowsaucers, two fancy cake plates and a topic is of greater benefit or interest birds Cross the Valley"?
sugar bowl and cream pitcher. The to every person than the "science of cups are of medium size and graceful homemaking"? It interests those read the article on Women's Insti-

Pres. Lea Park, Alta., Women's In-

organized the first women's institute and the sloughs and ravines are full of in Alberta. I might state here that water; some are overflowing their

A WESTERN MAIDEN.

SHOULD BUYING BE DONE AT HOME? 1 A

that our local merchants are to blame if mail-order houses get money they think should in the home be spent There is a reastores. son why, as usual, where a lot of kicking goes on, and we hear only one side of the First of all the local merchants keep very small stock of goods, and some are just sporting a few pieces cloth and empty dry goods boxes. Even necessary articles are not kept; sometimes sugar cannot be got for love or money during the fruit season. waiting until fall for the money they are not very willing to do that; in fact, they will tell you their store is run

ing a \$30 or \$50 order? When comes to giving trade in return then INGLE NOOK NEWS NOTES

Can some reader supply the words of a song called "When the Snowirds Cross the Valley"? they always get ahead of you, and FAIR PLAY.

cups are of medium size and graceful shape, while the plates are of a most serviceable size for breakfast, luncheon or tea.

Why did I describe that tea set so minutely?

There is a reason. The "Farmer's Advocate" has procured a goodly number of those tea sets and is offering them as premiums for subscribers. Of course such a premium appeals to women particularly, and I wanted our serviceable size for breakfast, luncheon that there are the plates are of a most who have good homes and those who have no homes. It is hows how to do that difficult thing—make a beginting them as premium size and the article on Women's Institutes in Alberta. It shows how to do that difficult thing—make a beginting them as premium size in Alberta. It shows how to do that difficult thing—make a beginting in Alberta. It shows how to do that difficult thing—make a beginting in Alberta. It shows how to do that difficult thing—make a beginting in Alberta. It shows how to do that difficult thing—make a beginting in Alberta. It shows how to do that difficult thing—make a beginting in Alberta. It shows how to do that difficult thing—make a beginting in Alberta. It shows how to do that difficult thing—make a beginting in Alberta. It shows how to do that difficult thing—make a beginting in Alberta. It shows how to do that difficult thing—make a beginting in Alberta. It shows how to do that difficult thing—make a beginting in Alberta. It shows how to do that difficult thing—make a beginting in Alberta. It shows how to do that difficult thing—make a beginting in Alberta. It shows how to do that difficult thing—make a beginting in Alberta. It shows how to do that difficult thing—make a beginting in Alberta. It shows how to do that difficult thing—make a beginting in Alberta. It shows how to do that difficult thing—make a beginting in Alberta. It shows how to do that difficult thing—make a beginting in Alberta. It shows how to do that difficult thing—make a beginting in Alberta. It shows how to do that difficult thing—make a beginting in Alberta. I (I am giving space to your letter

farmers and farmers their experience al can present good, ments without bitte personalities. I hop goodly number of le ject.—D. D.)

EDUCATING A

Dear Dame Durde number of the Ing name and address a a short time ago dumb institution for years old. This litt when about one ye ness being caused b on the inside. took her to Calgary by a specialist there me that she would only thing I could educate her. As she very delicate, I have away to the deaf in indigestion, but is ing. She is lively she gets a little too cries with her st Perhaps someone co would be good for l me some information how to teach her. learn, but as I ne a deaf person, it n for me to try to Thanks in advance tion on this subject.

Garrington, Alta.

WILLING TO R Dear Dame Dure been a silent rea Nook, and have writing, but have nuntil now, when recipe for mince-me England in May, 19 Alberta. I have to five years old, an two, so I find ther to do. But the ln such a help in ma was determined to

I see a verse of t been printed. I w all very much.
Do you think the

mind me being call (You can claim th appropriated before to be able to help ca suggestion of Mary incident or descript your life in the Old expect to hear from ing the mince-meat have already appea of you to send it.-

ABOUT TH

Oats for Boot-t departed with a la oats under his arm. "No," said the f doesn't eat 'em fo He uses 'em for be

"Oats for boot-t he gets home, he ta muddy boots, laces 'em with oats. Wh oats, like blotting swells accordin', p out splendid, rest original shape, ta

away. "So in the morn no matter how walkin' had been, l pair of perfectly

The thing that is give away in the hed' garment is the one who has had ! making trousers, co a family of boys, sisters, explain this

If neither press such as tailors use. the work on ironi

to me. We mean ore long.

ne is preparing for it looks so nice to ggs hanging about ow is going lively, I ravines are full of overflowing their

ostly all the farmready for seeding. for the farmers to ing their grain in t either hailed or farmer's great interest in ve to see the goldthe gentle breezes. cople in England's n a farm in sumtaken up with it ve the city. We good crops, so I lain. I did not into such a long lease forgive. eceive letters from ibers, and I will

ERN MAIDEN.

G BE DONE AT E?

len,-I wonder if er girl into that ngle Nook. My Advocate," and I ok and would like er if I'd be wel-

give some space mer for a talk on local merchants ome time ago per entitled "Be rict," and I sent same, but it did I must say r local merchants blame if mail-orouses get the they think should in the home There is a reahy, as usual, a lot of kicking in, and we hear ne side of the First of all ul merchants keep small stock of and some are just a few pieces and empty dry Even nearticles are not sometimes sugar be got for love ney during the As to until fall for the hey are not very to do that; in hey will tell eir store is run sis. Where is the em and the mailshould like to r the latter you quality for your ive the merchant groceries, and we othes sometimes, s the local mer you an article n if you are givorder? When e in return then ad of you, and merchant's trade

to your letter To the onon which there ne of the merern towns who Advocate " will and that the

FAIR PLAY.

April 28, 1909

name and address as I was inquiring a short time ago about a deaf and dry. All bastings s dumb institution for a little girl five moved before pressing, years old. This little girl went deaf when about one year old, her deafmess being caused by her head rising on the inside. Two years ago I took her to Calgary to be examined by a specialist there. He informed me that she would never hear. The only thing I could do would be to educate her. As she has always heen could be about one year old, her deafmethod of gilding a picture quart of soap jelly. In the morning frame is as follows: The plain I shake the blankets up and down in wooden moulding is first given a coat tub when all dirt comes out, if necestory of oil paint, and from four to ten sary, I rinse once or twice in cold water to which I have added a cold water to which I have added a guart of soap jelly. In the morning frame is as follows: The plain I shake the blankets up and down in our tub when all dirt comes out, if necestory of oil paint, and from four to ten sary, I rinse once or twice in cold water to which I have added a cold water to indigestion, but is gradually improvesive only a coating of clear animal pans, etc., from oven. A hole in ing. She is lively enough, but when size. The gold leaf is then laid on, handle for string to hang up behind she gets a little too much to eat she and burnished where desired. In stove when one knows just where to cries with her stomach at night. Perhaps someone could tell me what would be good for her, or could give me some information in regard to how to teach her. She is quick to learn, but as I never was used to a deaf person, it makes it awkward for me to try to teach her things. Thanks in advance for any information on this subject.

W. E. JOHNSON. Garrington, Alta.

WILLING TO RECIPROCATE

Dear Dame Durden,-I have long been a silent reader of the Ingle and have often thought of writing, but have not liked to do so until now, when I could enclose a recipe for mince-meat. I came from England in May, 1906, to a farm in Alberta. I have two children, a boy five years old, and a little girl of

Every night, as soon as he gets home, he takes off his wet and inuddy boots, laces 'em up, and fills 'em with oats. What happens? The

no matter how slushy yesterday's teacher's name is Mr. L. walkin' had been, he now puts on a pair of perfectly dry, new-lookin'

farmers and farmers' wives will give the padding used in ordinary ironing. which is simply copper beaten like their experience also. Both sides Moisten the seam by dipping fingers gold-leaf, is sometimes used, as is alcan present good, thoughtful argu- in water and applying as needed. So the so-called gold paint, which is can present good, thoughtful arguments without bitterness or offensive
personalities. I hope we shall get a
goodly number of letters on the subject.—D. D.)

EDUCATING A DEAF CHILD

The water and applying as needed, so the so-called gold paint, which is
new several degrees finely powdered brass or similar alloy
the iron must come several degrees finely powdered brass or similar alloy
and with size.

The mixed wi Dear Dame Durden,—I see that a it down with force on the seam, re-shaving one bar of soap into a quart number of the Ingle Nook members moistening the seam if it does not of water. After stirring in three have requested me to give them my press out flat and smooth and stay tablespoons of borax I set the mix-name and address as I was inquiring so. Press till the seam is more than ture on the stove until it dissolves,

educate her. As she has always been This done, a coat of gold-size is given A common shingle cut the shape of very delicate, I have not yet sent her to those parts which are not to be a shovel, thick end for handle, makes away to the deaf institute. She has burnished, but those which are, re- a great convenience for taking hot

All bastings should be re- afterwards allowing it to cool. then soak my blankets all night in cold water to which I have added a



A GOOD INVESTMENT

ABOUT THE HOUSE

Collar and a hat.

The river has not risen much this spring. I think I like it up here better than down south. We have got quite a lot of wheat to put in this spring. We have got two little calves, about three weeks old; one was born one day and the other the next day. I will be thirteen years old the 22nd of this month. I sent doesn't eat 'em for breakfast food. He uses 'em for boot-trees."

"Oats for Boot-trees.—A pale clerk departed with a large paper bag of oats under his arm."

"No," said the feedstore man, "he doesn't eat 'em for breakfast food. He uses 'em for boot-trees."

"Oats for boot-trees."

"Oats for boot-trees."

"Oats for boot-trees."

"Sure. Every night, as soon as he got two baseballs now.

Dear Cousin Dorothy.—This is my thought I would write too. I have the moisture out of the leather and swells accordin', plumpin' the boots out splendid, restorin 'em to their original shape, takin' every wrinkle away.

"So in the mornin', the man empties his oats back into the bag, and, no matter how slushy vesterday's teacher's name is Mr. L.

Dear Cousin Dorothy.—This is my thought I would write too. I have my hands to be given away. Perhaps this one working away from home for a for the name of the Children's Corvear, and like it fine, but the place I am staying now is the best. I have stayed here for ten weeks.

A POOR FARMER'S BOY.

Alta. (b).

NOT FORGOTTEN

Sask. (a).

EASTER EVENTS

The thing that is usually an instant give away in the home-made "tailor-ed" garment is the pressing. Let one who has had long experience in making trousers, coats, and vests for a family of boys, and gowns for their sisters, explain this important work. If neither press-board nor goose, such as tailors use, is available, lay the work on ironing-board without have had quite a cold winter, but doesn't Kit Allen send some more, as duite forgotten Oriole? I have been silent so long I am almost ashamed of myself, but, really, I have had very little time, for we have about two months and a half to study in. Isn't that awful?

If neither press-board nor goose, such as tailors use, is available, lay the work on ironing-board without have had quite a cold winter, but doesn't Kit Allen send some more, as left to silent so long I am almost ashamed of myself, but, really, I have had very little time, for we have about two months and a half to study in. Isn't that awful?

I am so sorry to hear of Philadelphia's death. I always watched for that Philadelphia died. I know that it would bring a lot of trouble and personally.

Sorrow to her parents. Her letters and wished I knew her personally.

You seem to be having a lot of trouble over the drawings. Why the work on ironing-board without have had quite a cold winter, but doesn't Kit Allen send some more, as a labele premium co. Det H. Was a labele p

summer is almost here now. The two, so I find there is always plenty to do. But the Ingle Nook has been such a help in many things that I was determined to write.

I see a verse of the Holy City has drep's Corper.

Summer is almost here now. The people are planting grain, and preparing the land for sowing the grain. We had a concert over at our school. It was mostly for grown folks. The Western Wigwam better than Children only had two songs and one drill, it was in both of the songs. To-mor-row is Easter. Have you gophers ahd put them in a box, but they gnawed a hold in the box and suppropriated before you. You ought to be able to help carry out that good suggestion of Mary's of giving some incident or description connected with your life in the Old Land. We shall expect to hear from you. I am saving the minco-meat recipe, as several have already appeared. It was kind of you to send it.—D. D.)

Western Wigwam better than Children only had two songs and one drill. I wasn't in the drill, but I was in both of the songs. To-mor-row is Easter. Have you got your table two gophers ahd put them in a box, but they gnawed a hold in the box and system week. I caught two gophers and put them in a box, but they gnawed a hold in the box and system with the fires at the school in the winter, but I have quit since spring came. It is four miles to the school-house last winter. I got 25c. a morning for it, and have already appeared. It was kind of you to send it.—D. D.)

Western Wigwam better than Children only had two songs and one drill. I wasn't in the drill, but I was in both of the songs. To-mor-row is Easter. Have you got your table to shout a week. I caught two gophers ahd put them in a box, but they gnawed a hold in the box and system was in both of the songs. To-mor-row is Easter. Have you got your table two songs and one drill. I wasn't in the drill. I was in both of the songs. To-mor-row is Easter. Have you got your table two songs and one drill. I was in both of the songs. To-mor-row is Easter. Have you got your table two in the fields for about a week. I caught two songs and one drill. I was in both of the songs. To-mor-row is Easter. Have you got your table for a bout a week. I caught two songs and one drill. I was in both of the songs. To-mor-row is Easter. Have you got your table for a bout a week. I be about a week. I be about a week. I sught two songs and one drill. I was in both of the songs.

having chilly weather here now. I have been driving four horses on the stor CHOOSE ANOTHER PENNAME disc for the last five days. My
Dear Cousin Dorothy,—This is my friends write to your club, and I
first letter to the "Farmer's Advothought I would write too. I have
cate" I like the Western Wigwam" been working away from home for a box will cure you—it h

Dear Cousin Dorothy,-Have you quite forgotten Oriole? I have been

every year are obtained from one of our ranches alone for making BOVRIL. This num-ber is supplementary to large numbers slaughtered in Australia and New Zealand to provide the raw material for BOVRIL.

To save cost of transportation the first processes in the manufacture of BOVRIL are carried out where the cattle are raised at our own factories on our Cattle Ranches.

Take

BOVRIL

Grass Seeds

Timothy, Brome, Red Top Clover, etc., Fancy Imported Stock. Very Low Prices.

Cleaned Grain

Suitable for seeding purposes. Send for samples and prices.

Potatoes

We are always open to handle these in any quantity. Correspondence solicited.

WILTON BROS.

Cor. King and James St. WINNIPEG, MANITOBA.

When answering advertisements mention the Farmer's Advocate.



-at once—your name and address. A post card will do. The Reliable Premium Co. Dept. H. Waterloo, Ont. 20

A Woman's Sympathy



You cannot possibly have a better Cocoa than

A delicious drink and a sustaining food. Fragrant, nutritions and economical. This excellent Cocoa maintains the system in robust health, and enables it to resist winter's extreme cold.

Sold by Grocers and Storekeepers in 1-lb. and 1-lb Tins.



A dear old country gentleman and his wife paid a visit to the seaside. While the simple pair were walking on the beach one evening they suddenly noticed the revolving light of a lightship.

The old lady gazed at it with open eyes for some minutes, then she turned to her husband with a puzzled

sexes get just so far and no further. "Much they care," says the uninitiated slim one. But they do care. They care keenly for financial, mental. comfort reasons, and that is why Marmola Prescription Tablets have been so heartily welcomed by the overweight classes. The reason is not far to seek. Marmola Prescription Tablets take off about a pound a day, in most case out interfering in any way with the taker's tendencies or his love of ease. To som their absolute economy appeals. Thus case costing seventy-five cents at any drug or of the makers, The Marmola Company, De troit, Mich., direct, is said in itself alone to co tain enough tablets to make a decided char

But these are merely surface reasons. Marmola checks the formation of fat by curing the fat-forming tendency. The fat just slips away as it were, without a sign of a wrinkle. work these tablets do is not injurious. It is natural. That is the real reason these tablets an so much appreciated. They are sate.

We seem to be going to have a late spring. It is snowing a little See the vapor billows, to-day, and is quite chilly; but there Watch them ebb and flow, meadow larks and robins are back as well as ducks, geese, and crows.

twenty-four cattle, eleven horses, And Mary Louise Brighteyes is a teacher's name was Miss A—, or etc.," is dying out, for which I am darling. She arrived quite safely, B—, or McL—. Now they are all very glad, though few of the members and has a position where I can see interesting, with a few exceptions, send original stories. I think I have her every time I raise my eyes. The sent my share, but just to keep the girls in the office were asking if they again, I will describe an Austrian bell relieved to the contract of t ball rolling, I am sending another could play with her. I can't put in wedding. Till then, adieu Why don't some of the members be-words how kind it was of you to take stir themselves and send some? so many careful stitches for me.— Wishing you and the members every C. D.) success, I am, as ever,

ORIOLE.

Man. (a).

for remembrance.

live on a farm of 180 acres. The books in our school, and on house is surrounded with trees. There we take books home to read. is a bluff each side of the lane, and on the east and west side of the stables. It is seven miles from our place to Winnipeg. I have three-quarters of a mile to go to school, quarters of a mile to go to school, Dear Cousin Dorothy,—I was so puddles everywhere, almost, in the and I am going to drive my pony sorry to read that Philadelphia is garden.

There is bush on one side of the road dead. It seems a pity indeed that Millie sighed, and then turned

growing out here, as the violet, cro-cleverest members of the Western cus, dandelion, daisy, ox-eye daisy, Wigwam.

sunflower, primrose, purple aster, I like Figzle Top's way of greeting turned her dark brown eyes on her sunflower, primrose, purple aster, lady-slipper, rose, lily, and many purple aster,

irst letter to the Western Wigwam. now. could never get up enough courage to write until one of the boys said read more stories than I can remem- type. have lots of fun swimming in the summertime. many gophers around here this year, and Laura E. Richards. I am espe-forehead, arched eyebrows of the surand I have caught some with a string. cially fond of Augusta Wilson's books, prised type, a Roman nose, and a vears ago. There is a much milder climate over there than we have here. I guess I will close now as it is eleven o'clock and I must get to bed. CHARLES S. FINLAY.

boys in their family.

drawing seems to be one of her special bubble, goes the pan; Could we have talents?

Could we have from the season if Cousin Dorothy? you can,

makers know.

DORA L. BATTY.

WHAT HAVE YOU READ?

Dear Cousin Dorothy,—This is my first letter to the Western Wigwam. SHELTERED BY TREES I enjoy reading the letters very much.

Dear Cousin Dorothy,—I have not My papa has taken the "Farmer's written to your club before, but I Advocate since the new year. I go have been as interest of the second of the secon have been an interested reader. I to school every day, and I am in the am very glad you are going to have a fourth book. I have only one-quarter but a grown person can properly apbutton, and I would like to win one of a mile to walk. I am very fond of reading books. I have five it again when We live near a quarry, but it is not brothers and two sisters. I was again.—C. D.) being used now. It has two quite twelve years old the twenty-first of large ponds, which are very deep. We December. We have about fifty live on a farm of 180 acres. The books in our school, and on Fridays

ESTHER WESTLUND. Alta. (a).

AN INVETERATE BOOKWORM

chere is bush on one side of the road dead. It seems a pity, indeed, that (Millie shelters me from some of the winds. soon. I enjoyed her bush of the property There are a lot of wild flowers much, and think she was one of the ing

I like Pizzle Top's way of greeting turned net s. Where is Georgina Thompson? "Alway others.

PRIMROSE.

Man. (a).

PRIMROSE.

Man. (a).

Where is Georgina Thompson?

She seems to have forgotten us. I would like to see another story by Georgina. I am sending a story called the "Doll's House." Oriole writes splendid stories. There is quite a number of authors in the Wigwam

TELL US ABOUT YOUR IRISH HOME

Dear Cousin Dorothy,—This is my number of authors in the Wigwam

There was a great difference be-

as her heroines are exceedingly clever, strong figure.
and I like to read about clever peo- Agnes was slender, colorless and ple. Have you ever read any of her delicate. She had the appearance of CHARLES S. FINLAY.

Alta. (a).

CHARLES S. FINLAY.

Alta. (by, get some of the following, and boys, get some of the following, and will send it on the disappointed:

REPING HER PROMISE

REPING HER PROMISE

**Dear Cousin Dorothy,—I expect you think I have forgotten about the Ingrade "series, by Laura Richards; think of England," by Charles dian dollie, but I have not. I just finished it to-day, and will send it on next mail with this letter. Her name is Mary Louise Brighteyes. The snow is nearly gone, and we are tenthusiastic. They do down deep inside. But what does jt amount to? Their fat doesn't get excited. They can't transmute their enthusiasm into energetic action, so they might as well keep calm.

Thus it is that fat people generate much steam for life's work, only to find the load too much for life's work, only to find the load too much for life's work, only to find the load too much for life's work, only to find the load too much for life's work, only to find the load too much for life's work, only to find the load too much for life's work, only to find the load too much for life's work, only to find the load too much for life's work, only to find the load too much for life's work, only to find the load too much for life's work, only to find the load too much for life's work, only to find the load too much for life's work, only to find the load too much for life's work, only to find the load too much for life's work, only to find the load too much for life's work, only to find the load too much for life's work, only to find the load too much for life's work, only to find the load too much for life's work, only to find the load too much for life's work, only to find the

Then there is another bathing place the back of them, and hung them on a called Chuwassen, which is an Indian tack suspended by a thread. And, reserve. There are only a few Innow, I think I have made quite dians on it, because many of the old a picture of a doll's house. I wonones have died and only a few, I have der if any of the cousins will make heard, live to be men and women, one? I should like to hear about The Indians here do not live in wigwams, but have fairly good houses, and make their living by farming, with best wishes to Cousin Dorothy Sometimes they sell blueberries and and my Indian cousins. Oh, I forestants

Could we have a debate, please, be fine. What do the members say

It is surprising how much the Western Wigwam has improved. Once are some encouraging signs, for the No sweeter joys than these we sugar- there was so much repetition about the letters I did not care to read They were nearly all about Well as ducks, geese, and crows.

I notice that the old style of writing letters, e.g.: "My papa has (What a nice, kind, Wig, you are! how many horses, cows, pigs and chickens papa had, and that the twenty-four cattle, eleven horses, And Mary Louise Brighteyes is a teacher's name was Miss A—, or etc.," is dving out, for which I am darling. She arrived quite safely, B—, or McL—. Now they are all

VIOLETTE. (Your letter was a fine one, and we are glad to get the story, too. I quite approve of your taste in books. except Augusta Wilson's. Her heroines are too clever altogether to be They are not girls; they natural. are walking encyclopedias and dictionaries. I'm glad you find those of the author you mention sickening. You have a healthy mind. No one preciate Jane Eyre, but you can read it again when you are older. Come

THE DOLL'S HOUSE

By Violette.

Millie Stanton stood at the kitchen window looking at the rain. It was certainly coming down in earnest. The large drops beat incessantly against the glass, and there were

She was not fond of stayenjoyed her letters very ing in the house, and reading, playthe organ or making

'Always reading or practicing,

There was a great difference be-I am very fond of reading, and have sister, was a beauty of the robust read more stories than I can rememtype. She had a healthy brunette he would like more of the fellows to ber. Mamma says I am an inveter-color, frizzy, black hair, which she the more of the ferrows to ber. Mamma says I am an inveter-color, irizzy, black rail, which sale we live near a river, and ate bookworm. My favorite authors dressed very becomingly, parting it so fun swimming in the are: Augusta J. Evans Wilson, in the middle and drew it down over time. There are a great Louisa Alcott, Sara McLean Greene each ear. She had a low, straight

books, Cousin Dorothy? If you are a girl who was constantly in the thinking of getting books, girls and house. She had an intellectual face, boys, get some of the following, and but certainly not a pretty one. The

Ladner, the place in which I live, is a cigar box, which Millie had covered Ladner, the place in which I live, is a cigar box, which Millie had covered a country town, situated on the with wall paper and put shelves in, family of four dolls, and five with Fraser River, I live in the country, on which were arranged the tiny little Mary Louise. I wanted a picture of her before she start her long journey to your wigwam. I hope time. About four or five miles from chief—and four chairs. Up in the little will not be lonesome. I wonder Ladner there is a bay called Bound-tle chamber. Agnes put a home-made is the chatterers could give are Bay, where numbers of people hed with little pillows, matterss and if some of the chatterers could give ary Bay, where numbers of people bed, with little pillows, mattress and me the words of the "Sugar Maple" from Ladner and New Westminster covers; and another cigar box served camp out in summer. I like to as a trunk. The little girls did not drive there, and see the tall evergreen even forget to put up pictures. Agnes trees, the sandy road and hills, and cut out photograps of framed picture sparkling blue water of the bay. tures, pasted a piece of cardboard on Then there is another bathing place the back of them, and hung them on a

got to say I made a little doll-house

just like the one I ing, but I did not stove. Perhaps, ir I will tell the cou Perhaps, ir more happy times Stanton spent w Misses Leone and L they called them.

The Gold

By WILLIAM, KII Copyright by L. C.

"Well, I am rea any day! The kin to the dogs fast Governor commission Jesuits to act as r the petulant remark

of La Serre. A strong prejud army against the A opposition to the I troops in his They de phytes, and many shared in the lucra water to the Indian zealous in stopping the officers complai

over-protection of The famous as he was called, air of dignity a seemed to assert h ent in the Counci scornful looks of n had not escaped hi

The keen black lips, and high sw the Abbe would ha plumed hat of a 1 His loose black ro freedom, reminded senator of Venice quailed at any poli if required for State.

The Abbe held i roll of wampun treaties made by h nations of the We alliance and aid t tio, as they calle New France

" My Lord Gov

Abbe, placing his table, "I thank

the missionaries to appear less as chu casion than as bassadors, althoug we have done wil glory and the among the heather wampum are tok we have made wit warlike tribes of hear to the Gover ance from the Mi of the great va Riviere, which the am commissioned they are at peace at war with his time forth foreve the arms of Fran the Belle Riviere, lands and wate panage of our sc Alleghanies to Louisiana. The the Mississippi; Winnebagoes, and dred bands who rivers and lakes warlike Ottawas the Algonquin tor Lake Erie,—in sh the Iroquois have the field nor shall require the Five Nations. i all these Quebec, and ratif al Council the send by me and aries, my brothe

rolled the belts fathoms in leng end to indicate t liance of . the France. The A meaning, and wi out the totems chiefs who had s

The Abbe, wi

manner of one le

speech and usage

pleased to give upon application.

ı debate, please think it would e members say? much the Westmproved. Once repetition about care to read nearly all about cows, pigs and and that the Miss A--, or Now they are all ew exceptions. If I write

cibe an Austrian adieu. VIOLETTE. fine one, and we story, too. r taste in books. Her hero-Itogether to not girls; they opedias and dicyou find those ention sickening

can properly ap-

but you can read

re older. Come

No one

HOUSE

mind.

tte. d at the kitchen e rain. It was own in earnest. eat incessantly and there were almost, in the

then turned ot fond of stayd reading, playmaking fancy-Agnes, who was Bronte." Millie vn eyes on her

or practicing," ly, "Agnes, do t shall we do? but perhaps we vely inside.

difference be-Millie, the elder of the robust nealthy brunette bair, which she gly, parting it a low, straight rows of the suran nose, and a

r, colorless and ie appearance of istantly in the intellectual face, pretty one. The out of propor-Her eyes were was black and her deep-set, on Millie for a

a doll's house." ng, Aggie," said

d

put a partition pered the walls ited the floors. in a stove, with ng pots on top and two baking k of it. Next illie had covered put shelves in, inged the piano, a tableread a handker Up in the litrut a home-made vs, mattress and eigar box served tle girls did not pictures. Agnes of framed of cardboard on hung them on a thread. And, ave made quite house. I wonsins will make to hear about

Cousin Dorothy ns. Oh, I for-

just like the one I have been describing, but I did not have a piano and Perhaps, in the near future, I will tell the cousins about many more happy times Millie and Agnes Stanton spent with their dolls, Misses Leone and Lyndall Chester, as they called them.

The Golden Dog

By WILLIAM, KIRBY, F. R. S. C. Copyright by L. C. Page Co., Incorpd.

"Well, I am ready to turn pedlar The king's army will go to the dogs fast enough since the Governor commissions Recollects and Jesuits to act as royal officers," was the petulant remark of another officer of La Serre.

A strong prejudice existed in the army against the Abbe Piquet for his opposition to the presence of French troops in his Indian missionary villages. They demoralized his neophytes, and many of the officers shared in the lucrative traffic of firewater to the Indians. The Abbe was zealous in stopping those abuses, and the officers complained bitterly of his over-protection of the Indians

The famous "King's Missionary," as he was called, stood up with ai: of dignity and authority that seemed to assert his right to be present in the Council of War, for the scornful looks of many of the officers had not escaped his quick glance.

The keen black eyes, thin resolute and high swarthy forehead of the Abbe would have well become the plumed hat of a marshal of France. His loose black robe, looped up for freedom, reminded one of a grave senator of Venice whose eye never quailed at any policy, however severe, required for the safety of the

The Abbe held in his hand a large roll of wampum, the tokens treaties made by him with the Indian nations of the West, pledging their alliance and aid to the great Onontio, as they called the Governor of

New France.
"My Lord Governor!" said the Abbe, placing his great roll on the I thank you for admitting the missionaries to the Council. We appear less as churchmen on this occasion than as the King's ambassadors, although I trust that all we have done will redound to God's glory and the spread of religion among the heathen. These belts wampum are tokens of the treaties we have made with the numerous and warlike tribes of the great West. bear to the Governor pledges of alliance from the Miamis and Shawnees of the great valley of the Belle Riviere, which they call the Ohio. am commissioned to tell Onontio that they are at peace with the King and at war with his enemies from this time forth forever. I have set up the arms of France on the banks of the Belle Riviere, and claimed all its lands and waters as the just appanage of our sovereign, from the Alleghanies to the plantations of Louisiana. The Sacs and Foxes, of the Mississippi; the Pottawatomies, Winnebagoes, and Chippewas of a hundred bands who fish in the great rivers and lakes of the West; the warlike Ottawas, who have carried the Algonquin tongue to the banks of Lake Erie,-in short, all enemies of the Iroquois have pledged themselves the field whenever the Governor shall require the axe to be dug the Five Nations. Next summer the i all these tribes will come to Quebec, and ratify in a solemn Gener-Council the Wampums they now send by me and the other missionaries, my brothers in the Lord!

The Abbe, with the slow, formal manner of one long accustomed to speech and usages of the Indians, unrolled the belts of wampum, many fathoms in length, fastened end to end to indicate the length of the alliance of the various tribes with France. The Abbe interpreted their meaning, and with his finger pointed out the totems or signs manualchiefs who had signed the roll.

NOW IS THE TIME TO BUY BINDER TWINE

We would strongly urge prospective users of Binder Twine to order immediately, delivery when desired. It is not necessary to send money with your order. It can be paid for on delivery Below you will find the prices at the six chief distributing points. Any further information we will be very

Colden Manilla		Brandon	Regina	Saskatoon	Calgary	Edmonton
550 ft, to lb.		9c. per lb.	9½c. per lb.	9½c. per lb.	93c. per lb.	93c. per lb.
Eaton Standard 500 ft. to lb.	8½c. per lb.	8½c. per lb.	83c. per lb.	8 3 c. per lb.	9c. per lb.	9c. per lb.

Our Twine is put up in 50-lb. bales only,—10 balls to the bale, and every bale is lashed with a 22-foot Manilla rope, and every pound sold bears our liberal guarantee

"If the Twine should prove unsatisfactory for any reason, or if your crops are destroyed "by hail, frost, or excessive rains, the Twine may be returned at our expense and we "will refund value as well as charges incurred."

OUR NEW AGRICULTURAL DEPARTMENT

Our new venture this year in the shape of a farm implement department has been very greatly appreciated by the Western farmers. The same motive which induced us to handle Binder Twine a couple of years ago also applied in the case of agricultural goods. This motive was to show the farmers just what their supplies should cost them when only a fair rate of profit was charged.

Just how successful we were in the first instance many thousands of grain growers can gladly attest, and our second venture bids fair to out-rival the first Our implements are all made by the most reliable manufacturers and our complete confidence in them is demonstrated by the fact that our very generous guarantee stands back of them, as well as all the other

Full descriptions and illustrations will be found on pages 286 to 296 of our Spring and Summer Catalogues

THE T. EATON CO. LIMITED CANADA WINNIPEG

This Washer Must Pay for Itself

MAN tried to sell me a horse once. He said it was a fine horse, and had nothing the matter with it. I wanted a fine horse. But, I didn't know anything about horses much. And, I didn't know the man very

well, either. So I told him I wanted to try the horse for a month. He said, "All right, but pay me first, and I'll give back your money if the horse isn't all

Well, I didn't like that. I was afraid the horse wasn't "all right," and that I might have to whistle for my money if I once parted with it. So I didn't buy the horse, although I wanted it badly. Now, this set me thinking. You see, I make Washing Machines—the "1900 Gravity" Washer. And, as I said to myself, lots of people may think about my Washing

Machines as I thought about the horse, and about the man who owned it. But I'd never know, because they wouldn't write and tell me. You see,

I sell all my Washing Machines by mail. (I've sold 200,000 that way already.) So, thought I, it's only fair enough to let people try my Washing Machines for a month, before they pay for them, just as I wanted to try the

Now, I know what our "1900 Gravity" Washer will do. I know it will wash clothes, without wearing them, in less than half the time they can be washed by hand, or by any other machine.

When I say half the time I mean half-not a little quicker, but twice

I know it will wash a tubfull of very dirty clothes in Six, minutes. I know no other machine ever invented can do that, in less than 12 minutes, without wearing out the clothes.

I'm in the Washing Machine business for Keeps. That's why I know these things so surely. Because I have to know them, and there isn't a Washing Machine made that I haven't seen and studied.

Our "1900 Gravity" Washer does the work so easily that a child can run it almost as well as a strong woman. And it don't wear the clothes, nor fray the edges, nor break buttons, the way all other washing machines do. just drives soapy water clear through the threads of the clothes like a Force Pump might.

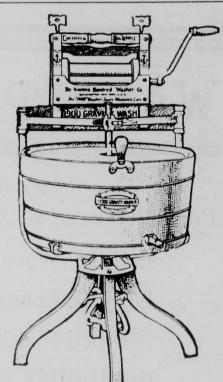
If people only knew how much hard work the "1900 Gravity" Washer saves every week, for 10 years, and how much longer their clothes would wear, they would fall over each other trying to buy it. So said I to myself, I'll just do with my "1900 Gravity" Washer what

I wanted the man to do with the horse. Only, I won't wait for people to ask me. I'll offer to do it first, and I'll "make good" the offer every time. That's how I sold 200,000 Washers.

I will send any reliable person a "1900 Gravity" Washer on a full month's free trial! I'll pay the freight out of my own pocket. And if you don't want the machine after you've used it a month I'll take it back and pay the freight that way, too. Surely that's fair enough, isn't it?

Doesn't it prove that the "1900 Gravity" Washer must be all that I say

it is? How could I make anything out of such a deal as that if I hadn't the finest thing that ever happened for Washing Clothes-the quickest, easiest and handsomest Washer on Earth. It will save its whole cost in a few months, in Wear and Tear on clothes alone. And then it will save 50 cents to 75 cents a week over that in Washerwoman's wages. If you keep the machine, after a month's trial, I'll let you pay for it out of what it saves you. If it saves you 60 cents a week, send me 50 cents a week till paid for. I'll take that cheerfully, and I'll wait for my money until the machine itself earns the balance.



Now, don't be suspicious. I'm making you a simple, straightforward offer. You don't risk anything, anyhow. I'm willing to do all the risking myself! Drop me a line to-day and let me send you a book about the "1900 Gravity" Washer that washes clothes in 6 minutes. Or I'll send the machine on to you, if you say so, and take all the risk myself. Address me this way:—A: W. V. Bach, Manager "1900" Washer Company, 357 Yonge street, Toronto, Ont. Don't delay. Write me a postcard now, while you think

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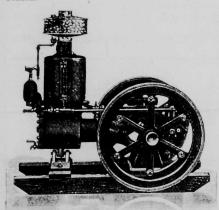
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ONTARIO WIND ENGINE & PUMP CO., Ltd. WINNIPEG, MAN.

were capable of assuming in the war old religion of the nation.

with England.

with England.

"These are great and welcome pledges you bring us, Abbe," said the Governor; "they are proofs at once of your ability and of your zealous labors for the King. A great public duty has been ably discharged by you and your fellow-missionaries, whose loyalty and devotion to France it shall be my pleasure to lay before His Majesty. The Star of Hope glitters in the weatern horizon, to encourage us under the clouds of the eastern. challenge La Pompadour's supremacy: Even the loss of Acadia, should it be fair and fragile Lange Vaubernier final, will be compensated by the acthe Illinois. The Abbe Piquet and favorite.

bis fellow-missionaries have won the Little did the laughing Vaubernier territory.

Government of New France to act her shrieks, heard above the howlings quire possession of those vast ter- of the mob of the Revolution: "Give ritories covered with forests old as me life! life! for my repentance! time, and in soil rich and fertile as Life! to devote it to the Republic! Provence and Normandy.

"I have served the King all my wealth to the nation!" And life," continued the Governor, "and death, not life, was given in answer served him with honor and even distinction—permit me to say this. These dark days were yet in the

denly,—I think it will: the late vic- was perplexed in no small degree how tory at Lawfelt has stricken the to act. allies under the Duke of Cumberland a Moreover, be it confessed that, alblow hard as Fontenoy. Rumors though a bad man and a corrupt of renewed negotiations for peace are statesman, Bigot was a Frenchman, flying thick through Europe. God proud of the national success and speed the peacemakers, and bless glory. While robbing her treasures

must not withdraw from one foot of French territory. Quebec must be Walled, and made safe against all attack by land or water. I therefore will join the Council in a respectful remonstrance to the Count de Maurepas, against the inopportune despatches just received from His Majesty. I trust the Royal Intendant will favor the Council now the Council. His raised hand with his opinion on this important sparkled with gems, the gifts of matter, and I shall be happy to have the co-operation of His Excellency in measures of such vital consequence to the Governor, with reference to our the Governor sat down, after

The Intendant hated the mention of remonstrate, as councillors of

thrown off the people's neck, trade on.

sually a bird, beast, or fish,-of the supplied the lack of political courage, The Council looked at the wampums and men opposed the Court and its with interest interest, well knowing policy under pretence of defending the the important part these Indians rights of the Gallican Church and the

Bigot knew he was safe so long as

final, will be compensated by the ac- had already attracted the King's eye, quisition of the boundless fertile ter- and the courtiers versed in his ways itories of the Belle Riviere and of read the incipient signs of a future

hearts of the native tribes of the forsee the day when, as Madame du West. There is hope now, at last, Barry, she would reign as Dame du of uniting New France with Louis- Palais, after the death of La Pompaiana in one unbroken chain of French dour. Still less could she imagine that in her old age, in the next reign, "It has been my ambition, since she would be dragged to the guillo-His Majesty honored me with the tine, filling the streets of Paris with Government of New France to ac- her shricks, heard above the howlings

tinction,—permit me to say this These dark days were yet in the much of myself." much of myself."

He spoke in a frank, manly way, giddy Vaubernier was at this time for vanity prompted no part of his speech. "Many great services have I rendered my country, but I feel that mind of Bigot with anxiety: the fall the greatest service I could yet do of La Pompadour would entail swift Old France or New would be the planting of ten thousand sturdy peaking in the which had caused La Pompadour sudvalley of the far West, to make its denly to declare for peace in order to forests youal with the speech of our watch the King more surely in his forests vocal with the speech of our watch the King more surely in his palace and the name of Vaubernier 'This present war may end sud- was equally odious to Bigot, and he

speed the peacemakers, and bless glory. While robbing her treasures them, I say! With peace comes opportunity. Then, if ever, if France sword in the other to risk life and be true to herself and to her heritage all in her defence. Bigot was bittering the New World, she will people the ly opposed to English supremacy in valley of the Ohio and secure forever her supremacy in America!

"But our forse far and near must him to the quick, as a triumph of be preserved in the meantime. We the national enemy; and in those final must not withdraw from one foot of days of New France, after the fall of must not withdraw from one foot of days of New France, after the fall of

The Governor sat down, after the Governor, with reference to our courteously motioning the Intendant fortifications and the maintenance of to rise and address the Council. our frontiers. It is our duty to our frontiers. It is our duty peace. His interests, and the inter- King in the Colony, against the tenor ests of his associates of the Grand of the despatches of the Count de Company, were all involved in the Maurepas. The city of Quebec, prolongation of the war. Company, were all involved in the Maurepas. The city of Quebec, prolongation of the war.

War enabled the Grand Company to to an army of men in the field, and monopolize the trade and military the security and defence of the whole expenditure of New France. The Colony depends upon its walls. There enormous fortunes its members made, can be but one intelligent opinion in and spent with such reckless protection of that point, and that digality, would by peace be dried up opinion should be laid before His in their source; the yoke would be Majesty before this despatch be acted thrown off the people's neck, trade on.

would again free.

Bigot was far-sighted enough to see upon us just now. The loss of the that clamors would be raised and fleet of the Marquis de la Jonquiere listened to in the leisure of peace. has greatly interrupted our communi-Prosecutions for illegal exactions cations with France, and Canada is might follow, and all the support of left much to its own resources. But his friends at Court might not be able to save him and his associates greater the glory of our defence! From ruin—perhaps punishment.

And I feel a lively confidence,"—
The parliaments of Paris, Rouen, Bigot glanced proudly round the table and Brittany still retained a shadow at the brave, animated faces that of independance. It was only a turned towards him,—"I feel a lively shadow, but the fury of Jansenism confidence that in the skill, devotion. "The pressure of the war is great

and gallantry of the around this council-tabl able to repel all our bear the royal flag to in North America.

This timely flattery upon the susceptible officers present, who approval by vigorous t

table, and cries of

Chevalier Intendant! "I thank, heartily, Abbe Piquet," continue glorious success in co warlike savages of the to fast friends of the Royal Intendant I ple all my help in the est his proposed fort and I Presentation, for the

viding the power of th "That is right wel Devil said it!" remai St. Luc, to the Acadia him. There is bell-r and he rings well if pi Pity so clever a fello knave!"

"Fine words butte

Chevalier La Corne, Acadian, whom no esoften. "Bigot sold soften. This was a common opinion in Acadia.

"Bigot butters his well, Colonel," replied Luc; "but I did not have gone against the the first time he Versailles! There thing in the wind! somewhere, or another case! But hark, I again!"

The Intendant, some papers, entered i the resources of the Co ber of men capable of the munitions and mat the magazines, strength of each di Province. He m figures with the dexte dian juggler throwing the end brought out force in the Colony c of prolonging the war against all the powers

At the conclusion Bigot took his seat. favorable impress Council, and even his opponents admitted whole the Intendant an able administrato Frenchman.

Cadet and Varin chief warmly. both in private life a duct, they lacked neit nor courage. They p country-but were rea it against the national

Other officers follo sion.-men whose name familiar, or destined to our in New France,— Creleron de Bi Philibert, the Chevali the De Villiers, Le Pierre, and De Lery supported that view of taken by the Governor tendant. necessity of completing Quebec and of making stand at every point against the threatened case of the sudden pa peace by the negotiate Chapelle—as really ha terms of uti posside vital importance tha hold fast to every shr tory, both East and

Long and earnest we tions of the Council of ports of the comp from all points of the carefully studied. Pl defence and future cor cussed with reference and weakness of the accurate knowledge of designs of the English the disaffected remn wellian republicans in whose hatred to the weighed their loyalty up a traitorous corres governors of New Fra

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political courage, ie Court and its of defending the n Church and the ation.

; safe so long as ipadour governed kingdom. But pricious and unhe had changed his policy with nd might change in of Bigot and La Pompahour. the Fleur-de-Lis alarm him. up at Court to our's supremacy: ange Vaubernier the King's eye, rsed in his ways

hing Vaubernier as Madame du gn as Dame du h of La Pompauld she imagine n the next reign, d to the guillos of Paris with ve the howlings volution: "Give my repentance the Republic! nder of all my tion!" And given in answer eadings.

gns of a future

ere yet in the however. The s at this time heart of the edure filled the nxiety: the fall uld entail swift associates. He gues of this girl Pompadour sudeace in order to surely in his of Vaubernier Bigot, and he nall degree how

fessed that, aland a corrupt a Frenchman success and her treasures ready with his risk life and got was bittersupremacy in loss of Louis-is fault, stung a triumph of d in those final ifter the fall of the last man to hers counselled consent to the the English.

ouncil of War. ond to the ap-He glanced spectfully, over raised hand the gifts of of the King. incil of War!" with all my His Excellency ference to our maintenance of our duty to cillors of the ainst the tenor the Count de of Quebec, be equivalent the field, and e of the whole s walls. There

war is great 'he loss of the la Jonquiere nd Canada is esources. But our defence ! ed faces that I feel a lively kill, devotion,

ent opinion in

oint, and that

id before His

patch be acted

and gallantry of the officers 1 see around this council-table, we shall be able to repel all our enemies, and bear the royal flag to fresh triumphs in North America."
This timely flattery was not lost

April 28, 1909

upon the susceptible minds of the officers present, who testified their approval by vigorous tapping on the table, and cries of "Well said, Chevalier Intendant!"

"I thank, heartily, the venerable Abbe Piquet," continued he, "for his glorious success in converting the warlike savages of the West from foes to fast friends of the King; and as Royal Intendant I pledge the Abbe all my help in the establishment of his proposed fort and mission at La Presentation, for the purpose of dividing the power of the Iroquois."

"That is right well said, if the Devil said it!" remarked La Corne

St. Luc, to the Acadian sitting next him. "There is bell-metal in Bigot, and he rings well if properly struck. Pity so clever a fellow should be a

"Fine words butter no parsnips, Chevalier La Corne," replied the Acadian, whom no eloquence could soften. "Bigot sold Louisbourg!" This was a common but erroneous opinion in Acadia.

"Bigot butters his own parsnips well, Colonel," replied La Corne St. Luc; "but I did not think he would have gone against the despatches! It is the first time he ever opposed Versailles! There must be some-thing in the wind! A screw loose somewhere, or another woman in the case! But hark, he is going on again!"

The Intendant, after examining some papers, entered into a detail of the resources of the Colony, the number of men capable of bearing arms, the munitions and material of war in the magazines, and the relative strength of each district of the Province. He manipulated his figures with the dexterity of an Indian juggler throwing balls; and at the end brought out a totality of force in the Colony capable unaided of prolonging the war for two years. against all the powers of the English

At the conclusion of this speech Bigot took his seat. He had made a favorable impression upon the Council, and even his most strenuous opponents admitted that on the whole the Intendant had spoken like an able administrator and a true Frenchman.

Cadet and Varin supported their chief warmly. Bad as they were, both in private life and public conduct, they lacked neither shrewdness nor courage. They plundered their country—but were ready to fight for it against the national enemy.

Other officers followed in succession,—men whose names were already familiar, or destined to become glori-our in New France,—La Corne, St. Luc, Creleron de Bienville, Colonel Philibert, the Chevalier de Beaujeu, Villiers, Le Gardeur de St. Pierre, and De Lery. One and all supported that view of the despatches taken by the Governor and the In-tendant. All agreed upon the necessity of completing the walls of Quebec and of making a determined stand at every point of the frontier against the threatened invasion. In case of the sudden patching up of a peace by the negotiators at Aix La Chapelle—as really happened—on the terms of uti possidetis, it was of vital importance that New France hold fast to every shred of her territory, both East and West.

Long and earnest were the deliberations of the Council of War. The reports of the commanding officers from all points of the frontier were arefully studied. Plans of present defence and future conquest were discussed with reference to the strength and weakness of the Colony, and an accurate knowledge of the forces and designs of the English obtained from the disaffected remnant of Cromwellian republicans in New England, whose hatred to the Crown ever outweighed their loyalty, and who kept up a traitorous correspondence, for purposes of their own, with the governors of New France.

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Sales season 1891 when first introduced 14 pounds, now 1352 pounds. The best of all field carrots and invaluable for horses. This grand half long Carrot is of large size, solid, productive, of finest quality, a splendid keeper, and has the advantage of being much more easily harvested than the old long varieties. one-fourth pound, 17 cents; one-half pound, 33 cents; one pound, 55 cents. Postpaid.

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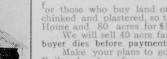
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We will sell 40 acre farms for \$10 down and \$10 a month—no interest, no taxes, and if We will sell 40 acre farms for \$10 down and \$10 a month—no interest, no taxes, and if buyer dies before payments are completed, we give the farm free to his family.

Make your plans to go to Eagle River, Vilas County, on the Chicago & Northwestern Railroad and see for yourself what we have and what we are doing there. Our representatives will meet you and take you right out to any piece of land you want to see and we will pay car fare from any point within 500 miles, if you buy land.

Vilas County, Wisconsin, has been proven good land for farming, dairying and stock raising. Pertile soil, invigorating climate, adequate drainage, active ready markets, good roads, near to railroad, schools and churches.

The price of this land ranges from \$8 to \$15 an acre.

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VALUABLE Bigot and his friends declined to sup JEWELRY with the Governor: they took a po-REE lite leave, and rode away from Chateau to the Palace of the Intendant, where a more gorgeous and congenial company awaited BOYS and GIRLS- more congenial company awaited them. of the above illustrated of Jewelry—Lady's Gold set with 8 flashy brilliants, tendant's table, and as the irritating

The lamps were lit and burned far

The most part of the officers

into the night when the Council broke

partook of a cheerful refreshment

with the Governor before they retired

LADY'S OR
MAN'S WATCH

Given free for selling our Vegotable and Flower Seeds.
Do not miss this chance. Watches, both flower and vegetable sell in fee. (small) and 10c. startly are the greatest Remedy known for Indigestion. Catarnt, weak or weak or for Indigestion. Catarnt, weak or for Indigestion. Catarnt, we cil of War!

"Council of War!" replied Cadet, setting his goblet down with a bang upon the polished table, after draining it to the bottom. "I would like to go through that mob again and I would pull an oar in the galleys of Marseilles rather than be questioned with that air of authority by a botanizing quack like La Galissoniere! Such villainous ques-tions as he asked me about the state of the royal magazines! La Galissoniere had more the air of a judge cross-examining a culprit than of a Governor asking information of a king's officer!"

"True, Cadet!" replied Varin, who was always a flatterer, and who at last saved his ill-gotten wealth by the surrender of his wife as a love-gift to the Duc de Choiseul. "We all have our own injuries to bear. The Intendant was just showing us the spot of dirt cast upon him by the mob; and I ask what satisfaction he has asked in the Council for the insult."

(To be continued.)

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WANTED—Stockmen and others to get their Printing done by The Farmer's Advocate Mail Order Job Printing Department. Prices Quoted. Sample sent on application. Address Mail Order Dept. The Farmer's Advocate Winning.

REGISTERED HOLSTEIN HEIFERS and bull for sale, heavy milking strains, prices right. John Gemmill, Pilot Mound, Man.

FARMERS write me for prices on Fence Posts.
Direct from the bush and get the best. J. H.
Johnson, Malakwa, B. C.

SCOTCH TERRIERS and white haired fox terriers \$8.00 up. Enclose stamps for reply Bradley-Dyne, Sidney, B. C.

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Young pigs ready end of May. Six dollars each
can supply pairs not akin, also White Wyan
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collie PUPS, sable and white, from registered stock, from \$6.00 up. A finely-bred bitch, 3 years old, \$15.00. Gustav Hesse, Bienfait, Sael.

CANARIES FOR SALE—All kinds of birds. The Canadian Bird Co., 178 Vaughan street, Win-

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Cash with order. No advertisement taken less than fifty cents.

BUFF ROCKS—Blue Andalusians, Black Langshans, Brown Leghorns and Indian Runner Ducks. Eggs 10 cents each. Bradley Dyne, Sidney, B. C.

R. P. EDWARDS, South Salt Springs, B. C. Eggs for hatching from the following breeds: R. C. R. Island Reds, Blue Andalusians, Black Minorcas, Buff Rocks, Indian Runner Ducks, at \$1.50 per setting. Stock for sale.

LITTLECOTE POULTRY YARDS—Pure bred Barred P. R. eggs. Warranted to hatch a good percentage of strong chicks. \$1.50 for fifteen gs. Incubator cap, special rates. Few ckerels left. Mrs. M. Vialoux, St. Charles

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R. M. WEST, Glenboro, Manitoba, breeder of t finest strain of Mammoth Blue Barred P mouth Rocks in Canada. Bred for exhibitic utility and laying eggs. During the past ye my birds won 33 prizes at Winnipeg, Porta my birds won 33 prizes at winingen. The Provincial, Regina and Glenboro. To proof of quality. Before placing your for eggs get my free illustrated circular will show you the kind of Rocks I kee

BUFF ORPINGTON EGGS-For large good colored birds with he per 15; \$8.00 per hundred from show birds, \$5.00 per 15, mi placed. Won 9 regular prizes Manitoba show at Portage la ruary. W. J. Lumsden, Meador

WHITE WYANDOTTES-Duston Str winners wherever shown. Cockerels Eggs \$2.00 per 15, Box 1063 Regins Rothwell.

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EGGS FOR SETTING—From pure-bred S. C. White Leghorns and Barred Rocks; have some fine pens of winter layers; city address C. H. Baird, 265 Portage Ave., Winnipeg.

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SINGLE COMB—White Leghorns. two pens (not related) large birds winter layers, \$2,00 per setting. layers, \$2.00 per setting. Th A. C. McLeeman, Crystal City.

C. W. ROBBINS—Breeder. Laying strain Buff Orpingtons. Eggs, \$2.00—15. Chilliwack

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BERKSHIRES—Gold Medal Herd, Neepawa, Manitoba, Address J. A. McGill. 24-4

HOLSTEINS—A. S. Blackwood, De Winton, Alberta. Stock for sale.

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

Questions & Answers

LAME MARE

ing, jogging slowly or going quite fast she goes sound, but when going at a smart jog she goes slightly lame, cases, is followed by a fatal case of

without a personal examination. would advise you to show her to your veterinarian. I am of the opinion she is not lame, but has acquired the habit of hitching when going at a How much material is required per certain gait. With very few exceps quare yard for a gravel roof, and tions a lame horse will show more how is it put on? R. J. McG. marked symptoms when jogging slowly with a free head than at any other Even if this mare is really lame, the symptoms are so peculiar that it is doubtful if a veterinarian would be able to diagnose.

CEREBRO-SPINAL MENINGITIS

Eight-months-old colt, fed on first-

the quality of the food and water and a thick coat of pitch flowed on. given to the colt, he must have caten as the durability of the roof depends some of the spoiled silage, as the disease is caused by either food or upon the paper, only the best should water of poor quality and containing be used, and the pitch should not be decayed vegetable or animal matter, so hot that it will destroy the life Treatment in well-marked cases is of the paper. Upon the finish coat seldom successful. It consists in administering a purgative to remove all unabsorbed matter from the stomach covering the whole, as a protection. and bowels, and following up with Every care should be taken regardiodide of potassium three times daily, ing the flashing of vulnerable parts For a colt of his age the dose would

UMBILICAL HERNIA

of a hen's egg just in front of the down, will gradually fill the gutters. sheath. It has been this way since

your veterinarian to operate. In will be necessary to cure this chronic some cases a truss composed of trouble. There is probably a fistula

leather or canvass, arranged around the body so as to keep the bowel pressed back into the abdominal cavity for five or six weeks will affect a cure. It is hard to keep the truss Mare has shown slight lameness in from shifting, but it can be done. one hind leg for a year. When walk- There is less danger of evil results from an operation, which, in some tetanus. There is no special truss Ans.—It is not possible to diagnose made for the purpose. A man must this trouble with reasonable certainty exercise his own ingenuity in apply-I ing one and keeping it in position.

GRAVEL ROOFING

How much material is required per

Ans.-The mode of construction a gravel roof will be to first cover the boarding, or, in case of a fire-proof roof, the smooth top of the concrete, with dry resin-sized felt, with a lap of two inches, tacked only often hay, bran, grain and silage, and enough to hold it in place. Over this good spring water, and turned out are laid three full thicknesses of every day in yard where spoiled sil- tarred felt, each sheet lapping twoage was thrown (but he was not seen thirds of its width over the preceding eating it), took cerebro-spinal meningitis, and died in three days. What one, the whole covered with a uniform caused the trouble? Is there any coat of pitch mopped on. Upon this cure, and how should he have been coating, two layers of tarred felt are treated?

A. B. D. tacked, each lapped about twenty-two Ans.-If you are correct as regards inches, and the whole mopped over, of pitch is spread immediately a coat of clean white sand, completely The grade of the gravel roof should not exceed 3-inch to a foot. If much steeper, the heavy coat of tar will Yearling colt has a rupture the size run in hot weather, and, settling

SORE NECK

I bought a horse three months ago. His neck is sore and itchy. When Ans.—This is an umbilical or navel the collar is taken off, the neck seems greasy. I have discovered that he has been this way for six years. G. S.

Ans.-It is probable an operation

Known as "be the best roofing



which will have to be and its walls dissected following, and if it doe cure, get your veterin ate: Take 2 ozs. form water, mix, and dress daily with it.

CEMENT FOR WALL A LIME, SAND AND PLASTE

1. How much sand, ment would it take t crete wall under a ho 24 ft., and how thick also, how deep should of wall be, and would bedded in the foundat one from center of cient?

2. How much cemen to build a cistern 6 x the cistern wall need t a finer proportion of it more water-proof? glad if you would tell tion in which the ing be mixed.

3. What is the pro of lime and sand and l for house walls and putty ?

Ans.-1. Concrete house should be al thick, and for 7 fee building 18 x 24 ft., tents of the wall wou cubic feet; allowing tractors count on, 12 material being needed feet of wall. In other 610 cubic feet of mate provided. For such ment to 10 of sand a is satisfactory. Prob to 3 of sand would (proportions must be re ing to the nature of th use of the cement doe quantity of sand and the former fills the in latter. Therefore, most 23 cubic yar gravel, and 61 cubic f barrels of cement. I require what may be the foundation to This depends of Care must the soil. vide a solid foundation it is not necessary to low the cellar floor, it may be wise to g For foundation 12 inc foot deep, you would feet of sand and gra cement at the propor about 2 barrels of ce

> 2. Three inches is ness for cistern wall part to sharp sand concrete cistern 6 feet diameter, you would cubic feet of sand and half of cement. In a you will need about sand and almost half ment for the botton should be plastered w

stone can be used to

keeping down the qua

cement and gravel.

llow Dell Farm, Sedge of Shorthorns and Berk

gary, Alta. Breeder of orkshire swine.

price from Marples ze Herd. Calves either lls. Good for both milk bles, Poplar Park Farm,

i Hereford cattle, finest ire pigs. J. E. Marples, eau, Man.

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oro, Assa.—Breeders of and Berkshire swine. 13-3

arranged around to keep the bowel the abdominal caweeks will affect a to keep the truss it can be done. ger of evil results 1, which, in some y a fatal case of no special truss se. A man must agenuity in apply-; it in position.

OOFING

al is required per gravel roof, and R. J. McG.

of construction a to first cover the se of a fire-proof p of the concrete, I felt, with a lap tacked only often place. Over this l thicknesses of leet lapping twoover the preceding ed with a uniform d on. Upon this of tarred felt are about twenty-two ole mopped over, pitch flowed on. f the roof depends y the best should tch should not be I destroy the life n the finish coat mmediately a coat sand, completely as a protection. be taken regardvulnerable parts. ravel roof should a foot. If much coat of tar will er, and, settling v fill the gutters.

VECK

nd itchy. When off, the neck seems iscovered that he for six years.

cure this chronic probably a fistula April 28, 1909

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TORONTO and WINNIPEC



1. How much sand, gravel and cement would it take to build a concrete wall under a house about 18 x 24 ft., and how thick should it be also, how deep should the foundation of wall be, and would it need a tile bedded in the foundation, or would one from center of cellar be suffi-

CEMENT FOR WALL AND CISTERN--

LIME, SAND AND HAIR IN

PLASTER

and its walls dissected out.

daily with it.

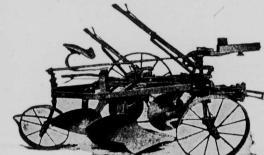
2. How much cement would it take to build a cistern 6 x 6 ft.? Would the cistern wall need to be faced with a finer proportion of cement to make it more water-proof? I would be glad if you would tell me the proportion in which the ingredients should be mixed.

3. What is the proper proportion of lime and sand and hair for plaster for house walls and material G. W. T.

Ans.-1. Concrete foundation house should be about 10 inches thick, and for 7 feet high under a building 18 x 24 ft., the cubic contents of the wall would be about 490 cubic feet; allowing for waste con-tractors count on, 125 cubic feet of material being needed for 100 cubic feet of wall. In other words, about 610 cubic feet of material should be provided. For such wall, 1 of cement to 10 of sand and sharp gravel is satisfactory. Probably 7 of gravel to 3 of sand would do, though the proportions must be regulated according to the nature of the gravel. The use of the cement does not lessen the quantity of sand and gravel, because the former fills the interspaces of the latter. Therefore, you require almost 23 cubic yards of sand and gravel, and 61 cubic feet, or over 15 barrels of cement. In addition, you require what may be taken to build foundation to the cellar floor This depends on the nature of the soil. Care must be taken to provide a solid foundation. In some soils it is not necessary to go one foot below the cellar floor, while in others it may be wise to go much deeper. For foundation 12 inches thick and a foot deep, you would need 84 cubic feet of sand and gravel, and with cement at the proportion of 1 to 12, about 2 barrels of cement. Broken stone can be used to advantage in keeping down the quantities, both of cement and gravel.

2. Three inches is sufficient thickness for cistern wall, with cement 1 part to sharp sand 5 parts. For concrete cistern 6 feet deep and 6 feet diameter, you would need about 30 cubic feet of sand and a barrel and a half of cement. In addition to this. you will need about 7 cubic feet of sand and almost half a barrel of ceent for the bottom. should be plastered with a mixture of

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cement to 2 sand, requiring about cubic feet of sand and 2 cubic feet or half a barrel of cement. s well to use a whitewash brush and paint the inside with sloppy mixture, made of 1 part cement to 1 part fine sand. You, therefore, would need 40 or 45 cubic feet of sand, and $2\frac{1}{2}$ or 3 barrels of cement.

Coarse plaster for house walls is made from 2 parts lime paste, 41 parts sand and one-third part hair. Fine dressing is made by slaking lime and mixing to a paste and then to a cream, and allowing it to stand until the water evaporates, leaving it ready for working. Hard finish for house plaster is composed of $1\frac{1}{2}$ to 2 parts of the latter to $\frac{1}{2}$ part plaster of Paris. These are many grades of putty. Soft putty is made from 10 lbs. whiting and 1 pound of white lead, mixed with the necessary quantity of boiled linseed oil, adding to it gill of high-grade olive oil.

BUTTER FROM CREAM

How many pounds of butter would there be in 105 lbs. of cream, testing 24% butter-fat? W. W. S.

Ans.-The amount of butter that may be made from a sample of cream will depend upon the thoroughness of the churning, amount of salt added. and the amount of moisture which the buttermaker succeeds in incorporating with the fat (though this should not exceed the legal limit of 16 per cent.). The rule of the dairy breed societies in calculating the amount of butter that may be made from a given amount of milk is to add one sixth to the quantity of fat in the milk. On this basis 105 lbs. of cream, testing 24% fat, should churn 29.4 pounds of butter, though it may milk. vary from this one way or the other.

SOOT IN CHIMNEYS

Can you tell me of a chemical used to put in stoves that will eat the soot out of chimneys?

Ans.-We know of no chemical that is used in the stove for the purpose of removing the soot from the chimney. I know it is the practice in some cases to use some very inflammable material which will cause the flame or partially burnt parts of carbon to get into the chimney and set fire to the soot there and thus burn it up. For instance, sometimes straw, large amounts of paper, or even fat, are placed in the stove, which, on burning, make sufficient heat to ignite the soot in the chimney. If the chimney is properly made, there should be no danger in burning the soot out, provided no particles are allowed to fall on the shingles of the roof. With a slate or iron roof, or at a time when the shingles are wet or covered with snow, there should be no danger following this plan of cleaning the chimney.

RINGBONE, TONGUE LOLLING

I have a pony, four years old. which has a ringbone. Veterinary blistered it, and the pony has been turned out nearly three months, but it is not sound yet. Is there any hope of making him go sound? Also,

K. B. D.

he leaves the stable.

Ans.-There is no certainty as to the cure of ringbone, as a cure de-pends upon the extent of the disease, and the structures involved. Firing and blistering, with a long rest may bring about a cure in favorable cases As a last resort "neuretomy," the operation of removing a piece of the nerve which supplies the foot with sensation, may be done; but, although this is an operation which usually yields good results, sometimes the outcome is disastrous.

lolling, wear a nose band tight enough

to keep the mouth closed and prevent the tongue being protruded, also have her teeth attended to.

Kindly give me a remedy, if there any, for a horse with weak ankles. When the horse is standing, he is apparently all right, but when he is walking, he will, at times, knuckle, so to speak, with his hind ankles. It does not appear to distress him particularly, but I am afraid that it might become chronic. I first noticed it on the horse last fall after he had been changed from doing comparatively nothing to hard breaking.

Ans.-Excepting cases where knuckling is hereditary, it is generally caused by a too long toe. is allowed to grow to an inordinate length, until the toe interferes with the proper action of the fetlock joint The excessive length of toe acts as lever when weight is put on the limb, which forces backward the pas tern bone (os suffraginis), and this allows the long bone (cannon) to slide forward, thus creating a partial dislocation of the joint. The remedy is: keep the toe well lowered down and shortened, and raise the heel of the shoe. Never allow the toe grow long, but attend to the feet once every four weeks, no matter whether the horse is idle or working. If this does not afford the desired relief, the fetlock joints may be blistered, and the animal given a run at

MARE CEASES TO BREED

I have a mare, thirteen years old this spring. The last time she had a foal, which is two years ago, the afterbirth didn't come for ten hours after she had foaled. She didn't seem to be sick for all that, but it seems that I cannot get her in foal any more. Kindly let me know what is wrong with the mare, and can it be cured?

Ans.—It is very difficult to say what the cause of the trouble is with your mare without examination. But retention of the membrane at the last foaling would not, of itself, be the cause, there must be some other condition. For instance, injuries received during foaling, when force has been used in extracting the foa sometimes causing abrasions and la resulting inflammation may cause adhesions, and deformities, such as oc clusion of the opening from the va gina into the womb (os uteri), or the neck of the womb may be turned to one side. In either of these conditions it would be impossible to get the mare with foal until the abnor-

HAY IN A STACK

A agrees to stack hay for B for A agrees to stack hay for B for 75c. per ton, each ton to measure 7½ feet square. Stack No. 1 is 108 feet long, 15 feet wide, 24½ feet overthrow. Stack No. 2 is 38 feet long, 15 feet wide, 27 feet overthrow. Stack No. 3 is 96 feet long, 14 feet wide, 26½ feet overthrow. How

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Ans .- The quantity stack is estimated b by assuming that 500 sent one ton. stack at the bottom overthrow, the result squared and multiplie of the stack, which, i ing this total by 500, cubic feet taken to re weight. Working the this method, stack Notons; No. 2, 8 tons (and No. 3, $18\frac{1}{2}$ tons.

much hay in each stact is $7\frac{1}{2}$ feet square, befeet is this?

April 28, 1909

Alta.



A train of 68 cars of

ton to be a block 71 you will be a little 1 timate of the number stacks. This would ly 422 cubic feet, 421.87 cubic feet, t night be said, however tor 500 is used more the number of tons of in stacks, than of th It is assumed certain amount of hav and some at the sides fit for sale, hence so ance is made for this this, though, where tl to the number of ton than the quantity of



A trainload of Settlers

in the stack, we wou take a smaller quant 422 cubic feet per to very far from correc fact, that this volu many sections as equ weight, that is you each way. Figuring stack No. 1 contains 94 tons, and No. 3,

GOSS

OAT-GROWING IN TI DISTRIC Editor "Farmer's A

As you are probabl

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for Catalogue

IFG. CO. Clarinda, Iowa April 28, 1909

A and B. Alta.

cubic feet taken to represent a ton in would otherwise have been. weight. Working the problem out by this method, stack No. 1 contains 21 tons; No. 2, 8 tons (approximately), fall, and levelled with a planker; then and No. 3, 181 tons. If you take a disced again in the spring. The seed

much hay in each stack? When a ton a very new district, my farm being} is $7\frac{1}{2}$ feet square, how many cubic 20 miles north-east of Vermilion, and, feet is this? I like all my neighbors, I am just getting started, having had my first Ans.—The quantity of hay in a threshing last fall. My land is high, stack is estimated by measurement sloping mostly to the north and east. by assuming that 500 cubic feet represent one ton. The width of the The soil is a sharp loam with a clay stack at the bottom is added to the subsoil. The breaking was done in overthrow, the result divided by four, August of the previous year, at least squared and multiplied by the length a month later than I would recomof the stack, which, in a rough way, a month later than I would recom-gives the cubical contents. By divid-ing this total by 500, the number of my crop was not as heavy as it



A train of 68 cars of settlers' goods that recently arrived in Winnipeg from St. Paul.

timate of the number of tons in the with a disc drill on the 5th of May certain amount of hay at the bottom, was not affected by frost as early as and some at the sides and top, is unfit for sale, hence some little allow- The points which I would consider

ton to be a block $7\frac{1}{2}$ feet each way, was a good, clean sample of Abundyou will be a little high in your es- ance oats, sowed moderately deep stacks. This would be approximate- Four bushels to the acre was the ly 422 cubic feet, or to be exact, amount used. These oats were 421.87 cubic feet, to the ton. It harvested the 1st week of September, night be said, however, that the fac- and were well ripened without any tor 500 is used more in determining visible effects of frost. There had the number of tons of marketable hay been light frosts, which did damage in stacks, than of the actual quanti- in the vicinity, previous to the time ty. It is assumed always that a of cutting, but this land being high

ance is made for this. In a case like most important in this particular this, though, where the question is as case are: 1. Good, clean soil. 2. to the number of tons put up rather Early seeding on slope, preferably to than the quantity of marketable hay the north. This is perhaps more im-



A trainload of Settlers from the South, of the 70,000 Americans who are coming to the Canadian West this season.

in the stack, we would be inclined to portant in the new districts, which take a smaller quantity for the ton; are so liable to early frosts. 422 cubic feet per ton might not be Having grain well ripened before cut-very far from correct. We know, in ting, thereby securing good, plump, fact, that this volume is taken in well-matured grain of even color. many sections as equal to a ton in weight, that is your cube, $7\frac{1}{2}$ feet each way. Figuring on this basis, stack No. 1 contains 25 tons; No. 2, $9\frac{1}{4}$ tons, and No. 3, $22\frac{1}{2}$ tons.

GOSSIP

Editor "Farmer's Advocate!"

C. A. HODGINS.

THE INRUSH OF SETTLERS

Eash day now, train-loads of American settlers are crossing the boundary and spreading themselves over the Canadian prairies. OAT-GROWING IN THE VERMILION
DISTRICT
Editor "Farmer's Advocate":

The Canadian prairies. Immigration officials estimate that seventy thousand people from the United States will cross the forty-ninth this year and become permanent residents of one of the Provinces of the West. They are men of means, too, some of As you are probably aware, this is these immigrants from the South.

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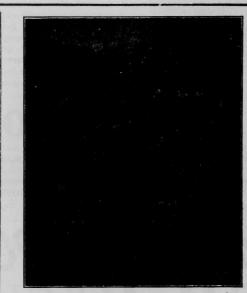


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My land is on the Arrow Lake in the heart of the Kootenay District. No irrigation necessary. Excellent climate and sport.

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It is a Tonic you want! Physicing lowers the system and makes it more susceptible to disease. The winter months have been

a great strain upon your vitality and unless you put the blood in good condition all manner of evils will overtake you. PSYCHINE is the Greatest of Tonics and should be taken by every one at this season of the year. PSYCHINE assists the gastric juices and ferments in their digestion of the food, cleanses the mucous membrane of the Stomach, and has an invigorating and beneficial effect on the muscles and nerves. For Catarrh of the Stomach, Ulceration or Weak Stomach, Dyspepsia, the use of PSYCHINE is strongly advisable.

PSYCHINE acting on the Stomach restores it to a healthy condition, then acts through the stomach upon all the vital organs, creates an appetite, bringing renewed vitality and strength to the entire system and enables it to throw off disease of every kind. It is the greatest healthgiver known to medical science.

, PS PRONDUNCED SI-KEER NE Send to Dr.T. A. SLOCUM, Limited, Toronto, for a F.ee Sample to-day. All druggists and stores sell PSYCHINE at 50c and \$1 per bottle.

Our Job Department

is at your service. Ask us to quote a price on your next stationery order and we will be pleased to submit an estimate. Write NOW.

THE FARMER'S ADVOCATE OF WINNIPEG, Ltd. Winnipeg, Maaltoba

April 28, 1909

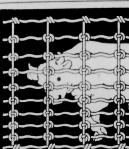
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The Fence That Sav One of the reasons why Woven Wire Fence is bett fences is because of the lock. It holds securely an aging the wire, yet there i elasticity to prevent snappi shocks, changes in temperany other cause. Stock through it—under it or over so many advantages in bt LESS Fence in preference we have not room in this to tell you of them.

Your name on a postal brown printed matter, con useful information in regard of fencing. Write for it

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Absolute (For Sheep

1/2 of the woollen clo obtained from Cooper d Cooper's Dip is use Edward's famous pri

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It is imported into A the Argentine free of d the sheep-owners knoon absolute necessity.

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By royal decree, ev Spain, growing Merino dip his sheep in Cooper's At the Royal Show, the breeds of sheep, winner used Cooper's Dilast year, enough of

Last year, enough of was used to dip 250,000,0 Mention this paper an many sheep you have, send copy of our book and How To Cure It, "fr

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WM. COOPER & N TORONTO.

All Soils Look Alike To

Champion Disc Drill

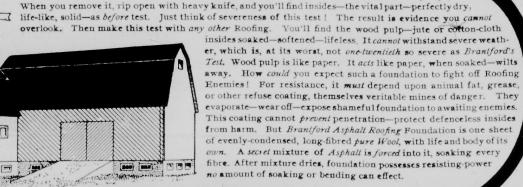
Take the "Champion" into a particularly "dirty" field, where vine roots, corn roots, weeds, tangled grasses or straw manure abound. If you've never before seen it work, you'll marvel at the way its sharp, carefully tempered steel DISCS either cut through or roll over everything that may lie in their way. They will not gather anything before them. You'll marvel at the way the high-grade, cutlery steel SCRAPERS (designed after years of experimenting) keep the discs scrupulously clean. Each hour you'll grow more enthusiastic over the manner in which the FORCE FEED MECHANISM produces its steady, even flow of seed—and never a seed even slightly bruised. The DUST PROOF BALL BEARINGS, on each disc—which require oiling but once a year—they'll interest you, too. And the high wheels, with low down grain box—you'll quickly see this means an EASY Machine to operate Perhaps you'd like to read about the "Champion" Disc and "Champion" Hoe Drills, so write for special drill catalogue H8

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with soil conditions in every part of Canada and a company whose policy is to give you the greatest value for your money. N. B.—If you buy from us you purchase from a company that is familiar

Make this 60-Day Test of Brantford Roofing-then Test Any Other Make Write us, or your dealer, for sample of Brantford Asphall Roofing. Place it in water for sixty days.



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rolled under pressure, is applied, becomes a solid mass of resistance. It is weather, acid, alkali, frost, water-proof. Cannot freeze, crack or melt. Wonderfully pliable. Brantford has but one cost-first. Write for free Book and Samples. BRANTFORD ROOFING CO., Ltd., BRANTFORD, CAN.

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Brantford Rubber Roofing, No. 1, 2, 3 Brantford Crystal Roofing, one grade only, (heavy).

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THE MOST IMPORTANT FARM MACHINE

THE MANURE SPREADER

Are you Saving Money, or are you Losing it by being without One?

You believe that money spent for a mowing machine or a binder is well invested. Still you use these machines only a few days in the year.

You use the hay rake, because it saves you time and These are valuable machines. They are now counted

indispensable by most farmers, even though they stand unused over eleven months in the year. But a manure spreader is a still more valuable machine Its purpose is to keep up the fertility of the soil. It is the machine you use all seasons, and the one on which the real usefulness of all your other farm machines depends.

If you have not already done so, you should consider now the advisability of having an I. H. C. manure spreader

You will have choice of two different spreaders in the I. H. C. line—the Cloverleaf, endless apron spreader, and the Corn King, return apron spreader. Each of these spreaders handles the manure in all conditions perfectly and will give you long satisfactory service.

These spreaders are not ordinary. Their frames are made of air dried wood stock. They have serviceable, tractive power producing wheels, beaters that are unsurpassed for tearing the coarsest manure into the smallest pieces and applying it uniformly, aprons that deliver the manure to the heater with the least possible friction and manure to the beater with the least possible friction and

in a uniform manner. Any one of these machines will, if given proper care, last a lifetime.

The labor of spreading manure is greatly lessened by sing one of these I. H. C. spreaders. Not only is the labor lessened, but it is changed into agreeable work.

But the strongest reason for using an I. H. C. spreader is the increased value you get out of the manure. The best authorities agree that manure spread by an I. H. C. spreader has at least double the value of manure spread

The I. H. C. spreaders pulverize and make the manure fine, and spread it evenly over the ground just as thick or as thin as may be required. The manure is placed upon the ground in a condition that is at once available for plant life. All is washed by the first shower into the soil-none is wasted.

The good effects upon the crop are immediate and the permanent benefit to the land is greater than when the manure is spread by hand. There is no question but that land manured by an I. H. C. manure spreader will give an increased yield of from two to ten bushels per acre over land where manure is spread by hand.

Consider the labor saved, the more agreeable work, the better crops, the more fertile condition of the land-is not an I. H. C. manure spreader the machine you should have?

Are you not losing money instead of saving money by

Call on the International local agent and investigate one of these machines. He will supply you with catalogs and particulars, or if you prefer write nearest branch house.

CANADIAN BRANCHES: Brandon, Calgary, Edmonton, Hamilton, London, Montreal, Ottawa, Regina, Saskatoon, St. John, Winnipeg.



He had just sold his farm near Des-Moines, Iowa, and carrying the long green right with him in his pants pockets to invest in farming land Thousands of these settlers here. have five thousand dollars a piece or more, and a conservative estimate of the amount of actual cash coming over here in settlers' pockets this vear is \$70,000,000. That is only a thousand dollars each for the seventy thousand reported to be coming. A very large proportion of the settlers coming in from the south come unaccompanied by their families. Many of them are family men, but they are here alone to look over the land, invest their capital, and get things in shape, for bringing their

The other day, at Winnipeg, a burly

Iowan asked the immigration officials to take charge of his purse while he was taking a run around town. There were twenty-five thousand dollars in

greenbacks in the wallet, and the rather startled official persuaded the man to deposit it in one of the banks.

wives and children later. They are pretty shrewd fellows as a rule The illustrations show a train-load of settlers, and another train-load of their effects that arrived in Winnipeg recently, from St. Paul, Minnesota. These men are bound for Saskatche wan, to settle on the land of the Luse Land Company. It took sixty-eight cars to carry the goods of this

SWAMP FEVER AND ITS TREAT MENT

party, and more still are to follow

Swamp fever or infectious anemia of horses has caused considerable loss in the last three years in the southeastern and central portions of Kansas, and is still present in some sectons. It seems to be most prevalent during wet seasons, in low-lying bady drained sections, and during the summer months.

Symptoms: - About the first symptoms noticed are a general weakness of the animal, it tires very easily and is not able to do any work. The oss of flesh is apparent in spite of the voracious apptite which the animal has at times. The appetite usually remains good until geath, but the feed seems to do the animal no good. The temerature is very irregular. Some days it runs quite nigh, at times to 107 degrees; again t is below normal. It frequently emains high towards the end of the disease. An animal may have several attacks of the trouble, but each succeeding attack seems to be more

The blood becomes thin and the circulation impaired, and frequently there appears a swelling under the chest or abdomen or an enlargement n one or more legs.

Diagnosis:— It is quite easy recognize the trouble, especially in the advanced stages. The slow progress at the beginning, remittant fever, progressive emancipation and enemia, unimpaired or ravenous appetite, staggering gait and excessive urination are usually all present to a greater or less degree.

Prognosis:—Is: very unfavorable, eath occuring in from 60 to 80 per cent of the cases. Recovery takes place only when treatment is begun early and when the disease is not too

Treatment:—Is not satisfactory. Absolute rest until fully recovered is one of the primary requisites, and purgatives are to be avoided. the fever the B. A. I. recommends an antipyretic of quinine 40 grains, acetanilid 2 drams, and powdered nux vomica 30 grains, four times daily. Cold water sponge baths and frequent copious rectal injections of cold water also aid in reducing the fever. After the fever subsides the following is recommended

	Dra	ms
Powdered Powdered	acid	28 88 110

These should be well mixed and one-half table-spoonful given at each feed to the affected animal.

"As in the case of all other in-

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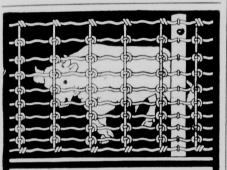
A BOG SPAVIN, PUFF or THOROUGHPIN, but ABSORBINE will clean them off permanently, and you work the horse same time. Does not blister or remove the hair. Will tell you more if you write. \$2.00 per bottle at d'lers or deliv'd. Book 4Dfree. bottle at d'Iers or deliv'd. Book aDfree.
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One of the reasons why PEERLESS Woven Wire Fence is better than other fences is because of the PEERLESS lock. It holds securely and without damaging the wire, yet there is just enough elasticity to prevent snapping from sudden shocks, changes in temperature or from any other cause. Stock cannot get through it-under it or over it. There are so many advantages in buying PEER-LESS Fence in preference to others that we have not room in this advertisement to tell you of them.

Your name on a postal brings you our new printed matter, containing much useful information in regard information in regard neing. Write for it

today. The Banwell Hoxie
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Absolute Cure For Sheep Scab

1/2 of the woollen cloths worn in the world are made from wool obtained from Cooper dipped sheep. Cooper's Dip is used on King Edward's famous prize-winning Southdowns

Bdward's famous prize-winning Southdowns.

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Cooper's Dip is the dip officially recognized by the United States Government.

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Last year, enough of Cooper's Dip was used to dip 250,000,000 sheep.

Mention this paper and tell us how many sheep you have, and we will send copy of our book "Sheep Scab and How To Cure It, "free of charge.

Cooper's Dip

For sale by druggists and dealers generally or direct from WM. COOPER & NEPHEWS

TORONTO.

You Can't Cut Out | fectious diseases, the healthy should | thorough disinfection of the infected stable, stalls, litter and stable utensils should be carried out in order to prevent the recurrence of the disease. As a disinfectant the compound solution of cresol, carbolic acid— or chlorid of lime may be used by mixing six ounces of any one of these chemicals with one gallon of water. One of the approved coal-tar sheepdips might also be used to advantage in a 5 per cent solution (six ounces of dip to one gallon of water). The disinfectant solution should be applied liberally to all parts of the stable and sufficient lime may be added to the solution to make the disinfectant area conspicuous.

Precautions:-From the fact that the disease is more prevalent during wet seasons, it is always best to guard against allowing the animals to graze upon swampy lands or to drink from ponds of stagnant water. The spread of the disease has been traced along creeks from one farm to another, which would suggest avoiding these places also. The draining of low, swampy lands is especially recommended.

F. S. Schoenleber, V. S., Kansas.

THE BRONCHO READY FOR THE TRACK

The Broncho, the Winnipeg-owned pacing mare, with a record of 2.003 for the mile, is in the south at present in the hands of a competent trainer, and is expected to break some American pacing records during the coming summer. The Broncho was the sensummer. The Broncho was the sen-sation of 1906. She sprang from obscurity to be the wonder of the season on the American track. Then she developed lameness. She was retired and rested up until the following spring. Again, when she went into training, the lameness returned, and her owners had her bred. Last September, after she was through nursing the foal, she was sent south, and has since been in training for the track this season. The lameness is said to have entirey disappeared, and those who know The Broncho best, and have seen her at work, expect to see things doing in the pacing records before the sea-son's close. The Broncho has amaz-ing speed. Her mark was made as a green horse practically. Properly trained and sent over the stretch by an experienced driver there is no telling what may happen.

The C. P. R. report for 1908 gives the following shipments of live-stock from Alberta in that year: Cattle, 87,909; horses, 11,416; hogs, 48,173; sheep, 25,754; making a total of 5,969 carloads. There were shipped from Saskatchewan, 1,183 cattle, 2,220 horses, 445 hogs, and 14,999 sheep, making a total of 810 cars with the total valuation of stock from both Provinces as follows:
Horses, \$1,499,960; cattle, \$4,652,624; sheep, \$244,518; hogs, \$437,562.
The average price for horses was \$110; for cattle, \$47, showing an increase of \$6 over previous year; sheep, \$6; and hogs, \$9.

THE ORIGIN OF BRITISH HORNLESS CATTLE

Before the Royal Dublin Society recently Prof. James Wilson, M. A., B. Sc., read an interesting paper on the Scandinavian origin of the horn-less cattle of the British Isles. He stated in the course of his remarks that till the end of the eighteenth century there were small breeds of hornless cattle in isolated patches round the coasts of England and Scotland and also in Ireland. These breeds were all like each other in color, shape, and, of course, the want of horns. They were generally alike in milking qualities, and even in many small details, such as having short legs, sickle-shaped hocks, narrow chines, and long heads. The date of their arrival in Britain can be fixed by historical and antiquarian considerations as not later than 1066 and not before 850, dates which include, the period of the Norse invasions. Cattle of the same kind

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When you are offered a ready roofing which is coated with sand, mica, or peb-bles, you can make up your mind that can throw burning coals on a roof of you are paying roofing prices for the Ruberoid without danger of setting fire coating

For such coating does not help the underneath. roof. It is merely a "talking point" what it really is.

Such coating, in fact, is a detriment. For it washes off after a few rains, leaving a roughened surface on the roofing, and choking up gutters and drain pipes.

The reason why coated roofings are offered you is because there are 300 substitutes for the genuine Ruberoid, all looking much the same.

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Ruberoid roofing has never been coated with sand or similar "filler."

This gum is our exclusive product.
No other maker can
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which makes Ruberwhich makes Ruberoid heat proof, cold proof, snow proof, rain proof. Resist-ant to acids, gases and fumes.

It is this Ruberoid gum which makes either to the roofing, or to the timbers

It is this exclusive Ruberoid gum to make the roof seem different from which makes Ruberoid flexible enough to stand the strains of twisting and bending which every roof must bear.

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The first Ruberoid roofs ever laidseventeen years ago-are still flexible, still weatherproof, due to the life of this wonderful gum which is used in no roofing but Ruberoid.

Ruberoid roofing is suitable for any building-from a woodshed to a large factory or public building.

It also comes in attractive colors—Red, Green, Brown-for use on fine homes. But before deciding on any roofing, for any purpose, send for our free book,

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The secret of its wonderful proper- gives the advantages and the disadvanties lies in the Ruberoid gum which we tages of shingles, tin, tar, iron and ready roofings.

It is a gold mine of practical informa-

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The Standard Paint Company of Canada, Ltd., Montreal, Canada New York Hamburg London Paris



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For quick sale I am offering a few personally selected imported Clydesdale stallions. They were bought right and will be sold right. First in the lot is SCOTLAND'S MOTTO by Baron Glasserton. Then there are five other newly imported horses and one Canadian-bred.

These horses have been bought right, through my personal connection in Scotland and will be sold right. Call and see them or write for further

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Personally selected from the leading Scotch herds They are of such noted families as Broadhooks, Butterfly, Claret, Clara, Roan Lady and Jilt. I also have for sale four bull calves from Imp. dam, and a number of good young cows and heifers. Catalogue being prepared. Write for one. Prices as well as quality will please you. Farm, a mile from Burlington Junction station, G. T. R.

FRED. BARNETT, Manager

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Few young sows ready for breeding

Also one good boar two years old.

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Stock of both Sexes and all Ages for Sale.

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A large number of young pure bred Yorkshire hogs from prize winning stock. Ready to sh any time in May. Registered for \$7.00 eac Crated F. O. B. Napinka. This offer holds got till June 1st. We also have Shorthorns for sal

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Mail us \$7.00 and we will ship you a pig and pedigree. They are bred from prize-winning stock and we are going to have a lot of them. First lot weaned and ready to ship, 1st week in April. Don't miss it. Can ship C. P. R. or G. T. P. direct.

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are, or have been, found in other Horse Owners! Use places settled by Norsemen, as, for instance, Jersey, Normandy, North Holland, Orkney, Shetland and Ice-land. Cattle of the same type are still found in Northern Europe, from Norway to the North of Russia. all probability they are descended from the hornless cattle of the Scythians referred to by Herodotus, and they may be traced back either to Ancient Egypt or Asia. The modern hornless breads by crossing with hornless breeds, by crossing with other breeds, have lost nearly every character possessed by their ances tors, excepting their hornlessness The Jerseys, on the other hand, have retained their shapes, milking qualities, many of them have retained the color-a steely or slaty grey, some times called light dun-but they have accepted the gift of horns from some

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The most complete work of its SHORTHORNS

I am offering for sale 20 cows and heiters and a few ion of "Swine in America," fresh cows and heiters and a lew young bulls. My prices are right.

JOHN RAMSAY, PRIDDIS, ALTA

JOHN RAMSAY, PRIDDIS, ALTA

From the presses of the Orange-Judd Company, New York, and written by F. D. Coburn, Secretary of the Kansas Department of Agriculture. is a volume of 700 pages, well printed and rather more appropriately illus-Herd headed by the grand championship bull Alister, (Imp.) This herd won, during 1908, at Edmonton, Alta., Regina Provincial Central, Saskatchewan, Saskatoon and Prince Albert fairs 3 Grand Championships, 6 Championships, 32 firsts, sixteen seconds and twelve thirds. Several animals for sale, a number of prize winners in the lot, also Improved Yorkshire pigs and Barred Plymouth Rocks.

and rather more appropriately illustrated than the usual run of live-stock books. When we say it is appropriately illustrated, we mean that the hundred and thirty-odd engravings in the work have been selected with the idea of illustrating, properly, the matter in the book, not only the hundred and thirty-odd engrav-ings in the work have been selected ly, the matter in the book, not only are typical representatives of the 75, Box 13, - Saskatoon, Sask. various breeds of swine in America G.T.P., C.P. and C.N. Railways. shown, but, in addition, the numershown, but, in addition, the numer ous illustrations of hog houses, yards feeding methods, troughs, fodder plants, etc., etc., bring out more clearly than written descriptions, Spring Pigs, both sexes, for sale. however well those descriptions were executed, the ideas which the author desires to convey to his read-

As regards matter, it might be said that while this has been written largely from the viewpoint of United States conditions, there is in every chapter, except, perhaps, that one dealing with corn as a hog food, something instructive for Canadian hog raisers. This is true particular-ly of such chapters as those dealing with the breeding of swine, the selec tion of boar and sow, the weaning o pigs, pasturing and soiling, alfalfa for wheat, hog houses and pens castration, the most common diseases of swine, and others of like nature Take, for example, the chapter on a falfa as a swine food. T. D. Co burn, of Kansas, is recognized in th United States as the first authorit on alfalfa growing. He has brough to this work a vast amount of know edge, gained from experience and ob-servation in the growing and feeding of alfalfa in the leading alfalfa State in the Union. He wrote a book alfalfa some years ago that is the recognized authority still on this sub ject in America, and as we are in terested in this country in the ques alfalfa, rape, roots, pasture and forage crops generally, an authoritive treatise on the whole subject is par-

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Very often they think it "female disease." There trouble" than they think Women suffer from bas mess, nervousness, irrital ging down feeling in the le

and they do not have "fe Why, then, blame all "female disease"? Most of the so-called "1

are no more or less than "k and can be easily and c Doan's Kidney Pills.

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W. W. CORY, Minister of the Interior. blication of this adverPerfection in Ammunition

April 28, 1909

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DUPONT Smokeless POWDER

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Was Unable To Do Housework For Two Years

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Very often they think it is from so-called "female disease." There is less "female trouble" than they think.

Women suffer from backache, sleeplessmess, nervousness, irritability and a dragging down feeling in the loins. So do men, and they do not have "female trouble."

Why, then, blame all your trouble to "female disease"?

Most of the so-called "female disorders" are no more or less than "kidney disorders," and can be easily and quickly cured by

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Preparing for Grain Crops in Sask.

[Continued from page 622.]

SUMMER-FALLOW

"The true worth of properly prepared fallows has been clearly demonstrated in past years in every district of Saskatchewan.

'The work of preparing land for crop by fallowing is carried on in so many ways in different parts of the country, that perhaps a few words on some of the methods employed may be of use to at least some of the new

"It has been observed in some parts of Saskatchewan that the land to be fallowed is not, as a fule, touched until the weeds are full grown and in many cases, bearing fully matured seed. It is then

"By this method, which, no doubt, saves work at the time, the very object of a summer-fallow is defeated In the first place, moisture is not conserved, instead of using the summer-fallow as a means of eradicating weeds, a foundation is laid for years of labor and expense by the myriads of foul seeds turned under.

"The endless fields of yellow-flow red weeds generally Ball Mustard Neslia paniculata), testify to the in different work done in many districts, and, while no weed is more easily eradicated by a good system of fallows there is no weed that is more easily propagated or takes greater advantage of poor work on fallows or of fall or spring cultivation.

" As has been pointed out in my previous reports, early and thorough work on fallows is absolutely necessary to success, and I here repeat the methods and results of tests carried

n for some years past.
"First Method.—Plowed deep (6 to inches) before last of June; surface cultivated during the growing season, and just before or immediately after narvest, plowed 5 or 6 inches deep.

"Result .- Too much late growth if eason was at all wet; grain late in ipening, and a large crop of weeds if grain in any way injured by

"Second Method.—Plowed shallow (3 inches deep) before the last of June, surface cultivated during the growing season, and plowed shallow (3 or 4 inches deep) in the autumn.

Result.—Poor crop in a dry year; nedium crop in a wet year. ufficiently stirred to enable soil to tain the moisture.

Third method.—Plowed shallow (3 inches) before the last of June; surface cultivated during the growing season, and plowed deep (7 to 8

nches) in the autumn. "Result.—Soil too loose and does Crop light and not retain moisture.

weedy in a dry year. "Fourth Method.—Plowed deep (7

to 8 inches) before the last of June; surface cultivated during the growing

'Result.-Sufficient moisture conserved for a dry year, and not too weeds, as all the seeds near the ace have germinated and been killed. Surface soil apt to blow more readily than when either of the other methods is followed. For the past fourteen years, the best, safest and cleanest grain has been grown on fallow worked in this way, and the method is therefore, recommended.

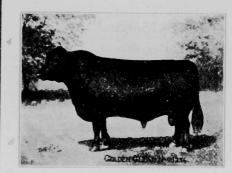
"In the first place, after the rains are over in June or early in July, as they usually are, no amount of work whether deep or shallow plowing, or

"Weeds, when allowed to attain their full growth, take from the soil all the moisture put there by the June rains, and plowing under weeds with their seeds ripe or nearly so, is adding a thousan -fold to the myriads already in the soil, and does

During the past two years the term "dry farming" has been applied to

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Most of the ailments of mankind are due to the failure or breaking down of the stomach, kidneys, liver, heart or digestive organs. When one of these organs fails to work properly, something happens; pain, disease, or various chronic ail-

ments result. The reason any organ breaks down or fails to work properly is because it lacks motive power-electricity. That is proven. Now to cure pain or disease you must find the cause and remove it. If it is caused

by a lack of electric energy, restore that force where it is needed, and pain and sickness will disappear. That's my method. That's Nature's method. Electricity builds up, supplies strength—nourishment to the Drugs destroy, tear down, because they contain poison instead of nourishment. Of course, they can force an organ to act, but that organ is weaker after the effect of the drug has passed off. Drugs stop pain temporarily by stupefying the nerves. but the pain comes back and you have to take the drug again. Every dose weakens the nerves.

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It does not shock or blister. The only sensation is a soothing glow. Electro-Vigor has proven a great It has cured people all

over the Dominion whom drugs had

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of the use of a soil-packer there is no ing of one and a half bushels of wheat change in the methods formerly employed, when the spring rains and frequency of oats. Sowing about two inches deep quent cultivation were depended upon has given the most satisfactory refor the packing of the soil.

Packers are, without doubt, most useful instruments on the farm and where from any cause, the soil is loose, they should be used. They are, however, averaging implements and particular turns, and the seed should be got in as early as is practicable.—Angus Mc-Kay, Supt. of Indian Head Farm, in Pamphlet No. 3, Ex. Farm Series. within the means of comparatively few of the new settlers. Fortunately, early plowing and frequent shallow cultivations and frequent shallow cultivations. however, expensive implements and within the means of comparatively

CULTIVATION OF STUBBLE.

When farmers summer-faflow onethird of their cultivated land each Atlantic to the Pacific route will alyear, as they should, one-half of each year's crop will be stubble. For wheat the best preparation of this land is to burn the stubble on the first warm, windy day in the spring, the harrow after seeding, the object coast-bound traffic must pass. to form a mulch to conserve whatever in conformity also with the cardinal moisture may be in the soil, until the commencement of the June rains.

The portion intended for oats or barley, should be plowed four or five perity depends the growth of traffic. inches deep and harrowed immediately; then seeded and harrowed as fine is really the crystalization of effects as possible. In case time will not from a cause that has been quietly permit of plowing, good returns may be expected from sowing the seed oats or barley on the burnt ground, somewhat rapidly from the Middle and disking it in; then harrowing States to the more Western States of

FALL PLOWING.

With regard to fall plowing it may short seasons and dry soil, very little much more costly. A natural relief work can possibly be done in the fall, presents itself in the Pacific route, but if the stubble-land is in a condi- which is cheaper even though longer, tion to plow and the stubble is not and even though its outlying end is oo long, that portion intended for still in the ports of Europe. oats and barley may then be plowed, f time permits.

As to the quality of seed to grow,

what was formerly known in the and the depth of sowing, long experience has shown that the best results West as "summer-fallowing." ence has shown that the best results are had in Saskatchewan by the sowturns, and the seed should be got in

low cultivation may be depended upon to produce almost equally satisfactors, results in the equally satisfactors, results in the equally satisfactors. factory results in the majority of miles off the ocean trip to Europe and personally benefiting every farmer in Western Canada, particularly in Albesta, where the rail haul to the sea is shortest. The official announceis shortest. ment states that the change from the

and will mean very much to Calgary and either cultivate shallow before because that town will of necessity be seeding or give one or two strokes of the gateway through which the new principle of any railway company to foster the prosperity of the people along its lines, because on their pros-

This westward extension of trade operating for some time. The center of wheat production has been shifting somewhat rapidly from the Middle the union and to the Canadian West, farther and farther from the Atlantic seaboard, and nearer to the Pacific. The haul by rail to the Atlantic has be said that, as a rule, on account of been growing longer and consequently

That route now passes around Cape Horn-a long loop down one ocean It is, however, a mistake to turn into another and away across to Engover soil in a lumpy or dry condi- land and the German coast. When tion, as nine times out of ten it will it is shortened by the cut across the emain in the same state until May isthmus into the Gulf of Mexico, it or June, with insufficient moisture to properly germinate the seed, and the of outflow for the wheat of this concrop will very likely be overtaken by tinent to the old and ever-increasing market on the farther side of the Atlantic. Eastern wheat, both American and Canadian, will continue to go east by rail and water, but western wheat will go out to the Pacific.

The dividing shed will probably be along the eastern boundary of Saskatchewan, in Canada, and in the States along the eastern boundary of California, Oregon and Washington. This means that the bulk of the North American wheat aron hears North American wheat crop, being produced in the western Canadian fields, will soon be moving west, instead of east, even while its ultimate destination remains in Europe.

As yet the trade westward in grain is largely in the form of flour and only a very small percentage of the inhabitants of eastern Asiatic countries have yet learned the taste of wheaten but it is inevitable that when flour has established itself as a food staple in Asia, it will be poured out on those shores in the form of grain, to be milled in or near the area of consumption. This will be particularly true of Alberta hard wheat, which touched the "dollar-three" mark in the market at Fort William last autumn. When the Oriental trade has been

squarely established, Alberta wheat, which grades one point harder than the No. 1 hard of the States, will bring its growers the highest bushel in the world, because Europe will continue to call for it, and the demand in both markets will strain the possibilities of supply.

A high official of one of the American trunk systems says that while San Francisco, Vancouver and Prince Rupert will all derive enormous benefit from the growth of the new trade, the balance will favor Vancouver and Prince Rupert, because of their being some hundreds of miles nearer to Yo-kohama.

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Mail this Pres Coupon To-Day to E. B. SAVAGE, Toronto, Can.

OUT OFF HERE E. B. Savage, International Stock Food Co., Toronto, Will you please mail me Fostage Paid one of the Beautiful Six Color Pictures of Dan Patch rigs, the World's Champion Harness Horse, described above, and also full particulars of your plan of Giving Away a \$3,000,000 Den Patch Stallion. I have filled out the coupon, giving the number of live stock I own, and my name and address.

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