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JUNE 5, 1907

LLOYD'S HANDY WAGON SEAT



WHEN GOING HOME FARMERS This is just what you want; it is lighter,

handier, easier riding, more durable and safer than any other seat on the market. If your Implement dealer or hardware merchant does not handle them send us \$3.50 and we will send you one, express prepaid to any express office in Manitoba, Saskatchewan or Alberta.

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AND HOME JOURNAL

WEEKLY AGRICULTURA

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The Number of Farmers Insured December 31st, 1906, over 15,248 Over 15,248 farmers Insured. The largest agricultural Fire Insurance Company west of Lake Superior. Agents wanted in unrepresented districts.

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VOL. XLII, NO. 767

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REGULATIONS ANY even numbered section of Dominion Lands in Manitoba, Saskatchewan and Alberta, excepting 8 and 26, not reserved, may be homesteaded by any person who is the sole head of a family, or any male over 18 years of age, to the extent of one-quarter section of 160 acres. more or less.

NORTH-WEST HOMESTEAD

acres, more or less.

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

situate.

The homesteader is required to perform the conditions connected therewith under one of the following plans:

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

cultivation of the land in each year for three years.

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

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

W. CORY,

Deputy of the Minister of the Interior.

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WE INVITE FARMERS to write us on any agricultural topic. We are always pleased to receive practical articles. For such as we consider valuable we will pay ten cents per inch printed matter. Contributions sent us must not be furnished other papers until after they have appeared in our columns. Rejected matter will be returned if accompanied by postage.

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WINNIPEG, MAN.

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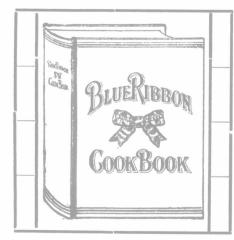
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The price puts it within the reach of all. A good cook book is a necessity —not a luxury.

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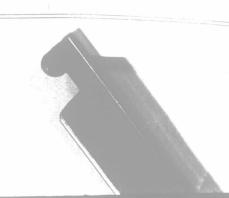
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TUHE 5, 1907

Ship your WHEAT, OATS, BARLEY, FLAX to us and obtain highest prices

G. B. MURPHY & CO., Winnipeg, Man.

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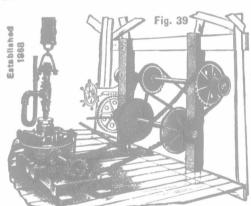
Will pay for itself the first season in removing wild mustard from your fields.

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Rotary, Coring or Rock Drilling, Any Diameter, Any Depth, for

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Guaranteed by the Liverpool, London and Globe Ins. Co., The largest fire company in the world.

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This valuable medical book tells in plain, simple language how Consumption can be cured in your own home. If you know of anyone suffering from Consumption, Catarrh, Bronchitis, Asthma or any throat or lung trouble, or are yourself afflicted, this book will help you to a cure. Even if you are in the advanced stage of the disease and feel there is no hope, this book will show you how others have cured themselves after all remedies they had tried failed, and they believed their case was hopeless.

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De Laval Separators

Are built on Honor, and back of their sterling worth stands an organization, which is the purchaser's guarantee of the continued usefulness of his machine.

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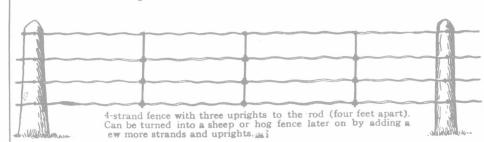
Write for our Bulletin No. 2 to-day. It tells all about organizing TELEPHONE companies and constructing the lines.

We are the only manufacturers in Canada who can supply you with anything or

The Northern Electric & Mfg. Co. Ltd.

Montreal.

"Anchor" Field Erected and "Majestic" Woven Wire Fences



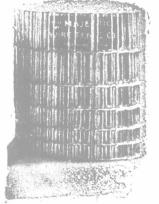
Our "Majestic" is a specially designed Hog and General Purpose Fence.

When writing for prices state for what kind of stock required.

Manufacturers of Farm and Lawn Fencing Gates, Coiled Spring Wire, Staples, Wrought Iron Fences, Gates,

We do not sell everything from the proverbial Needle to the Anchor, but fences to turn everything from a Buffalo to a little Pig.

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The Empire Proves **Its Claims**

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

Improved Frictionless

Cream Separator

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

It is so well builtand made of such good materials that

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

In convenience, in economy and in satisfaction, it is emphatically the Separator of Quality. We Prove These Things. We don't ask you to take mere "claims." We give you proof. Send today for our new catalogue, It is well worth your while to find out about the Empire.

Ontario Wind Engine and Pump Company, Ltd., Winnipeg, Manitoba, Canada.



ROBSON

KOOTENA

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

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

Neison, B. C.

Dear Sirs:—

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

Neison, B. C.

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

I and all prices for produce. Tand, the general description of the property exactly as stated in advertising matter. I and Inot in the least exaggerated.

Yours sincerely

Yours sincerely days here at Robson as we had on the Prairie

(Signed) H. Hedley.

Let Us Select a Robson Lot for You. Illustrated Booklet Free on application.

McDermid & McHardy, MENTION THIS PAPER

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THE GREAT-WEST LATE ASSURANCE CO.

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Ask for the leaflet "Our Savings," a short, plate added of the advantages of Life Insurance

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VELSON. B. C. THIS PAPER

to

Farmer's Advocate

and Home Journal

REGISTERED IN ACCORDANCE WITH THE COPYRIGHT ACT OF 1875.

June 5, 1907.

WINNIPEG, MANITOBA.

Vol. XLII. No. 767



over the visit of the Colonial Premiers. A small have no sense of humor?

"the Government had not only banged the door wish to oblige the Canadian Club and the growagainst Imperial taxation of food, but had locked, ing feeling against so much alien flag waving, barred and bolted it, and would not give a farth- a feeling bound to be strengthened by the large ing preference on a single peppercorn," is worthy rgress of settlers from the British Isles. of preservation, and effectually puts a crimp in the politicians who are not Free-Fooders.

"To spend \$10,400 advertising Toronto would be about as ridiculous a way as money could of the homesteader, especially of the man lacking well be wasted. The worst of having an industrial commissioner is that he is certain to think he should do something of that nature."—Globe.

commissioner skips with the boodle or not.

given the West is the fact that the heads of the railways are too busy running street car and electric light companies and an occasional bank, steads, varied at intervals by slough, sand or fire or life insurance company to give value in alkali bog-hole, it will be seen that a 21 inch service to the shareholders of the railway com- tyre is the minimum and in fact a three inch panies and the public.

are to be congratulated on the decision to stay for fixing up than otherwise, but when the distby the new regulations regarding the charges on ance from supplies is considered, the first thing U. S. publications. Lots of the publications after building a shack is to get at the breaking from our cousins across the border we value; early each morning. Here again the man with lots more Canada is better without, but in the a team of horses or three oxen will find it better running of governmental machinery we are to use a twelve-inch walking breaker plow than under no obligation, neither is it desirable to one going over more ground each round. A where there is little scope for the statute laborer k the advice in that immortal quotation that "bizness is bizness."

that fall far too frequently from many of our not cut clean under, and instead of the furrow erally that a passably good road is spoiled or successful men. The tenor of his remarks was slice lying flat, it is set up and half rolled or made very rough, a condition ameliorated by that more was to be gained by conciliation than falls back in the spot from which it is half cut. time and traffic. The worst result of the plowing by compulsion, and to quote his words:

have found them as responsive to argument and season will be a disappointment. People get and one finds as he traverses the country that as conscientious as any other class of the com- anxious to turn over the sod, but it will be found farmers have almost at their doors a great weed munity. It is a mistake to say that they are not economy to do a little less, and do it well and nursery. Unfortunately the man so pestered amenable to reason and sense of right.'

public men, but do not quite come up to the plowed, with a view to backsetting and then which after all was a carpet unpatterned by following from a Scottish contemporary: "The later in the season to break deeply, the latter to be noxious weeds, It seems, therefore, to us, that Secretary for Scotland did not shine on Thursday well disced either in the fall or early spring. By councils should exercise their authority in afternoon. Mr. Sinclair is not credited with the so doing, the backsetting will be in shape to let such an important matter, that the road should possession of an undue amount of intelligence, him seed some wheat early the next spring. Later not be allowed to be ruthlessly torn and disfigured but he possesses sufficient to enable him to gaze on the disced land can be sown to oats. The to give employment at statute labor, and that severely on a difficult question and pass on first season or two many will depend on the wild in all cases when the road allowance is so plowed, without answering it.'

Club of Winnipeg summed up the needs of the better to sow oats and cut with binder, when on from ditch to ditch or side to side should be province very neatly in the following phrases. the green side, when the grain is just in the first sown to some grass mixture, such for example He said "the need of the province was one milk. Such feed is convenient to handle and as blue-grass, timothy, rye-grass, alsike and white great teaching university. They could not have nutritious for horses or cattle. With the new-dutch clovers. If this were done weeds would be the breadth of research and have every branch comer from the Old Country the advice may less likely to make the public roads an eyesore on its proper footing and in due relation unless be given, to hustle. Used to longer seasons than and a menace to the farms they border. they had it conducted by men who lived and are the rule in Western Canada, he often does moved and had their being in one great organi- not appreciate the imperative necessity for going zation. He likened the continued division of at his work early in the day and season. The Department of Agriculture in the different of an estry nor hope of posterity."

The Canadian Club of Winnipeg has evinced ts sturdy patriotism by protesting against the flying. This is, and will always be, a British country with the Union Jack for its main piece The declaration of Winston Churchill that of bunting. The theatre managers express the

Some Troubles of the New Settler.

Almost invariably the bulk of the troubles experience, are entirely preventible. In the first place after debarking with his horses and wagon, he often loads too heavily with lumber Well, that depends whether your publicity and other articles for his new domicile, technically a shack, for which after all, though an error in judgment, he may be forgiven. Further, many of the homesteaders are The main reason for the poor railway service attempting to team too big loads, and that on wagons with narrow, two inch tires. When one considers the average roads to the hometyre would be much better. Arrived at the homestead, building has to be done, and if early The P. O. Department and Hon. Mr. Lemieux on the ground a little more time may be allowed of the breaking we have noticed this spring is being poorly done, the plows being frequently way, some feel it incumbent upon them to keep too large for the amount of horse or ox power their teams at work and men busy, so set them Sir William Mulock gave utterance to words, used, and in many cases, the plowshare does to plow the road allowance. The result is gen-As a result rotting of the sod will be much of the road allowance is that the upturned "Having been in touch with working men I delayed if it occurs at all, and the crop the next earth becomes a suitable nidus for weed growth, husband one's power in the form of oxen or is not consulted in the majority of cases or we horses. Further, the new settler will find it opine he would not on consideration have agreed Occasionally Canadian papers criticize their advantageous to break thinly the first land to the uprooting and turning over of the sod, hay to be found around sloughs, and providing it should be left with a rounded crown on which it can be secured in sufficiently large quantities the top two or three inches of soil, is in fine tilth, Canon Murray before the Winnipeg Canadian well and good, but if not it will be found far as for a grain crop, and that the whole expanse it is either being over-done, or is not in health. giving certain persons an opportunity to lecture

Get Fire-Guards Plowed Before Fires Come.

In his hurry to get things into shape in the way over use of the Stars and Stripes in Winnipeg of breaking and backsetting, house and stables theatres. Our neighbours to the south are most up, the new settler (and many of the older ones) estimable people, but we do not believe it essential are apt to leave the plowing of the fire-guards "A man charged at Bow Street Police Court in order to retain their friendship that we must smoky atmosphere and dried up appearance of recently with being drunk asked the magis- put the Union Jack second to the Stars and Stripes. the grass of the prairie, that the time for the yearly Owing to the large ingress of settlers from the holocaust is near at hand. If these warnings are fine was imposed." Now who said the English south, there has been a growth of sickly senti- neglected, the settler or his family, his ox or his mentality which prompted a lot of foreign flag ass or anything that is his, may fall a prey to the devouring wind-aided flames. Others again do start to plow fire-guards, and turn over four or five furrows and think they have paid their prairie fire insurance premium. They expect from the minimum of precaution the maximum of protection. Now the time to plow the fireguard is when the land is easiest to plow, when the plows are in shape to do so thorough work and make a good fire-guard. It seems to us that a little thought on the part of the settler previous to plowing the guard, would enable him to kill as it were two birds with one stone; namely, by plowing the fire-guard all around the farmsteading and plowing enough, not four rounds, but twenty-four or more, to have a piece of ground available for tree-planting a year or two hence. If we are permitted to suggest, we would advise twenty-four rounds, the inner one not closer than two hundred feet to any of the buildings, and then have as it were an outer fire-guard, same width, fifty feet from the outer furrow of the inner guard. Five minutes work by a prairie fire will lick up and destroy five years of man's work and probably take even a heavier toll in the form of human life; so when sky is overcast, the smoke oppressive and the sound of the enemy with its crackling flames and vomit of fire is heard, be prepared, and if so one can rest easy, troubled only by neighborly solicitude for those, who, like the foolish virgins-were not ready!

A Pointer for Township Councillors and Pathmasters.

In some districts where good trails obtain and owing to go

The Institute and the Farmer.

teaching between the colleges and the univer-tyro anxious to get work done is apt to drive provinces each year prepares for a series of sity not, as some people had, to an ass, crouching his animals too hard and as a result plays them farmers' institute meetings in June and this year, beniath two burdens, but to a mule—for such out. If an animal is blowing hard (panting) it we understand, will not be an exception. These a hybrid organization would have neither pride is evident that the work is too arduous and that meetings are not arranged for the purpose of people, but their primary object is to get farmers to meet together to divide their troubles and experiences, and such a habit when practiced, the importation of a few Suffolk mares and a greatly benefits all concerned. The visiting stallion or two of the breed, with a view to forming speaker is employed by the Government to give the nucleus of a preeding stud to supply the the impression that he has not helped them stock. His reasons are that the Suffolk is strong nor earned his money, then one of two things in the points in which our horses show the greatest not known how to get value out of the man or the ribbed up, deep and wide in the chest, active and man has not known how to give good service, very hardy; the legs are clean, flat in the bone and there is not much choice in allotting the and free from long hair. Stallions of this breed blame. Some institutes are failures for both could be obtained not exceeding 1600 pounds in reasons and some for one of them, but the object weight. should be to get together and try to get more and concern. Every community has its out- Westminster Show. standing successes in farming and such men like to know why certain things they do turn out to their advantage. In the same district used in farming the better will be the farming.

upon the people. They are not schools in which horses, or in the Standardbred of good quality. with his usefulness. to preach experiments, and when a man is foun The fault is more often noticed in horses of mixed advocating radical measures and sweeping breeding. I am, of course, referring principally ing of the shoe of the fore foot with that of the be taken with considerable caution. The improve- classes, even where the fault exists, it is not of fering to any marked extent with the horse's ment that comes to a nieghborbood in its farm- such importance, as the animals are not driven usefulness, is very irritating to the driver or rider, ing practices comes by gradual evolution, by fast, and, being hitched to heavy vehicles, there and very objectionable. While it is occasionally slowly finding out how ordinary methods can be is little danger to the driver, even though the noticed in horses of all conformations, it is more improved upon and by making full use of what- horse may injure his own knees. Violent crosses commonly seen in those with very short backs. ever suggestions can be adapted to individual in horse-breeding are likely to produce stumblers; It is usually noticed at the ordinary road gait, conditions.

HORSE

the Hackney is a desirable horse to use and that work, and having to a large degree the sluggishhe gets rid of the cow hocks and ewe necks, ness of the dam and the low action of probabesides giving good colors, quality and tem- both parents, is a stumbler, not value perament.

quiet investigation before deciding which horse to use.

when purchasing work horses in order to ensure ness, where it exists, by compelling the animal to turf correspondents, and talked about by the experts. value for the money they pay. Especially is it "drive to attention" at all times. This, to the He is purchased for a large sum, and sent to the the case in buying from horse dealers, and we average horseman, makes driving or riding a trainer; he admires him; his gait is good; he works would advise as follows: Do not purchase labor rather than a pleasure. The use of a tight along all right for weeks; the trainer commences to work horses brought from the towns and cities or check-rein removes to some extent the tendency put an edge on him for a race. He gives him half ranches of the United States. Why? Because to stumble, but many stumblers will stumble even cooled out he is turned in his stall, when he lies down of the danger of bringing glanders into one's under those conditions. Stumbling usually —tired out. The next day he has no ambition for stables. The use of mallein has enabled some occurs when the horse is moving at an ordinary work. In a few days he is given another trial, but to the larger markets, St. Paul, Chicago, et al. and stand constant driving at such a gait. In some trained off. He is rested up and tried again with then sold to dealers, often Canadian buyers. cases, shoeing heavily, with rolling-toe action, the same result. He has several trials, and is finally although liable to develop it at any time, and more liable to spread it in a healthy bunch of horses, but the purchaser by wholesale is given the story that some person has died, and that story that some person has died, and that the fault and in some cases do. As in greater density of land in some individuals than in The transfer is made and Canada gets another seeding with glanders. The unfortunate retail purchaser, generally a farmer, is luckily for the fault in others; hence each animal must be the fibres are finer and more compact. the country found by the Health of Animals treated according to his individuality. inspector and the diseased ones are shot, but while compensation is paid, the purchaser has stand the striking of one hind fetlock with the been put to a lot of trouble, risk of disease, and shoe of the opposite foot. This fault is probably the property proportioned, is the striking of the opposite foot. This fault is probably the greater the nervous power, the greater the nervous power. expense unwittingly by buying these pariahs from a neighboring country. Moral—Let the imported workers from the South severely alone. We know this advice savors of Protection, but being against disease, it is sensible protection.

Since of the opposite foot. This fault is probably more often met with than any other defect in horses which stand wide at the hocks and plant the feet closely together usually interfere, striking with the forward part of the shoe; while those that stand but being against disease, it is sensible protection.

The greater the nerveus power, the greater the horse. Will work on Sunday, and not get rested until the next together usually interfere, striking with the forward part of the shoe; while those that stand but being against disease, it is sensible protection.

We know this advice savors of Protection.

Wants Suffolks for B.C.

A writer in the Enderby Progress (B. C.) urges

There is a large stud at Steveston, B. C., from

Defects in Action.

in a district, his suggestions should to the lighter class of horses, as in the heavier hind one. This fault, while possibly not inter-A breeder of horses on the range says that and activity of the sire; is fitted only for light or other purposes. Crossing cold-blooded mares with sires of other light breeds frequently produces animals of the same characteristics.

Before selecting a stallion from those that have Stumbling may be said to be due to three been in the neighborhood a year or more, it will causes; viz., weak knees, low action, or sluggishbeen in the neighborhood a year or more, it will be well to enquire if any of the get are affected with ruptures or stifle-out. Some stallions have an unfortunate tendency to throw foals with horses of quite low fore action are prone to trip. Horses of quite low fore action are prone to trip. Weak knees, either from concentration, or singgish points that go to make up a good horse—soundness, conformation, symmetry, breeding, etc., and says that quality is 'indefinable' and 'unexplainable.' Quality is found in all breeds of horses and all animals. With Thoroughbreds, for instance, there may be two these weaknesses, so that it is well to make a or stumble over slight obstacles; hence are unsafe own brothers or an own brother and sister, raised quiet investigation before deciding which horse except on level ground. Horses that are lazy, together, of the same size and conformation, one a A Tip to Farmers when Purchasing Horses. cannot be corrected, but may be avoided by con- that are bought every year, because they had a bro-Western farmers need to exercise great care the horse well in hand and overcoming sluggish- who is a fine specimen; he is written about by all the stables in the U.S. to detect latent glanders, road gait, and if he is taken well in hand and he doesn't do as well—he 'goes back.' The trainer which when done the diseased horses are shipped driven smartly, he will go safe; but no horse can is asked what the matter is, and he answers that 'he The horses do not show evidences of the disease, shoeing heavily, with folling-toe action, sold. He has no 'quality.' correct the fault, and in some cases do. As in greater density of bone in some individuals than in most defects in action, what will have a tendency others?' I would answer, 'Breeding.'

close together will strike with the back part of the shoe. Interfering is often noticed in young horses when first shod, and disappears when they become accustomed to the shoes and road work. Shoeing with light shoes that conform well to the the people a service, and if he goes away leaving Okanagan with horses to grade up the common shape of the foot will often check the fault, but the practice too often adopted of shoeing with a shoe thicker on the inside than on the outside, in is wrong, and possibly both—the people have falling off. They are short in the back, well order to change the position of the fetlock-joint not know to get when the fact is planted connect by outwards when the foot is planted, cannot be too strongly condemned. It places the foot and limb in an unnatural position, and predisposes to lameness from sprain of ligaments or tendons. Shoeing with the outside of the shoe a little longer than the hoof, with a low calk on it (but not knowledge upon subjects of everyday interest which exhibits are sent annually to the new raised higher than the outside), has a tendency to check that peculiar twisting outwards of the foot and hock so often noticed, and which favors interfering, and is unsightly. When a young horse Stumbling.—The tendency to stumble is a very interferes, he should be carefully shod, and an will be men who are not so generally successful serious defect, and it may truly be said that a interfering boot worn until he has become well and these should know why certain things they stumbling horse has practically no value, except accustomed to the shoes; and if he continues to do do not give better results. A mixture of for slow work, as it is not only disagreeable but interfere, notwithstanding careful shoeing, the ideas should raise the average of intelligence put unsafe to either drive or ride him. My experiinto farm work and the more common sense ence has taught me that a purebred horse very continues to strike, even though he does not cut, seldom stumbles. A stumbling Thoroughbred the constant striking causes a chronic enlarge-Farmers' institutes are not meant, as many is almost unknown; so, also, is the defect rare in ment of the joint, which makes striking still more suppose, to exploit new systems and practices Hackneys, or other breeds of carriage or coach constant, and will probably materially interfere

Forging.—By forging is understood the strikfor instance, the produce of a heavy, rough mare and seldom heard when the horse is either walkby a Thoroughbred. To some, this saying that a ing or trotting at a smart pace. In most cases it Thoroughbred can produce a stumbler may sound can be corrected by shoeing rather heavily, and like "rank heresy," but observation tells us that with rolling-motion shoes in front to make him it is a fact. The Thoroughbred is congenitally a pick up more quickly and go a little higher; and low actor, and if bred to a mare of such cold shoeing the hind feet with shoes slightly shorter blood that even his prepotency is unable to over- than the hoof, and without toe-clips. In other come, there is a great probability of producing cases, a very light shoe in front gives better satisan offspring that inherits neither a fair degree of faction. As with most defects, each horse must the size and strength of the dam, nor the quality be treated according to his reculiarities of action.

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Quality in Horses.

At a meeting of the Veterinary Association in New York City recently, the following paper by Dr. Wm. Dougherty was read, which we reproduce from the Am. Vet. Rev, as in a measure it bears on some former articles appearing in this journal on the same question: "The essayist, Dr. Grenside has named all the sluggish, and inclined to loaf, are also usually first-class race-horse; the other is no account as a inclined to stumble. From whatever cause, the fault is very hard to correct, and, we may say, is 'quality' Look at the great numbers of yearlings stant care on the part of the driver, by keeping ther or sister who had quality. Take one, for instance

to prevent stumbling in one horse may increase well-bred animals are always more solid and denser;

" 'Quality' may be defined as a well-balanced ner-

FOUNDED 1866

back part of iced in young ars when they nd road work. rm well to the the fault, but hoeing with a he outside, in fetlock-joint cannot be too he foot and predisposes to or tendons. a little longer 1 it (but not a tendency to ds of the foot favors interyoung horse shod, and an become well continues to shoeing, the ed, as, if he loes not cut, onic enlarge ng still more illy interfere

d the strikthat of the y not interthe horse's ver or rider, occasionally s, it is more short backs. road gait, either walklost cases it eavily, and make him nigher; and itly shorter

In other etter satishorse must s of action. WHIP.

tion in New y Dr. Wm. e from the ome former same ques-ned all the -soundness, and says plainable. all animals. nay be two ster, raised ion, one a count as a condition, wo horses f yearlings had a broor instance by all the ie experts. ent to the he works mences to him half ien he has lies down bition for trial, but he trainer s that 'he gain with is finally

d quality th many andsome. with no auses the ; than in bones of denser;

nced nerorce and l, is the en years. he horse one that the next

a horse. habits, ig,' etc.

You will have a race horse in the morning with his sows. I still think myself that it was want of from low, thick, meaty cows, is the greatest mane all in knots and worked together, completely grit and exercise on account of the snow, pigs assistance a man can secure. Breeding of that

June 5, 1907

power, will always heal wounds better than the pigs as I ever saw, and the sows were wintered or other injuries of the legs or body. A Thoroughbred's pulse beats forty to torty-two times per minute; all young sows, but well grown and over a year arterial blood four to eight times more per minute in the Thoroughbred than in the low-bred horse. An example: Take a horse that has been 'nerved;' let him receive a cut, grab, or chapped heel, and see how difficult it is to heal them up; it will take several spring to catch again for a fall litter, but anyone the following words among others: weeks. And let me say here that should you have who has them coming at this time is doing O. K. such a case heal it by cicatrization with the nitrate

"'Quality' is shown in the prize fighter who has the punch to put the other fellow out. How often who looks the perfect athlete.

'You will often see a small horse who strides eigh-The smaller horse has to gain one stride in every

him a proper trial, I would put a file on his teeth. never saw a horse of low quality with hard teeth. When you find a horse with teeth as hard as the file you will have a horse with 'quality.

"The essayist speaks of hot-blooded and coldblooded horses. The thermometer shows no difference in the temperature of different breeds. presume he would call a Thoroughbred a hot-bloded horse, and the common horse the cold-blooded one. condition, and in disease they are about equal. But at work, at very high weather temperatures, there is a vast difference. The Thoroughbred will stand more heat and will go a greater distance without raising the body temperature as high as the low-bred horse. A horse in good condition, trained for a race, will not raise the temperature going a certain years, and I have never seen but two Thoroughbred weight from the size of his frame and length of horses overcome by the heat. It occurred in June, body rather than from thickness of flesh and 1874, at Jerome Park. There were two horses that depth and thickness of body. Experience has had been winners at the meeting. The trainer had races were over he went to New York and stayed get cattle to the ground, the smaller the proporther for a week. The horses were not exercised all tion of bone and the quicker they can get them won a barrel of money on them, and so when the this time. The morning he came up it had rained to maturity the more profit there is in raising and the sun came out very hot. He worked the them. True an 1860 lb. steer brings a lot of and the sun came out very hot. horses two miles and repeat, with the result that money, but the ideal steer is one that will weigh both horses were overcome and fell. I happened from fourteen cwt. to sixteen cwt. as a long twothere and put a bag of cracked ice on their heads, with other refrigerant treatment, both animals making rapid recoveries, without any ill effects. While this is digressing from the point at issue, I am inter
with other refrigerant treatment, both animals making rapid recoveries, without any ill effects. While is produced and the addition the steer in the dam.

Seen.

Bulls.—Admitted after having four daughters in the Record of Performance, each from a different dam. ested in this phase of the subject, because some years illustration made during the past year we venvations with the thermometer some obs owing to his thin skin, and the fact that his veins of purebred bulls of model conformation, bred of Agriculture. stand out more prominently, has his blood cooled more than the coarse-bred horse, whose blood does not come to the surface as does that of the Thoroughbred

"You will find that in a well-bred horse, or a horse of 'quality,' the nerves are larger than in a horse with no 'quality.' This I have observed many times.'

STOCK

(Contributions invited. Discussions welcomed.)

Pigs Dying that are Not Too Fat.

EDITOR FARMER'S ADVOCATE:

Since answering my enquiry regarding loss of pigs I see there are a number of replies concerning the losing of spring pigs. They all appear to have the same story, "Too fat," or "Not enough exercise." I know most of the sows in my neighborhood were not too fat, and since I last wrote I have met farmers from within the radius of thirty miles and they all have the same complaint. I could count at least thirty litters that have been lost and in some cases they have lost the sows too.

In regard to exercise, it is a difficult matter to exercise sows in winter where there are from two to four feet of snow, and I think as regards feeding we are not all greenhorns at the game. We generally feed about two thirds oats and one third barley and not much of that to breeding

"'Quality,' or a horse with a well-balanced nerve each, and have thirty-two as good and strong had four sows farrow in May, first litters for beef. with the others I lost the pigs from. They were

ONE OF THE CROWD.

yard in winter is not sufficient to ensure enough rich growing wool and mutton. exericise. They would be better drawing straw. -Ed.

That Big Steer.

in the district where he was raised and among wool. fast losing its claim upon the breeder. Everytaught cattle breeders that the nearer they can have been for the last five years in the West. ture to say was the mos

exhausted. The colored boys will tell you 'the fairies have been riding him.' Such horses are the fairies have been racing purposes.

grit and exercise on account of the show, pigs assistance a man can see an not being able to travel round and get fresh earth type saves grass, grain and hours, weeks, months or anything in that line. Since writing I have and often years of time in producing a ton of

The Sheepman's Opportunity.

Although sheep are about the best live stock a low-bred horse thirty-six to thirty-four times. old, so I don't think it can be put to immature docility, economical use of feed, healthiness, returns given for the money invested, and as aids From all accounts, in this part more than 75 to weed suppression, the fact remains that their per cent of the spring pigs have been lost. Sows numbers are not increasing on the farms of West-

"Canada's lamb crop will be light, winter having hung on persistently over there. The result of this will be little Canadian mutton on the Buf-(Having visited some of the pig breeders whose falo market next fall. Canada is not participatwill you see the small man knock out the large fellow experiences have been detailed in this journal, ing in the sheep development on this side of and having discussed the matter with many of the line and in Toronto not enough live mutton them, we are of the opinion that lack of exercise is available to supply local demand. I was teen feet beat the large one who strides twenty feet. Was the main cause of the great mortality. We given an order for a load of sheep by a Toronto find further that the successful raisers of pigs butcher and I believe it is the first instance of twenty; but if the nervous force were equal in both this spring have had their brood sows rustling mutton being bought in Chicago for shipment to horses the larger one would win out easily. It is the around outside all winter. The heavy losses in a Canadian point. Ontario is an ideal sheep well-balanced nervous power that makes one animal breeding stock and their offspring are not confined country, but they are not getting our prices for to pigs, for many horsebreeders report losses of wool, 16 cents being bid for the kind that sells in "If I had to decide in a few minutes as to the foals and mares this spring. Here again we Michigan at 25 @ 30 cents. I can not account 'quality' of a horse, without the opportunity to give believe lack of exercise had a great deal to do for it except that buyers are stealing it. If with the matter. To turn brood mares out in a Ontario had access to our markets it could get

Several men have done something in sheep raising on the prairie, some with purebred flocks, others with grade stuff run entirely as a commercial proposition. Every one of these men has a good word to say for the industry, which On this page we publish an illustration of a is a clean one and in this country sure to pay a both show the same temperature in a normal steer which attracted considerable attention profit, with its two annual dividends., lambs and The expense of starting a flock is not the people who saw him at the butcher's. We large. A bunch of range ewes, with some Merino call attention to this steer here, not because he is blood and a ram of the mutton breeds, a good the type of cattle a breeder should aim to pro- corral and open sheds and one can make a start. duce, but rather because he is of a type that is As to the most suitable purebred to use, Gamley and Thos. Jasper swear by Leicesters, Alex Wood distance as high as he would if he were not in so good thing about this steer bespeaks a late maturing and Jno. McQueen by Oxfords, Jno. Turner by I have been among horses for fifty-one type. He is big, high off the ground and gets his Shropshires, and others by Lincolns. Any are good enough, provided the rams used are good specimens of the breed. People will eat mutton, depth and thickness of body. Experience has for which the prices paid are steadily good and

Performance, Not Promise, Counts.

The requirements for admission to the record of performance in Ayrshires is quite rigid, as will be

Cows.—Admitted after fulfilling the following requirements of in training horses. I reason that the Thoroughbred, In effecting improvement in cattle stock the use vised by the Live Stock Branch of the Department



Photo by Tegart, Lumsden, Sask FOUR-YEAR-OLD STEER. WEIGHT 1860 LBS Bred by J. A. McKay of Tragarva, Sask, and Sold to Jas, Wilkie, Lumsden, for local trade

records specified below

T	LBS. MILK	LBS. BUTTER	FA
Two-year-old class	5,500	198	
Three-year-old class	6,500	234	
Four-year-old class	7,500	270	
Mature class	8,500	306	
marar class	0,000	500	

The per cent. of butter fat shall be determined by Babcock test.

If test be commenced the day the animal is two years old, or previous to that day, she must produce within 365 consecutive days from that date, 5,500 pounds of milk. For each day the animal is over two years old at the beginning of her year's test, the amount of milk she will be required to produce in the year will be determined by adding 2.75 lbs. for every such day to the 5,500 lbs. required when in the twoyear-old class. This ratio is applicable until the mum amount of milk required of all cows five years

If test be commenced the day the animal is two which will be the minimum amount of butter fat sources. Everywhere one hears the same tale-

months before the commencement of test.

Pretty Good Prices for Produce.

The prices given below were agreed upon at the annual convention of the Canadian Society of Equity as the minimum prices at which the farmers of Alberta should sell their products on the local markets.

Wheat, No. 1 Northern, per bushel\$. 7
w neat, No. 1, Alberta Red, per bushel	. 7
Oats, milling, per bushel	. 3
Barley, malting, per bushel	. 4
nogs, alive, per pound	. 0
Hogs, dressed, per pound	. 0
Beef, alive, per pound	.0
Beef, dressed, per pound	
Hay best upland porton	. 0
Hay, best upland, per ton	
Butter, fresh, per pound	. 3
Turkeys, dry picked, not drawn, per pound	. 1
Eggs, fresh, per dozen	. 3

The figures above were published May 15th, and it will be found interesting for our readers to compare the prices suggested with the real market prices.

Tuberculous Cattle Dangerous.

Since the pronouncement a short time ago of th special commission of investigation of the British Board of Agriculture, which practically backed up the contention of many scientists that tuberculous cattle are dangerous to the health of human beings, there have been published the results of some investigation work carried on by the U.S. Department of Agriculture, the conclusions from which we publish below. The great lessons of the investigation results are: First, the necessity for absolute cleanliness, in milking, especially by the milker; and second, the need for the proper use of the tuberculin test. It will be seen readily that the contamination of milk is generally from the outside, by foreign matter, a conclúsion which has been proved time and again.

1. Tubercle bacilli are disseminated with the feces (manure) of tuberculous cattle. This is shown to be the case by microscopic examination, by inoculation tests with guinea pigs, and by ingestion experiments with hogs.

2. Feces are the most dangerous factor in the

dangerous to man and animals, but also the feces dam, and at the same time exercises no traceable and An examination of a number of samples of clover, of cattle so slightly affected that the diagnosis of corresponding benefit to the calf. If the milking alfalfa, pea, bean, rape, and millet seeds of known tuberculosis with them depends entirely on the appliqualities of a cow are worth encouraging, it is just purity and uniform ripeness showed in the case of cation of the tuberculin test.

4. Tubercle bacilli that are swallowed by cattle stated periods. are to a great extent passed entirely through the digestive tract and out with the feces without loss years has been the regulation of type in their herds properties. of infectiousness. As cattle do not expectorate, Most Shorthorn breeders have been running strongly color and the the infectious matter that is coughed up from their on the Scotch Shorthorn cross. But that has its limited charmlengs is swallowed, passed through their bodies, and tions in the ordinary herd, and where to secure another that is scattered with their feces.

of rare occurrence compared with the dissemination many breeders have recourse to cows and helf-rs of wife

visibly tuberculous.

found to be free from infectious material.

organs with otherwise normal excretions.

(Continued on page 869.)

The Future for Shorthorn Breeders.

It is generally accepted that for the Middle West, animal is five years old, when the required amount the dual-purpose type of Shorthorn is the one most should have been kept as long again for breeding will have reached 8,500 lbs., which will be the minisuitable to the condition of the average farmer. purposes. Properly fed and exercised a bull should Farmer and Stockbreeder comments instructively on not lack in potency or fecundity at the age of ten

the breed, in part as follows

"To-day the beef type of Shorthorn still commands years old, or previous to that day, she must produce the almighty dollar in more abundance than the within 365 consecutive days from that date, 198 lbs. milking type; and while the prices do not appear of butter fat. For each day the animal is over two quite comparable with the remarkable figures realised years old at the beginning of her year's test, the in the autumn of last year or in the earlier part of 1906, amount of butter fat she will be required to produce yet it is abundantly evident that the home demand is in one year will be determined by adding 0.1 (one strong enough jointly with the comparatively, few tenth) of a pound for each such day to the 218 lbs. orders from South America still unfulfilled, to keep required when in the two-year-old class. This ratio the market prices at a high level. The breeder has is applicable until the animal is five years old, when been so busily engaged producing to sell that he has the required amount will have reached 306 lbs., held his hand in strengthening his herd from outside required of all cows five years old and over.

Where can well-bred, stylish bulls be procured for Every cow accepted for registration of production stud purposes? One thing is certain: the supply is must drop a calf within fifteen months after the commuch smaller than the demand. Many herds possess. mencement of the test. In the four-year-old class very good light-colored bulls, but sound-colored reds and the mature class, no cow will be accepted for of scale, character and breeding are very hard to registration of production if the beginning of her produce. The color difficulty was never more acute—of alfalfa and other useful forage plants put the previous lactation period were more than fifteen than now. It may have been the fashion at one time to decry the little red Cruickshank bull, but there can be no doubt that the red Shorthorn has been at the top of the tree in the revival that has been they offer for sale?' witnessed within the past twenty years in Shorthorn breeding. More than that, it has exercised unexampled influence on the type and character of the modern Shorthorn.

"What is the position of the breeder to-day? It may be taken as an accepted fact that every pedigree 75 the bull trade. With some it may not be the all- the merciful and wise farmer will seek to provide powerful and dominant influence, but that does not for his live stock. At the Agricultural Experi-prevent them realizing that young bulls of the right ment Station of the University of Minnesota stamp and bred the right way command more some investigations have been carried on which money than many gallons of milk. But the difficulty are very interesting and it is expected will be lies in endeavoring to combine two two transitions and it is expected will be lies in endeavoring to combine two types in one herd. 04 There are deep milking Shorthorn herds, but where deep milking propensities have been encouraged being to assist in providing forage crops of a body to the extent of producing many four-figure gallon across the difficulty of producing bulls that fetch high higher nutritive value than those available. There are other herds again in the distinctly fleshy type prevails. Milking forage in live stock feeding is of great importance, and the distinct of the data ment of the detailed by the use of more concentrated nitroqualities are encouraged, but not to the detriment of because by the use of more concentrated nitromilk churns to be dispatched with punctilious regu-smaller amounts of grains or milled products. larity, therefore the cows are not driven to produce This results in a material financial saving in the last ounce. It is an axiom amongst most dairy-men that cows in full profit cannot lay on flesh and produce a heavy yield of milk at the same time. Of which the following summary has been obtained Therefore, the milk, in whatever quantity it may be of which the following summary has been obtained. perhaps a cream trade being encouraged. It is on conclusions re rape which bear out the stateowners are divided, that the prosperity of the Short- Manitoba Live Stock meeting some years ago. horn mainly depends. Its resources are commanded both from beef and from milking sources. They and low protein content, it was found that crops, produce bulls that sell well, and can turn an honest like corn fodder, timothy hay, rape, pasture grass penny from the milk which is not wholly consumed by and hay crops from mixed grasses, were materially nursing the calves.

getting sufficient from the dam to nurse the calf well, yield per acre, but also of the highest feeding value. dissemination of tubercle bacilli by cattle affected and probably this indifference in milking capacity with tuberculosis. In this respect feces must be explains why it is that nurse cows are sometimes do not appear to be so susceptible to the influence regarded as having a place with cattle similar to secured for this purpose. The greater the supply of of fertilizers in increasing the protein content as that commonly accorded to sputa with tuberculous milk, some seem to think, the more bloomy the calf, crops like timothy, corn fodder and rape. The use 3. It is not alone the feces of visibly affected cattle should not be allowed access at all times, as it has forage rich in protein requires less supplementary which disseminate tubercle bacilli in a way that is the tendency to decrease the supply of milk in the feeding with grain and mill products.

outcross on Bates lines has taxed the consideration per-5. Bacilli may reach the environment of tuber- of not a few. There is difficulty in acquiring talls, culous cattle from their mouths, but this is evidently for good Bates bulls are hard to find. Consequently, co

All cows admitted must equal or exceed both the through feces, especially when the cattle are not Bates blood, while sticking to the Aberdeenshire type of sire. This partially accounts for the increased 6. The nasal discharge of tuberculous cattle was attention given to milking type, which is recognized partly as a corrective to the extensive use of the beef 7. Urine is probably free from tubercle bacilli type. It is for this reason as much as any other that when the genitourinary organs are not affected and we believe the prosperity of the two types to be no infectious material has been introduced into it inseparable. The one is an admirable corrective to the after it has been passed. The practical significance of this conclusion lies in its bearing on the question creating high prices. The Scotch type, or first cross whether tuberely havilly are every through out by whether tubercle bacilli are ever thrown out by on Bates, is his particular fancy, and through it the tuberculous subjects through unaffected execretory milking Shorthorn secures a considerable portion of its demand. The home trade in milk is extremely important, but to breed bulls of a milking type is equivalent to courting the patronage of the least remunerative market.

It is the same in Western Canada. Good bulls are hard to secure, yet occasionally one hears of a good sire going to the shambles at five or six, when he

(Comments upon farming operations invited.)

One gopher destroyed now will mean fewer to destroy later on. These little rodents are great multipliers, so get after them early. If the season happens to be dry, crop near bare prairie will suffer heavily from their depredations.

An experimenter with considerable knowledge following pertinent query to us-"Where do the seedsmen get all the Turkestan alfalfa seed that

After the bulk of seeding is done, especially of the cereals, the question of forage crops begins Shorthorn breeder is nowadays looking keenly after to loom up, for next to providing for himself, profitable. The work done was in the Division of Agricultural Chemistry and Soils, the object Here bull breeding thrives. There are no genous forage, rations can be prepared requiring yielded, is manufactured at home—cheese, butter, or Our readers should also take note to the herds such as these, where the sympathies of the ments of Agriculturist Grisdale made at the

In the investigation of forage crops of high, medium nfluenced in composition by the use of farm manures. 'Most breeders are convinced that nothing is more The maximum protein content was secured from calculated to reduce the milking properties of a cow soils where the fertility had been maintained by the than putting a single calf to suckle her. It is necessary use of manures and crop rotations. Less fibre and that the vessel be properly stripped if a cow is to increase from 25 to 30 per cent. more protein were secured in milking capacity. Therefore, when milking capa- from forage grown upon soils where the supply of city is apparent, two if not three calves can be reared plant food had been kept up, than from that grown on on one cow with advantage to the calves and the cow. similar and adjoining soils where the fertility had The breeder whose one aim in life is to produce a been allowed to decline. This emphasizes the imporbeef Shorthorn irrespective of milk is, as a rule, not so tance of maintaining the fertility of the soil as a particular. He very frequently finds difficulty in factor in producing forage, not only for the largest

The leguminous crops, as clover, alfalfa, and peas, which is true enough within certain limits, but the calf of larger amounts of leguminous crops and other

as well to follow the well-ordered plan of suckling at each sample two distinct types of seed; one of high "One question which has troubled breeders of late capable of being selected on the basis of physical properties. To high protein seeds were darker in and one of low protein content. The two types were cornecus (harder in the shell) in se low protein seeds. It is believed ands on the basis of physical proand low protein types may result crops of the maximum protein Way as has been accomplished

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of high es were hysical rker in nell) in elieved cal proresult protein plished

Analyses of eighteen samples of the more common is to be followed, breaking should be done more. The moisture supply serves so many purposes deeply. In the sub-arid belt it has been found that to understand its full value to a crop one the soil large amounts of nitrogen. When weeds are best to summer-fallow every second or every must devote long study to botany, physics, harvested with grain crops the amount of nitrogen removed by the weeds is larger than that contained third year. This spring the winter wheat is in chemistry and other related sciences. Each year in the grain. The protein content of some of the tip-top condition, but moisture must be stored sees a greater evidence of the estimation in which weeds is greater than that of some forage crops, but up to give it a proper start when sown in Aug- a supply of moisture is held by farmers and a

the same general composition and feeding value as

land, than timothy, red top or blue grass alone.

It is believed that a selection of the high protein ing? type seeds of clover, alfalfa, peas, and beans combined with suitable cultural methods, would result in an increase of proteids in the crop. A close relation-ship was observed between the physical properties tent on the basis of physical properties. Manures judiciously employed are capable of increasing the nutritive value as well as the yield of forage crops, as timothy hay, corn fodder and millet.

Sorry He Sowed Brome Grass.

EDITOR FARMER'S ADVOCATE:

I have only tried brome grass and that I sowed down with oats and had a good crop last year, but if I had known as much before I sowed it as I do now I should not have sowed it at all. It is the worst weed we have in this part of the country. The next area sown. True, there is not apparently a large

Oxbow, Sask.

HUGH HAMMELL.

Likes the Bare Fallow.

EDITOR FARMER'S ADVOCATE:

Re the questions you ask I should say that bare fallowing is preferable to seeding and grass for rest- about up to the area of 1906. Coarse grains have ing the land. As to which grasses are best I could been a little more extensively sown than pre-I do not grow any grass except timothy, my method land being in exceptionally fine tilth, and if the being to fallow, then take a crop of wheat; next year I sow down timothy with barley, taking two crops of timothy and then plow it up. I may say that on no account would I sow brome grass, as it cannot be later than usual and this is on cured, and I would as soon have couch grass grow-expected after a late spring. ing as brome.

WM. HASSELFIELD.

In the Sub-Arid Country.

A short time ago we had the pleasure of a drive in the Lethbridge country, where coal outcrops on hillsides and where fall wheat and alfalfa flourish. Not far from Lethbridge in the Alberta chinook belt is the Southern Alberta sub-station of the Dominion experimental farms system, under the charge of Agriculturist Fairfield. M. S.(the northern sub-station being located at Lacombe under charge of G. H. Hutton, B.S.A.) The Lethbridge sub-station will demonstrate two methods of working land in the suband dry land farming. Moisture for the crops is the great desideratum in the calculations of Mr. Fairfield will be watched attentively by the lighting and heating farm houses are as easily readily are a moderately mellow soil beneath and many who are swarming into that country from worked out as in the towns and villages of the a loose dry mulch above. A hard, caked or all points of the compass. The initial step is country, and it is now possible, especially if the soggy, wet surface does not conduce to the free the subjugation of the more or less barren prairie, house is located on a rise of land, to install at a soil ventilation, and is very undesirable on every (we say barren advisedly, because it is estimated comparatively reasonable cost a set of waterto take twenty-five acres or more of the natural works, with all the appliances, bath and lavatory up field help much to ventilate the soil, for, virgin bosom may be made to flow with milk cleanliness and happiness can be had better on distribute it through the soil body. and honey. To do so the plow must do its the farm than elsewhere, if only a little effort is ruthless work, and the best and most common made. Just, recently we were shown plans methods must engage our attention. First, designed by a manufacturing firm to meet the crust from forming, or destroy it promptly if it disc? Generally speaking the best method is just the thing needed. former, albeit somewhat slower. Great care is needed to break thinly and to lay the furrow slice level, or rotting of the sod will be retarded and the backsetting imperfectly done; It is simply a truism to repeat that upon most. In fact, about nine-tenths of the gospel of soil useful help will be given by the subsoil packer of our tarms a supply of moisture is more essent cultivation may be summed up in the simple in-run over the breaking. If the discing method tial to plant growth than additional fertility, junction, "Don't let the crust form,"

the bitter principles and other objectionable com- ust or early September. Alfalfa is the crop more earnest and systematic effort is made each pounds present render the weeds unsuitable for which it is hoped will be largely grown. The season to conserve the moisture of the cropped plant is in good shope this coping. general forage purposes. Sheep, however, are capplant is in good shape this spring, but whether land and of summer-fallows. The summer-fallow The dry matter of nearly mature rape contains about this spring is a question. It takes a lot of seed, about the farm as far as keeping its moisture is the same amount of protein as clover. Much care and the seed is costly, \$400 a ton. From irri- concerned, for the reason that it is supposed to Rye fodder, prairie hay, and millet have about at two cuttings, seed being sown at the rate of lected. But moisture alone is not all that is the same general composition and feeding value as timothy hay produced under similar conditions and cut at the same stage of growth.

Pasture grass and hay crops from mixed grass seeds

The fall. With the dry land, keeps the subsoil in good condition to bring up the foregree crops for dry land forming and what is to water from lower depths and to allow the root of 20 pounds per acre, without a nurse crop (or as gained by a well-kept summer-fallow. The moisand some clover contain more nutrients, partic- be the forage crop for dry land farming? and what plants to feed. methods are to be followed or what means employed to replace humus in the soil to stop drift-

Seeding Operations.

proportionately in many other parts of America been stored up chiefly in the dormant season.

The lateness of the season has according to all our information only very slightly affected the I seed will be timothy and clover, and I think it will increase over last year, but that is partly due to be all right to seed down a summer-fallow without the fact that the heavy crop last year involved so much work that preparations for the 1907 crop were delayed. Time to prepare the land this spring was also rather limited, owing to the continuous prevalence of heavy frosts. On the whole the bulk of the wheat seeding was about two weeks later than in average seasons and prospects now for rapid and steady growth materialize, harvest should be but very little later than usual and this is only what might be

From all over the older settled districts reports As to how a catch should be handled, the way I do of increased seeding to red clover are coming, is to cut as soon as the first bloom is off, then coil so the lands that have been broken out of scrub and that it cures properly and then take direct into the valley lands being most generally seeded with the clovers, and from the experiences gained in sudden drying out of a moist, adhesive soil. It our clover competition one and two years ago starts at the surface as a crust, and thickens as

seeded last spring, and so far all indicate that the and mellow. Even in a prolonged period of crops stood the winter well and promise to make drouth, this under soil will remain friable, and good growth. Seeding to grass is also much in case the dry weather lasted long enough that more general than in the past, as also is the pracfor horses, cattle and hogs.

short, has been favorable for getting work done and there is every evidence that the time was over clay spots in the spring, instead of waiting more than ordinarily well employed.

Farm?

farmers, for that belt of land lying between farm life is the lack of conveniences around the Manitoba's western boundary, south of the home. Few people balk at hard work provided

Evils of the Soil Crust.

gated land three tons per acre have been secured acquire all that is necessary, even when it is neg-

To provide air and moisture in the soil, the great essential is to preserve, under all possible conditions, a loose mulch of surface soil. This acts as a blanket to protect moisture below from the evaporating influences of sun, wind and air For the last two months the extent and con- above. Investigations by the department of and the chemical composition of seeds, rendering it possible to select seeds of high and low protein concentrations and even now a large part of the public that in the description of t conjecture and even now a large part of the pub- that in the dry growing season of 1905 grain crops lic are forming estimates, erroneous and other- used two and a quarter times as much moisture as wise, upon these subjects. The lateness of the fell on them during their period of germination season has been the chief point of discussion, and growth. In the wet season of 1906 they for the simple reason that we have had other required one and a half times as much as was supseasons that have been earlier. This is without plied in the rain that fell. This extra moisture a doubt a late season, but it is just as backward must have come from the subsoil, where it has

We can thus perceive the great importance of conserving moisture carefully. Much can be done in this direction by thorough pulverization of the soil to plow depth, thus increasing the water-holding capacity of the lower soil; but far more important it is to have the surface layer of two or three inches dry and loose-the drier and looser it is, the more effectually will it conserve the moisture below. Even a slight crust will impair its efficiency, tending to draw the soil moisture to the surface, where it is quickly evaporated. A harrowed or scuffled surface will preserve moisture very much better than a rolled one, or than one not give any decided opinion on that question, as viously and the crop has been sown rapidly, the over which a crust has formed. To save soil moisture, therefore, never let a cruen form when it can be avoided. If crust does for break it up at the earliest possible moment. Every day's delay means serious loss of moisture, which, if the season should turn out to be dry, may be a very serious matter, and is regrettable in any case. By keeping the surface soil loose, we prevent the baking of clays, and thus insure a free range of root growth. Baking is caused by the these should produce a crop with very little care. the soil dries out. The soil mulch prevents the Several reports are also to hand of clover fields rapid drying out; hence keeps the lower soil moist the lower soil actually did dry out, it would still tice of sowing a mixed grain crop for fodder be much less hard than if it had quickly dried out by thickening of a crust above. If the value Taken altogether the seeding season, although of the soil mulch were better understood, there would be more general use of the harrows to run till the whole field was ready, and then trying by roller, harrows and disk, to break up the dry,

A soil mulch also provides for the aeration of One of the objections one hears advanced to ventilation of a stable, for the processes by which plant food is liberated will not take place with-C. P. R. main line, and east of the foot-hills of the that they are able to get a modicum of comfort change of air too. The conditions under which though they may let the air down, the do not

Finally, the cultivation which aims to prevent should it be break and backset or break and needs of the farmers and such looked to us to be does, will also kill germinating weed seeds, with no particular pains or effort at all. A weeder used in this way will do more to keep down weeds han a broad-share cultivator can accomplish in destroying them.

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What Tools Shall I Buy?

"One of the questions naturally asked by the Western farmer who is buying farm implements is, which tools are best suited to my conditions? Thisquestion cannot be satisfactorily answered by previous experience in eastern states. Our conditions call for a different line of tools in most cases. Ordinarily we must plow deep. Frequently our soils are very dry and difficult to handle and, for these conditions, special plows are required. We also require special tools for farming the plowed soil, for planting the seed and for maintaining the much advo-

cated 'soil mulch. "The object of a plow is not only to pulverize the soil, but to cover weeds or manure in such a manner as to make them decay rapidly and produce available plant food. In a mouldboard plow this pulverization varies according to the shape of the mouldboard, the amount of moisture and the depth of plowing. The steep, short mouldboard, pulverives more and is capable of plowing deeper than any other form. This type should be used almost entirely as a stubble plow For completely turning the soil, without pulverizing it, we have the low, long and not abrupt mouldboard found in use as a prairie breaker. Deep plowing pulverizes more than shallow plowing and the work done is more than in proportion to

the depth. For plowing where all conditions are favorable, the mouldboard plow does best work. The disc plow, however, is adapted to plowing in dry soil and will give satisfactory results where it would be impossible to work with the mouldboard type. As a general rule, the large disc is of lighter draft than the smaller one. They have a tendency to pulverize the soil less, however, and do not penetrate so deeply. The 24-inch disc is considered as about the proper

size for thorough pulverization. "The disk plow should be required to cut a narrow furrow, which will prevent the corrugated appearance of the furrow bottom. This furrow bottom will be almost flat when not cutting over 8 inches is width with a 24-inch disk. Under the same conditions, the disc plow is of less draft than the mouldboard plow, but there is not so much difference as is often claimed by the manufacturer.

DISC HARROWS.

"The disk harrow may be considered as the most important tillage tool for the arid West. There is no other tool that will conserve more moisture by using it on stubble after harvest, before plowing time than this. It is also of great value to thoroughly pulverize a soil in the spring after fall plowing

"It is add, ed to use under various conditions. It thorough pulverizes a cloddy plowed field. It may be used as a cultivator for summer-fallowing. On ground where small grains are to follow such crops as corn or potatoes the use of this tool will often make plowing unnecessary. As to the mechanical construction, a 14-inch disc will pulverize the soil more than a larger one. This size of disc penetrates the soil deeper than the larger one, owing to the fact that it has less bearing-up surface.

'For hardiness and ease of operation, each gang of the disc should be controlled by an individual leader. Weight pans should also be found on each gang. All bearings should be well protected from better work than the cutaway disc or the spading disc. It is more easily sharpened and also pulverizes the soil more satisfactorily

THE SUB-SURFACE PACKER.

diately after plowing there is perhaps no other tool given each year to the assertion, by the yields of that will do the work so satisfactorily as the subsurface packer. In turning over the furrow slice in plowing, weeds, trash, manure and clods are placed in the bottom of the furrow. This loose dition allows air to circulate freely, thus drying out ences of the previous one or two decades. Farmers and being rowed both ways. Planted thus the the furrow slice very quickly. The ordinary method themselves are quick to assert that as a class they crop can be more cheaply grown, as it need never of harrowing or rolling does not pack this ground are not making money, and it would therefore be touched with a hand hoe if cultivated at the the surface is packed and levelled with these tools the loose condition at the bottom is scarcely affected According to the Campbell system this is directly opposite to what it should be. The under surface should be fined and packed, while the upper surface should be loose

"By the use of the sub-surface packer upon this newly plowed ground, clods are pulverized, the weeds forming a layer below are compacted, and instead of acting as a layer through which air circulates to dry out the soil, it is held in the best possible condition for rapid decomposition, and in a short time furnishes valuable plant cool

"The common peg to the absolute necessity on concontain level adjustment for tooth should be well secured. The be long enough for hitching on four when desirable. Usually the smoothing harritool will cover a large area and often does all the work necessary to keep down weeds and loosen the upper surface. When properly used, it is an excellent cultivator, for small grains and corn especially.

"Cultivators may be divided into three general classes with respect to dirt moving devices: Shovel cultivators, (2) disc cultivators, and (3) blade or gopher cultivators. The shovel cultivator is commonly used in the corn growing sections. It is adapted to deep cultivation. The disc cultivator is fairly well adapted to use in the corn growing sections also, but up to the present time has not come into general use. The blade or gopher cultivator is well adapted to surface cultivation, and for this reason is suitable to this section of the country. For general use, these cultivators should be equipped with shovel attachments for deep cultivation also. The gopher cultivator keeps the upper surface in a finely pulverized condition, thus preserving the soil

"The two-row corn cultivator is very rapidly coming into use. It gives very satisfactory results where the rows are of uniform distance apart. The four-row beet cultivator is still more complex than the two-row corn cultivator. Unless the rows are exactly of uniform distance apart it is impossible to do satisfactory work. Where four rows are planted at once, very good results are obtained by following the same rows with the cultivator.

"Where the disc harrow and the sub-surface packer are used after plowing there is very little use for a roller. Corrugated rollers and bar rollers are frequently used for clod crushing; they are much better for this purpose than the smooth-faced roller. The smooth-faced roller frequently pushes hard clods down into the loose earth without crushing them. It leaves the surface smooth and thus makes it necessary to follow with a common smoothing harrow, to prevent unnecessary loss of soil moisture. The firming of the soil draws the deeper water to the surface, the surface temperature becomes higher in the sunshine, and the wind velocity near the smooth for general use.

GRAIN DRILLS.

of furrow opener made than the single disc. This, as a rule, gives better satisfaction than the shoe, the hoe, or the double disc, for the arid regions. It cuts through all trash, makes a deeper furrow than any of the other types and is forced into the ground with less pressure. We believe that the press wheel attachment should be used in this section, especlally where we depend upon the scanty supply of rainfall to bring up the weeds. The construction of a press drill of this kind should be such that the weight may be thrown on the runners, or on the press wheels, or divided between the two, as may be desired. The drill should also be evenly balanced to prevent neck weight.

For ordinary farm purposes the full blade disc does general opinion seemed to be that the press drill is results may be had. the best for use on Western unirrigated soils.

Too Easily Satisfied.

We are generally told that the farmer is a wheat reported viva voce by farmers. Occasionally we find some farmers more or less dissatisfied with the yield, but rather than study out the ment, and the land kept as level as possible until under-layer may have direct connection with the causes or adopt new methods, they abandon the surface between the furrow edges, as some of the farm to others, sometimes at a big figure, and trash will be but partly turned under. This con- go on to the bald prairie to repeat their experiappear that such being the case, and we believe right times. Labor is too scarce to employ help it is, it is up to them to change their methods. hand-hoeing when one man with a brisk-walking The business man wants a return from his busi- team can do more execution in an hour than he ness, both for his time and capital invested, and can in a day with a hoe. the farmer has just as much right to expect and plan to get the same thing. Not long ago a and thickly. An old rule, that any seed should wholesale man, speaking of his business, said his not be planted more than two and one-half times turnover for the year had been \$200,000. of its own depth, applies admirably to corn, and which he would get five per cent net. but he three grains is enough in a hill; one bushel of seed thought it should yield him ten per cent, with will plant six to eight acres. Some varieties of which we could not disagree when the price he corn, such as Cempton's Early, Longfellow, and was partied in the matter of taking years off his some other small-growing kinds, may be planted long hours of work and worry, was three and a half feet apart each way

the only tool necessary to follow the disc harrow for decade is away below that figure. More and finishing the seed bed. For summer-fallowing this better tillage, the keeping of more live stock, the application of manure, the growing of grasses and clovers and forage crops, contain the solution of the problem; the agriculture of older lands has persisted and thriven because of those things and we must follow their example.

The Best Yielding Forage Crop.

In the West, the popular varieties of corn are the flints, due largely to the opinion that such are much earlier, yet many of the dent varieties are sufficiently early and are said to be much heavier yielders. The yield depends largely on the quality of the seed and the cultivation given during the growing period.

The first requisite to a good crop of mature corn is strong, vigorous seed. Seed corn weak in vitality will grow under favorable conditions and produce a fair crop, but if the weather should turn cold and wet immediately after planting, there is a great chance of loss, as it will not remain alive long, and in prolonged unfavorable weather will rot, while seed strong in vitality will remain in the ground a long time without injury, and when favorable weather does come, will come on at a rate that makes up for lost time. Under similar and favorable conditions, there is ten days' to two weeks' difference in the maturing of corn of vigorous seed and that of poor vitality.

Every farmer should grow his own seed corn, if possible. If this is not practicable, he should get it as near home as possible. By growing one's own seed great advantage can be gained, not only in that the plant will become more adapted to the locality, but since, as nothing responds more quickly to a little care, the crop can be greatly improved through judicious selection and pruning. By selecting and planting the early matured ears, the type can be made much earlier; and by proper detasselling of those stalks which have inferior cobs or none at all, the percentage of nubbins surface is greater, each of which favors the rapid and of barren stalks can be greatly reduced in a loss of water. The roller cannot be recommended few years. It is not generally recognized that the present yield of grain could be increased from thirty to fifty per cent. per acre if every 'In grain drills there is perhaps no better form stalk bore a well-developed cob. This, however, is a matter of fact, which a few moments' close observation will show. Actual count has proven that a very large proportion of the stalks as now grown bear no ears.

Corn bears a very important place in the tation of crops. The thorough cultivation rotation of crops. required to grow it puts the soil in a fine condition, ridding it of most weeds and grasses. Clover is the ideal crop to precede corn, and should not be plowed too early in the spring, but allowed to grow quite a top before being plowed under. Clover seed may also be sown in corn just before In answer to the question as to the width between it is cultivated the last time. The best stands can the discs—seven or eight inches, Prof. Bainer of the be obtained in this way, and a good covering for dust and so constructed as to be easily oiled. Each Colorado Agricultural College, from whose paper, the soil be had. Any well broken and backset dust and so constructed as to be easily oiled. Each disc should be provided with a satisfactory foot lever cleaner. The 20-inch disk will be of less draft are taken, stated that he believed eight inches was a good site for corn planting. In fact, close enough In the discussion that tollowed the

To be successful in the cultivation of corn, the soil should be made as mellow as possible, and the seed planted as soon as the land has been thoroughly prepared. Cultivation should begin "For the preparation of a proper seed bed imme- chronic grumbler, and yet the contradiction is by harrowing with a set of light harrows or weeder; this may be repeated when the plant has four to six leaves. After this, it should be cultivated once a week with a small toothed implethe plants get so large as to break when touched

by horses or implement.

Sealing cenerally the average farmer cannot by stopping up all the holes, but three on the seventeen disc or shee drill. The drill should be The ordinary seed drill may also be used, drops below a yearly average of twenty set to drop seed every six or eight inches in the s; and yet despite all crop becomings, the row if fodder is wanted; a little further apart for

e. More and ive stock, the ng of grasses n the solution f older lands f those things

Crop.

s of corn are that such are varieties are much heavier in the quality n during the

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Should Calm Some Fears.

Occasionally some sections of the press of Canada and Great Britain have a spasm of statistics here given. No fear need ever be felt either in Canada or Great Britain, so long as Britishers (Canadian, English, Irish and Scotch) are themselves true to British principles and the doctrines the Union Jack stands for. Rottenness is most dangerous when it starts at the

Here are the comparative figures for the past seven fiscal years:

Immig	gration t	o Canada Contin-	1900-07.	
Year. 1900-1 1901-2 1902-3 1903-4	British. 11,810 17,259 41,792 50,374 65,359	ental. 19,352 23,732 37,099 34,728 37,364	U. S. A. 17,987 26,388 49,473 45,229 43,543	Total. 49,149 67,379 128,364 130,331 146,266
1905-6 *1906-7 .	86,796 55,791	44,349 34,217	57,919 34,659	189,064
Totals . 3		230,841 July 1st	275,198 to March	835,220 31st.

Canada during the seven years out of the total If these people would only have all arrangements to inbreed on a large flock. of 835,220 have come from Great Britain or the made for the swarming before it commences, United States and are of the class of immigrants have the bees in good modern, movable frame best fitted for conditions of life in this country. hives, and the wings of the queen bees clipped, Compared with the cosmopolitan population flowing into the States from all the countries of transformed from little short of slavery into Europe during the same period, Canada has every reason for self-gratification.

A further analysis of the British immigration to Canada during the same period is also of interest as showing the relative contributions of

as follows: British Immigration to Canada, 1906-07.

	English			
	and Wels	h. Scotch.	Irish.	Total.
1900-01 .	9,401	1,476	933	11,810
1901-2	13,095	2,853	1,311	17,259
1902-3	32,510	7,046	2,236	41,792
1903-04 .	36,694	10,552	3,128	50,374
1904-05 .	49,617	11,744	3,998	65,359
1905-06.	65,932	15,846	5,018	86,796
*1906-07	41,658	.10,729	3,404	55,791

Totals . 248,907 60,246 20,027 329,171 *Nine months, July 1 to March 31.

have outnumbered the Scotch by four to one, and and she will immediately run up into it. The the Irish by twelve to one. During the past few plug is then replaced, and the cage, with the weeks, however, the proportion of Scotch immiqueen inside, is laid in a safe place (not in the hot grants has been rapidly increasing.

article in the Saturday Evening Post, wherein a hive made ready beforehand in its place. Set Alberta is termed the "Yankee" province, the old hive on a new stand some distance away entirely a misnomer, only a little abuse of poetic from the one from which it was taken, so that the Editor Farmer's Advocate:

a steadily increasing influx from all quarters of few minutes commence to return to where they the globe, the totals arrival for the fiscal year came from, and will run into the hive placed to 1905-06 showing an increase of over 500 per cent., receive them. When they are nicely running as compared with the arrivals for 1896-97. The in, release the queen close to the entrance of the immigration of the second decade of the regime hive, and she will go in with them—and there of the present Government is starting in with a you are. No climbing trees, sawing off branches, rush which bids fair to keep the geometrical wasting time, getting bees down your neck, or progression rate of increase established during anything. Of course, this method requires that the past few years.

population in one year than came in during the evening, or any time, during the swarming season, the whole decade from 1886 to 1896. For the and examine his bees for signs of swarming; and first four months of the present year the arrivals when the signs are found, either make an artificial have totalled a little over 80,000. For the first swarm by the "shaking" process, or by taking four months of 1906 the arrivals totalled 56,369. away most of the combs of brood and substitut-The increase is about forty-three per cent. All ing empty ones. This latter way, however, will reports from immigration officials, steamship not prove successful except in the early stages booking agents, representatives of the Salvation of the "swarming fever." Army and other immigration agencies indicate So, instead of letting your bees run you this that this rate of increase will be easily kept up summer, and perhaps make you sick of the whole the waiting crowds. For the month of April manage as the pigs or the fowls, when you get alone the rate of increase was about seventy per to know them as well, and they will pay you quite

But although considerable stress is put upon

mere increase in numbers, the Immigration Department rightly puts even more stress on the quality of Canada's new citizens and their fitness fear or nightmare that Canada is being weaned Canada wants plenty of building material in this to become useful members of the growing nation. away from the Motherland and that the process of rearing the national edifice. But is being aided by the great inrush of settlers Canada also wants that building material to be from alien lands, and especially from the great of the best quality. And one of the most encouraging features of the immigration situation at less, as may be seen from the immigration present is that the largest proportion of increase is in immigration from Anglo-Saxon stock.

APIARY

Easy to Control the Bees.

EDITOR FARMER'S ADVOCATE:

they would find the handling of bees and swarms pleasure and profit. Swarming, when a person has no control over the bees, is a mighty unprofitable business, and the time spent in watching for the hiving swarms is enough to make an ordinary person wish the bees were in Halifax, or some England, Scotland and Ireland. The figures are other distant town. With everything in readiness beforehand, and with queens clipped so that they cannot follow the swarms in the air, the hiving of swarms is just fun, and takes very little time. When a swarm issues from a hive, the queen tries to follow them, and, having a wing clipped is unable to fly, but will be found crawling or hopping along on the ground. A small, wire-cloth cage, made by rolling a small piece of wire cloth, four or five inches square, in a roll perhaps an inch or more in diamter, and closing the ends with two pieces of wood, one of which is fastened tightly in and the other left so it can be taken out, should be kept handy. Take the loose piece of wood out of the cage, thereby leaving one end open. It will be seen that the English immigrants the open end over the queen on the ground, sun). Now, while the swarm is still in the air, Some Canadians feel offended by a flamboyant lift away the hive from which it came, and place returning swarm will not find it. The swarm in The decade since 1896 has shown year by year the air, finding itself without a queen, will in a the bees be watched for swarming, but even the The estimate for the present year is 300,000, watching can be eliminated if the owner of the

as much, or more, for the time bestowed on them.

POULTRY

Tuberculosis in a Flock.

Would you please tell me what I can do for my hens? They keep on dying all the time. Have lost all the young hens since last summer. They are sick for more than a month. Their crown gets white; they get so poor and weak they can hardly stand. I examined one this morning and saw the liver was all in blisters, three times as big as it should be. There were some white chnuks in it and the liver was frothy. The heart was smaller than it should be.

Ans.—This is what is commonly known as 'going light" and is really tuberculosis. It is generally caused by close confinement, not enough good, fresh air and nearly always can One of the reasons most frequently given by be traced to inbreeding, which is very harmful farmers for giving up keeping bees after having when practiced on a flock, as there are always had them for a few seasons, is that they swarm one or two lacking in vigor. We would advise just at the wrong time, usually when a farmer is killing off all birds showing any signs of sickness hustling to get a field of hay drawn in before rain and taking out all windows in the fowl house, comes on it. At such a time it is very annoying covering with cotton instead. See that your to have to spend perhaps an hour or more follow- fowl are free from lice and keep everything used ing a swarm around the premises until it clusters around the poultry very clean. We would also (generally in the top of a tall tree, especially if advise the isolation of the young chickens from the farmer is in a particular rush), and getting it the general flock and if you can manage it kill off down and hiving it in the way that is usually all your old birds in the fall and make a fresh Nearly 600,000 of the immigrants coming to dracticed by those who keep a few bees on the side. start. Always buy a fresh male. Don't try

H. E. WABY.

A Few More "Don'ts" for the Poultryman.

Don't be afraid to take out that window and put in cotton if the poultry building smells stuffy. Don't forget to let the brooder lamp out in the day time when the chicks begin to feather

Don't forget to feel under the hover every morning to see if there are any dead chickens. If one should happen to die and be left in, it will do a great deal of harm.

Don't forget that grit is just as necessary to young chicks as it is to laying hens.

Don't stop feeding your hens when the moulting season is near, as that is the time they need it most. You can't get a good flow of milk during spring and summer from a cow if you let her run to the straw pile all winter. The same rule applies to the hen at moulting time.

Don't neglect dusting the brooding hen with insect powder. You cannot raise young turkeys with lice around, and your young chicks, although they may live, would be better without them.

forget that if you can let the when the sun is shining she will soon find enough of what the chicks needs to fill their crops up. We like to see a chick go to roost with crops almost

H. E. WABY.

Care of the Flock by the Busy Man.

Most every one who raises poultry, whether a large flock or a small flock, has more or less other work to attend to and everyone welcomes laborsaving devices. Most people would raise more poultry if they could do it easier and "get things going right," to use a popular expression. We find one of the best plans to raise young chickens is to isolate them entirely from the main fleck. By so doing we are not bothered with the older fowl getting any little tit-bits which might be thrown to the little chicks. We believe largely in the colony house plan. A colony house can be a considerably larger addition to the Dominion's bees will take a few minutes once a week in the built at very little cost and any handy man can but one up in a day. One year we had six of them all built out of two large packing cases put together and covered over with tar paper. You can either pull your colony house or houses up so that they are not far from the house at say twenty to forty feet apart or put them closer and stretch a wire fence of one inch poultry netting around them, so that it can be taken down easily and rolled up in the fall. This is the way we like best and then nothing bothers our until the end of the year. Probably it will be business, take a hand in the running operation chicks. If a cat gets in the cat gets fits; if a dog increased, if the steamship companies can handle yourself. You will find the bees just as easy to gets in it doesn't take long to teach him to stay on the other side of the fence. So far this year we have only lost one chick in this kind of fence. A colony house, 6 x 8 ft. floor space, will accommodate about seventy-five chicks till fall; then you

throw open on fine days.

who see them can scarcely believe them so young. hole being one and a half inches wide and about have collected for our readers' benefit: two inches long. Put on a lid and put the feed tn, shorts and oat chop ground fine. For mash force it was looked upon with considerable disfavor ifood sift out hulls, beef scrap for animal food, by the Western nurserymen, as they maintained it all kinds of grain crushed coarse. We usually have two feeders in each colony house, one for the mash and beef scraps with a partition between the two, the other for grain after the chicks get older, say six or seven weeks when we use a larger box. to the nurserymen, and as time goes on it will Try making one or two; you will be surprised undoubtedly be found that it would almost have how quickly you can make them. For the older been almost impossible to undertake any work which chicks we don't cut holes; just take a piece off the lid, put in the feed and stand it up on its side. Try and get narrow boxes so that a good sized bird can reach across them. Throw all the table scraps in the fence after meal times with a feed of cooked potatoes once in a while and if you for gardens and buildings. It will be seen that in don't raise good large, healthy chicks there is reality this encroaches but slightly on the regular something wrong with your breeding stock.

H. E. WABY.

Horticulture and Forestry

" Horseradish Culture.

O. E. M., writing from Alberta, asks how to grow horseradish, the methods of cultivation, preparing for the table and if it is necessary to secure a license to prepare and market it.

Horseradish grows so easily that very few moist, but not wet, as that would produce soft roots, while dry soil produces woody roots.

prant it may require digging out once in awine old ash seedlings can be grown at a very good profit recover and send out fresh shoots as soon as growth grown for commercial purposes its cultivation is more thorough and all the roots are taken up in the fall or spring. For such purposes new roots are set out each spring in rows about 2 feet apart and the cuttings about 12 to 18 inches apart in the row. The ground is then cultivated or a crop of some kind taken off the land that season and the next left to the horseradish exclusively. The cuttings may be off roots about 6 inches in length and from the size of a pencil to that of a man's finger These "sets" may be secured from a nurseryman or from a growing patch Cut the upper end square and the lower end slanting to distinguish them and set with the upper end nearest the surface of the ground about 6 inches to a foot deep. The cuttings may be kept in moist sand over winter.

Horseradish is made ready for the table by grating or grinding the roots into a shredded pulp and immersing in vinegar; then kept sealed from the air until ready for use.

Any person may put the product on the market without a licence, but if he can put it up in attractive packages with a registered trade mark and advertise his brand it will tend to increase his business.

Persistence in Tree Planting will Pay Well.

The effect of tree plantations on the homestead are so many and vary that any suggestions towards serving such desirable additions to Western prairie farms will be welcomed by our readers. The advantages have been enumerated time and again, but it will not be andss to again draw the attention of farmers on the treeless plains of Manitoba. Saskatchewan and Alberta

can use the house in a great many other ways. to them. It is commonly stated and believed to be a very great demand for evergreen trees, but We find them very useful for a good many things. that unless you can show people the financial up to the present there is only one nursery in the (We used one to store coal in last winter outside.) or material benefit to accrue they will scoff at Have a window in the south side which you can the idea of improvement judged from the æsthetic or ethical point of view. In the first Now the reason for writing this article is to place, trees should be planted by the farmer show as easy a method as possible of raising with a view to ensuring a supply of fuel easily young chickens, and we have found the self- obtained, a proposition quite feasible according this class of stock is practically unlimited. feeder beats all other ways. We can raise nearly to the experiments and statements of men qualitwice as many chicks this way and find they are fied to make such assertions. Then there is the if anything larger in the fall and better matured. shelter effect, to house, farm buildings and live We are using self-feeders this year on week-old stock, the aid given to the growing of fruit chicks and from that age we keep them con- successfully and gardening, and then the adorn-Assistant Superintendent of Forestry N. M. To start with we take a small, low box and cut Ross, in his report to the Minister of the Interior, holes in the side one and a half inches apart, each gives a lot of valuable information which we

> "When the co-operative scheme was first put in would affect their business unfavorably. In some instances considerable opposition was manifested. The greatly increased demand for nursery stock of late years has, however, conclusively shown that if anything the present system is of great benefit could prove so beneficial to the nursery trade. The distribution from our nurseries is limited at present to four or five varieties; namely, native maple, ash, elm, Dakota cottonwood and willow. These are sent out only as small seedlings and according to agreement must be set out in block form or as shelter nursery trade, which chiefly supplies stock for perennial plants. It has now been fully demonstrated that without shelter it is not possible to grow many kinds of fruit and ornamental shrubs and that the value of the ordinary vegetable crops and hardy fruits such as currants and raspberries, is increased at least fifty per cent. when protected by suitable As every settler is extremely anxious to grow fruit and vegetables and to beautify his surroundings, it will be readily seen that wherever a plantation has been set out under our co-operative system the owner is practically certain to purchase nursery stock for planting on his sheltered grounds.

'It is also very easily seen that in a few years the Forestry Branch will not be able to supply even a small proportion of the demand for forest seedlings words are sufficient to assist anyone to produce which is bound to increase very rapidly. With cannot exceed four million seedlings, which number is insignificant when we consider the immense territory over which they are distributed. There would In most gardens horseradish grows in some be a very good market for seedlings of hardy native

seed. The native tamarac is another conifer which gives evidence of being particularly adapted to prairie planting. The raising of hardy coniferous seedlings is a work which Western nurserymen would find extremely profitable, as the demand for

'Since the spring of 1901 over 7,000,000 seedlings have been distributed throughout Manitoba, Sas katchewan and Alberta. The reports sent in by the various inspectors in regard to the different plantations inspected by them are very encouraging. In one or two instances trees have been neglected, but stantly before them and I must say I never saw ment resulting from groves of trees sheltering such cases are the exception. The great majority larger-boned, healthier chicks. In fact, most people many species of birds useful to agriculture. of plantations are in excellent condition, and reports show that at least 85 per cent of all seedlings sent out are now living. The inspectors all report a greatly increased interest in tree planting both in towns and country districts.

HOME GROWN TREE SEED AND TREES ARE THE BEST.

"In 1905 owing to the impossibility of collecting elm seed, several pounds were purchased in the eastern United States. This seed came up fairly well after sowing but the seedlings were completely killed out during the winter. This shows almost conclusively that seedlings of elm grown from seed matured in the East are not hardy enough for this country. About half an acre of seedlings from native seed came through without injury.

'In the spring of 1906, the elms in the Qu'Appelle valley bore a good crop of seed, and we were able to collect sufficient to sow 3½ acres. As this is one of our best trees for prairie planting it is unfortunate that so much difficulty is experienced in collecting

the seeds in certain seasons. "Of all the trees growing on the nursery the native larch, tamarac, gives the greatest promise as a hardy, rapid-growing variety for general prairie planting. Our experience would show that it is an exceptionally ornamental planting, such as shrubs or large trees easy tree to transplant and appears to be suitable to a for avenue planting, fruit trees and bushes and great variety of soils. The seedlings planted here were obtained from the swamp in the Spruce Woods Reserve. They were planted in nursery rows for two years and then set out on backsetting, absolutely without protection or shelter of any kind. The growth the first summer was about a foot. second summer the average growth was 18 inches, many of the trees making as much as 3 feet. Of the number set out in 1890 and 1906 (approximately 6,000), we have not lost a single one from winter killing and not I per cent. died after transplanting. This is a much better percentage than we find in any of the native broad leaf trees. We have not yet been able to obtain seed of the native larch, but hope to be able to make arrangements for the collection of some during the coming summer.

"It would seem that when first planted a certain a crop. It does best in soils that are rather present facilities our annual stock for distribution amount of shelter is necessary for the Scotch pine, that is, sufficient to collect snow and keep the young plants well covered. Apparently they are not injured in the winter, but as soon as the snow goes, leaving them exposed to the winds and the effects distant corner with other crops, from year to trees for shelter purposes, provided nurserymen of thawing and freezing in the spring, the needles year some of the roots being taken up for using grew them on a sufficiently extensive csale to permit become brown and sunburned. In some cases and the rest left to propogate. It is such a hardy of their being sold at a price which the ordinary the plants may appear absolutely dead and most plant it may require digging out once in awhile farmer can afford. One-year-old maple and two-year of the needles drop off, but a very large number

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w W. Way, Okotoks, Alta.

THE PLANIER.

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Qu'Appelle vere able to is is one of unfortunate n collecting

y the native as a hardy, e planting. ceptionally uitable to a anted here uce Woods y rows for absolutely kind. The foot. The 18 inches 3 feet. Of roximately om winter asplanting. we find in have not larch, but the collec-

l a certain otch pine, the young are not snow goes. he effects ne needles me cases and most e number as growth

filling the blanks this spring, some rows were not disturbed at all. If a plant appeared to be dead, pleasures of life are numerous. Your home is dead are now growing vigorously.

JUNE 5, 1907

"This year several thousand four-year transplanted spruce and Scotch pine raised from seed in our own nurseries were available for planting. An people of the Kootenay are naturally elated over annual fair will be held July 9th, 10th, and 11th acre of permanent belt set 3 feet apart each way, their success in fruit raising and future results will was put out on the north belt. Three acres of Scotch no doubt be still more gracifying. The chief civies pine planted alone, with trees three feet by three feet and towns in the Kootenay fruit districts are Nelson, apart, was set out on east belt, and another acre with Kaslo, Trail, and Creston two rows of pine and one of spruce, to the northeast of the house. Altogether five acres of permanent evergreen plantation, or a total of about 25,000 young plants, were put in. The trees at present appear to be in splendid condition, nearly all having sent out

vigorous shoots. (Continued on page 876)

The Fodder Crops.

There is an amount of judicious planting that can be done in June and the winter just past demonstrated the need of it. Horses, cattle, hogs and poultry and all suffered from the want of more fodder and a greater variety of it. Good chaff, hay and sheaves make first-class feeding material, but roots for winter and spring and strated its ability to stand hard weather on the corn fodder and mixed grain crops for fall and range, better than any other breeds, except early winter, are worth all the trouble of growing possibly the Galloway. for cattle and hog foods.

year the tenth of June should not be considered when people begin to realize that there are three Salisbury, England, has closed. It was opened too late, and from that time on corn, turnips, main classes of cattle; viz., special purpose, dual- in 1880 and run as a private institution ever rape, and mixed grains for fodder might be sown. purpose and no-purpose.

another was set immediately beside it. We find beside a beautiful mountain, lake or river. Instead that a great majority of those then supposed to be of marketing with a horse you use a launch and besides an evening boating trip is a pleasure indeed their success in fruit raising and future results will

DAIRY

* * * It is safer to estimate the value of a dairy cow by the number of ribs shown.

The West Highlander and its crosses demon-selected varieties.—Ed.]

Mangles are usually sown in May, but this Cattle judging will gradually become easier

Portage Fair Rejuvenated.

The Portage la Prairie Agricultural Society has been reorganized and incorporated as the Portage-Industrial Exhibition Association. A. Fishing is splendid sport, the waters abound in L. Hamilton is the president, A. W. Humber at the beautiful grounds on the Island.

Likes Beardless Barley.

EDITOR FARMER'S ADVOCATE:

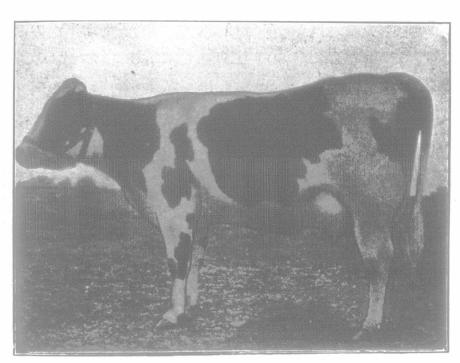
I saw a letter in your paper warning people against beardless barley. Now I got a sample of it several years ago from the experimental farm and am well satisfied with it. It yields a little better than the other and is two weeks earlier. It will not shell if cut at the right time and not left standing till dead ripe. The straw is not Lost or estray—one or more travelling dairies. so leafy and is finer than the bearded barley.

A. McEwen. Clearwater, Man.

by the pounds of milk she produces rather than beardless barley with the old fashioned common sort. It is seldow we hear of beardless being superior to Mandscheuri and some other of the

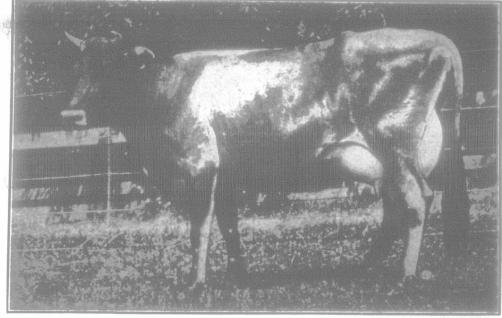
An Agricultural College Shuts its Doors.

The Downton College of Agricultural near since under the charge of Professor Wrightson.



COLANTHA 4TH'S JOHANNA.

Holstein cow; eight years old; holds the world's record for any breed for a 7, a 30, and a 60 days' official test.



PEER'S SURPRISE 144248.

A record-breaking Jersey. Authenticated one year's test, 14,452 lbs. milk, 643.61 lbs. fat, equivalent to 769 lbs. 10 ozs. butter. Owned by W. S. Ladd estate, Portland, Oregon. Test made under supervision of Oregon Experiment Station.

market and the necessity of cultivating to keep country, out of 675 mangy cattle only fifty down weeds, should all operate to increase the survived the winter; the parasite did more than acreage sown to feeding crops.

Fruit Growing in the Kootenays.

The big western province of British Columbia which has so long been known to the world as the mining and fishing province, has lately brought

the Kootenay. The way to the Kootenay is via he knows his best cow without bothering with the with the Babcock. The chemicals are also more the Crow's Nest Pass and the scenery along this route milk-scales and the Babcock test, but the experience expensive. After making several comparative tests is magnificent. Arriving at the Kootenay, landing of those who have tried it both ways goes to say that with the two methods, we are not prepared to recom-you take passage on a C. P. R. Steamer for a trip up he does not always know; frequently the cow that mend the Gerber in preference to the Babcock, the Kootenay Lake to Nelson and now, probably he thinks the best turns out the poorest. before you are aware of it, you are in the midst of

the great Kootenay fruit belt.

give you an income. In the meantime you can get but with your small fruits such as strawberries. A generate and in some instances as much as \$1200 per acre and in some instances as much as \$1200 per acre has been realized. acre has been realized.

The extention of the dairy industry, the If spraying needed an advocate, last winter impetus given to hog raising by the strong furnished it. On one ranch in the Medicine Hat the cold weather, for it stripped the beasts of their coats and drank their blood also.

Records a Basis For Weeding Out Cows.

forth a new industry which bids fair to outrival vigorous selection must still be practiced. In order within the "limits of error" and are no greater than the others. The industry referred to is that of fruit to select intelligently, it is necessary that accurate would be found in comparing duplicates with the growing and although it is as yet in its infancy will records be kept of the cow's performance. It is not Babcock test. So far as results comparable with the be the occupation of ninety per cent. of the new enough to know what the herd averages, but we must Babcock are concerned, we should say the Gerber settlers coming into British Columbia. One of the chief fruit valleys in the province is the average of the herd down. A man may think is considerably more with the Gerber as compared

records. Experience at this station shows that it milk. Along this lake and near-by lakes and rivers you takes about twelve seconds to record a cow's milk, will find soil, of a reddish hue, which is so well adapted and the extra pains that a milker will take when to fruit raising. Almost every kind of fruit is grown, from gooseberries to the luscious peach. About seventy trees are planted to an acre; as these when mature produce from \$10 to \$35 worth of fruit each, towards improving and raising the standard of our the walker of the standard of th the value of a fruit orchard can be readily seen. dairy herd. We need to know the amount of feed After buying a fruit farm it isn't necessary to wait that each cow consumes, and then, by the knowledge several years until your trees are mature enough to of her milk, with the per cent. of butter-fat, we can more profitable basis.—Kansas Bulletin.

Still stays by the Babcock Test.

Proj. H. H. Dean in the O. A. C. report for 1906, reaches the following conclusions as to the respective merits of the Babcock and Gerber tests for butter-fat:

"With these twenty-one cows' samples, in which the percentage of fat varied from 3.0 to 5.0 per cent., there was in no case a difference of over 0.2 per cent. fat between the reading as given by the Gerber compared with the Babcock. In most cases the differ-Whether the cows are common, grade, or purebred, ence was not over 0.1 per cent. These differences are although the former is used in Europe in preference A man may say that he does not have time to keep to any other short test for determining the fat in

Don't Use too Much Butter Color.

We are just running into the grass season and the quantity of butter color used should be gradually ssened. As soon as the cows are on full grass the coloring matter should be 'cut out entirely. This should be the case during June and July and some-

are the two other qualities, flavor and texture

DI MICKO SAFE

How the Fancy Cheeses are Made.

Although some may object to considering Gorgonzola, Roquefort and Stilton as belonging to the same this takes time and strength—both of which should characteristics he transmits to the calt will be of more group, they have one essential character in common. The changes of the curd in ripening and the special flavor for which these cheese are sought are attributable in the three varieties to the same species of mould. This mould has been designated in a previous paper as

from sheep's milk in the Department of Aveyron and higher and farther than you could throw it with your improvement forward another step, fixing the qualities to some extent beyond this area in southern France. arm. Centrifugal force did the work. It is the and the power to transfer them more surely and It is ripened in cellars and caves in the sides of a power that makes whirling bodies pull away from the strongly, carrying them to a higher degree and elimisingle cliff in the village of Roquefort. Stilton is a center about which they are whirled. When a vessel nating detects that have come from the mother's side. cows' milk cheese, made for the most part in the containing milk is rapidly spun around, top like, cen- From generation to generation the succession of welldidland counties of England. Roquefort and Gorgonzola are brought to America in very large quanparticles of skim milk and cream. But centrifugal improvement of the herd. In this way the sire tities. Stilton is found also in the leading markets force, like the force of gravity, pulls harder on the becomes three-fourths, seven-eights, fitteen-sixteenths of our large cities, especially in the East. These skim-milk particles than on the cream particles, so etc., of the herd. In fact, in a few years the sire is three varieties are cold in America at the sire is three varieties are sold in America at prices varying that the skim milk is drawn outward against the sides practically "the whole thing. from 40 to 60 cents a pound Roquefort commanded of the vessel, and the cream is squeezed inward toward.

So the sire may be much not be supported by the side of the vessel, and the cream is squeezed inward toward. the same price in the markets of Europe, where the the center. Add to this spinning receptacle proper writer has seen it in nearly every city and town visited. driving mechanism and proper tubes for drawing off lated effect of the characteristics he transmits. It is standard cheese of this whole group.

any evidence of the nature of their ripening agents. centrifugal force. They are comparatively hard cheeses, readily handled without close-fitting boxes in wicker baskets or crates. centrifugal force is this—its strength or power can be For the most part they are specially cleaned or cov- increased as greatly as necessity requires. That is the ered before exporting, so that their superficial appear- great advantage centrifugal force has over the unance gives no clue to the story of their production. changeable weak force of gravity. Centrifugal force Internally these cheeses differ much, but have one can be made strong enough to do perfectly and almost sharply marked character in common—every open- instantly what the force of gravity does incompletely ing, every air space, natural or artificial, is lined with and slowly. Centrifugal force is so great that it can green mould. The cut section is thus said to be wring practically the last drop of cream from the milk marbled with green. The odor, and taste are attribut- so quickly that the skimming of the entire milk from an position? able to the growth of this mould. It gives to the fully ordinary herd may be finished, the single can of cream ripe cheese a piquancy which is much sought for. set away to cool and the skimmed milk fed to the spent than any other \$100 invested in the herd? If eaten only partially ripened there is a hitter taste calves before the skimmed milk can grow cold.

Forty-one animals are purchased. The purchase of If eaten only partially ripened there is a bitter taste calves before the skimmed milk can grow cold. which is not attractive. This disappears, however, The gradual growth of the casein web which with the continued action of the mould.

is largely a biological one. A certain stage of digestion of the curd brings with it the flavor sought. It is necessary, therefore, so to adapt the processes of making and ripening as to present culture conditions centrifugal force, as applied in the centrifugal cream which will permit the necessary development of the separator, instead of some gravity system in the form right mould in a uniform manner without the entire of pans, crocks or cans? decomposition of the cheese.

(Continued on page 870)

Two Methods of Skimming.

There are two forces known to man that can be used for the profitable skimming of milk. One is used. gravity—the old-time crock, pan or can setting system in use ever since man learned how to milk. Gravity to five cents per pound, according to local conditions. is the force that pulls every object downward—the or can contains. But this force of gravity pulls creamery. harder on the skim-milk particles than on the butterwe say skim milk is heavier than cream, bulk for bulk. In consequence of this difference down and the cream is squeezed up. But not all the cream is squeezed to the top. Some of it fails to rise. There is a reason for this.

When the milk is set away in pans, crocks or cans it begins at once to grow stale. One of the constituent parts of the milk is the casein or cheese part. The instant milk begins to grow stale, this casein or cheese part begins to coagulate or thicken. It first forms sort of invisible net or web all through the milk, and this web grows gradually thicker and thicker until it forms the solid curd or clabber of sour milk. This web cannot easily be detected until it has become very thick, but it is there, even though we do not see it. globules out of this cheesey net, or a considerable por- neighbor's herd. tion of the butter-fat will be left in the skimmed milk and be lost. Because it is weak and slow, gravity must be allowed, say, twenty-four hours, to skim a batch of milk. And all that time the milk and cream are standing round taking up odors from the air, growing stale or sour, and the fat-entangling casein web is getting in its work to your loss. The result is bad in every way. The loss of cream sometimes amounts to from one-quarter to one-third, and possibly more in milk be warmed before feeding. In this way gravity causes the dairyman a great falling off in quantity and quality of butter, and in the value of the skimmed surely and strongly to the progeny, which is usually York State. Glass jars or bottles of silage were ex-

There are all the pans, crocks or cans to be filled and than half the characteristics of the calf, or the stronger bec, discussed at great length the principles and pracset away twice daily; later, they must all be brought and pre-dominating half, come from the sire.

skimmed milk must be warmed before feeding if the gree, is superior to the cows-and this will be true farmer desires to avoid bad results in his calves. All where a purebred sire is used on a grade herd—the count as part of the expense of operating the dairy. value (of higher quality or greater quantity) than

-centrifugal torce? How does it work? How strong is it? What does it accomplish that gravity fails to Gorgonzola is made out of cows' milk in Lombardy and ripened in special buildings in cool valleys of the Alps, principally near Lecco. Roquefort is made whirled it about a tew times, and sent it sailing much breeding, mated to those improved heiters, carries the from sheep's milk in the Department of Aveyron and higher and forther than you could throw it with your improvement to work a generation of calves more ning wheel; you have doubtless frequently whirled a than halt of whose qualities and strength were transpaid of milk or water about your head without spilling mitted by the sire. This single step is a great arms and ripened in special buildings in cool valleys of the advertise than the starts out a generation of calves more ning wheel; you have doubtless frequently whirled a than halt of whose qualities and strength were transpaid of milk or water about your head without spilling mitted by the sire. This single step is a great arms and ripened in special buildings in cool valleys of the advertise than the starts out a generation of calves more ning wheel; you have doubtless frequently whirled a than halt of whose qualities and strength were transpaid to the sire. This single step is a great and ripened in special buildings in cool valleys of the advertise than the starts out a generation of calves more ning wheel; you have doubtless frequently whirled a than halt of whose qualities and strength were transparently where the starts out a generation of calves more ning wheel; you have doubtless frequently whirled a than halt of whose qualities and strength were transparently and the starts out a generation of calves more ning wheel; you have doubtless frequently whirled a than halt of whose qualities and strength were transparently and the starts out a generation of the vessel, and the cream is squeezed inward toward It is clearly a superior article and may be taken as the the skimmed milk and cream into separate vessels, literally true that the sire may thus, within a few and you have a centritugal cream separator-a mach-Externally the cheeses of this group do not show ine that separates cream and skim-milk by the use of

The most enteresting and valuable characteristic of

The problem before the student of cheese ripening largely a biological one. A certain stage of digesimprisoned butter-fat particles.

So what will you gain in dairy profits by using

(1) A skimming force which may be made ten thousand times as strong as gravity.

sometimes even more—in the quantity of butter you they have been bred for that very thing. Whether or get from the same amount of milk under the same not these dams have been tested, so the actual figures conditions, depending upon the separator and how can be given they are far more likely to have been

(3) A gain in butter quality that will run from one

(4) You will have fresh, sweet skimmed milk, still force that gives all things weight. When milk is set in warm with the heat of the cow, which will be much pans, crocks or cans, the force of gravity pulls down on every particle of skim milk or cream the crock, pan diluted skimmed milk from pans, crocks, cans or

(5) You will have a single can of cream to set awa or haul to the creamery, instead of several crocks, pans or cans of whole milk to care for, and your trips to very (and not that meeting and pot that meeting are considered in the cow's ancestry can affect but one calf a in weight, or pull of gravity, the skim milk settles down and the cream is squeezed up. But not all the creamery will be decreased by at least one-half.

(6) You will require less storage room, less ice and practically no pans, crocks or cans, thereby greatly cleaning milk utensils.

The man who hauls his whole milk to a creamery and carries the skimmed milk back gives his own time and the time of his team and wagon in making his here urged for the great value of proper breeding is no daily trip. Every addition to the load he hauls sinks excuse for a poor or week animal, simply because he is his wheels so much the deeper into the mud, or wrings the sweat so much the more freely from his horses. He must haul one load each way every day, and then individual, exhibiting in himself the typical characthe man who takes skimmed milk home from the teristics and high qualities of the breed. As this web forms it entangles and holds fast many of creamery gets a stale article, diluted with washings, the butter-fat globules. The force that skims the which may be the means of introducing into his stock which may be the means of introducing into his stock milk must be strong enough to pull the entangled fat tuberculosis or some other disease which afflicts some

Value of a Good Dairy Sire.

is half the herd. This is literally true, writes Professor such sire, and in their contrast with heifers lacking Wilber J. Fraser, Chief in Dairy Husbandry in the such parentage. University of Illinois.. That is, of the qualities bequeathed to the calves the male parent furnishes very warm weather; the other portion is left in the half. The cow influences the character of but one skimmed milk and goes to make six-cent pork or veal calf a year; the bull passes on his personality to many instead of twenty-five to thirty-five cent butter. The calves, to all the calves of a herd of ordinary size. cream that is secured will be off flavor, the butter will When he is chosen, half the character of all the calves show the effect, and stale or sour skimmed milk is not is as much as that of the whole number of cows taken we recall was over a quarter of a century ago, a tew miles south of Ingersoll, Ont. Delegates from the West-

cows—that is, able to transmit his qualities more convention then by the late Hon. Harris Lewis, of New

out, skimmed, and emptied and washed; also, the cold Now if the sire, as an individual and in his pedi-But how about the other and newer skimming force also the bull will be more than half the herd.

If the sire is kept with the same cows several years, do? You have often watched mud flying off a run- each year he starts out a generation of calves more

So the sire may be much more than half the herd, years, at slight expense, completely transform a dairy herd and more than double its profit.

A GOOD BUSINESS PROPOSITION.

One can obtain a fine dairy sire for \$150, and forty grade cows for \$45 each, or \$1,800. Then a good bull costs only one-thirteenth of the investment; or in other words, one-thirteenth of the investment is so placed as to exert more influence in the in preven ent of the future herd than the other twelve-thirteenths of the investment. Isn't that a good business pro-

Won't the extra \$100 put into a good sire be better The gradual growth of the casein web which so one animal will influence the succeeding herd more seriously interferes with gravity systems does not in- than the purchase of the other forty animals. Isn't it terfere with centrifugal force. This great force easily worth while then to give some extra time and study to

THE SIRE AND THE MILK RECORD.

In breeding for improvement, the milk record of the tire's female ancestry is of just as much in portance as that of the ancestry of the cow with which he is mated—is of more importance if the sire's ancestry has a better milk record.

And the good dairy sire, pure bred, is almost certain (2) A possible gain of one-quarter to one-third— so have a line of dams with a superior milk record; high-producing cows than are the dams of the grade cow. One of the very greatest things to secure for the heifer calf is the inheritance of a large capacity for milk production, and this comes from the mothers in both lines of ancestry.

The calf will be much more certain of getting a high degree of this quality through an improved sire than from a grade mother. A high milk record in the sire's ancestry affects all his female progeny—all the next generation in a common-sized herd. But such a

ABSOLUTELY PROVEN.

And in general as to all the good qualities that it reducing the cost and labor of handling milk and is desired to transmit, it should be clearly recognized that these may be secured far more surely from the purebred sire than from the general run of grade cows. Nothing is more certain than this. But all that is purebred. No purebred bull is fit to head a daily herd unless he is also a thoroughly good and strong

Every man who has had any extended experience or observation in the use of a good purebred sire from high-producing dams at the head of a dairy herd, will agree that this sire was of peculiar value and great economy in building up the herd. The records of dairy breeding have proven it conclusively a thousand times over. No man who studies the facts can doubt Everyone is familiar with the saying that the sire it. The evidence is to be seen in the heifers of every

A curious reader wishes to know, through the FARMER'S ADVOCATE, when, where, by whom, and of what material, the first silo in Canada was constructed? Without speaking positively, probably the earliest silo ern Ontario Dairymen's Association went out to see it, If be is of stronger prepotency than most of the and the subject of silos was discussed in the annual milk. This figures up a heavy cash loss in a year, the case with a well-bred sire—then the bull repre-hibited on the platform as a curiosity. At another Gravity entails needless work upon dairymen, sents more than half the herd. In that case more meeting held in London, Prof. E. A. Barnard, of Quetice of ensiling as carried on in France

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FIELD NOTES

Events of the Week.

CANADIAN.

It is reported that iron has been discovered in the vicinity of Roblin, Manitoba. * * *

Local option was sustained in the municipality of South Norfolk, Man., by a vote of 300 to 232. * * *

to five years in Kingston Penitentiary. * * * Premier Pugsley of New Brunswick has resigned, conditions.
and Clifford W. Robinson, provincial Secretary, Ontario Children to get Cheap School Books.

* * * The work on Government telephone lines in Alberta is going forward, most of the poles being up on the Ontario Government recently, the prices for the set her whole fiscal system in order to grant us a quid branch between Edmonton and Lloydminster.

Yorkton, Sask., expects to have one of the finest one or more, when bought direct from the publishers, and an extra 10 per cent. on quantities of \$250 worth was to decide in favor of meeting every four years, is working to that end. The dates are July 8th, 9th and upwards. and 10th.

The Alberta provincial coal mine commission is prices will be \$60,000 a year to the parents. meeting at Lethbridge to enquire into hours of in that province.

The appointment of the provincial pathologist and of readers: director of the pathological laboratory that is to be established in Alberta, has been announced. The reader, part two 7c.; old price, 15c. Second reader, appointee is Dr. D. G. Revell, a Canadian, who is at 9c.; old price, 2oc. Third reader, 13c.; old price, present pursuing post graduate work in the university 3oc. Fourth reader, 15c.; old price, 4oc. of Chicago.

The Saskatchewan Department of Education announces that the following are the centers at which candidates will write on the departmental examinations which begin at 8.35 a.m. on Tuesday, July 2: Yorkton, Moosomin, Wapella, Whitewood, Grenfell, Indian Head, Qu'Appelle, Regina, Moose Jaw, Maple Creek, Carlyle, Weyburn, Carnduff, Oxbow, Saskatoon, Prince Albert, Paswegin and Lloydminster. * * *

BRITISH AND FOREIGN.

of the British forces in South Africa.

General Overseer Voliva, Dowie's successor in all leases of Zion buildings.

have given half a million as bail in court. * * *

Terrible storms have swept over Texas again during the past week. There was some loss of life and tremendous destruction to buildings. * * *

British Isles has passed its second reading by a due in large measure to the sagacious statesmanship shown that it is not necessary to send either unanimous vote of the House.

* * * Mrs. William McKinley, wife of the late President McKinley, was stricken with paralysis and died on May 26th at Canton, Ohio. President Roosevelt attended the funeral.

for the opening of a museum to display the varied products of the British Empire, including everything own business to interfere unnecessarily in world from Canadian wheat to India carvings.

* * * France which has affected every part of the republic, and has even reached Algiers, where the men have gone out in sympathy. There is no violence or disorder, and ships in port are unmolested.

* * * assassinated. Foreigners do not seem to be the a preference to Great Britain primarily as a needed special object of attack. Troops are being rushed measure of tariff reform. Our tariff was too high. to the scene of the disorder and there has already It imposed a needless burden upon our consumers. been great loss among the rebels.

Fall Wheat in Manitoba.

The experiment of growing fall wheat in the northern part of Manitoba is being watched with considerable interest. A year ago last fall it will be remembered that Mr. A. J. Cotton of Swan River brought in a car-load of fall wheat for seed from Kansas and distributed it widely. The following winter was a hard one on fall sown crops, grasses and clovers, as every one remembers; but some fall wheat was harvested. Last winter was again pretty severe for crops in the ground and the condition of the fall wheat sown is yet rather uncertain. By the 24th of May much of it was looking brown and in need of sunshine and rain. Having since received both we expect it will be making a respectable showing. The experiment has been unusually hampered by the weather, but there is a determina-Lieut.-Gov. Dunsmuir of British Clumbia lost his tion to carry it still further and in view of the fact that vacht by fire when the party was on a trip up the the seed was brought from so far south the survival of a small percentage of plants should be encouraging. Time will be required to acclimatize a strain of fall Sir Wilfred Laurier has left England for Italy, to wheat that will be adapted to our northern climate a Swedish girl who knew no English, was sentenced the moving spuit in the experiment, is to be com-

of five readers being in all 49 cents, as compared with \$1.15 for the old issue.

In addition, 25 per cent. is allowed off all books, making no demands or threats.

book a year in the schools the saving over the old This is figured on 91,000 in the first reader, part

labor, conditions of work, cost and profit of operating one; 56,5000 first reader, part two; 75,000, second forces of the Empire, whose duty it will be reader; 81,000, third reader, and 76,000, fourth reader on defence and other military matters. The new prices are as follows for the Ontario series

Ontario readers, 49c. 'Under old price, \$1.15."—World.

compare these prices with the cost to themselves. conceivably, to rebellion, secession or disintegration. School books should we believe be uniform for all Our Imperial statesmen showed their wisdom by the Canadian provinces, and should be prepared by letting well enough alone. a Commission appointed by the various Governments.

A Successful Imperial Conference.

The Imperial Conference in London, England, has been a great success, not so much for what it accomplished as for what is left undone. This is no dission of the Dominion Dept. of Agriculture and Lord Methuen has been appointed commander paragement at all of its utility. A periodical confer- the Cattle Breeders' Association of Manitoba, ence of Colonial Premiers with representatives of the was held in the Wheat City, May 30th, under a Home Government makes for mutual understanding blue sky and in strong sunlight, so that the and if, in the present instance, there were few lookers-on, whether prospective or actual buyers misapprehensions to clear up or difficulties to remove had a good chance to see the animals to their Zion City, has been ordered by the Receiver to vacate this quite probable that the Conference will have proved useful in averting impending trouble from some unexpected quarter or other. Not knowing The millionaires and high officials of corporations when or whence difficulty will arise, it behooves the in San Francisco on trial for corrupt transactions Empire to keep in close touch each part with the the curling rink and the sale could also have been others. This is precisely what has been accom- held there had the weather been bad. The plished.

one just held is the mischievous tendency on the part of some of the assembled representatives, and of their friends at home, of thinking they must do something to make a big spread to flap their wings and crow The bill to previde a court of criminal appeal in the over. That such an eventuality was avoided, was of Canada's Premier, Sir Wilfrid Laurier. Upon the South or East for an auctioneer to sell purebred question of an Imperial Council his mind was definitely stock. In the forenoon of the thirtieth, Jas. made up, his reasoning farsighted and clear. He realizes that formal representation on a permanent Imperial Council might, through indiscreet representatives, or more probably through the decision of the majority, drag Canada and other Colonies into entanglements which they would instinctively avoid and Herefords. The British Consul at Chicago is completing plans if left free, as at present, to choose their own course; and, anyway, the Colonies are too busy minding their politics. Great Britain can count on our moral support and on our active help in time of need There is a general strike of all the shipworkers of whenever her cause commends itself to our judgment. That is enough at present. It is as close a union as is feasible. Britain keeps us with her by the very freedom she allows us. Attempt to forge links of formal union will destroy the harmony that dom. True Imperialism is a spirit—not a form.

We concluded to lower it somewhat, and, instead of Shillington, Red Deer, Alta., at \$90. Fred

simply making a sweeping general reduction in ou schedules, we cut the larger slice off imports from Britain—a move which, in many lines of goods, had the effect of compelling foreigners to meet British prices in our markets, and hence relieved our consumers and taxpayers to almost as great an extent in such cases as an all-round reduction would have done. Incidentally, the preference proved a special advantage to Great Britain, as it was desired it should

In Britain the case is different. It is doubtful whether she stands to gain by any change in fiscal policy. Any considerable tax on food imported to eed her people, would be a handicap upon the whole British people and must tend to increase the cost of living, hence the cost of manufacture and commerce. Such a tax would irrevocably raise the price of foodstuffs for a time at least, and Britain is not to be blamed for hesitating about laying the beginnings of what might eventually become a fantastic fiscal fabric. It may be argued that a slight tax on foreign foodarrange a commercial treaty between the latter country and Canada.

Colonies to a greater degree than it would nanulcap manufacture in Britain, and that such encouragement of production in the Colonies is justifiable as a preto considerably assist in getting work forward in the of production in the Colonies is justifiable as a pre-The C. P. R. pullman conductor, who assaulted spring and in getting the harvest off. Mr. Cotton, caution in the event of war shutting off supplies from other countries. That is a question for Great mended for his enterprise and pluck in persisting in Britain to decide, and while we would welcome such the growing of a crop under such adverse weather conditions.

a conclusion, it is not for us to interfere or dogmatize concerning her affairs. The British preference has paid us directly by relieving our consumers and filling our national coffers, and also indirectly by advertising Canada in the Old Country, and creating The Canada Publishing Co., Ltd., was awarded the there a favorable prejudice for our goods. It would tender for the publication of school books by the ill become us, therefore, to insist on Britain upsetting pro quo. Whatever course Britain may see fit to take in this matter, she may rest assured we are

and ask that a special department of the Colonial It is estimated that should each child purchase one ook a year in the schools the saving over the old office, called a Secretariat, be appointed to prepare material for its consideration. A resolution was passed providing for the development, for the service of the Empire, of a general staff, drawn from the forces of the Empire, whose duty it will be to advise penny postage, cheaper cable rates, and Imperial naturalization, were discussed, to more or less definite purpose. Best of all, it looks as though a result of the Conference will be the inauguration of the longlooked-for fast Atlantic steamship service between present pursuing post graduate work in the university 30c. Fourth reader, 15c.; old price, 40c.

"Total cost under new prices for complete set of service. In fact, the Conference did everything it could do that was necessary or wise, and refrained from doing that which would have entailed compli-It will be to the interest of Western parents to cations, embarrassment and friction, leading, quite

The Provincial Auction of Purebred Bulls.

The third Annual Show and Sale of purebred blue sky and in strong sunlight, so that the hearts' content. This year the sale was limited to bulls, and not quite sixty were listed. Provision had been made for stabling the cattle in arrangements were in charge of the Sale Com-The besetting danger of a Conference such as the mittee, Messrs. W. H. English, Wm. Chalmers, and Geo. Allison. Dr. Bell and Holley Simpson, the superintendent, worked tirelessly and to their efforts and that of auctioneer Norris a great deal of the success of the sale is due; in fact it has been Bray, the well-known breeder of Whitefaces, made the awards in the two classes for Angus bulls, the aged, two-year, and year-old classes for Shorthorn bulls and also for the Red Polls

Lord Houghton, an Angus bull bred by F. J Collyer, Walwyn, and exhibited by R. Curran & Sons, Emerson, was first in his class and breed champion, and later grandchampion over all breeds. He is a massive bull and brought \$180 to the bid of D. C. Parker, Morden. Bella's Pride, exhibited by Geo. Cram, Morden, was second and brought \$65 to the bid of Wm. Morrison, Mortlach, Sask. Braeside Boy and Tom of now exists, cause friction, and create a sense of thrall- Carroll were first and second respectively in the Rebellion has broken out at Wong Tung, China, In line with this view is Canada's position on the and all the civil and military officials have been question of preferential trade. The Dominion gave assassing to the control of the civil and military officials have been question of preferential trade. The Dominion gave yearling class and brought respectively \$105 and Only one Red Polled bull was exposed, and it by W. J. McComb, Beresford, and it went to Wm.

Smith, Brandon, put forward two pretty fair Hereford bulls, the get of Chapman's well-known stock and show bull Albert. Hero went to McBishop, Invermay, Sask., for \$95 and Duke at \$70 to Simon Clarke, Rounthwaite. Judge Bray placed them as the money indicates. In Shorthorns there were surprises and disappointments, and although the averages were good for what was sold, the lessons taught were plain: First, that it is little use offering for sale bulls unless over eighteen months old; second that people will not bid at all on thin, half starved or inferior stock, and third, that some breeders need to be presented with a sharp knife and emasculator, and given a lesson at altering bull calves. It's rather a hard and expensive way of learning the lesson, to come probably a hundred or more miles and to get it under the public gaze and in view of rival breeders. In the aged class for Shorthorn bulls, Wm. Chalmers was first and breed champion and reserve for grand champion, with Strathallan Beau, a sappy, level, thick roan that brought \$190 to the bid of Ab. Hood, Oak Lake. Glendale Marquis, a white, fair, good bull, mellow and fairly deep, was second and brought \$80 to Mr. Graham of the Indian Dept. In two-year-olds, Chalmers Minister of the Inter ior, a good-looking roan, a little bit up and hardly so smooth as might be in the hips, was first. Robt. Milliken, Pipestone, took him at \$220. Andrew Graham's Red Prince was second; he brought \$150 to the bid of Robt. Rogers, Elkhorn. Red Gaiety was lucky to get third; he brought \$175, Jas. Shields taking him at that figure. Many fancied George Allison's Killerby for third, a mellow, meaty chap, not so plain in the head, as well having more covering over the loin and a greater width through the heart, but the figures, \$160, backed the judge, so the point must be conceded, as money talks. Bob Lang got to the front in year-olds, with Reformer, a deep, well-covered, mellow-handling bull, but rather small and also being a shade light in the bone, \$150 was the figure for which he went to J. Durnin, Brandon. Andrew Graham was second with Red Prince and parted with him for \$150 to R. Rogers, Elkhorn. Several (eleven) bulls were brought in, but lacking the initial bid (of \$50, were sent out of the ring unsold. The following figures and averages tell the

Two Herefords 82.50 165 3425 '' Thirty-four Shorthorns" 100.70 Creelman..... August 13 especially when the attendance was considered, which was not large, due largely to farmers being busy at the seeding. The bids of the Indian Department helped the sale materially. Messrs. Shortage, inquired pertinently, "What is a freight marlatt and Graham took out 17 bulls at an car?" the inference being that he had not recently got good value for their money, besides helping received the following contributed information: the sale would be carried on annually and as being near railroad tracks, and it is easy prey to capwell advising breeders that it was no use bringing ture. In autumn, however, like certain other fowl, it skins to put up at auction. At an executive goes into hibernation, or flies away to other climes. meeting held just before the sale, the Cattle Scattered incidents are known where specimens are ing for sale of cattle by breeders from other a freight car, but main strength is the best weapon. Canadian provinces.

90

Four Angus bulls brought..\$420, average

\$105.

00.00

balance of the story:

One Red Polled "

Things to Remember.

Shorthorn Cattle Sale, Hon. Thos.
Greenway, Crystal City June 13
Winnipeg Horse Show June 13, 14 and 15
Shorthorn Sale, A. & G. Mutch, Regina
Exhibition GroundsJune 26
Calgary Exhibition July 0, 10, 11 and 12
Portage la Prairie Exhibition. July 9, 10, and 11
Hackney Sale, Rawlinson Bros., Cal-
gary July
Winnipeg Exhibition Inly 12 to 20

					-		-					2	1	
Winnipeg Exhibition	n									. Ju	y 13	to	20	>
Brandon Fair										July	22	to	26)
Regina Exhibition						J	U	1	y	30,	Aug	ust	2	è

Manitoba Summer and Fall Shows.	
Glenboro	1
Springheld July 3 and	4
Wawanesa July; and	4
Morris July 3 and Neepawa July 3 and July 3 and	-1
Neepawa July 3 and	4
Carman ulv 4 and	5
Miami July Emerson July 8 and Birtle July 8 and	()
Emerson laly 8 and	9
Birtle aly 8 and	9
Elkhorn July Portage Industrial Exhibition Ass'n July 9-1	9
Portage Industrial Exhibition Ass n July 9-1	I
MinnedosaJuly 0, 10 and 1	Ι
Ct Diame	0

Sw Da Gl Gl St Ma Sh Sh Sh Ma H	press River	August 1Aug. 6August 6August 6August 6August 7Aug. 8August 8August 8August 8August 8August 8August 8August 9
9 11	Alberta Fairs.	

2202142
ALBERTA FAIRS.
Edmonton July 1-2-3-4 Innislail July 4 and 5 Calgary July 9-10-11-12 Okotoks July 16 and 17 High River July 18 and 19 Red Deer July 22 and 23 Strathcona July 24 Fort Saskatchewan July 26 Macleod July 31, Aug. 1-2 Lethbridge Aug. 6,7 and 8 Leduc Aug. 8 and 9
C · Fire

MacleodJuly 31, Aug. 1-2	-
Lethbridge Aug. 6,7 and 8	7
Leduc Aug. 8 and 9	1
SASKATCHEWAN FAIRS.	1
	C
BattlefordJuly 24, 25 and 26]
Honley July 30	(
Prince Albert August 1 and 2	7
SaskatoonAugust 0, 7 and o	1
Rosthern August 8 and 9	5
Indian HeadAugust 13 and 14	٦
Ft. Qu'AppelleJuly 31	1
SintalutaAugust 2	
Moogomin August 6 and 7	1
Grenfell August 8	
Wapella August 9	1
FairmedeAugust 13	
Broadview	
WolseleyAugust 15	
YorktonJuly 9 and 10	
Saltcoats July 23	
Churchbridge July 25	
Churchbridge July 25 Dubuc July 26	
Strassburg July 30	
Abernethy	
Carlyle August 6	
ArcolaAugust 8	
Gainsboro August 9	
CarnduffAugust 13	
Oxbow	
Alameda August 15	
Alameda	
Milestone August 2	
Moose Jaw August 6 and 7	
S. Qu'ÀppelleAugust 8 and 9	
Coolman	

A Rara Avis.

over \$82, and taken all in all seen one. The office repeated the inquiry, and

the sale. Auctioneer closed the proceedings by thanking all for their attendance, stating that nearly every part of the country, its favorite haunt nearly every part of the country, its favorite haunt Breeders' Association expressed itself in favor captured during the autumn months. A lasso or a of removing the present restrictions on the offer- well-greased switch-crew is sometimes used in snaring In any case, the hunter must be very wary, as any noise, like the fluttering of a way-bill, will make the quarry disappear.

"Some railways own large flocks of domesticated freight cars, but they are carefully guarded during the closed season. The wild freight car, when caught 5 and fairly loaded up, becomes perfectly stationary.

MARKET

Where the market was not actually bearish last their money two weeks previously and had thrust

The sudden upshoot of the market two weeks ago and the maintenance of prices at the level which they reached after speculative buying ceased, furnishes ground for cogitation. Everyone realized at the o time that it was not because millers were in need of wheat that prices went up, but simply because the public came clamoring for higher prices, and having July o, 10 and 11 got them having no further use for them, it would be July 10 expected that they would decline, but the market rough 5.85 (a 6 00).

situation shows that expectation is just ahead of actual needs and that prices would gradually come to their present level without the speculative storm. The demand from millers and exporters is now holding firm and values are upon an export basis.

The movement of wheat from country points continues heavy and it is expected that now seeding is well over there will be much more go forward. This in turn taking place all over the wheat belt may cause a sag in prices on June shipments. Seeding probably never was so rapidly accomplished as this year after a real start was made, and the warming up of the earth should hurry growth considerably.

At last week end Thompson, Sons & Co., reported

"The spring wheat crop situation over the Dakotas, Minnesota and Western Canada shows fair improvement during the past week. In regard to the extent of the acreage this year, a recent estimate made by a reliable authority puts the decrease in the three Northwest states at 12% under last year's acreage. There is a conflict of opinions as regards the acreage planted in the Caradian West, some maintaining that there will be no decrease owing to the fact that a great deal of new land prepared last year will be in crop for the first time, and that seed time although four to five weeks late has been latterly very favorable for getting the work done in good shape and without any loss of time. This must certainly have led to a larger wheat acreage than was anticipated and although our own opinion is that there will probably be a decrease of around 10% owing to many conservative farmers having decided to lessen their wheat acreage and increase oats and barley, we do not feel positive about it at present writing. The start, however, is the very latest on record, and it will require record weather during the next 3 months to produce better than moderate results. Our Winnipeg market has been firm during the week with moderate fluctuations

Prices are practically on export basis and there is a considerable quantity of the old crop still to dispose of. Prices are 1 Nor. 91½c., 2 Nor. 88½c., 3 Nor. 84¾c., spot or en route. Futures, May 91½c., July 93¾c., October 94¾c. All prices are for in store Ft.

93\fc., October 94\fc. All prices are	tor :	ın store	Ft.
Wm. & Pt. Arthur."			
Oats	*		
Barley			
Flax	32	20.)	
	(1()	25.)	
MILLFEED, NET, PER TON-			
Bran			
Shorts18	-50		
CHOPPED FEEDS—			
Barley and oats24			
Barley22.00			
Oats26	.00		
HAY, per ton (cars on track, Winni-			
· peg)17	.00		
Loose loads	.00		
Green Vegetables—			
Potatoes, in cars or small lots,			
less freight, track Winnipeg	85	(a)	95
Butter-			
Fancy, fresh made bricks	28		
Second grade bricks	24	(a)	25
Dairy, extra fancy	23	(a)	24
Prints, fancy, in small lots		(a)	22
Dairy, in tubs	IQ	(a)	20
Cheese—			
Manitoba new at Winnipeg	12	(a)	$12\frac{1}{2}$
Eggs-			
Manitoda fresh gathered, f.o.b.			
Winnineg	17	$\frac{1}{2}$ (a)	181
Poultry (cold storage stock)—	- /		_
Spring chickens	15	(a)	16
Spring ducks	16		
Fowl	12		
Young turkeys	18		
Geese	14		
LIVE CROCK	- 4		

LIVE STOCK. There is a stronger feeling in the cattle markets and prices are actually increased. The wholesale price of meats has also increased indicating that a shortage of butchers' stock is anticipated. Best butchers steers sold up to $5\frac{1}{2}$ c. per lb. live off cars and down to $3\frac{1}{2}$ c. for heifers. Cows bring $2c\frac{1}{2}$. to 3c., and bulls as low as $2\frac{1}{4}$ c. Sheep are $6\frac{1}{2}$ c., to 7c., and lambs

Hogs are still 7.75 down to 6.75 for rough lots. TORONTO.

Prices advanced in rather a sensational manner and holders of cattle secured from 20c. to 40c. per hundred more than they would have done a week ago. The supply was entirely inadequate for the demand and numerous buyers were unable to fill their orders, A feature of the market was the large number of week it was cautious. The great mass of the public buyers from outside points, particularly from the who had rushed into the speculative markets with vicinity of Montreal. Butchers simply crowded buyers out of the market. Best cattle brought \$5.10 the price up 20 cents were last week content to watch to \$5.50, with \$5.80 for one choice steer. Ordinary the fried of things, so that dealers began to wear a stock \$4.50 to \$4.75. Stocker and feeder trade more normal expression.

Stock \$4.75. Stocker and feeder trade was very quiet. Cattle of 700 to 900 lbs. sold fairly well, but lighter stuff was not wanted. Export sheep \$4.00 to \$5.50; spring lambs each \$3.00 to \$6.00;

CHICAGO. Cattle,-Beeves 4.50 @ 6.55; cows and heifers

1.75 (d 3.50); Texas steers 4.25 @ 4.75; stockers and leaders 3.00 (d 5.15; western cattle 4.25 @ 5.15. Hegs, light 6.10 (a 6.35; heavy 5.65 @ 6.22½;

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FOUNDED 1866

just ahead of radually come ulative storm. s is now holdt basis.

ry points connow seeding is orward. This elt may cause Seeding prob-1 as this year arming up of erably.

Co., reported

the Dakotas, fair improveto the extent te made by a in the three ear's acreage. s the acreage maintaining the fact that year will be me although very favori shape and rtainly have anticipated t there will ring to many lessen their irley, we do riting. The cord, and it xt 3 months esults. Our e week with

and there still to dis-8½c., 3 Nor. 91½c., July in store Ft.

: markets esale price shortage butchers and down and bulls nd lambs

ough lots.

manner) 40c. per week ago. demand ir orders, imber of from the crowded ht \$5.10 Ordinary er trade old fairly ort sheep

heifers stockers @ 5.15. 6.221;

0 \$6.00;

HOME JOURNAL



Life, Literature and Education

IN THE WORLD OF LITERATURE AND ART.

Novels in England are being reduced in price. Several firms are putting them out at three and sixpence and four shillings.

The corner stone of the Alberta Normal

"Graham of Claverhouse" is the title of the Viscount of Dundee.

Napoleon wrote a shockingly bad hand, and so illegible were his letters that those written to the Empress Josephine were thought to be rough maps of battle grounds. * * *

Sir Joseph Frayer, physician extraordinary to the King of England, is dead. He had seen much military service with medical corps, and medical subjects.

It is likely that the operation of the consolidated school at Guelph, Ont., formed by the union of six school sections, will be discontinued when the three-year agreement terminates. Financial difficulties seem to be the cause of the failure.

The suggestion that American magazines be sent into Canada by freight or express and mailed on this side at the same rate as domestic matter has not been entertained by the Canadian postal authorities, as it would entail too great a strain It is some time since women as individuals. There is no country in the world in which the

world celebrated on May 23rd the two hundredth marked the limits of female pursuits. Now anniversary of the birth of Carl von Linne, the almost every known occupation is open and a famous Swedish botanist. He is known to his few hitherto unknown have been developed compatriots as the "Flower King," from his by feminine brains. The recompense for woman's loving, earnest study of plants and flowers. * * *

by the Italian sculptor, Tentana, is to be erected in honor of Shelley, the English poet, near San The New York women school teachers are at Terenzo, Italy. The idea is from Shelley's 'Prometheus Unbound' and displays the figure present in the midst of an exciting campaign of the Titan grasping the lightning in his hand that they hope will result in giving them salaries and writing with it upon the rock the words, "To Shelley from the World Unbound". Since, in the primary departments at least, "To Shelley from the World Unbound."

* * * 'Resistance Inutile'' 62,100, 'Dites Donc' done. Girl's Head," by Watteau, in black crayon and scientists and mechanics, doctors and navigators, sanguine, sold for 55,000 francs. Vigee Lebrun's but only the individual woman had accomplished that in all ages there are men who can be reached Gouaches for 13,000 and 30,000 francs, respect- made themselves felt in the affairs of the world. but only through their skins. To this class

The grave in which Dr. Drummond is buried North of Ireland models from St. Columbias at of mothers has had its beginning. the ancient Iona island. Below the four-foot span, intricately carved, will be a symbolic School being built at Calgary, was laid by Lieutenant-Governor Bulyea.

* * * * Square of entangled stags, lokes and blids of the air, and sheep or hounds. The inscription at the base is Drummond's line from "Child Thoughts," "The shadows past, I see the light square of entangled stags, foxes and birds of the Oh, morning light, so clear and strong.

> Antrim," by Moira O'Neil, was selected for a Simon" and thereby wins to the cause the greatlower headstone, and this is what it is:

"Youth's for an hour, Beauty's a flower, But love is the jewel that wins the world."

WOMEN AS A FORCE IN NATIONAL AFFAIRS.

Civilized masculinity has always prided itself on the position of respect and honor it has member takes is to pray and to serve—to serve was the author of many valuable works on accorded to its womankind and the ardor with those nearest, whom the preacher cannot reachall her attempts to put off swaddling clothes rather than to masses of humanity. It is a and to look after some of her own interests, have lesson the whole Church needs to learn, that in their first stages at least been frowned down and opposed by man in his capacity of guardian.

knowledge—in the schools, by travel and through employer's house. As one of the Brotherhood that augmented power. Like that Roman sold- purse, but one's person, not to try to save men ier of whom we learned in the school reader, by proxy, but by proximity." women have resolved to 'find a way or make it, and they are quite capable of doing either, without man's help and in spite of his opposition. invaded commercial life and extended their honor of its womanhood is better protected by activities beyond the bounds of domestic service Swedish people in Canada and all over the and the instruction of youth, which had so long services in occupations held in common with man has been a much disputed question, the A large monument designed and executed daughters of Eve holding that equal service demands equal pay and their brothers advancing women can do better work than men in this occupation, it does not seem reasonable that At the sale of the Mulhbacher collection Fra- they should receive less than the others, if gonard's "Jeune Homme" brought 40,500 francs, wages are to be in any proportion to the work

24,500, and "Bad News" 30,500, "A Young There have been women preachers and lawyers, XI. (1303), which were found buried with him ballot, but also the right to a seat in the national in the historic church of San Domenico here. assembly. And in the never-ending struggle for attempt.

liberty in that country the women play no mean part, the more effective because unhindered by the party politics with which the men become entangled. In 1894 various German women's organizations were consolidated into one league. the object of which was the development of women to take their part in advancing civilization in their own country. Since then German universities have been opened to them, a league will be marked by a Celtic cross of grey sandstone. for women's suffrage has been established, and The cross in circle is copied after authentic very recently a society for the better protection

THE BROTHERHOOD OF ST. ANDREW.

All that the Bible tells us of Andrew could be put into very small space indeed. Nothing especially brilliant is related of him, and his career seems to have been commonplace enough. last book completed by Ian Maclaren before Another fragment, not the doctor's, but taken But his was the first call to follow the Master his death. The hero of the story is John Graham, from his favorite Irish "Songs of the Glens of and having obeyed, "the findeth his own brother est preacher of Apostolic times and the most influential in the spreading of the Gospel. But it was quiet, ungifted Andrew who brought him.

When we say that the Brotherhood of St. Andrew is a body of laymen in the Anglican church whose aim is to follow the example of him whose name their organization bears, no more explanation is needed. The only pledge a which it has fought some of her battles. But to seek to present Christianity to individuals Christian service is no more confined to going to church on Sunday than commercial service But with increasing opportunities to acquire is confined to eating three meals a day in your books—feminine character has broadened and said in speaking at the recent conference in strengthened and naturally seeks an outlet for Winnipeg: "What is needed is not to give one's

A CASE FOR THE WHIP.

ublic sentiment than Canada, but occasionally the whole land is shocked and horrified over the tidings of violence done to a woman within our borders. Not very often as compared with lesser crimes, but once in a century is too often to be endured without protest. Just the other day a bright young Western girl gave her life in defence of her honor when attacked by a brute in human form. Since he killed her (and taking her life was a kindness under the circumstances) the gallows will probably be his fate, but if she had lived, a sentence covering a few months or years would have been the extent of his punishment, during which time he would be fed and clothed by the Government and surrounded by companions of his own moral calibre—an utterly inadequate punishment for a crime far worse than murder.

The most effective deterrent of this particular criminal offence is the lash. That may sound barbarous and ill-fitted to the civilization of the twentieth century, but the fact remains own portrait sold for 23,000 francs, and two things. As a body, a united force, they had not through no appeal to honor or pride or purity, That was left in abeyance, but now is becoming a belong the assaulters of women. The sure leading question in some of the most progressive and certain knowledge that the offender, if con-King Victor Emmanuel inaugurated, in the countries in the world, and a question to which victed, will be made to suffer physical pain of municipal palace at Perugia, (a large and beautiful thoughtful people are giving heed. There is a a most severe nature, forms a restraining influence edifice built in 1271) a most complete exposition strong, steady current underneath the foam of considerable power. At present, whipping of ancient Umbrian art arranged chronologically, of "suffragettes" and shrieking sisterhoods, for the crime of assault is occasionally imposed and comprising a thousand pictures and thous- The novelty of casting a vote is a thing of the by Canadian judges, but this sentence is the ands of other objects, including sculpture, past to the women of New Zealand. In Finland exception rather than the rule. The law should miniatures, jewellery, arms, porcelains and pottery. nineteen of the chosen deputies of the Diet, or be amended to make the lash with imprisonment One of the most interesting exhibits was the Parliament, are women, the universal suffrage with hard labor the inevitable penalty for pontificial robes which belonged to Pope Benedict act of 1906 not only giving them the right to the attempted assault, with a larger dose of the

I NEED BE NO FAILURE.

We glory in tribulation also: knowing that tribulation worketh patience; and patience, experience; and experience, hope.-Rom., v. 3, 4.

"Speak, History, who are life's victors?

but a triumphant gladness which is

on one level to start with. An emperor has to answer before the bar of his own conscience as humbly as the poorest laborer, and all the wealth in the world can never give him peace of mind if he is condemned by that stern judge. Neither can any poor man hope to pass unnoticed in the crowd, because he is for pride or conceit or looking down on other people, and yet we are so great that each thought of our secret hearts, each word that slips so carelessly from our lips, is a matter of deepest consequence to the Eternal and Infinite God. This being so, we should take ourselves and our lives very seriously. The common saying: "It will be all the same a hundred years hence!" is absolutely untrue, for the results of every action are eternal, and that fact makes the most commonplace lives inspiring and awful.

There are breaks in the quiet monotony of most lives, times of visible success, and other times of heartbreaking failure. Take our Lord's life for an example. There were the quiet years in the worship of Nazareth which must have been very trying in their monotony to the eager, boyish heart, longing to do some great thing for the good of the world. Then there were the days of outward success, when the young Messiah went from place to place with His enthusiastic followers, carrying a blessing everywhere to sick souls and bodies, feeling that he was laying out His manhood to good purpose. Then came the dark days of apparent failure, when friends deserted and turned against Him, when all His teaching seemed to have been thrown away, and His work on earth seemed wasted in total wreck and failure. Vhat can we think that defeating of hopes and plans? Would that young life that was lived so intensely have been a failure if it had not been for the great victory of the Resurrection? No! a thousand times No! The hopes and plans might suffer defeat, and the loving heart be broken by the crushing weight of sorrow, but the Man Himself was a Victor long before the dawn of Easter Day.

And real success or failure is in our own hands always. We cannot control discouragement, even though we may have struggled and prayed our hardest, and yet failed to secure what we were not doing the best possible with the hands of Satan and will certainly bear fighting for. As Christ was a Conqueror talents committed to him. No one can its bitter fruit. "God is not mocked:

A nurse who strains all her powers in

THE QUIET HOUR

pursuit of riches, and succeed in becom-

pass the gate of death

Are they those whom the world called the victors who won the success of a day?

The martyrs, or Nero? the Spartans who fell at Thermopyle's tryst, or Socrates? Pilate or Christ?

God holds out a crown of glory to the victor in life's struggles; not a wreath of earthly fame which can never satisfy the heart and which will fade in a few years, who works first of the properties of the struggles and which will fade in a few years, who works have and which will fade in a few years, who works for the properties of the experience gained then. That is, if he refuses to be discouraged, but struggles patiently on. The author whose MSS are "returned with thanks," may learn lessons through this disword of the struggles who works for the properties of the experience gained then. That is, if he refuses to be discouraged, but struggles patiently on. The author whose MSS are "returned with thanks," may learn lessons through this disword of the struggles when everything seems to be going to the struggles and thank and thank god that you can stand beside Him under, but lift up your head and thank god that you can stand beside Him under, but lift up your head and thank god that you can stand beside Him under, but lift up your head and thank god that you can stand beside Him under, but lift up your head and thank god that you can stand beside Him under, but lift up your head and thank god that you can stand beside Him under, but lift up your head and thank god that you can stand beside Him under, but lift up your head and thank god that you can stand beside Him un

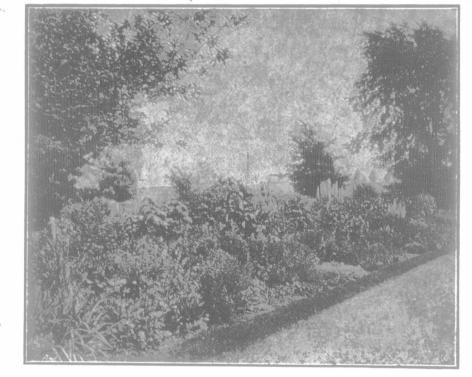
death, is a terrible waste of rich material pleased if we are steadily growing more being is small and yet great. We are so small that we should have no room for wide or constitute or so small that we should have no room all that her been so small that we should have no room all that her been so small that her been so small that we should have no room all that her been so small that her been so small that her been so small that we should have no room all that her been so small that her been so small that we should have no room all that her been so small that we should have no room all that her been so small that we should have no room all that her been so small that we should have no room all that we should have no room all that we should have no room all that her been so small that we should have no room all that we should have no room all that her been so small that we should have no room all that her been so small that we should have no room all that we should have no room all that her been so small that we should have no room all that her been so small that we should have no room all that we should have no room all that her been so small that we should have no room all that her been so small that we should have no room all that her been so small that we should have no room all that her been so small that we should have no room all that the should have no room all that her been so small that the should have no room all the sh to enter the new life a bankrupt, for selves—and the two things do not necall that has been so carefully heaped up essarily go together at the beginning.

must be left behind. Those who have When I say "at the beginning," I mean laid up no treasure in heaven must go on this side of death, for death marks off Oh! cheer them by kindness before they forward naked and beggared when they a very short space of our life. It is cer tainly true that every man shall reap th

may learn lessons through this discouraging failure, which will make his later writings a real success. While, if most brightly when it is held up bravely he had succeeded easily at first, he against a dark background; the glory of well worth fighting for.

In spite of the apparent inequalities of life, it is a wonderful fact that as regards the greatest things we all stand regards the greatest things we all stand reasy, shallow fashion and never have made the most of his powers. A man of all the pomps and vanities of the may work hard all his life in the eager world. We are so apt to fancy that God's puring a multi-millionaire. Is he, therefore, a success? Surely not! To devote
filled if we succeed in doing some grand
the glorious gift of life to the heaping
up of wealth that must be left behind at
mankind. But surely God is far more
death is a terrible wester of rich metarial

Let us look at ourselves and our lives harvest of good or evil that he h



A PERENNIAL BORDER ALONG A DRIVEWAY.

praised by his world, one who wins easy And we can well afford to wait.

the attempt to save the life of a patient which we are capable, not so much for Divine Conqueror, and to be sure of is no failure, even though the patient may die. But a nurse who is selfish sake. The soul of each son of God is "Well Done!" will not necessarily be and careless is a failure, even though infinitely precious in the eyes of the given to those who have successfully her patient may recover. A farmer Father, and He is polishing it and mak- carried out great and world-wide who has to contend with bad weather ing it beautiful with wonderful patience schemes for good, but belongs to those, and poor soil may work hard, and yet and infinite wisdom. If you fail to and to those alone, who have been good have scanty crops; while another man carry out your plans, the plans for and faithful servants. No matter what may succeed far better and yet have which you have earnestly worked and your position may be, nor how cramped put much less time and thought and prayed, do not think that you are a conscience into his work. In such a failure, God can accomplish His good chance of winning that glorious comcase the latter is the real failure. This purposes for the improving of the cir-mendation as anyone in this boundless is only the beginning of our life, and cumstances of the human race without universe. No one can make you a the only lasting wealth is character, really needing any help from your weak failure—no one but yourself—for faith-full fulness is always success, and you can be by the brave and patient acceptance of defeat, then the apparent loss is real gain. The seed that sinks into the with Him. If you are forced to encountries that sinks into the with Him. If you are forced to encountries the seed that sinks into the with Him. If you are forced to encountries the seed that sinks into the with Him. If you are forced to encountries the seed that sinks into the with Him. If you are forced to encountries the seed that sinks into the with Him. If you are forced to encountries the seed that sinks into the with Him. If you are forced to encountries the seed that sinks into the with Him. If you are forced to encountries the seed that sinks into the with Him. If you are forced to encountries the seed that sinks into the with Him. If you are forced to encountries the seed that sinks into the with Him. If you are forced to encountries the seed that sinks into the with Him. If you are forced to encountries the seed that sinks into the with Him. If you are forced to encountries the seed that sinks into the with Him. If you are forced to encountries the seed that sinks into the with Him. If you are forced to encountries the seed that sinks into the with Him. If you are forced to encountries the seed that sinks into the seed that sinks ground and decays that a new and ter disappointment and failure, do not will give thee a crown of life.

through God's eyes; then we may under- sowed; but, the better the harvest is, stand that one who is admired and the longer he may have to wait for it. success in everything he undertakes, if need be, to wait until we see things may really be a saddening failure. He as they really are in the clearer light need not be, but he may be. If he beyond the veil of death—for we have all should rest on his oars, thinking he has eternity to enjoy the harvest. All good no need to struggle and work and pray, work is put into God's hands, and He circumstances, but there is no need for because unearned and undeserved will never let it fail in the long run, rewards are showered upon him, then though it may appear to fail at first. he is certainly a failure, because he is And all bad work is playing into the in the midst of shame and disgrace, so be a success in God's eyes if he is allow- for whatsoever a man soweth, that ing himself to drift easily along with shall he also reap." To do wrong is to be sure of failure, while to do right is to God wants us to do the best work of place one's self in the army of the your circumstances, you have as good a

SPEAK GENTLY.

Speak gently, dear heart, though often your days

Seem freighted with burden of care; Though sometimes the fret and the

friction of life Seem more than your spirit can bear. Never yet have I known an impatience to avail

In making a burden grow less. Never yet have I known a harsh word in tone, The life of another to bless.

Speak gently to those who are dear to your heart,

Those whose love you have put to the For wounds are more painful and harder

When given by those we love best. And remember, your words when once

uttered, dear heart, You can never, no never recall; For away on a mission of evil or good, They speed the same moment they fall.

God and the right, Never harshly or angrily speak.

Speak gently to those who are aged and *And spent with the toils of the way.

Win their blessing, dear heart, while you may.

sa Speak gently, for why should the power of speech,

God-given, our fellows to bless, Be used as a weapon to sting, and estrange Sometimes e'en the hearts we love

best. Oh, this life is too short for a single harsh word,

For unkindness in deed or in thought; Be gentle, be patient, be kindly, for vain Are regrets when the evil is wrought.

When we stand one day at God's judgment seat, And the books are opened there, Our words will come back to us blessing-

crowned, Or a sad condemnation bear. Then guard your hearts with a jealous

Bear it oft to the Master's feet. If the fountain be pure, the stream, dear

Cannot be aught else but sweet. CARRIE HAYWARD.

IN JUNE.

Some glad thing comes to me Always in June, Some new joy gladly sets To a sweet tune. Is it that earth so thrills With bud and bloom, That the sad heart of life Lets go its gloom? Some dear long-absent face Answers some prayers, Or maybe just a token That some one cares. Far back in earth's grey dawn Before God's words Had crystallized in suns, Or stars had heard That clear, creative call 'Let there be light

On all my works below For day and night''— When first earth's wrinkled face Saw the white moon Gleam on unfinished work, There was no June,-But as the thoughts of God Shewed perfect spheres, We think He called up June To gem the years! When we are inward drawn To God's dear heart, And the white silence falls As we depart, And the new air seems filled

With some rare tune, How sweet our last earth-look If it were June!

IRENE ELDER MORTON.

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JUNE 5, 1907

THE LATCH STRING OUT FOR THE BACHELORS.

In the issue of April 17th, the question of admitting men to the Ingle Nook was submitted to the members. That is six weeks ago and up to date not a voice has been raised to advocate the closed door. On the contrary many have expressed their willingness and their pleasure in agreeing to admit anyone, male or female, who wishes either to give or receive help along homemaking lines. Therefore, bachelors, Then melt in the above solution the bar be ye married or single, it is with great Ingle Nook! You are not such a feeble them thoroughly. When the soap is and done in mustard. I enjoy your would be only too glad to answer. It is a pickle inflicted up line the young girls would write to me. It is a pickle inflicted up line the young girls would write to me. It is a pickle inflicted up line the young girls would write to me. It is a pickle inflicted up line the young girls would write to me. It is a pickle inflicted up line the young girls would write to me. It is a pickle inflicted up line the young girls would write to me. It is a pickle inflicted up line the young girls would write to me. It is a pickle inflicted up line the young girls would write to me. It is a pickle inflicted up line the young girls would write to me. It is a pickle inflicted up line to girls would write to me. It is a pickle inflicted up line to girls would write to me. It is a pickle inflicted up line to girls would write to me. It is a pickle inflicted up line to girls would write to me. It is a pickle inflicted up line to girls would write to me. It is a pickle inflicted up line to girls would write to me. It is a pickle inflicted up line to girls would write to me. It is a pickle inflicted up line to girls would write to me. It is a pickle inflicted up line to girls would write to me. It is a pickle inflicted up line to girls would write to me. It is a pickle inflicted up line to girls would write to me. It is a pickle inflicted up line to girls would write to me. It is a pickle inflicted up line to girls would write to me. It is a pickle inflicted up line to girls would be only too glad to answer. It is a pickle inflicted up line to girls would write to me. It is a pickle inflicted up line to girls would write to me. It is a pickle inflicted up line to girls would write to me. It is a pickle inflicted up line to girls would write to me. It is a pickle inflicted up line to girls would write to me. It is a pickle inflicted up line to girls would write to me. It is a pickle inflicted up line to girls would write to me good men and true—and we hope you fire and let it stand about an hour; then help to it. will double that number before the pour it into tin pails, butter or lard end of the year.

DAME DURDEN.

enough, until I noticed one week you Well, that settled the question. So I typically American dish—Boston Baked tard, two teaspoons tumeric and half a think I will send two views and if you beans. Pick over and wash a cup cup of flour. Stir this into the pickle would like more it will give me great of white beans. Soak over night. year, when I came to Canada to my water kept on to prevent burning— water. Let boil for 20 minutes and drain again. In the preserving kettle did. She seems to be lucky, being beans are done there should be little put two cups vinegar, one and a half able to get to a church sometimes. if any watery fluid. If there is drain pounds light brown sugar, a quarter than fifty miles to get to a church sometimes. We are more than fifty miles from a it off. church, so have not been able to go to place the pork in the center and sprinkle teaspoon cayenne pepper. Add to one since we were married nearly a over the top of the beans two-thirds this the tomato; cook 15 minutes; then year back. But although we cannot cup sugar and then one-third cup vin- seal in small glass jars. get to church I am very happy in this egar. Do not stir. Place in a moderate I owe you an apology for keeping lovely country. The winter has been oven and bake about one-half hour or you waiting so long, but when your a bad one for my first, but I hope we until top is nicely browned. Serve in letter came in first there were so many will not have many winters like it. It seems very like spring now to hear the frogs croak, croak, day and night. I hope I have not taken too much of your valuable time and space. May I come again with more views? I wonder would you send the views back when you have finished with them. for they are very precious to me; I have spent many happy hours in one of those dear old cottage

GLOS.'SHIRE LASSIE.

(The towns I have heard my father and mother mention most frequently are Cirencester, Cheltenham and Straiton. Do you know any of them? Sometime I hope to visit those places, and am going to keep on hoping, though the realization does not seem very near We are using the view of the cottages you sent and would be glad to see what others you have. The photos are better than the colored views for reproducing. I shall try to get them all returned to you safely. Did you get that catalog yet? We called up the firm you mentioned and they said one had been sent, but they would send another at onec. Let us know if you got it, will you?-D. D.)

OUR "NEW YORK" LETTER.

Nook appeals to me as a place where a fire to make tea." we all drop in once a week to have a tea occasionally? Make a pot of strong friendly cup of tea. And how we do tea at noon. Pour into a pitcher and enjoy that tea! Sometimes Dame Durput in the cellar (or the coolest place den has nothing at all to say. Then I always feel as though the tea were not sufficient cold water to make desired properly drawn or flavored or some-quantity, slice a lemon or half a lemon thing. I was going to say" omitted into it and sweeten to taste. We altogether," but I know our hostess never use cream in iced(?) tea. would never be so inhospitable.

and can fully appreciate her state of one of them will carry her off one of Marmor Cake.—White part: one mind—and body. And tell "Helmet these days and we will lose her alto-quarter cup butter, one cup sugar, oneof Resolution" to cheer up, because altogether. - Auf Wiedersehen. there is a washing machine in course of construction which I understand is placed in the boiler with the clothes. As the water warms the heat operates the machine and the clothes are clean and ready to rinse when taken from the boiler. In the meantime may I suggest the use of a home-made soap that is easily prepared and has the dual advantage of being economical and exceedingly good. Soap.—7½ lbs. sal. soda, I oz borax, I to 2 oz. Glauber's salts,

THE FARMER'S ADVOCATE

INGLE NOOK CHATS

8 lbs. good yellow bar soap. Directions; the last sentence. There is no immed-Dissolve the sal sona, borax and late danger.—D. D.) Glauber's salts in 4½ gals, soft water; dissolve until not a lump remains. firkins.

pleasure to send some, for I have lots. In the morning add a piece of salt fat

VARIOUS RELISHES.

soap. Cut the soap in very thin slices, your numerous writers tell me how do them good. pleasure we welcome you with open that it may dissolve quicker. Keep "relish," as the manufacturers call it, May I come again? I wish some arms (metaphorically speaking) to the stirring while dissolving so as to mix is made? It is a pickle minced up fine the young girls would write to me.

MEDINA

(Relish No. 1.—Chop fine 3 pints Remarks:—A common wash boiler green tomatoes and I pint onions. GLIMPSES OF THE OLD LAND.

Dear Dame Durden:—I am coming again to visit you, and am bringing settle it. The above recipe will make a colander. Cook tomatoes and or cook to tow to tow to tow to tow to tow to toward. some Old Country views. I have onen 50 lbs. If exposed in a warm place it soft. Then add one head of cooked longed to send some views for your will dry up more than other soaps; it cauliflower and two green peppers paper, but did not feel quite brave is therefore best to keep it in the cellar. chopped fine, one quart vinegar and I wonder whether some of our Eng- one-half cup sugar. Mix smooth with said your people came from Glos. shire. lish friends would care to try that a little vinegar two tablespoons mus-

Relish No. 2.—Chop fine half a peck Will colored views do as well as photo pork (a cube about size of a teacup), of green torratces, three onions and two views? I wonder what part of Glou- and put the beans on to cook. Let heads of celery; sprinkle with salt and cestershire your people came from? boil gently 2 or 3 hours, or until beans let stand over night, draining in the I have lived in different parts of that are tender, but not soft enough to fall morning through a colander. Then country nearly all my life until last apart. There must be just sufficient add a pint of vinegar and a quart of Now put beans in an agate dish, pound white mustard seed, one-eighth

cake, or else line a deep cake tin with buttered paper and put them all together by adding a tablespoon of one and then of the others until all the batter is used up.

I am a great lover of flowers and have quite a few pretty ones. Sometimes I bath them in soap-suds to keep the little bugs off and find it a very good method. We have large flower and vegetable gardens in summer. After wash day take the suds and pour Dear Dame Durden:—Could some of them over your rose bushes. It will

> May I come again? I wish some of can make some friends over that. HIGH GRASS.

(The lonely folk always get a special welcome in this corner. Cheer up, Little Girl, you will win friends yet, in your town and out of it. -D.; D.)

ERRATA'S QUERY ANSWERED.

Dear Dame Durden: - I have never written to your corner before, but lways enjoy reading the letters from the other members, and often wished I could help some of them and as I have just noticed "Errata" asking about the yeast for pop, perhaps I can help him. I made some of the same kind of pop last week, and to two and a half gallons I put half a yeast cake dissolved in half a cup of warm water and left it covered over all night. In the morning it had worked up beautifully, not too much but just nice. Now I must close hoping this will help "Errata" or perhaps someone else. I am very busy just now planting my garden. I had a splendid garden last WILTSHIRE.

(We are very glad to hear from you and very grateful for your help. Tell us of your garden sometime.—D. D.)

CURE FOR BLACKHEADS.

Dear Dame Durden:—Will you please tell me a good cure for black-heads in the face? I will be very glad to see the cure in the FARMER'S ADVOCATE. COUNTRY GIRL.

(A first step toward the permanent removal of blackheads is to drop fried foods, pastry and confectionery from your bill of fare for a time. Wash the face in warm soft water, using white castile soap; then rinse in cool water to close up the pores. Once or twice a week apply a lotion made of one dram each of carbonate of magnesia and zinc oxide, to four ounces of rose water. Shake the mixture well and "dab" on with a soft clean cloth. Leave for half an hour, then soften the skin hot water and gently press out any blackheads that will come easily. Apply some good cold cream after the operation is finished.—D. D.)

ROOM FOR THE LONELY.

Dear Dame Durden:-Have you room in your cosy corner for a lonely, young widow, at present housekeeper for one of those bachelors who are very fond of good things to eat? The pudding recipe Puss sent was so good that I come to ask if some kind reader could give me a recipe for cream pie. In return I will send you a recipe for Sally Lunn.-Take one-half cup of butter, half a cup of sugar, one cup of sweet milk, two eggs, three cups of one teaspoon of soda. Bake in cake tin 25 minutes and eat hot. To serve in the English way cut them thin and toast both sides. Butter well, then place together again. This recipe may buit Northumberland. Don't laugh at my second recipe. I know it will be useful to some of the farmers to cure a setting hen. To one of her legs fasten a string four feet long and tie her outside for three days and three nights. At the end of that time I guarantee summer. May I come again?

(Somebody will be sure to find both



AN ARTISTIC DESIGN FOR A COUNTRY HOME.

By permission of "House Beautiful."

means of keeping cool when the very given you.—D. D.) warm days come. Often one has a Dear Dame Durden:—The Ingle nice cold supper prepared but lights Why not try cold you have) until tea time. Then add

Just a word more. Please extend my sympathies to occasionally call on Dame Durden why which is very nice and a favorite of mine.

"A Bitten One." I knew a flea once should we object? I am only afraid mine.

> (We are glad to get your bright, jolly baking powder. letter. Come in often for your cup dessertspoon butter, three-quarters cup of tea and meet all the others. You may calm the fears expressed in in jelly cake tins and arrange as a layer delectable article. - D. D.)

the dish in which it is cooked. Apropos ahead of it, and, afterwards, I could of the remarks about verandahs in the not get hold of the recipes I wanted for last issue (which by the way were very you. Some of the members will probgood), it makes us think of ways and ably be able to add to what I have

A NEW GERMAN MEMBER.

Dear Dame Durden:—Here comes an intruder! Will you accept me? I have long been a silent reader in this flour, two teaspoons of cream of tartar, cosy corner. I think it is just what we want on the lonesome farm. would not like to be without it, for have had quite a help from the Ingle Nook. I am very thankful to all the members for all the good they did to If the bachelors me. I will give a recipe for a cake

quarter cup milk, whites of four eggs, one and a half cups flour, one teaspoon baking powder. Yellow part: one summer. May I come again? Wish sugar, one-quarter cup milk, one-half I could gather you all in bodily and teaspoon vanilla, yolks of four eggs, one give you tea. Wouldn't we be a cup flour, one teaspoon baking powder. of your hints useful and will be grateful hilarious crowd? Do you know I Brown part: take half a cup each of the accordingly. The only recipe I have enjoy the "tail-pieces" I add to the white and yellow mixtures and add a tor cream pie appeared in a recent letters better than writing remarks quarter cake of unsweetened chocolate under a heading of my own. It seems grated fine and melted over the steam more informal and friendly, someway, of the takettle. Then bake the three members have good recipes for that

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IORTON.

HOW CURE THE PUPPY?

Dear Cousin Dorothy:—Just a few lines to the Children's Corner as I am just a visitor. My father has taken the FARM-ER'S ADVOCATE for as long as I can remember and likes it very much. We have a team of horses whose names are Polly and Jenny; a cow named Pet, and the little calf named Beauty. chases the hens and I would like to know thirty hens.

Saskatchewan. (c)

MUSIC LESSONS.

Dear Cousin Dorothy: - My brother-inlaw takes the FARMER'S ADVOCATE and I enjoy reading the Children's Corner very much. I have one sister and two brothers. My sister is married. I go to school, nearly every day, but we have holidays now on account of not having a teacher. I am in the third book. My father was one of the first settlers in Wetaskiwin. I have a pony named Bell, one cat and two dogs. The cat's name is Daisy and the two dogs' names are Bob and Tiny. I take music lessons and my teacher's name is Miss S. RUTH E. SWANSON. (11) Alberta. (b)

A JOURNEY WELL DESCRIBED.

Dear Cousin Dorothy: - I am going to tell you about a trip my mamma and went to Indian Head and stayed there nearly two weeks. My aunty only lived half a mile from the experimental farm and we went down several times. The trees were just out in leaf and there were some of the flowers out in bloom in the garden. My uncle had an elevator just across the street and we often went over to see the wagons being unloaded. One day my uncle got a car-load of flour and oatmeal. My cousins and my little brother and myself went over and played in the car while my uncle was unloading. The day before we came away we all went out to a farm five miles from town. There was a big creek running through their farm, and they had a big dog that would swim in the water after sticks. The next day we went to Brandon. One day we went for a drive and saw the hospital and colleges and experimental farm and saw the industrial school for Indian boys and girls. Some of them were sewing. My uncle had drug store, and I went down one day we were coming home we stayed at Belmont for dinner; then we went to Minto, and papa drove us from there to Boissevain.

Marjorie Johnstone. (11)

Manitoba. (a)

ONE ON A SHORT LIST.

Dear Cousin Dorothy:—I have never written to your Corner before, but seebers in "P" I thought I would add one sister and brother. to your list. My teacher name is Miss F. I like her very well. I have one brother and two sisters. My sister and walk to school in the symmer and my brother drives us in the winter. We nearest school, which is Pacific school. I am in the fourth grade and take up

ON A HOMESTEAD.

Manitoba. (c)

I am in the second reader. My brother brother, who has a large farm out there, is away from home on his homestead. My brother got me a doll for a Christ-

EDMUND GAMBLE (10) (You did not put any address,-('. i).)

CHILDREN'S CORNER

GOING TO HAVE A NEW SCHOOL.

Dear Cousin Dorothy:—We live on a have a little dog named Nipy and he homestead sixty-five miles north of Ed- Children's Corner and thought I would monton and two miles south of the Pem- write as it is a long time since I have if there is any cure to break him of it. bina river. I go to school when it is written. Our nearest river is the I have a little dicky bird, and a cat, not too cold. I have to go a mile and Mossey. It runs from Lake Dauphin three turkeys, and mamma has about a half. My teacher's name is Mr. B. to Lake Winnipegosis. The Mossey MAMIE McKnight. (10) are eleven pupils when all are present. yards wide; Lake Winnipegosis is about purpose. My father is one of the trus- nine to twelve miles wide. must leave room for the others.

OLIVE ALLEN. Alberta. (a)

Dear Cousin Dorothy: -We live thirty miles from the post office. We have two horses and a colt. One is named Jenny and the other is Dolly. We have two cows, and a dog named Waggy. little brother and myselt had to Bran- I have one sister Gladys, and no brothers.

Alberta. (c)

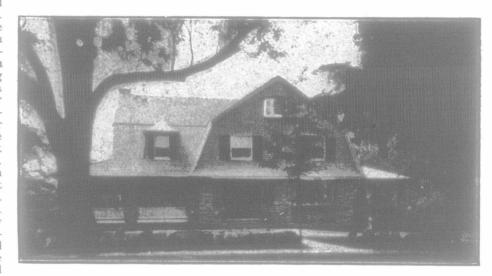
THE MOWAT SCHOOL

Dear Cousin Dorothy:—I read the and we all like him very much. There River is about seventy to seventy-five The trustees are preparing to build a 200 miles long and from one-half to new school in the spring, as at present twelve miles wide. Lake Dauphin is we have only a house fitted up for that about thirty-nine miles long and from purpose. My father is one of the trustees, also secretary-treasurer of the several rivers running into it, but only school. We moved here last June. the Mossey runs out of it. We live one My father has taken the FARMER's mile from Lake Dauphin. The Mossey Advocate for some time and I like never freezes over in front of our house reading the Children's Corner. I have and not very often within two miles of one brother who was six years old the our place, but it was frozen over for 28th of January, but no sister. I was about ten days this last winter. There twelve on the 24th of January. I am is no ice on it now and we had a boat taking lessons on the violin and hope ride on it to-day. It was so nice and can learn to play nicely. As this warm that I took mamma and another is my first letter to the Advocate I lady for a boat ride. I have a dog called Nero who pulls me to school every day in winter. The school I go to is the Mowat school. It was named after Sir Oliver Mowat. The schoolhouse THIRTY MILES FROM THE OFFICE. was built the year he died.

LORNE H. LACEY (10) Manitoba. (b)

A BUSY BROTHER AND SISTER.

Dear Cousin Dorothy:-I will be



to see some men making candy. When Simplicity, Comport, and Beauty are combined here. By permission of "House Beautiful,"

A FARMER'S BOY.

Dear Cousin Dorothy:—This my first letter to the FARMER'S ADVOCATE. stay on a farm of B. G. Thorvaldson and like it very much. He has seventeen head of cattle, two sheep, thirty chicken, three horses and one colt. Their names are Belle, Fanny, Dick and and they are all good horses. I have

Manitoba. (c)

TELEPHONE ON THE FENCE.

Dear Cousin Dorothy: This is my first live two and one-half miles from our letter to the Children's Corner so I am going to try to do my best. I live nine miles from the town of Brandon, within geography, drawing and music.

Effic Pollock. (9)

Brandon, within a mile of the G. N. R. station and half a mile from school. We take the FARM-ER'S ADVOCATE and think it a helpful paper on the farm. We have a telephone running two miles and a half on a wire fence; it is the only one in the country around here and is quite a Dear Cousin Dorothy: -I thought I novelty. We are keeping the post office would write you a letter as I have been and find it very handy in the cold weareading the letters in the FARMER's ther on account of our mail. I was ADVOCATE. I am going to school now, out on my vacation to Hanley, Sask., There are about thirty go to our school, and had a very nice time visiting my 20t, miles west of us. He went up last mas present. On May 26th I was eleven vears of age.

Sal A. M. Kidd (10)

go to school all winter; the weather was well. I have five sisters and two so cold and we had no teacher after new brothers. I have one sister older than year. I am in the third book and like I am. I go to school every day, but we going to school very much. We have have got holidays now. I have a gun year. I am in the third book and like about forty head of stock. Our and often go shooting rabbits, but this hired man left suddenly one morning last week I have not been out. We and now when papa goes away my brother, eight years old, and I like to get out and have some chores done for him when he comes home. We had great SIGURDUR S. ERIKSON. (13) Tun sieigh Haling with a bought us at Christmas. I help mamma in the house too. My work is to wash the breakfast dishes every morning. will close with a riddle to suit the times: Black I am and much admired: men seek me till they are tired; dig me up and break my head; put me in a nice warm bed. Answer: -coal.

> EDNA M. COOK: Manitoba. (b)

SISTER STUDYING FRENCH.

wenty-five cattle. We have some ence in the winters as they are much poultry and pigs, two dogs and a cat. colder and longer here than there. We I am a member of the Maple Leaf Club have an uncle, aunt and four cousins

IFSSIE BASTER, (11)

A PHOTOGRAPHER IN THE FAMILY.

Dear Cousin Dorothy: - I go to school every day and am in grade three. My teacher's name is Miss R. I like her very much. I am nine years old, and have three brothers and two sisters. My eldest brother is attending college in Winnipeg. My second eldest brother takes photographs. We have eleven horses whose names are, Ned, Nellie, Topsy, Maud, Roy, Ruth, Fly, Queenie, Minnie, Pansy and Tom. We have ten cows, six calves, three pigs, thirty-seven sheep and eighteen lambs at present. We have a dog whose name is Collie, and one cat. We have about seventy-five hens, two guineas, four geese, three ducks and one turkey. My father owns one whole section of land and a lot in town. We live two miles east of town. Manitoba. (b) Annie C. Gamble.

A BUSY LAD.

Dear Cousin Dorothy:—I have been reading the Children's Corner and like very much. My father has been taking the FARMER'S ADVOCATE for about two years and thinks it a very good paper. I live on a farm and we have two horses, three cows, two calves, four pigs, two ducks, four turkeys and fourteen chickens. I and my brother have one cow named Tory. I have five brothers. I am the oldest and have been working in the field since I was eight years old. My father has been hauling wood from the bush this winter. We live on a homestead in Canada. I will have to work in the field this sum-OAKLEY JAMES. (13)

A MANITOBA MEMBER.

Dear Cousin Dorothy:-I live on a don and Indian Head. We went to Brandon on the twenty-fourth of May and stayed there a few days; then we Frances Bradley. (9)

I have one sister Gladys, and no brothers.

Dear Cousin Dorothy:—I will be eleven years old in March and am the eldest of the family. The youngest are twins, Leonard and Lillian, and they we live one sister Gladys, and no brothers.

Dear Cousin Dorothy:—I will be earlier to the family of the fa twins, Leonard and Lillian, and they We live one and a quarter miles from will be two years old in June. I did not church and school. I go to school and am in the fifth grade. Our teacher's name is Mr. C. We like him very much. We have sixteen horses and twelve head of cattle, and twelve pigs. I have three brothers and three sisters

SADIE McMahon. (14) Manitoba. (b)

THREE MILES FROM SCHOOL.

Dear Cousin Dorothy: -My father has taken the FARMER'S ADVOCATE for nine years. We have eleven head of horses, twenty-one head of cattle, thirtysix pigs and one hundred and twenty hens. I have two brothers and three sisters. My brother and I go to school; we have three miles to go. There are four rooms in my school and forty-nine in my room

ARCHIE STAPLES HOOPER. (9) Manitoba (c).

CAME FROM SCOTLAND.

Dear Cousin Dorothy:--I live on a farm and my father has five horses fifteen head of cattle and one pig. My father has taken the FARMER'S ADVO-CATE for five years and he likes it very came from Scotland five years ago.

EDWARD GRAHAM. (12)

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A PROGRESSIVE SCHOOL. Dear Cousin Dorothy: - I like to read the Children's Corner; I am very much interested in it. I go to school every day. My teacher's name is Miss L. We have a new red brick schoolhouse, with eight rooms in it. It isn't quite finished yet, but already there are six teachers in it. I am in the third reader. My studies are arithmetic, reading, spelling, writing, drawing, grammar, geography and history. We have just got through with our Canadian history and have started on English history. There are about forty pupils in our room. I have two sisters, one younger and one older than I. We have just lived in Canada Dear Cousin Dorothy:—I live on a two years, coming here from the central part of Illinois. We find a great differtoo, as well as the C. C.—I go to school in the summer. My sister, who is older than myself, is going to school this winter and is studying French. We have only lived here four ears.

In a member of the maple Leaf Club have an uncle, aunt and four cousins to the living up here now. They came one year ago and the cousins are very much company for my little sister and me, as we were strangers when we first came here; we didn't know anybody.

In a Henringer. (12)

IDA HENINGER. (12) Saskatchewan. (b)

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CHAPTER XXX. THE TAILLESS TYKE AT BAY.

On the following morning there was sheep-auction at the Dalesman's Daughter.

Early as many of the farmers arrived, there was one earlier. Tupper, the first man to enter the sand-floored parlor, found M'Adam before him

He was sitting a little forward in his chair; his thin hands rested on his knees; and on his face was a gentle, dreamy expression such as no man had ever true of Owd Bob o' Kenmuir.)

seen there before. All the harsh "Ay, ay," the little man continued, And on they came, marching slow wrinkles seem to have fled in the night; and the sour face, stamped deep with the bitterness of life, was softened now, as if at length at peace.

"When I coom doon this mornin', said Teddy Bolstock in a whisper, found 'im sittin' just so. And he's nor moved nor spoke since.''

tones

hoop and doon, for a' the world like a sentry-soger. And so he was when I looked oot o' window when I wake.''

Then Londesley entered, and after him, Ned Hoppin, Rob Saunderson, Jim Mason, and others, each with his dog. And each man, as he came in and saw the little lone figure for once without, its huge attendant genius, put the same question; while the dogs sniffed about the little man, as though suspecting treachery. And all the time yet-Eh, Mr. M'Adam, what is it?'' M'Adam sat as though he neither heard nor saw, lost in some sweet, sad dream; He was on his feet, staring about him, so quiet, so silent, that more than one wild-eyed. thought he slept.

After the first glance, however, the farmers paid him little heed, clustering round the publican at the farther end of the room to hear the latest story of Owd Bob.

It appeared that a week previously, James Moore with a pack of sheep had met the new Grammoch-town butcher at the Dalesman's Daughter. A bargain concluded, the butcher started with the flock for home. As he had no dog, the Master offered him Th Owd Un. "And he'll pick me up i th' town to-morrow,'' said he.

Now the butcher was a stranger in the land. Of course he had heard of rushed in, white-faced. Owd Bob o' Kenmuir, yet it never struck him that this handsome gentle- you! T'tykes fightin' mad! Hark!', almost rubbing, head past head. man with the quiet, resolute manner, who handled sheep as he had never seen them handled, was that hero-'the best sheep-dog in the North.

Certain it is that by the time the flock was penned in the enclosure behind the shop he coveted the dog—av.

A rare thing it was for M Adam and lose a sharing, basings.

At the shrill cry the huddle below others besides the men in the little the sea Rearing high they wrestled with and dragged to and fro, like the sea would even offer ten pounds for him!

up in an outhouse—summit of indignity; resolving to make his offer on the

When the morrow came he found no dog in the outhouse, and, worse, no sheep in the enclosure. A sprung though he were well pleased. board showed the way of escape of the one, and a displaced hurdle that of the other. And as he was making the discovery, a grey dog and a flock of sheep, travelling along the road toward the Dalesman's Daughter, met the Master.

From the first, Owd Bob had mistrusted the man. The attempt to see if any followed. confine him set the seal on his suspicions. His masters' sheep were not for such a rogue; and he worked his own way out and took the sheep along with

The story was told to a running chorus of—"Ma word! Good, Owd Un!—

Ho! ho! did he thot?' Of them all, only M'Adam sat

strangely silent.

draw the little man, remarked it. 'And what d'yo' think o'

Mr. M'Adam, for a wunnerfu' story of a wunnerfu' tyke?'' he asked.

the little man answered dreamily glad. Death it might be, and such an feet and body and teeth-every inch. The Venus lay there, her teeth

Bob, Son of Battle

(Continued from page 822.)

his hand for silence.

'D'yo' hear thot?—Thunder!''

"It's comin' nearer!" "Nay, it's goin' away!"

"No thunder that!" The little man had moved at last.

"Where's yer dogs?" he almost screamed.

"Here's ma- Nay, by thunder! but he's not!" was the astonished cry. In the interest of the story no man of shaggy figures creeping out of the

"I tell ye it's the tykes! I tell ye it's the tykes! They're on ma Wullie-

At the same moment Bessie Bolstock

"Hi! Feyther! Mr. Saunderson! all o There was no time for that. Each door; and M'Adam led them all.

He walked back into the tap-room he made the round of the room, silentfooted. From dog to dog he went, on to some great enterprise. Then he

and flirting even now; others there were;

hearts. At last they had found their numbers.

identically. None the less is it also high as he scanned them contempt-

'and in a day or twa James Moore'll and silent like soldiers at a funeral: ha' anither tale to tell ye-a better young and old; bob-tailed and bull; tale, ye'll think it-mair laffable terrier and collie; flocking like vultures And yet—ay—no—I'll no believe it! to the dead. And the Venus, heavy So they fought on. And ever and I niver loved James Moore, but I think, with years, rolled after them on her anon a great figure rose up from the as Mr. Hornbut aince said, he'd rather bandy legs, pausing in her hurry lest heaving inferno all around; rearing to die than lie. Owd Bob o' Kenmuir!' she should be late. For had she not his full height, his head ragged and

Tupper, awed somehow into like hushed there'll be grey dogs sneakin' around him off on every side. There was no amid a raging sea; and down he would me in the twilight. And they're aye need. He never thought to move go again. "In t'paddock at back," Teddy behind and behind, and I canna, Long odds 'twould be—crushingly answered, "marchin' hoop and doon, canna—" heavy; yet he loved them for it, and heavy; yet he loved them for it, and determined. Only you might have Teddy Bolstock interrupted, lifting was trembling already with the glory of the coming fight.

They were up to him now; the sheepgurgling, jarring roar, horrible to stirf and short like cats on coals; their backs a little humped; heads averted; yet eyeing him askance.

And he remained stock-still, nor "More like the Lea in flood. And cocked, and his muzzle wrinkled in a long life of battles had she let go; dreadtul grin. As he stood there, every bristle on end, he looked a devil wrinkled nostrils clung still

had noticed that his dog had risen nose, never taking her eyes off that pad gallant stump of a flagstaff shot away. from his side; no one had noticed a file she had marked for her own. Close beside her were crop-eared Grip and he sobbed as he fought doggedly on. Grapple, looking up at the line above them where hairy neck and shoulder down he went at length, silent still-My God! And me not there! Wullie, each had marked his place, each taken mangled pad; Rasper beneath him now; up his post.

Last of all, old Shep took his stand a crowd on flanks and body. full in front of his enemy, their shoulders

So the two stood a moment, as though man seized his stick and rushed for the they were whispering; each diabolical, each rolling back his eyes to watch the other. While from the little mob there crook's length in front of the rest.

Saunderson's old Shep walked to the striving paws and the expression of lashed into life by some dying leviathan. Forthwith the butcher locked him back door of the house and looked out. fiends incarnate. Down they went, A gigantic figure, tawny and red, There on the slope below him he Shep underneath, and the great dog fought its way to the surface. A great saw what he sought, stalking up and with a dozen of these wolves of hell upon tossing head, bloody past recognition, down, gaunt and grim, like a lion at him. Rasper, devilish, was riding on flung out from the ruck. One quick just as Teddy began his tale. Twice into the whirlpool vortex of the fight. leeches as he went.

And there, where a fortnight before he had fought and lost the battle of the that little voice, now so near. stopping at each as though urging him Cup, Red Wull now battled for his life. Long odds! But what cared he? made for the door again, looking back The long-drawn agony of the night was drowned in that glorious delirium. The One by one the others rose and trailed hate of yeart came bubbling forth. In out after him: big blue Rasper, Londes- that supreme moment he would avenge a little suffocating cry, shooting up at

Long odds! Never before had he and last of all, waddling heavily in the faced such a galaxy of foes. His one rear, that scarred Amazon, the Venus. chance lay in quickness: to prevent Out of the house they pattered, the swarming crew getting their hold silent and unseen, with murder in their till at least he had diminished their the living. And it was no light task,

Rob Saunderson, always glad to enemy alone. And slowly, in a black Then it was a sight to see the great "It's a gude tale, a vera gude tale," the Terror of the Border?—and was swinging his quarters; fighting with a dozen years, and remain unmoved.

piece. Up and down, roaming wide, eaving everywhere a trail of red.

Gyp he had pinned and hurled over his shoulder. Grip tollowed; he shook her till she rattled, then flung her afar; and she fell with a horrid thud, not to rise. While Grapple, the death to avenge, hung tighter. In a scarlet, soaking patch of the ground lay Big Bell's lurcher, doubled up in a dreadful ball. And Hoppin's young dog, who three hours before had been the children's tender playmate, now fiendish to look on, dragged after the huddle up the hill. Back the mob rolled on her, When it passed, she lay quite still, grinning; a handful of tawny hair and flesh in her dead mouth

he continued in a whisper. "Up till the blood of her blood to avenge? bleeding, the red foam dripping from the end I canna shake him aff. Haffl- So they came about him, slow, his jaws. Thus he would appear "Where's th' Terror, then?" asked ins I think that where I'm gaein' to certain, murderous, opening out to cut momentarily, like some dark rock

> Silent now they fought, dumb and heard the rend and rip of tearing flesh; à hoarse gurgle as some dog went down; the panting of dry throats; and now They listened; and from without came dogs walking round him on their toes, and then a sob from that central figure. For he was fighting for his life. Terror of the Border was at bay.

All who meant it were on him now. The Venus, blinded with blood, had her looked at them. His great chin was hold at last; and never but once in a Rasper, his breath coming in rattles, shivering a little, his eyes rolling back, had him horribly by the loins; while his breath grating in his throat to set a dozen other devils with red eyes and

Long odds! And down he went, The Venus ranged alongside him smothered beneath the weight of num-No preliminary stage for her; she never bers, yet struggled up again. His walked where she could stand, or stood great head was torn and dripping; his where she could lie. But stand she eyes a gleam of rolling red and white; must now, breathing hard through her the little tail stern and stiff like the He was desperate, but indomitable; and

Long odds! It could not last. And joined. Behind was big Rasper, and never a cry should they wring from him three at his throat; two at his ears;

> The Terror of the Border was down at last!

"Wullie, ma Wullie!" screamed M'Adam, bounding down the slope a 'Wullie! Wullie! to me!'

feeding-time. And as the old dog his back; the Venus-well for him! - glance he shot from his ragged eyes watched, his tail was gently swaying as had struck and missed; but Grip and at the little flying form in front; then Grapple had their hold; and the others, with a roar like a waterfall plunged like leaping demoniacs, were plunging toward it, shaking off the bloody

"Wullie! Wullie! I'm wi' ye!" cried

Through — through — through! — an incomparable effort and his last. They hung to his throat, they clung to his muzzle, they were round and about him. And down he went again with a sob and ley's Lassie, Ned Hoppin's young dog; his wrongs. And he went in to fight, Grip and Grapple, the publican's revelling like a giant in the red lust of bull-terriers; Jim Mason's Gyp, foolish killing. him-worrying, smothering, tearing, like fox-hounds at a kill.

> They left the dead and pulled away for the pack were mad for blood.

At the bottom of the wet mess of cloud, like the shadow of death, they brute, huge as a bull-calf, strong as a hair and red and flesh was old Shep, that, dropped down the slope upon him. bull, rolling over and over and up stone-dead. And as Saunderson pulled And he saw them coming, knew again, quick as a kitten; leaping here, the body out, his face was working; for their errand—as who should better than striking these; shaking himself free; no man can lose in a crack the friend of

And James Moore didna invent it; he one as he would wish to die—at least of him at war. More than once he broke clenched still in death; smiling that had it from the Christmas number o' distraction from that long-drawn, haunt- right through the mob; only to turn and her vengeance was achieved. Big Rasthe Flock-keeper in saxty.'' (On the ing pain. And he smiled grimly as he again face it. No flight for him; nor per, blue no longer, was gasping out following Sunday, Old Rob, from sheer looked at the approaching crowd, and thought of it.

Curiosity, reached down from his shelf saw there was not one there but he had

Up and down the slope the dark to find a quiet spot where they might the specified number of the paper. To his amazement he found the little man was right. There was the story almost

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FER. (12)



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terrible in his dying.

once had been Adam M'Adam's Red

At the sight the little man neither raved nor swore: it was past that for him. He sat down, heedless of the found the pair: Adam M'Adam and his soaking ground, and took the mangled head in his lap very tenderly.

unalterably convinced that the attack had been organized while he was detained in the tap-room.

the dog gave one weary wag of his back, his dim dead eyes staring up at stump-tail. And with that the Tailless the heaven, one hand still clasping a

heir dead, and the little man was left alone with the body of his last friend. Dry-eyed he sat there, nursing the

alone—crooning to himself: ''Monie a sair daurk we twa hae

wrought, An' wi' the weary warl' fought! An' monie an anxious day I thought gate. We wad be beat.'

An' noo we are Wullie—noo we are!''

ye've ave got yer mither.' And ae rection to eternal life.' day I had not. And Flora, Wullie (ye remember Flora, Wullie? Na, na; ye'd not) wi'her laffin' daffin' manner, cryin' to one: 'Adam, ye say ye're alane. country of the North, in the loneliest But ye've me—is that no enough for corner of that lonely land you may onv man?' And God kens it was—while it lasted!'' He broke down and sobbed a while. ''And you, Wullie—Entering, at all old man comes out to paw with his right hand

'An' here's a hand, my trusty fier, the face as of yore. An' gie's a hand o' thine; An' we'll tak' a right guid willie-

waught, For auld lang syne.'''

He sat there, muttering, and stroking sive silver cup, dented over it, like a mother over a sick child. "They've done ye at last, lad-done

And noo I'm thinkin' they'll no rest content till I'm gone. And oh. Wullie!" he bent down and whispered —"I dreamed sic an awfu' thing—that ma Wullie—but there! 'twas but a

dream." So he sat on, crooning to the dead dog; and no man approached him. Only Bessie of the inn watched the little lone figure from afar.

It was long past noon when at length he rose, laying the dog's head reverently down, and tottered away toward that Good-day to you, sir, good-day." bridge which once the dead thing on the slope had held against a thousand. the stream, skirting the how, over the

look upon his face, half hopeful, half gulf and up the hill again. fearful, very piteous to see.
"Wullie, Wullie, to me!" he cried;

now weak as a dying man's "Are ye no comin', Wullie?" he

Ye've not used to leave me. He walked away a pace, then turned

again and whistled that shrill, sharp call, only now it sounded like a broken echo of itself.

iver I kent ye not come and me whist-lin'. What ails ye, lad?"

He recrossed the bridge, walking

Over the dead body he stooped. "What ails ye, Wullie?" he asked Kenmuir.

Then Bessie, watching fearfully, saw him bend, sling the great body on his back, and stagger away.

Limp and hideous, the carcass hung

fought upon that day but carried the down from the little man's shoulders. The huge head, with grim, wide eyes and The huge head, with grim, wide eyes and lolling tongue, jolted and swagged with lolling tongue, jolted and swagged with his life, like Samson, was yet more the motion, seeming to grin a ghastly defiance at the world it had left. And the last Bessie saw of them was that Down at the bottom lay that which bloody, rolling head, with the puny nee had been Adam M'Adam's Red legs staggering beneath their load, as the two passed out of the world's ken.

In the Devil's Bowl, next day, they Red Wull, face to face; dead, not divided; each save for the other, alone. "They've done ye at last, Wullie— The dog, his saturnine expression glazed they've done ye at last," he said quietly, and ghastly in the fixedness of death, propped up against that humpbacked boulder beneath which, a while before, the Black Killer had dreed his weird; On hearing the loved little vioce, and, close by, his master lying on his Tyke, Adam M'Adam's Red Wull, crumpled photograph; the weary body the Black Killer, went to his long home. at rest at last, the mocking face—mocking no longer-alight with a whole-One by one the Dalesman took away souled, transfiguring happiness.

POSTSCRIPT.

Adam M'Adam and his Red Wull lie dead dog's head; hour after hour- buried together: one just within, the other just without the consecrated pale. The only mourners at the funeral were David, James Moore, Maggie, and a grey dog peering through the lych-

During the service a carriage stopped at the churchyard, and a lady with a stately figure and a gentle face stepped So he went on, repeating the lines out and came across the grass to pay a over and over again, always with the last tribute to the dead. And Lady same sad termination.

Eleanour, as she joined the little group "A man's mither—a man's wife—a about the grave, seemed to notice a man's dog! they three are a' little more than usual solemnity in the par-M'Adam iver had to back him! D'ye son's voice as he intoned: "Earth to mind the auld mither, Wullie? And earth—ashes to ashes—dust to dust; her, 'Niver be down-hearted, Adam; in sure and certain hope of the Resur-

When you wander in the grey hill

and you! the only man friend iver greet you—the Master of Kenmuir. I had!" He sought the dog's bloody His shoulders are bent now; the hair that was so dark is frosted; but the blue-grey eyes look you as proudly in

And while the girl with the glory of vellow hair is prepairing food for youthey are hospitable to a fault, these Northerners—you will notice on the mantlepiece, standing solitary, a mas-

That is the world-known Shepherds' the poor head upon his lap, bending Trophy, won outright, as the old man will tell you, by Owd Bob, last and best of the Grey Dogs of Kenmuir. The last because he is the best once, for a long-drawn unit of time. James Moore had thought him to be the

When at length you take your leave, the old man accompanies you to the top of the slope to point you your way.

"Yo' cross the stream; over Langholm How, yonder; past the Bottom; and oop th' hill on far side. Yo'll come on th' house o' top. And happen yo'll meet Th' Owd Un on the road.

So vcu go as he has bidden you; across

On the way as the Master has foretold, you come upon an old grey dog, trotting soberly along. Th' Owd Un only the accents, formerly so fiery, were indeed, seems to spend the evening o his life going thus between Kenmuirf and the Grange. The black muzzle is asked at length in quavering tones. almost white now; the gait, formerly so smooth and strong, is stiff and slow venerable, indeed, is he of whom men still talk as the best sheep-dog in the North.

echo of itself.

"Come to me, Wullie!" he implored, very pitifully.

"Tis the first time raised; and you look into two big grey eyes such as you have never seen before

soft, a little dim, and infinitely sad. That is Owd Bob o' Kenmuir, of blindly like a sobbing child; and yet whom the tales are many as the flowers on the May. With him dies the last on the May. the immortal line of the Grey Dogs i

> You travel on up the bill, something pensive, and knock at the door or the house on the top.

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A Delightful Climate; A Delightful Home; A Delightful Occupation

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Kaslo-Kootenay

Kaslo is beautifully situated on the shores of Kootenay Lake. There are large areas of first-class fruit land within a radius of three miles of Kaslo. Kaslo is an incorporated town of 1.500 inhabitants. Kaslo fruit won the district prize in competition with all other Kootenay Districts.

If you are interested in a first-class investment or wish to make a home in a delightful climate, and engage in an ideal occupation, invest in an improved or unimproved fruit ranch at moderate

Blocks of land from 5 to 1500 acres.

For further particulars write to

J. CURLE KASLO, B. C

Did You See The Fine Kaslo-Kootenay Lake Fruit Exhibited at Winnipeg Last Fall?

one of Correggio's cherubs.

THE END.

The Literary Society

POSITION OF WOMEN IN CANADA. Dear Editor:

Dear Editor: My heart goes out to those British women who have come from their old comfortable homes and left friends and everything that makes life dear to help build up a new country. One of the women in writing to you finds one fault with the country; i. e. the law concerning women's rights.

It is a blot on the fair name of Canada Instead of sending missionaries to foreign countries to raise the position of women, I think charity should begin lovely young woman in suitable clothing ready to face the winter's storm and animal was no good. blast. "Puir buddy!" How little she Can A make B pa knows what breakers are ahead in the storm of life! I would advise British

Hardships! Well, yes. A farmer's wife of moderate means, without help who raises a large family of boys and girls to be worthy members of society, and who finds time for her own moral and music teacher to the little ones given! entrusted to her care. Yet a foreigner, a drunken, illiterate, unlettered, and midst and the most sacred of privileges, the ballot, is placed in his hands.

Lady Steel of Edinburgh has won disas the first woman who refused to pay time of aborting. taxes without a vote. Oh! for Canadian woman of the same 'metal' to start a movement of this kind. New over the other parts of the wrld is will get his feet over. certainly due to the fact that women there are allowed a voice in all matters pertaining to the state.

Prof. Madame Curie in Paris University, in this near the top, and run the halterone of the male professors remarked shank through it, attaching securely to that the time was soon coming, when the end of a block of wood or iron. women should be treated like human which, while not heavy enough to cause beings.

PHILOSOPHIC ADVICE.

I pray you, O excellent wife, not to cumber yourself and me to get a rich chamber made ready at too great a ion that B is not liable to A, the drover. cost. These things, if they are curious Now, we know of a similar case, where in, they can get for a dollar at any the farmer made full refund to drover, village. But let this stranger, if he and such seems to be the general cuswill, in your looks, in your accent and tom in our locality. behavior, read your heart and earnestness, vour thought and will, which he to run all risk? cannot buy at any price in any village or city. Certainly let the board be from seller make a difference? spread and let the bed be dressed for the traveller; but let not the emphasis of hospitality lie in these things. largely upon its own especial circum-Honor to the house where they are stances. It is open to the drover in simple to the verge of hardship, so every case to protect himself by proper that there the intellect is awake and terms of agreement. In the one referreads the laws of the universe, the red to, it did not appear that he had reads the laws of the universe, the taken the necessary precaution. soul worships truth and love, honor and taken the necessary precaution.

2. Most assuredly, for then the purcourtesy flow into all deeds.—Emerson.

Trade Note.

KASLO IS ONE of the rich fruit Kootenay is a name to conjune with the teat became sore first, and it these days. And Kaslo is a beautiful then seemed to work up in the udder,

A woman, comely with the inevitable townsite too. The streets are level, comeliness of motherhood, opens to you. the ground free of stone and a healthful And nestling in her arms is a little boy climate with splendid scenery and with golden hair and happy face, like excellent fruit and timber lands assures a prosperous future for the town. In You ask the child his name. He our advertising columns will be found kicks and crows, and looks up at his the announcement of Mr. A. J. Curle. mother; and in the end lisps roguishly, as if it was the merriest joke in all this merry world, "Adum Mataddum."

Mr. Curle has been for many years in charge of the land department for one of the railways, and is competent to judge of the merits of the different sections of B. C. He predicts a great future for this district and we would suggest that our friends write Mr. Curle for further particulars. B. C. holds many happy homes. There is no part of Canada where life is more enjoyable, where industries are more diversified, or where opportunities are better for the truit grower and the home seeker.

QUESTIONS AND ANSWERS.

PAYING FOR MARE.

A sold a mare to B., the value of the animal to be paid in work. B not having the mare on trial brought the at home. We represent Canada as a animal back and tied her in the stable at the end of three months, saying the

Can A make B pay for the mare having no writings?

women with money to keep it in your own name. In that way your children B is equivalent to him signing an will be the heirs, not the second wife's agreement to pay for her. He is liable offspring.

MARE ABORTING.

Mare 9 years old had a colt which lived 8 days. Next year she missed; next year she slipped her foal; then and mental development is the greatest slipped her second foal. Would you woman on earth. It is not only the advise breeding her again? Would housework and rearing of children, but the carbolic acid treatment be of very often the mother is school teacher benefit to her? How should it be

Ans.-Would advise breeding the immoral man it may be, comes into our mare as it may be some local cause and if you succeed in getting her in foal you might try the use of Fluid Extract of Cramp Bark in one ounce tinction for all time in British history doses for some time before her usual

FEET OVER HALTER-SHANK.

Three-year-old colt gets his front feet Zealand is considered the best governed over his halter-shank. I tie him not country in the world. This distinction more than two feet long, but still he

A NEW SUBSCRIBER.

Ans.—Possibly the manger is lower ertaining to the state. than necessary. If, so, raise it by add-After the noted lecture given by ing a plank or scantling. Bore a hole the colt inconvenience when lying down, BESSIE WELLINGTON. will take up the slack when he is stand-

SALE OF UNSOUND COW.

In your April 18th issue we notice an dinner for this man or this woman who answer to J. A. W. re sale of an unsound has alighted at our gate, nor a bed- cow, in which it seems to be the opin-

1. Is the drover required, by law,

2. Would a guarantee of soundness SUBSCRIBER. Ontario.

Ans.-1. Each case must depend

chaser would have a right to damages for breach of warranty in the event of the animal turning out to have been unsound at the date of the contract.

What is mammitis? I have had two growing districts of British Columbia. cows this winter that went wrong in Kaslo is in the Kootenay, and the conjure with the Kootenay is a name to conjure with end of the teat became sore first, and it

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Prices vill be This tion. ed via ation

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Notice

Owners of imported Clydesdale Stallions and Fillies not yet recorded in the Clydesdale Stud Book of Canada, are urged to do so at once, as under the new regulations, regarding the registration of imported Clydesdales, only those bearing registration numbers in the Clydesdale Stud Books of Great Britain and Ireland, and whose parents and grand parents are similarly recorded, will be held eligible for registration in the Clydesdale Stud Book of Canada, after July 1st, 1907.

Address,-

ACCOUNTANT, NATIONAL LIVE STOCK RECORDS, Department of Agriculture,

Ottawa, Ont. J. W. SANGSTER, Secy.,

Clydesdale Horse Association.

SUNNYSIDE

is an orchard land sub-division in the famous South Thompson River Valley, 24 miles from Kamloops, British Columbia, and on the main line of the C. P. R.

SUNNYSIDE

has river, rail and road transportation facilities. The best soil in B.C. Plenty of water for irrigation purposes. A southern exposure and beautiful surroundings.

SUNNYSIDE

Will grow anything grown in the North Temperate Zone, from apples to apricots. No late or early frosts. The finest climate in B. C. Land all cleared, free from stones and ready to plant your trees on now. We run no excursions, but you can come any time after your seeding is done, and we will pay your fare both ways if you purchase. Write for information to

J. T. ROBINSON Manager B.C. Orchard Lands Ltd., Kamloops, B.C. which swelled considerably. There still seems to be an obstruction in teat that hinders the milk from flowing freely and seems to grow shut from one milk ing to another.

Ans.—Mammitis, also known as gar get, consists of inflammation of the mammary gland. It occurs in two forms, in one form being confined to the superficial structures of the gland this is the mildest, and is sometimes caused by a companion cow stepping upon the udder or teat. In the other orm, the interior of the gland is affected. Your case would appear to be the former, as in the latter, lameness and loss of appetite usually accompanies. Treatment, in either case, consists of a purgative of 1 lb. Epsom salts, followed gative of 1 lb. Epsom salts, followed by two-dram doses nitrate of potash, in feed, three times a day for three or four days. Poultice with hot bran or steamed hops, and apply carron oil or camphorated oil to the teat twice a day. If milk cannot be drawn by hand, use a milk tube, being careful to disinfect it each time before using and disinfect it each time before using, and enter it gently so as to irritate as little as possible

CARING FOR HORSES.

A owes B some money and gives B a mortgage on some horses. A leaves the horses with C and goes away. B seizes the horses and has a sheriff's sale. C does not send in his bill for keep of horses till after sale and sheriff has settled up with B and B is short of what A owes him. Can C collect his bill for keep of horses, and how much a day can he collect?

Ans.-Neither A nor the sheriff are under any obligation to pay (for care of the horses since he did not send in his bill to the sheriff. In fact it ought to be assumed that he was caring for the horses for B and would have to look to B for the money.

BITTER CITRONS.

What is it that causes our citrons to be bitter? Last year we had a fine patch, some being all right, but some bitter. We had citron, squash, pumpkin and cucumber vines all close together. Would that affect the citron Man. W. G. G.

Ans.—The reason that some citrons are more bitter than others is very difficult to explain. It is no doubt due to some inherent qualities of the seed. It would be a good plan to retain for the purpose of planting, seed from those citrons of good quality and discard those of poor quality.

The cucumber, squash, pumpkins, and citrons all belong to the same order (*Cucurbitaceae*), but there islittle probability that there would be which could be attributed the bitter flavor of some of the citrons.

INDIGESTION.

I have a two-year-old heifer, which bloats up every day. In the morning she appears to be all right, but is bloated up every evening, and seems to be getting larger. Have lost one already with something similar. Can you tell me the cause and treatment?

OLD SUBSCRIBER. Ans.—This is evidently caused by indigestion. Give 1 lb. Epsom salts dissolved in warm water, as a drench Repeat the dose in 36 hours, if necessary. Follow with 2 drams nux vomica and one dram each of sulphate of iron and gentian, night and morning for three days. Feed lightly. If bloating continue or recur, give 1½ pints raw linseed oil and two ounces oil of turpentine.

STAGGERS IN PIGS.

I have a litter of five pigs weaned about two weeks, which appear to be all right. They are in a small pen. When we feed them, they come to the trough and take a swallow, and run backward a couple of feet, and fall on their side, kick and squeal for a short time; then get up, and apparently get better. Do the same every time they are fed.

Ans.—This trouble occurs not infrequently with young pigs too liberally fed, and is generally supposed to be the result of indigestion, but is not well understood. It is also thought to be of the nature of apoplexy from a rush of



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Farm and Fruit Lands.

I have for sale 320 acres, 4 miles South of swan Lake, Man., N. E. 4 of 31 & N. W. 4 of 32, Township 4, Range 10. Cheap at \$4000.

Martinson & Co. Penticton, B.C.

Your silent salesment an Advocate Advt.

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FOR PRICES AND BEST WORK WRITE SOMERVILLE STEAM MARBLE CO.,

BETWEEN 15th and 16th STREETS, BRANDON, -AGENTS WANTED.

Advertise in the Farmer's Advocate.

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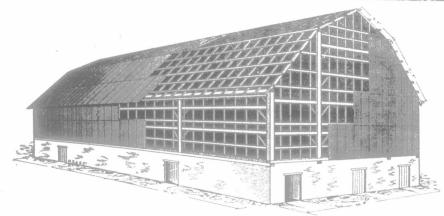
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June 5, 1907



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

The saving of wood sheeting, as compared with the ordinary barn construction, will cover the difference in cost between wooden shingles and our "Acorn Quality" Corrugated Galvanized Sheets.

This galvanized covering protects your building from lightning,

prevents fires from the outside, is easily and cheaply applied, and OUTLASTS A GENERATION.

Do not make a mistake and put up an old style barn, when you can secure a better and more durable construction for less money.

See the page of barn illustrations in our new catalogue, and write

for our book of testimonials with list of users.

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For Sale Both Retail and Wholesale

J. LAING STOCKS

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WINNIPEG FAIR

July 13th to 20th, 1907

The annual outing for Western Canada's agriculturists.

The display of live stock unexcelled.

Largest prizes ever offered by any Fall Fair for Clydesdales, Heavy and Agricultural teams of horses.

Splendid programme of races.

President.

Entries close July 1st.

GEO. H. GREIG,

A. W. BELL,

Manager.

blood to the head. Feeding dry meal and giving drink in a separate trough has been recommended as a preventive; also mixing food less sloppy, say in a thick, pasty form, or scattering grain on a clean plank floor, so they have to eat more slowly. Any food tending to relax the bowels will be helpful. A mixture of charcoal, ashes and salt kept where the pigs can take it at will may also have a good effect. Can any of our readers suggest a better treatment or preventive?

DIGESTIVE TROUBLE.

Am working a horse that seems to have something the matter with him internally. He will suddenly start to step very high and gather himself as though he were going to jump over something; and also when he drinks, there seems to be something jumping inside him at the plank. This is all I can tell you, except that he is very dull F. O. B.

Ans.—There is no doubt but your horse is suffering from some derangment of the digestive organs affecting the brain. Give the following physic:—Aloes barb., one ounce; ginger, 2 drams. Dissolve in water and drench. Afterwards give a tonic as follows:—Sulphate of iron, 4 ounces; powdered gentium, 4 ounces; soda bicarb., 4 ounces; powdered nux vomica, 2 ounces. Divide into 24 powders and give one every night in soft food.

PAINT WANTED.

Would you kindly send me a receipt for a paint to use for a building 36x70x20 feet high.

Miniota Mun. Man. H. T.

Ans.—For outside work a person likes to strike a medium paint as far as costavis troncerned. Hand-mixed white lead and oil makes rather an expensive application, although it doubtless is warranted by its greater durability. But the ready mixed paints are prepared to meet the demand for applications that are inexpensive and durable. We would therefore recommend that you ask your general merchant or hardware dealer to get you a supply of either Stephens' or The Canada Paint Co's, outside paints.

SELECTING SHORTHORNS.

Would you kindly give instructions in regard to selecting Shorthorn cattle by pedigree? I read about different families, but, to a new beginner, they are all Greek. I should like to start a herd on a small scale, and should prefer the milking strain, but don't know how, Would you instruct me, through your paper, how to tell a Cruickshank, a Bates, or a Booth strain?

Ans.—It is only by reading the history and studying the herdbooks, and the different types of the breed that one can get helpful light on this question. While it has always been claimed for the breed, and with good grounds, that it is a dual-purpose breed, the cows, as a rule, being fairly good milkers, and many of them heavy milkers, it must be admitted that in the last thirty years, or more, by the Booths and by Cruickshank and their disciples, much more attention has been paid to developing the early-maturing and beef-producing than the milk producing propensities of the breed, with the result that, as a rule, the females of those classes or strains that have been in that line are only moderate milkers, although there are yet some cows in most herds of these strains that are excellent milkers. Mr. Bates, one of the early improvers of the breed, gave more attention to the milking proclivities of the breed, and gloried in the dairy production of his cows, as well as their style and symmetry, and, as a rule, in herds that have been bred mainly in the Bates line, the females are better milkers than those of the families that have been bred mainly for beef. For this reason, the females of iamilies of Shorthorns in this country that trace to the early importations which were principally of Bates strains more or less nearly related to the fountain-head of that strain, are more generally good milkers, though, of course that tendency has not been helped by the use of sires of the special beef type, without regard to the milking qualities of their dams and earlier female ancestry. As there are few, if any, families as such now that have special claims to

FREE TRIP!

OKANAGAN FREE FXGURSION

Leaves WINNIPEG June 21st

Kelowna Fruit Lands

Are free from Timber, Rock, Scrub and Hills.

Latest sub-division is being summer-fallowed. Our lands are only 3½ miles from Kelowna (Population 1200). When you purchase a ten-acre lot, we hand you back the price of your ticket.

Perfect Irrigation—Water for domestic purposes at a depth of 12 to 20 feet.

Call or write for particulars.

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Best Wheat Land

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Prices from \$7.00 per Acre up.

We can sell you a farm cheaper than any real estate firm in the West, simply because the land we sell is our own; you do not need much cash to buy from us; write for particulars

FARMER'S COLONIZATION and SUPPLY COMPANY
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Are the standard of the world.

No others as strong resilient or as good value.

Get the kinds with our GUARANTEE stamped on the frame.

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milking qualities, such as a large and well-shaped udder, with plenty of loose skin to give capacity that yon have seen milked, and that give a fair quanties of a likely tity. Then the conformation of a likely milker should be more nearly like that mash always before them. Had some one has to give them plenty of exercise, and as much fresh air as possible withof the ideal type of dairy cow; namely, a clean-cut head, slim neck, somewhat thin withers, and prominent hook bones, broader behind than in front, and deep ribbed. In selecting a bull to breed for milk, see that his dam is of the type described, and that she is actually a superior milker—test your cows by the scales—and continue to breed from the best producers.

BROODER CHICKS DYING.

Little chicks are dying at the age of brooder would be ample temperature for to know whether the yolk was entirely from one to two weeks. They are kept some makes of brooders, and insufficient absorbed, or whether it had begun to

ing, but at noon one or two are dead. They are fed as follows: Prepared chick feed, scattered in chaff for scratching; of another hatch that went weak on the out chilling the chickens. You also legs, but seem to be getting all right now.

G. F. R. they are not affected with diarrhoea or refuse lettuce, or anything of this indigestion. A few chickens at this nature. Sometimes we grate the man-season of the year are likely to die from gels, and mix dry chop with it. a lack of vitality. It may be that your correspondent is not using heat enough

In raising chickens in the winter time, one of the chief difficulties is to keep them on their feet. In order to do this, require to feed them considerable green food or vegetables. We use some Ans.—It is difficult to say exactly what is wrong with these chickens. I gather from the tone of the letter that gather from the tone of the letter that sprouted oats or barley, mangels, and the tender shoots from various roots,

I should like to know whether or not your correspondent examined the chickin his brooder. Ninety-five degrees in a brooder would be ample temperature for to know whether the yolk was entirely

dairy qualities, the safest rule we can recommend for the selection of milking Shorthorns is to select cows having the individual indications of superior milking qualities, such as a large and milking qualities, such as a large and well-shaped udder with plants of loans. One should use sufficient the heat so that the chickens will sit at night with their heads sticking under the hover. I do not think the chickens are lousy.

In a brooder about three feet square, which gives them ample room; the heat so that the chickens will sit at night with their heads sticking under the hover. I do not think the chickens are lousy.

In a brooder about three feet square, which gives them ample room; the heat so that the chickens will sit at night with their heads sticking under the hover. I do not think the chickens in winter-time daily. I might add that it would be advisable to feed these chickens some ordinary dry bone, also some charcoal, I cannot say that I would advise beef scrap being left before them constantly. It might not do any harm, but our experience is that hopper feeding is a good thing in the summer-time, but very bad in the winter. With winter chickens, we have been unable to keep them on their feet at all satisfactorily when hopper feeding has been used.

GOSSIP

The word "irrigation" which a few years ago was only met with in engineering text books, is beginning to neering text books, is beginning to have a familiar sound, especially with our readers in some of the interior B. C. fruit land districts and in the southern part of Alberta. "Cost of Irrigation" is the title of a booklet just issued by the American Well Works, Aurora, Ill., and contains suggestions of the following nature—Installing of the following nature:-Installing irrigation apparatus, where losses are sustained and costs reduced, and the application of irrigation schemes to small farms. The booklet is helpful and interesting and will be sent free to any one asking for it mentioning this notice or the advertisement.

Mr. R. P. Stanley, proprietor of Maple View Farm, Moosomin, Sask., writes that he has completely sold out his stallions for this season, but will have on hand a supply in the fall for future trade He also mentions the fact that his advertisement in the FARMER'S ADVOCATE was largely responsible for the demand he experienced for Percherons and Hackneys. Mr. Stanley is well situated to supply a large district to the north and south of Moosomin, where many admirers of the Percherons have settled.

TOBACCO GROWING IN BRITISH COLUMBIA.

Extract from the May number of Tobacco, a journal devoted to the trade and published in London, England. The quotation is from their report of the International Tobacco Trade Exhibition, held in London at the Royal Horticultural Hall, Vincent Square, Westminster, from April 20th to April 27th, 1907.

'The display of leaf, manufactured tobacco and cigars from Kelowna, B. C., created attention and interest, and conveyed a very fair idea of the possibilities of British Columbia as a tcbacco grewing territory. standing that tobacco growing is in its infancy, Mr. Holman, of Kelowna, succeeded in raising many fine specimens of plants, having leaves from two to three feet in length, while cigars made from Vuelta Abajo, Havana leaf, 1902 crop, were equal to many well-known brands of imported Havana. The exhibit included bundles of Wisconsin seed leaf, 1906 crop, a number of bundles, mostly three bands each, of Vuelta Abajo, Havana leaf, crop 1906, and other of the 1902 crop. There is a succulence about British Columbia tobacco that is absent from every other country's growth and which creates a flavor that must be acquired to be truly appreciated. There is ample room in British Columbia for enterprising agriculturists if only they will direct their attention to tobacco planting."
When it is remembered that tobacco

from every tobacco growing country in the world was shown at this exhibition, the prominent place and extended notice given to Mr. Holman's exhibit must be highly gratifying to him and to the people of the whole Okanagan

The credit of securing the admirable position which the exhibit occupied at the show, is due to Mr. J. H. Turner, Agent General of B. C. in London, who spared no efforts to obtain for it the recognition which its importance as a coming industry demanded. In his personal letter to Mr. Holman announcing the close of the exhibition, Mr. Turner states that it has proved to be an excellent advertisement for the province as well as for the tobacco.

Four Cows Will Earn You MORE Money Than EIGHT Cows Earn You Now

The

Capital

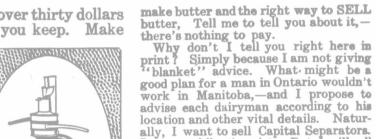
Tell me to show you how to get over thirty dollars a year more out of each cow you keep. Make

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

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

vou can make mor money in one year than eight cows will make you without my method.

butter than you'll make any other way. It won't be all separator talk I'll talk to you, you've read reams of separator argument, but you haven't heard yet about the right way to

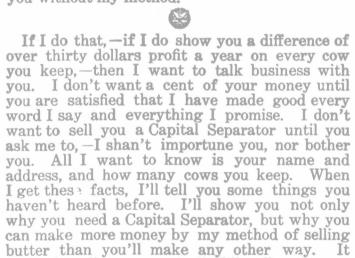


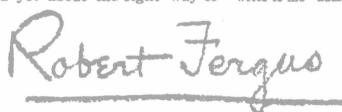
advise each dairyman according to his location and other vital details. Naturally, I want to sell Capital Separators. I am no philanthropist. But I will sell them faster because I can tell people how to make them pay,—and that's something new in this business.

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

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

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





National Manufacturing Co., Limited 51 Mail and Empire Building, TORONTO, ONT. to bu

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By spa

You THE itch them would be ens some charcoal, lvise beef nstantly but our ding is a ime, but :h winter : to keep sfactorily ı used.

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GOOD CLOTHES

Good Clothes are an outward and visible sign of success or a determination to succeed. The man you meet scans your clothes more closely than he does your business card. They tell him more

20th Century Brand Clothes

are tailored to win and hold the patronage of careful dressers. Spring styles now being shown by 250 agents from Dawson City to Sydney.

-TAILORED BY-

The Lowndes Company Limited, Toronto.

TO OUR FRIENDS FROM THE OLD LAND

By special arrangement with the publishers of the Overseas Edition of the London Daily Mail we are able to make this special offer:

The Farmer's Advocate one year.....\$1.50 The London Daily Mail one year..... 1.75

Our special clubbing offer gives both the papers for only.....\$2.25

You should keep in touch with the Homeland and read the best agricultural literature. This is easily done by this special low priced offer

THE FARMER'S ADVOCATE

WINNIPEG, MAN.

UNION SCALE FOR ATTORNEYS.

When it was announced that Mr. When it was announced that Mr. Delmas, who was brought from California to defend Harry K. Thaw, was to receive \$100,000 for his services there was general research into the higher rates prevailing in the pay for legal services. The estimate has since dwindled to \$25,000, and this seems to have relegated Mr. Delmas to a lower rank and threatened him with the loss of his union card. It is stated that James R. union card. It is stated that James R. Dill of New York received a million dollars for settling a steel Corporation dispute. Another persistent report runs to the effect that William Nelson Cromwell received one million, and possibly two million, for managing the sale of the Panama Canal to a syndicate. Mr. Cromwell admitted having received \$200,000, and said he expected more. This is not Mr. Cromwell's first big fee. For reorganizing the firm of Decker, Howell & Co. in 1891 he received from the court \$260,000. He is said to have been paid a \$100,000 fee on another occasion. It is claimed that Mr. Dill, now a judge on the New Jersey Bench, was paid a million dollars for straightening out the tangle between Andrew Carnegie and Henry C. Frick over the transfer of the properties merged in the United States Steel Corporation.

A fee of \$800,000 is said to have been paid to a New York lawyer William D.

paid to a New York lawyer, William D. Guthrie, for breaking the will of the late Henry B. Plant, owner of a system of steamships, railways, and hotels. Another large attorney's fee recently granted in a court's decision at Seattle was that of Senator S. H. Piles, who will get \$450,000 in the famous John Sullivan will case. In a contested will case recently closed at Milwaukee one firm of lawyages. firm of lawyers was allowed \$107,000. another \$50,000, and a third \$150,000. For a single argument before the United States Supreme Court Joseph H. Choate is said to have received \$200,000. The effect of the argument was the declaring unconstitutional of the income tax. The payment of great fees for services in court is anything but flattering to the courts. It is a plain intimation that their decisions are affected by the ability of the counsel. Yet by a strange distortion of logic these fees are regarded as affording grounds for increasing the salaries of judges. There has been some talk of great legal fees in Canada, but alongside of these records they look like non-union rates in an open shop and no recognition of the walking delegate.—The Globe.

REGISTER_IMPORTED CLYDES,

Owners of imported Clydesdales hould not overlook the announcement in another column of the new regulation with regard to recording pedigrees. Much future trouble and expense will be saved by attending to this matter before July 1st.

. . . King Edward has opened the splendid New Bailey which has been erected in London on the site of Newgate jail at a cost of about £300,000. The Old Bailey had been used for the administration of justice, he said, since 1188, but the first mention of a sessions house was in 1356, the year of the battle of Poictiers. The name given to the building at that time was the "Sessions Hall." In 1785 a new sessions house was built by the corporation. The building was added to from time to time until 1834, when the present sessions house was built. The first trial of prisoners in it took place on November 24, 1834.

"This proposition," said Rudolph Boker of Indianapolis during a share-holders' meeting, "reminds me of one that a wife made to her husband the other day.

'James,' she began, 'you know how I have been scraping and saving all

the year for my Easter costume.'
'''Yes,' said the man, 'I know.'
'''Well,' she went on, 'I've decided on it now. It is an empire gown of pale green broadcloth, and it is to cost \$150. I want to ask you to help me a little.' "How much do you need?" the

husband inquired. "'I've got all but \$125, 'she replied."

MICKU SALELL N

WANTS & FOR SALE

Advertisements will be inserted under this basding, such as Farm Property, Help and dituations Wanted, and miscellaneous advertising.

TERMS—Two cents per word each insertion.

Bach initial counts for one word and figures for two words. Names and addresses are counted.

Jash must always accompany the order. No advertisement inserted for less than 50 cents.

BULL FOR SALE—Aberdeen-Angus, 4 years old, recorded in the Canadian Aberdeen-Angus Association's Records. Very sure. Weight 1,800. S. E. Armstrong, Lumsden, Sask. 12-6

SABLE COLLIE PUPS from imported stock.
White Rock cockerels, also White Rock eggs
for hatching. Glen Bros. Didsbury, Alta. 5-6

PLANTS—Tomato plants 25c. per dozen; cabbage, cauliflower and celery plants, \$1.00 per 100; Asters, stocks, snapdragon, pansies, verbena, etc., 25c. per dozen by express at purchaser's expense. If wanted by mail add 15c. per dozen for postage. Address all orders to W. A. Linden, Box 47, Portage la Prairie, Man. 12-6

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

WANTED—Experienced and reliable person to look after purebred cattle. Married man preferred. Wife could help in the house. Address, J. B., FARMER'S ADVOCATE office, Winnipeg, Man. 19-6

FARMERS AND STOCKMEN—Our new book entitled "Live Stock and Complete Stock Doctor" covers every subject pertaining to stock of whatever kind, in health and disease, and meets a positive want felt by every farmer and stockman. Send for illustrated circular to-day. Cody and Hawley. 32 Commonwealth Block, Winnipeg, Man.

SUNNY BRAE, Oakburn, Man., importers of purebred Clydesdales, some choice stallions and fillies, prices right. Tait & Halliday, C. P. R. and C. N. R. 5-6

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

POULTRY and EGGS

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

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

AT MAW'S Poultry Parm, Parkdale Post Office near Winnipeg. Acclimatized utility breeds' turkeys, geese, ducks, chickens, incubators and poultry supplies. Large catalog mailed free,

ADDRESS YOUR CORRESPONDENCE to the Bden Rest Poultry Farms, P.O. Box 333, Lethbridge, Alberta, when you want eggs for hatching from pure bred, barred white and Buff Rocks White and Buff Wyandottes, S.C. White and Brown Leghorff and Buff Orbingtons. Eggs \$1.50 per setting. E. J. Cook, Mgr. 26-6

FOR SALE—Stock and eggs of the following breeds: White Wyandottes, Black Minorcas, Buff Rocks, Blue Andalusians, Black Langshans, R. C. Rhode Island Reds, White Leghorns, Pekin Ducks. R. P. Edwards, South Salt Springs, B. C. 5-6

REDUCED PRICES—S.C. Buff Orpington and brown Leghorn eggs. \$1 for 15; \$5 per 100. Orders taken for Berkshire pigs.—Allan McEwen, Clearwater.

FOR SALE—White Wyandotte's eggs, Massie Dustan strain, one dollar per setting. Alex Porter, Alexander, Man. 5-6

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

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

TURKEY EGGS \$3 per doz. B. P. Rocks and B. Leghorn, 15 eggs \$1.50. Rabbits and pigeons. Geo. Perceval, Priddis, Alta. 5-6

W. F. SCARTH & SON'S S. C. Buff Orpingtons. Eggs from carefully selected hens mated with first prize cock, Manitoba Poultry Show, 1907, \$2.00 per 13. Box 706, Virden.

CHOICE SINGLE COMB Snow-white Leghorn eggs from carefully selected pens of choicest matings. Bred for heavy layers and typical beauty. Testimonials report excellent hatches. Selected eggs reduced to \$1.50 per setting. Good hatch guaranteed. Orders filled promptly. Honest dealings. G. Norman Shields, 29 Close Ave., Toronto, Ont. 22-9

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

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

Breeders' Directory

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

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

A. & J. MORRISON, Glen Ress Farm, Hememond, Man., Clydesdales and Shortherns.

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

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

GUS. WIGHT, Napinka, Man.—Clydesdales an Shorthorns for sale. Evergreen Stock Farn

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

O. KING, Wawanesa, Man.—Breeder of Yorkshires, Barred and white Rock Fowl and Tot-

MERRYFIELD FARM, Fairville, Thos. Brooks breeder of Clydesdales and Shorthorns. Box 18: Pense Sask.

CLYDESDALES, Shorthorns and Tamworths T E. M. Banting & Sons, Banting, P. O. Man. Phone 25, Wawanesa. Exchange.

STROBSA STOCK PARM—Well bred and care fully selected Shortherns and Berkshires David Aflison, Reland, Man.

SHETLAND PONIES and Hereford Cattle, finess in Canada. Write or come and see them J. B. Marples, Poplar Grove Parm, Deleas. Man.

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

R. A. & J. A. WATT, Salem, Blora Station, G.7 and C. I. R. R.—Champion herd at Toronta and New York State fairs, 1995, also Gran-Champion females, including both Senior and Junior Hemora at both fairs. Write you

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

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

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

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

GEORGE LITTLE, Neepawa, Man.—Shorthorns of best Scotch type.

BELLEVUE HERD of Yorkshires—Boars in service: Oak Lodge Gamester, Summerhill Oak and others. Young stock got by the above boars out of choice sows ready to ship soon. Eight litters to select from, order early. Oliver King, Wawanesa, Man. 5-6

Lost, Strayed or Impounded

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

ESTRAY.

DELEAU, MAN.—Two Shetland pony mares, both black; one having one white hind foot white stripe on face, and glass eye. Information leading to recovery rewarded.—J. E-Marples

FOR ANYTHING YOU HAVE FOR SALE USETHE FARMER'S ADVOCATE

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

COWAN'S Perfection

COCOA
is guaranteed absolutely pure

The Cowan Co. Ltd., Toronto

and is recommended by the

best medical authority.

This Surplus of Over a Million and a-Half

-\$1,552,364.26—the 1906 surplus of The Mutual Life of Canada, on Government Standard of Valuation—or \$1,203,378.58 on Company's Valuation Standard (an increase on the latter, for the year, of \$251,377.46)—proves that The Mutual Life enjoys, to an extraordinary degree, the full confidence of the people.

The gains in every department are far beyond our expectations—and the steady gains of preceding years had made those expectations reasonably high.

Write the Head Office, Waterloo, Ont., for particulars.



"Only One "BROME QUENCE"
That is LAXATIVE BROMO Commander remedies sometimes the sirest and original Cold Public PACKAGE with black and reduced bears the signature of E. W. GROVE.

AN APPLE DID IT.

The tailor's sign in a little inland town was an apple, simply an apple. The people were amazed at it. They came in crowds to the tailor, asking him what on earth the meaning of the sign was. The tailor with a complacent smile, replied: "If it hadn't been for an apple, where would the clothing business be to-day?"

"Yes," remarked a country merchant, "I certainly have a snap. The houses send duns every month and draw on me at sight, but if I send a bill to a farmer he becomes swearing mad and quits trading at my store. While I am hard up for money, many of those who are owing me are sending cash in advance to mail order houses. If I contribute money to any cause people say I am bidding for trade. If I don't they say I am a hog. Every day I am expected to dig up for everything that comes along, from a raffle ticket to a church fund by people who claim I ought to do this because they do part of their trading here, but the mail order houses neither buy tickets nor help the church fund, and yet get the cash in advance business; and if I were to circulate a subscription paper among the wholesale houses where we trade, I would get the laugh proper. If I sell a pair of pants I must treat the family to candy and cigars; if I buy a load of potatoes I must do the same. Customers who are able to pay, hang on to their money, while I pay 10 per cent. at the bank to get ready cash. I have a big business during hard times and poor crops from people who are willing to trade with me, providing I can duplicate catalog house prices and wait until harvest for money. My scales weigh too much, when I sell sugar, and too little, when I buy butter. I am a thief, a liar and a grafter. If I smile I am a soft, soapy hypocrite, and if I don't I am a grump. Yes, certainly this is a snap." And he looked over this is a snap." And he looked over \$10,000 worth of accounts, all good, and wonders how he could raise \$350 to pay a sight draft due to-morrow. -Ex.

It was a case of breach of promise. The defendant was allowed to say a word in his own behalf.

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"Yes," he said "I kissed her almost continually every evening I called at her house."

Lawyer (for defendant)—Then you confess it?

Defendant—"Yes, I do confess it. But

I had to do it."

Lawyer—You had to do it! What do you mean?

Defendant—"That was the only way I could keep her from singing."
The jury gave a verdict for the defendant without leaving their seats.

Descending in great haste from the top story of a hotel to catch his train, a traveller found when he reached the hall that he had forgotten his umbrella. "Just go-up to my room, No. 37," he

called to boots, "on the top flight and see if my umbrella is in the corner; and be quick, as I have to catch a train."

Boots fled upstairs his fastest and returned within a minute.
"Yes," he said, "it's all right; it is in

the corner ust where you thought it was."—Pele Mele.

Officer Roberts of the traffic squad, who holds down the four corner's at Dey street and Broadway, is a wit as well as grammarian. Recently he cited two examples of English as it is misspoken in New York. One man came up and said:

"Do you know where Cedar street"

"Yes," said Roberts turning away.
"But you didn't tell me how to get there," added the pedestrian.

"You didn't ask me," was the cop's aughing reply. "You asked me if I thew where Cedar street was."

Another man inquired:

Another man inquired:
"Where is John?" meaning that

Toking a day off, "retorted Roberts by the his side partner—and the sold sent away puzzled.—New the total cand Commercial Advertiser.

'OUNDED 1866

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d Roberts —and the ed.—New Advertiser.

Gossip

WESTERN CANADA GETS MORE DRAFT HORSES.

The Scottish Farmer of recent date says with reference to a shipment to that popular importer of Clydesdales, Jno. Graham, of Carberry:

"Last week there was a great rush to get Clydesdales shipped, that they might be landed in Canada before 1st June. The Donaldson liner Parthenia carried somewhere over eighty head for buyers from Manitoba, British Columbia, and Ontario. Mr. John Graham, Carberry, Man., had twelve, of which number ten were mares or fillies and two were colts. All of them were purchased from Mr. Matthew Marshall, Stranraer. The remaies were got by the Darnley horse Carthusian (9722) which bred well in Wigtownshire and elsewhere; the noted premium horse Mercutio (11431), by Hiawatha; the big horse Gallant Pride (12989); the well-bred Park Mains horses Sir Humph-rey (11942), and Sir Wamphray (11203), for some time stud horse at Hedderwickhill; the celebrated sire of champions, Baronson (10981), and in this case the dam is by the unbeaten Cawdor Cup champion Prince of Carruchan (8151); the favourite premium and breeding horse Up to Time (10475), like Baronson, got by the champion sire Baron's Pride (9122); and the Seaham Harbour noted stud horse Lord Stewart (10084), the dam of the mare by him being got by the champion Orlando (8092), and the grandam by the other champion Flashwood (3604). Altogether, this shipment is likely to be received with favor in Manitoba.'

Mr. J. S. Morrison, Kamloops, B. C. a native of Bute, had a shipment of twenty-nine Clydesdales and one Hackney. He had eight fillies and three colts from Mr. Archd. Crawford, Broughton Mains, Sorbie, all of which were bred in Wigtownshire, out of some of the bestknown studs there. These were got by the well-known premium and prize horses Durbar, Argosy, and Pride of Blacon, of the Baron's Pride—Sir Everard race, as well as by Royal Chief, a son of the great champion horse Royal Gartly, and Broughton Chief, of the same race. From Mr. Wm. Murray, Borrowmoss, Mr. Morrison purchased two Clydesdale colts by the celebrated sire Baronson (10981), the sire of the champion Oyama; and the Hackney, which was got by a son of the Gowanbank stud horse Ruby, which died last Mr. Morrison had also growthy, useful, well-bred fillies from Mr. Jas. Kilpatrick, Craigie Mains, and eleven fillies from different breeders in his native island of Bute. Three of these were three-year-olds, one was a yearling, and one a four-year-old. The rest were two-year-olds. This is the first shipment made by Mr. Morrison, but it is not likely to be the last. He is breaking new territory for the Clydesdale and deserves to succeed.

BIG SHORTHORN SALE AT REGINA.

Those who note the trend of the times will doubtless have marked June 26th as the day of the auction sale of Shorthorn cattle at Regina. Notice of the date and the breeding of some of the immediate sires of the stock offered has been given before and here we wish to refer to some of the individuals themselves. In the first place we might say that the whole herd impresses one with its uniformly strong character and the evenness of the lot. There are not thin culls to reduce the general average, but all are big, growthy, breedy-looking females and strong, sappy, rugged bulls.

Most of the cows and heifers are rec but there are a few roans. Nearly all those of a breeding age have calves of are in calf, and every thing is offered natural condition. On opening talog which is now ready the first intered is Amaranth 51675 by he Archer (imp.) and her dam erl of March, two very celebrated Amaranth is a good type of breeding Shorthorn should be, lar breeder, raises her calves,

ORNATE CÖLÖNLAL DESIGN

Sourlay Planes-If Your Boy or Girl Plays an Instrument

Is there any more delightful way of adding to the pleasure of life in the the home than by accompanying your child on a piano that assists the performer in producing the sweetest melodies and the most ravishing harmonies? But to get the best you must have the best piano in the world.

GOURLAY PIANOS

are unexcelled in responsiveness to the touch and possess a tone of the utmost melodiousness, pure, rich, and capable of expressing every shade of feeling. A "Gourlay" is indispensable, in every home that pretends to musical culture.

High-Priced But Worth the Price

Means something when applied to Gourlay Pianos, because they are the chief exponent in Canada of fine art in piano-building. No more serviceable and dependable pianos are made anywhere in the world. Tell us your needs by mail, and we'll do the rest to your fullest satisfaction. We ship the "Gourlay" anywhere in Canada on approval.

Write us for illustrated literature.

GOURLAY, WINTER & LEEMING

HEAD OFFICE: 189 YONGE ST., TORONTO

Clean Skimming

one of the greatest states in the consequence of the greatest states in the consequence of your separator. The skimming is the closest I have ever seen—just a trace of fat. I believe the loss to be no greater than one thousandth of one per cent."

That is one reason why you should insight upon having the Tubular. Tub-

That is one reason why you should insist upon having the Tubular. Tubulars are different, in every way, from other separators, and every difference is to your advantage. Write for catalog 5-186 and valuable free book, "Business Dairying."

The Sharples Separator Go.,

West Chester, Pa.

Toronto, Can.

Chicago, III.

PIANOS and ORGANS

Highest grades only

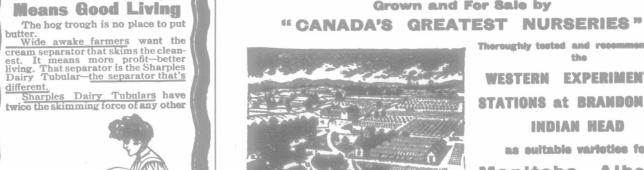
Prices reasonable and easy.

J. MURPHY & COMPANY

CORNWALL ST.



TREELESS



HARDY TREES FOR

Grown and For Sale by

Thoroughly tosted and recommended by

WESTERN EXPERIMENTAL STATIONS at BRANDON and INDIAN HEAD

as suitable varieties for

Manitoba, Alberta and Saskatchewan

SALESMEN WANTED

Start now at best selling time BIG INDUCEMENTS, PAY WEEKLY, PERMANENT EMPLOYMENT. Specially designed Western Outfit free. For full information

STONE **Over 800 Acres**

INGTON Toronto, Ontario FONTHILL NURSERIES

KADE MARK B&K

REGISTERED

Cereals bearing this trade mark push themselves along. Once used always used. Insist on getting this brand.

THE BRACKMAN-KER MILLING CO. Ltd.

CALGARY, ALBERTA.

ARAM BOAR B&K REGISTERED

TRADE MARA

B&K

REGISTERED

RADEMARR

B&K

REGISTERED

I Stand Back of **Huttig's Rubber Roofing**

With a Written and Personally Signed, Legally **Binding Guarantee**

causes roofings to decay.

Yes, sir-I can afford to stand back of my roofing, because it stands back of me, and makes my word good as gold.

Test it for yourself! Send for sample of

samples of Huttig's and the other roofings. Let'em soak for 24 hours, and note results.

tute sulphuric acid are found in the atmos-

phere, and it is their chemical action that

Huttig's Rubber Roofing requires no

It will not run, rust, rot, crack, leak, blow

off, require frequent repairs, and is not a fire

Now, here's how I feel about it. If you have use for roofing this season, you want the best, which is the cheapest in the long

You don't want to fool with a doubtful

Just put the burden on Huttig. My shoul-

Ask your dealer for Huttig's Rubber

article, when you can get Huttig's with a guarantee that means absolute protection,

both to your roof and your pocketbook.

skilled labor to lay it. Every roll contains

enough liquid cement, nails, caps, etc.

Remember, that the very gases that consti-

give you a written guarantee that my ucts of petroleum oil), crack in winter and roofing will do all I claim—not a mere verbal "run" in summer. They are not in the same promise, through your dealer, but an ironclass with Huttig's. clad, legally binding guarantee, signed by the **Huttig Mfg.** Co., capitalized at \$1,000,000, and responsible for every promise it Huttig's Rubber Roofing and the others; then do this—get a small quantity of sul-phuric acid from your druggist. Put in the

No other roofing gives you a personally roofing can afford to do so. Why can I do

Simply because my roofing is the only roofing on the market, made from pure, natural, imported Asphalt. That's why! That's the secret of my success with roofing.

Asphalt comes from the Island of Trinidad. A large part of it is used in the exclusive manufacture of Huttig's Rubber Roof-

My roofing is made of long-fibered wool felt, densely compressed and heavily saturated with this specially prepared Natural Trinidad Asphalt, which protects every particle of the

Now, mark this carefully: The saturation of Felt with Asphalt in Huttig's Rubber Roofing is 150 per cent as against 104 per cent, the highest saturation of any of the roofings with the crazy names.

That's the principal reason why my roofing ders are broad. I will take care of all your will not "stick" in the hottest, nor crack in roofing troubles, if you will trust me. the coldest weather.

Other rubber roofings, which have to depend on Texas and California Asphalts (prodme, and I'll see that you do get it.

Anyway, write for a big, Free sample of my roofing and let me send you my booklet A-1 and special iron-clad Roofing Guarantee. Write me personally, and do it today. H. W. HUTTIG, President,

HUTTIG MANUFACTURING CO, 718 E. Second St., Muscatine, Iowa W. F. Lee, General Contractor, 94-96 Mill St., Winnipeg, Canada Sole Agency for the Dominion of Canada

YOU should build fence like you make other permanent improvements. Tinkering does not pay. Fences made of light wire, and wires that break rather than give when it gets cold; fences that an unruly animal could break through; fences not properly stayed—these are not paying fences. Ideal fence is the right kind. It is made of No. 9 hard steel wire from top to bottom, and is heavier and stronger than any fence on the market. Remem—little fence book gives you all the point—

ber, it costs no more to dig your post | ers. Write us today for free copy.

and keeps in splendid mellow condition. She now has a six months heifer calf by Leader. In breeding she combines the Augusta and the famous Missie families. Amaranth 2nd, a two-year-old, is one of her best produce. This heifer handles mellow like her dam, is in calf and looks like a good useful breeding Shorthorn. She is by Sittyton Hero 7th, who was three times first and sweepstakes at Winnipeg and second at the Pan-Amer-

Amaranth 3rd is a yearling heifer out of Amaranth. She is a red calved last October, and is by the stock bull Leader (imp.). This heifer and her sister above indicate how regular their dam is in breeding.

Another of the very good cows in the herd is Victoria Pearl by Prince Gloster and from this on back her sires are among the most illustrious in Shorthorn history, while her dams were Mr. Cruikshanks noted Victorias. toria Pearl is a fine, matronly cow, a good breeder, an easy feeder and of splendid type.

Then there are Duchesses of Gloster 15th and 17th. The former is an exceptionally well ribbed cow of fair size and well covered; she has a bull calf by Leader. Duchess of Gloster 17th is her yearling heifer calf, a very sweet, thick, deep and square heifer by Leader also.

Another representative and her heifer is Golden Gloster, a Brawith Bud cow by Prince Gloster. This is an average sized, breedy-looking roan, five years old, with a bull calf at foot by Leader. Her two-year-old heifer Brawith Bud 2nd, is by Sittyton Hero 7th, and is a square, straight-lined, even young cow that handles nicely. The three-yearold cow, Golden Gloster's first calf Craigie Mains Gem, is a coming cow square, heavy quartered and true, being sired by the Toronto junior champion, Clipper Hero. Lavender Gem and Craigie Mains

Lavender II represent the Lavender tribe. Lavender Gem is a young cow calved in 1901, is a straight Lavender and by the good sire Prince Gloster. She is a splendid breeder, a square, even cow, heavy quarters and good middle. Craigie Mains Lavender II, her yearling heifer, is by Leader and is low, deep well-matured and full of character.

Two representatives from Jas. I. Davidson's herd are Necklace 28th and Necklace 29th. The former is one of the biggest cows in the herd, being very thick and low set. As a yearling she was fourth in a class of twenty-two at Toronto. She is by the good breed ing bull Sittyton Hero 15th and her dam a three-year-old, is a good type of Shorthorn, straight in her lines and of sweet character. She is by Choice Archer (imp.), a much-used bull in Ontario.

One of the best balanced cows in the herd is Gloster Flower, another of Mr. Davidson's breeding. She is four years old, smooth. heavy quartered and mellow. Her grandsire, Moneyfuffel Lad. was champion at Toronto three years in succession. Her yearling heifer, Prairie Flower, by Leader, is a most promising individual, being full sister to the Champion at Regina Fat Stock Show, 1906.

Golden Drop is a five-year-old cow extra wide and deep, a regular breeder and with lots of character. She is of the Golden Drop family of which was the highest priced bull, 850 guineas, at Mr. Duthie's last sale

An imported cow that should not be overlooked is Sittyton Flower, a square, sizeable, even cow, four years of ; ge, having raised a calf last year and again in calf to Leader. Northern Bounce is the last of the females we shall mention; she is four years old, by Prince Gloster, is smooth, wide and even, low-set and with heavy quarters.
The bulls are all young. The stock

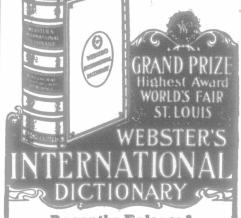
bull Leader having suffered an injury will not be offered. They are home bred and out of the cows mentioned above, being sired by Leader. From among the lot one gan pick herd header and all are capable of working improvement upon ordinary cattle

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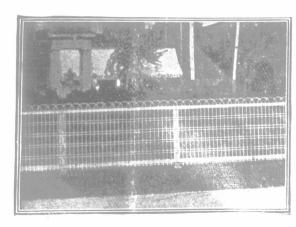
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PRAIRIE HOME SHORTHORN SALE.

June 13th has again been set as the date of Hon. Thos. Greenway's auction sale of Shorthorn cattle. This is the fifth annual sale at Prairie Home and the best opportunity, it is claimed, that has yet been offered to secure breeding stock. This sale differs from those preceeding it in that the whole herd is tor sale, although only about one half of the 80 head are cataloged. Prairie Home is for sale and the cattle are to be dispersed. There are also offered Ayrshire cattle, Clydesdale horses and Yorkshire swine. In all these breeds the bluest of blood prevails and there are many individuals that can take a

top place at large fairs.

Mr. Greenway has been some twenty years now in the purebred cattle business and has during that time been one of the most prominent figures in Shorthorn circles, not only in the West but throughout Canada. In 1901 his herd made a strong showing at the Toronto and Pan-American exhibitions, carrying off many of the best prizes. A few years ago at Winnipeg the Prairie Home contingent was always the formidable foe and throughout the whole West may be found cattle that once roamed the fields of Manitoba's greatest stock farm. The passing of Prairie Home from the stage of Shorthorn breeding operations should be signalized by a spontaneous tribute, in the way of long prices, to the good it has done the stock interests of the West. Shorthorn breeders, especially throughout Manitoba, by attending the sale and lending it a generous support, will not only give breeding a much needed stimulant, but will also secure cattle that will do their farms credit. The business in Western Canada needs some such impetus and breeders can only look for vitality in the trade by showing their own confidence in it.

Returning to the cattle. The offering as cataloged comprises a choice selection, including representatives of such families as the Victorias, Rosemarys, Lustres, Clementines, Isabellas, Matchlesses, Bracelets, Arabellas, Roan Ladys, Vacunas, etc.

Of the lot there are ten bulls offered, chief of which is the imported stock bull Rosy Morning, a roan-four-year-old, by the great bull Merry Morning who at seven months of age, brought \$2,250. Rosy Morning is a good typical Shorthorn, smooth, heavy fleshed and a good doer. Many of the cows offered have calves by him or are in calf to his service. Most of the other bulls are two-year-olds, being by such References: Any Bank, Railway or Ex- (imp.), Royal Duke, Judge Victor of the

The catalog which is now ready will be sent on application to those desiring it, mentioning this paper. Breeding notes of interest are given in it and should be secured by breeders of Shorthorn cattle.

Special rates on the railways will be given by obtaining from the home agent standard certificates. June 13th is the

Alex Galbraith & Son write as follows:- Mr. John Stevenson, of Souris, has just purchased from us the beautiful black Clydesdale stallion Silver Clink (12737)—one of the best horses ever imported into Manitoba. Silver Clink is by Gartly Squire and is a horse of medium size, lovely quality and extraordinary action. As a show horse or a sire Silver Clink has been equally successful and it is hoped that Mr. Stevensons enterprise in bringing such a valuable stallion into the community will be appreciated and rewarded.'

TUBERCULOUS CATTLE DANGER-OUS.

(Continued from page 846.)

9. Milk from tuberculous cows with unaffected udders we believe to be free from infection until it has become contaminated with feces or some other material that contains tubercle bacilli from the outside of the cows or from not believed that tubercle bacilli are eliminated with the rilk from tuberculous cows unless disease of the udder or



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

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

Dr. W. MOORE, referring to the invention, says that the principle upon which the Evans Vacuum Cap is founded is absolutely correct and indisputable. An illustrated and descriptive book of the Evans Vacuum Cap will be sent post free, on application.

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Cattle are going up in price. I shall not hold a sale this year, but parties will have abundant epportunities to buy by private treaty. .

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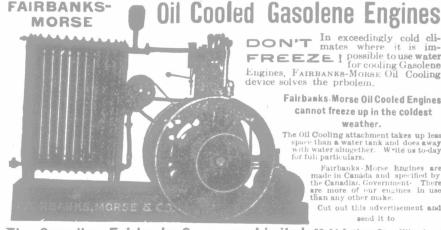
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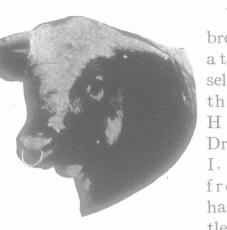
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Notable among the males to be offered is the magnificent imported bull, "Rosy Morning" (50081), bred by the world-renowned breeder, Wm. Duthie, of Collynie, Scotland. This animal combines rare breeding with very strong individual merit, and has proved himself a sure stock-getter. Among the

10 Bulls of Breeding Age

will be others by such sires as "Sittyton Hero 7th," "Royal Prince" (imp.), "Judge," and "Rosy Morning" (imp.) Also a number of bull calves by "Rosy Morning" (imp.). Among the females in the herd are about

40 Breeding Cows and Heifers

A large proportion of these young cows and heifers nursing or carrying calves by "Rosy Morning" (imp.). They are splendid breeding stock, excellent buying, and in many cases good show animals. Not all of the Shorthorns are offered in the catalogue, but they are all open for private purchase. There will also be sold a few

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to the milk of tuberculous cows. The present investigations include only a few cows and a comparatively small number of guinea pigs. The earlier investigations extend over a dozen years, during which milk from scores of tuberculous cows was injected into the abdominal cavities of hundreds

of guinea-pigs.
When milk injections into guinea-pigs are made by pathologists or bacteriol-ogists as a test for the presence of infec-We began our breeding operations as a test for the presence of infectious material, unusual, though not always sufficient precautions are taken at the time of milking to protect the milk from contamination with foreign matter of any and exterior of the cow or her environment. It follows the herds of that the scientific injections give nearly the herds of Hon. John

Dryden and Jas.

I. Davidson,

That the scientific injections give hearly accurate results as to the frequency with which tuberculous cows pass tubercle bacilli with their milk; but they give no data at all as to the frequency with which milk from tuberculous cows, or healthy cows in a tuberculous cows, or healthy cows in a tuberculous environment, contains infecfrom whence culous environment, contains infectious material when it is drawn and have come cat- handled with the ordinary precautions that a dairyman can economically tle that have practice.

The observations made by the writers definitely show that the frequency with which milk contains tubercle bacilli is greatly underestimated, especially when it is milked in the customary way from tuberculous cows with healthy udders, or from entirely healthy cows

in a tuberculous environment.
o. It has been positively shown that the introduction of a small quantity of feces from tuberculous cattle into normal milk is equivalent to the introduction of a sufficient amount of infectious material to cause a generalized tuberculosis in guinea-pigs that are given intra-abdominal injections of small amounts of such soiled milk.

The quantity of feces introduced into the milk was no greater than frequently enters with ordinary milking

10. We are unacquainted with any means by which it can be determined when cattle or their feces become dangerous to the health of persons or animals; hence every cow known to be affected with tuberculosis must be regarded as positively dangerous. Physical condition gives no information from which it is possible to determine how seriously a cow is affected with tuberculosis or how freely she is scattering tubercle bacilli. Cattle affected with advanced tuberculosis from which infection is being disseminated in a dangerous way may retain the appearance and give the general impression of perfect health. Frequently nothing abnormal can be detected about them Why not use Business Stationery? after the most searching examination by the owner or even by a trained veterinarian; and besides it is not customary to make careful examina tions or to employ professional men to do so until cattle show marked symptoms of disease.

11. In order to guard against the spread of tuberculosis among cattle and other animals, and more especially for the protection of persons, every dairy cow should be periodically tested with tuberculin, and every cow that shows a reaction indicating that she is affected with tuberculosis should at once, regardless of her general appearance or condition or semblance of health, be removed from use as a dairy cow and from all contact with dairy cattle or other healthy animals If segregation is practiced, it should be complete, so that no healthy animal will be exposed to feces that may swarm with living, virulent, tuberele

HOW THE FANCY CHEESES ARE

(Continued from page 851).

The following brief studies of the making and ripening processes of the three varieties of cheese kept the prolem constantly in view:

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JUNE 5, 1907

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Brydges, Blakemore & Cameron, Ltd.

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and sold as milk, but in the summer months better returns can be derived from cheese. The largest markets where this cheese is handled are perhaps Leicester and Melton-Mowbray.

To make good Stilton cheese the milk should contain at least 3 per cent. of fat; some dealers say 4 per cent. is still better. The common Shorthorn cattle in the dairy sections of England give milk with 3 to 3.5 or even 4 per cent. of fat. The cheesemakers say that Jersey milk is too rich in fat, causing discoloration of the cheese. Stilton cheese when ripe weighs about 14 lbs. It requires about 16 gals. of milk; that is, 9 or 10 lbs. of cheese are made from 100 lbs. of milk. Best Stilton retails in London at 18. 4d. (32c.) a pound for whole cheese and 18. 6d. (37c.) a pound for half cheese. No smaller pieces are cut in the best markets. In America we commonly buy Stilton the way boys trade jack-knives, 'sight unseen' (and with about the same result), at from 45 to 6oc. The poorer product sells in England for all prices down to that of the cheapest hard cheese—about 10c. a pound.

In the making of Stilton cheese there is apparently considerable variation of practice. One dairy instructor said that the milk is treated with rennet and the curd prepared exactly as with Cheddar. The process seen in another place was briefly as follows: The milk was heated to about 90° F. It was curdled in approximately one hour The curd was then dipped into a vessel covered with a coarse linen cloth, so that the whev could drain off through a valve in the bottom of the vessel The mass of curd after pretty thorough draining was lifted in the cloth to another vessel and placed in a warm room, approximately 70° F., over night to sour. In the morning the curd, which was by that time quite hard and sour, was kneaded in the hands into small lumps about one-half inch in diameter. Salt was thoroughly mixed into it, and the curd was then put into hoops. The hoops used were heavy tin, 15 or 16 inches (38 to 40 cm.) high and 7 inches (17.5 cm.) in diameter, with four transverse rows of holes about three-sixteenths of an inch in diameter to facilitate the escape of whey. The hoop was placed upon a smooth board and filled with the curd by bandfuls. In filling, the curd was distributed carefully and the surface smoothed with the hands. The newly made cheese was set to drain in the same warm day room where the curd had stood over night. This was done in one of the homes, where the cheesemaking is still sometimes carried on, by a farmer's wife who had taken the second prize for Stilton cheese in the national show and whose daughter at another time had taken first prize in that show.

The cheese so made remains in the hoops several days-one maker said nine days. It is turned each day. It must remain until the cheese is solid enough to stand fairly firm when the hoop is removed. The cheese is then carefully scraped or rubbed with a knife until the surface is smooth, then often wrapped in a cloth to assist in preserving the shape if it is still rather soft. In the earlier weeks of ripening the cheeses are turned every day and rubbed down every second day. As they became older and drier the amount of handling is very much reduced. Many dealers keep large, airy, dry cellars, where the ripening of the cheese takes place. In a large factory visited a series of rooms was used with a variation in temperature and humidity. Cheeses were taken from one to the other as their appearance and texture seemed to demand. One of these rooms was on the ground floor and continuous with the making room and remained quite moist. The second was some what higher and drier, while the third was on the floor above the first. For the most part no heat was supplied to such rooms, though this factory had nines for steam heat. It must be home in mind that the atmosphere of the For Sale 160 acres in Slocan Valley, no waste land; no stone, all level; soil first class, 2 nice streams. Close to school, P.O., Ry Siding, 7 acres cleared to the school, P.O., Ry Siding, 8 acres cleared to the school, P.O., Ry Siding, 8 acres cleared to the school, P.O., Ry Siding, 8 acres cleared to the school, P.O., Ry Siding, 8 acres cleared to the school, P.O., Ry Siding, 8 acres cleared to the school, P.O., Ry Siding, 8 acres cleared to the school, P.O., Ry Siding, 8 acres cleared to the school, P.O., Ry Siding, 8 acres cleared to the school, P.O., Ry Siding, 8 acres cleared to the school, P.O., Ry Siding, 8 acres cleared to the school, P.O., Ry Siding, 8 acres cleared to the school, P.O., Ry Siding, 8 acres cleared to the school, P.O., Ry Siding, 8 acres cleared to the school, P.O., Ry Siding, 8 acres cleared to the school, P.O., Ry Siding, 8 acres cleared to the school, P.O., Ry Siding, 8 acres cleared to the school, P.O., Ry Siding, 8 acres cleared to the school, P.O., Ry Siding, 8 acres cleared to the school, P. ours, while it lacks the extreme changes in temperature we find under most

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The time required to ripen a Stilton cheese is said to be five months for the best cheese. But there are several causes of uncertainty. Certain deleerious fermentations are very common. When these appear to a serious extent the cheese is sold and eaten much earlier and brings a much reduced price. Some cheeses refuse to mould properly, so that they do not develop the flavor of ripe cheese at all. Various schemes are used to hasten the growth of mould. The cheeses may be skewered (punched with holes with an instrument resembling a skewer) or it may be "ironed" and the plug left out some time to admit fungus spores. Such a cheeses becomes dry and hard without acquiring the proper flavor. Other cheeses mold too rapidly and decay quickly. It is seen that the problem of getting the proper amount and distribution of mold is still largely unsolved. Some makers are reputed to inoculate their cheese with mould, but this practice is discountenanced by most makers and instructors in cheesemaking.

In the ripening rooms another great source of loss is the universal presence of cheese mites. These tiny insects appear in countless numbers and eat and burrow into the rind of the cheese. So numerous are they that commonly the outer half inch of the cheese is totally destroyed. In the store-room visited nearly every cheese was surrounded by the powdery remains of destroyed cheese, which must be repeatedly removed. No satisfactory means of combating the mites has yet been found for Stilton cheese. There is, therefore, a continuous loss, sometimes seemingly as high as 15 to 20 per cent of the product."

In addition to the plague of mites, specific bacterial troubles which attack he surface of the cheese add to the hazards of the Stilton industry.

Even a hasty survey of the present status of the Stilton industry shows an unsatisfactory condition. The percentage of low grade cheese is too large. This, taken with a very appreciable percentage of total loss, is so great as to show much need for improvement in the methods used. But it is equally true that a really good Stilton will approximate in texture and flavor the best Roquefort, and that a small amount of even questionable Stilton finds a market in America at a price higher than Roquefort or Gorgonzola. It is therefore interesting to compare these methods with those used in producing Roquefort and Gorgonzola, in the belief that knowledge of each of these varieties may contribute something toward the improvement of methods in dealing with the problems found.

GORGONZOLA.

Gorgonzola is a cows' milk cheese made in Lombardy. The name comes from the village of Gorgonzola, but the town produces little or no cheese at the present time. The cheese is made all over that region upon farms and in small factories, from which it is transported to the ripening cellars as soon as it is solid enough to bear handling. The buildings and cellars devoted to the ripening of this cheese are situated in valleys of the Alps, principally near

Gorgonzola cheeses are about 30 cm. in diameter and 18 cm. thick, and weigh from 7 to 12 kilograms (15 to 20 lbs.) One hundred kilograms of milk are said to produce 14 to 18 kilograms of cheese. This figure was given, but appears too large. This cheese sells at retail in Europe, where seen by the writer, at between 25 and 30c. a pound. The usual price in America is 45c.

The making of a Gorgonzola cheese was seen in a factory near Milan, as follows: Freshly drawn milk is curdled cheesemaker. The curd is finely cut and the whey discarded as rapidly it separates. In a few minutes the curd is dipped into cloths stretched was lined with a coarse liner clot1

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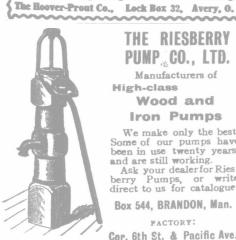


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carefully filled with the curd without pressure. A cheese so made is turned he next morning and each succeeding day for four or five days. It is then ready to remove from the hoop and to salt, the salt being rubbed over the outside. This salting process is repeated four or five times, or, according to other makers, every other day for two weeks. The practice probably varies in different factories. When the salting is

ported to the ripening room. The cheeses after salting are hard enough to stand considerable rough handling. In some cases they are properly crated for transportation, but very often they are simply piled into wagons upon straw, hauled to the ripening rooms, and roughly thrown out. Cheeses were often cracked and broken, besides acquiring sutticient dirt to mask their original color.

complete the cheese is sold and trans-

The rooms used for ripening Gorgonzola vary with the season and the stage of ripeness. For use in the warmer part of the summer one cellar was snown, half of which was filled with shelves, the other half with the winter's snow. Many tons of the snow of the preceding winter were still to be seen at the time the visit was made (November, 1905). In the cooler portions of the year the same factory provides rooms on the ground floor for finishing the ripening process, with some provision for proper heating. The fresh cheeses were found in large, airy rooms, both on the ground floor and on the floor above. The windows of these rooms were not screened, and stood open at the time, with fresh breezes blowing through the room from mountains whose summits were that day covered with snow. These rooms contained shelves as closely crowded as possible and together provided for about 40,000 cheeses.

When one month to six weeks old these cheeses are mostly covered with a yellowish viscid layer largely of bacterial origin, with probably also Uidium lactis (judging by the smell). At this stage they are punched or skewered. The operator uses a brass instrument about 6 inches long, tapering from a sharp point to a thickness of 4 to 5 mm. at the base, where it is set in a wooden handle like a gimlet. With this tool holes are made at intervals of about 11 inches over the whole surface of the cheese, 150 holes being made. This operation requires about two minutes for each cheese. In these earlier weeks of ripening each cheese is turned once in two days, but later the turning is reduced to once in eight days, after the surface of the cheese has become dried so that the cheese no longer sticks to the shelf. As such a cheese becomes older the surface becomes hard and dry and frequently cracks. This cracking is not objected to by the dealers, however, as it is in the case of some other cheeses. Upon entering a room filled with such cheeses a very strong ammoniacal smell was at once noticed. When tested the cheeses in this room showed an abundant presence of green mould in the holes and cavities, and gave a somewhat bitter taste which was just passing over into the taste of ripe cheese.

An examination of fresh made Gorgonzola as it reached the ripening rooms showed that the texture of the newly made cheese is frequently almost homogeneous. The masses of curd are commonly so completely blended that in sections very few air spaces are found in large areas and where such air spaces are found at all they are very small. To induce uniform mould growth it is therefore necessary that holes be made evenly throughout the cheese. Only in this wa yean mould action affect all parts of it. Parts are often found in a market cheese where, for lack of such holes, no mould has developed. It is also found that whole areas in these cheeses are often infected with bacteria of the species found upon the surface. These bacteria produce areas of discoloration and decay, and frequently injure the flavor of the whole cheese A study of the handling shows that these bacterial infections are due to organisms carried into the cheese by the punching process. Such observa-

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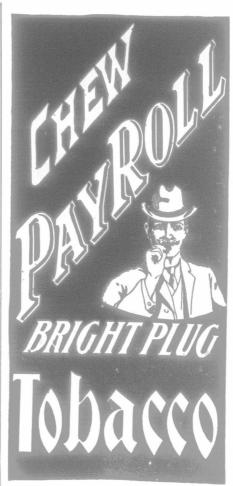
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tions may account for the uneven distribution of bacteria in Gorgonzola cheese as reported by Rodella.

Gorgonzola cheeses are sold for the retail market when three to four months old. Before leaving the factory they are coated with barite held together by a mixture of lard and tallow and colored with annatto or a similar coloring matter.

It needs but a casual survey of this process to see that the hand labor used is less efficient than the methods of the Roquefort makers, and that biological principles are nearly lost sight of in attaining the desired end. However, a large measure of good results are obtained and immense quantities of cheese are produced.

B. A. I. REPORT.

MISTAKEN IDEAS!ABOUT BREEDING.

Some erroneous ideas in regard to breeding prevail among horsemen. One is that the second foal which a mare produces by any stallion is sure to be of no account. A subscriber writes as follows: "Please let me know whether returning a mare to the same stallion is a detriment to the offspring. I was told this morning that invariably in such cases the second foal is a dub and it is better not to breed a mare the second time to the same stallion.

There undoubtedly have been cases where the second foal that a mare produced by the same stallion was not so good as the first. The condition of the mare or stallion before and at the time of mating may have been the cause in such cases. The influence of atavism or throwing back to some remote ancestor is also frequently sufficient to make a great difference in the characters of two foals of different yeas, that are the offspring of the same 1 apparently bred and raised inder precisely similar conditions. With some men a single case seems sufficient to establish in their minds a rule. Such men, though they may be honest and well meaning, are not safe guides for breeders to follow.

Horsemen of England are without doubt as a class the most enlightened breeders of high-class race horses in the world. They had been breeding and raising horses for racing purposes and had been racing them for several hundred years before the breed known as Thoroughbred race horses was established. The law of heredity is the same in the running as in the trotting families. Some of the practical breeders of race-horses in England have written and published interesting and valuable standard works on the subject of breedmodern authors is William Day, who wrote a work that was published in 1888 by Richard Bentley & Son, London, Eng.

In one of the chapters of this work the author remarks that "a curious fact which must be familiar to most breeders is that a mare will often breed better horses from one particular stallion than from others. Yet where such has been observed to be the case, efforts are seldom made to preserve the connection which has proved so favorable." Continuing he gives the following advice: 'Should a mare breed a winner, if only of a small race at or about the commencement of her breeding career, it gives presage of better things; and the same cross should be persevered with, even though a bad horse or two may now and then result from it."

Fortunately the Year Book and Register furnish a correct basis for an intelligent opinion on this question, an opinion founded on facts, not on theory or imagination. We will mention a few of these facts. In 1885 Sapphire, by Jay Gould, 2.21½, produced the stallion lominee, trotting record, 2.171. Sapphire's next foal was also by Jay Gould and is known as Nominator, trotting record, 2.17¼. Nominee, 2.17¼, is the sire of the trotter Nominated, 2.26½, and is also credited with three pacers. Nominator, $2.17\frac{1}{4}$, sired the trotter Notion, $2.20\frac{1}{4}$, and is credited with one Nominee pacer with a standard record.

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McGillyray I. Manitou
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oung, J. M. Portage la l The practice of the veterinary profession in Manitoba by any other person is in direct contravention of the statute, and renders him liable for prosecution.

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FREDERICK TORRANCE, Registrar.

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Winnipeg

Beatrice, by Cuyler, was mated with Pancoast, 2.213, and in 1880 produced Patronage, sire of Alix, 2.033. The next foal that Beatrice produced was Patron, 2.141, by Pancoast. Patron trotted a record of 2.191 as a threeyear-old and it was then the world's champion record for trotters of that age. Anteeo, 2.16½, was the first foal that the great brood-mare Columbine produced by Electioneer. Her next foal was Antevolo, 2.19½, by Electioneer. Penelope, by Mohawk Chief, mated with Electioneer produced the noted ten-heat race winning trotter Pedlar, 2.184. Penelope's next foal, was by Electioneer, and was the game trotting mare Peko, 2.111.

The great brood mare Fleetwing, by Rysdyk's Hambletonian, produced two foals, by Sultan, 2.24. The first was Ruby, 2.193, and the next was Stamboul, 2.071. Pantalette, by Princeps, produced two trotters by Auditor that made fast records. The first was Burglar, foaled in 1879, and her next was Epaulette, 2.19, foaled in 1880. Angeline, by Chester Chief, produced two foals by Shadeland Onward, 2.18, that made fast pacing records. The first was foaled in 1889 and is Ontonian, 2.07½; the second, foaled in 1880, was Online, four-year-old record 2.04, which is the world's champion four-year-old record to harness.

The great brood mare Alma Mater produced several foals by George Wilkes. The first was Alcantara, foaled in 1876, trotting record 2.23. Her second was Alcyone, foaled in 1877, trotting record 2.27. The latter died when only ten years old, but it is generally admitted by the best posted horsemen that, short life and opportunities considered he was the most remarkably successful sire and perpetuator of speed that has ever lived. Abbess, by Albion, produced several foals by Strathmore. Her first, foaled in 1875, was the great brood mare Soprano. Her second, foaled in 1876, was Steinway that lowered the world's champion record for three-year-old trotters to 2.253, at Lexington, Ky., August 26, 1879. Steinway is now credited with 14 trotters and 26 pacers that have made records in standard time, one of which is Klatawah with a three-year-old record of 2.05½, the world's champion record for three-year-olds to harness.

Flora, by Sayre's Harry Clay, 2.29, produced several foals, by Volunteer 55. The first, foaled in 1868, was a colt that was gelded, named Abelard, but he failed to make a record in standard time. Her second, foaled in 1869 was St. Julien that lowered the world's champion trotting record first to 2.12} and later to 2.11. Belle Brandon produced two foals by Rhode Island, 2.23. The first was a filly that never took a record. The second was Governor Sprague that trotted to a record of 2.201, as a five-year-old, which was then the world's champion record for five-year-old trotters. Governor Sprague was sold as a five-year-old for \$27,500 to the late J. I. Case. Rhode Island died in 1883 when 12 years old yet he is credited with 36 trotters and two pacers that made records in standard time.

The above are only a few of the many instances that can be named, but we trust that the list is sufficient to convince our subscriber that the man was mistaken who asserted that the second foal that a mare produces by the same sire is "invariably a dub." When a mare has produced an unusually promising foal by any sire it shows good judgment on the part of her owner to return her to the same sire. Prove all things and hold fast to that which is good.—The American Horse Breeder.

DEVELOPED FROST-PROOF CATTLE.

A former Iowa man, who, a few years ago, hiked to the Canadian Northwest to carve out a new fortune, returned to his former home the other day (says the Chicago Live Stock World), and in answer to an interrogatory as to cattle losses in his section, replied—" I didn't lose a steer.'

"But" persisted the sceptics, "isn't it cold enough up there to freeze 'em

"Not my cattle," he replied.

house 'em."
"But how do you feed 'em?" "Don't do it. I've got the best cattle

Warm, Dry and Tight in any Climate

If you put this roofing on your buildings it matters not whether you live in Maine or Florida, your stock, grain and implements will be absolutely protected from wind, rain and storms of every kind.

Amatite doesn't freeze in zero weather, nor does it "run" when the thermometer is high. It's the best roofing for use the country over. It comes ready-to-lay. We send nails and

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(the men I have cured) are shouting this all over the world. You can't hear it too often.

"Let every man know it." "I will preach the merits of your wonderful treatment wherever I go." "It has been worth its weight in gold to me, and I will never cease shouting its praise."

Such are the messages of gladness sent in to me from patients restored to health and strength by my Electric Belt. They come daily, and nearly always after other treatments had failed.

Varicocele, Spermatorrhoea, Losses and Drains and all ailments which destroy Manhood's Vigor are cured by DR. McLAUGHLIN'S NEW ELECTRIC BELT. The Free Electric Suspensory for Weak Men sends the current direct to the Prostate Gland, the seat of all weak ness. It develops and expands weak organs and checks losses. No

case of weakness can resist it. Electricity is an external application. By the infusion of a current through the suspensory into the weakened parts, every nerve and tissue is affected by it. They are immediately strengthened with the new life; they expand and develop with each application until complete vigor and strength are restored. new life; they expand and develop with each application until complete vigor and strength are restored.

Every day we have evidence that the weakling has no place in the busy, bustling life of to-day. It takes nerve and strength to go up against the obstacles we are now forced to encounter, and this the weakling lacks. Look about you and see the successful man of to-day; it matters not whether he be a Merchant, Lawyer or Laborer, with head erect, eye clear, strength in his every movement, he is ready to tackle any problem with that enthusiasm which insures success.

I can make just such men of weaklings. I care not how long they have been so, nor what has failed to cure them. Let them wear my Dr. McLaughlin's Belt every night as I direct, and in place of the weak-nerved, debilitated being, I will show you a strong man—full of vigorous life, with nerves like steel and ready to look any man in the face and feel that he is the equal of the best of them and can do what they can do.

You will say this is promising a great deal. I know it, and can show you evidence that I have done it for twenty thousand weak men, and every one of them had spent from \$50 to \$500 on drugs before he came to me as a last resort.

Now, what does this mean to you, dear reader? It simply proves what I have been telling the public for the past twenty years, the only way to restore strength is by electricity. Drugs will not.

READ WHAT SOME OF THEM SAY :

"I should have written to you long ago, but neglected doing so. I got one of your belts nearly three years ago and used it according to your instructions for over two months, and I am well pleased with the result. My back, which was so weak and lame, is entirely cured, and has not bothered me since. I lent it to some of my neighbors with the same result. Wishing you all specess in your good work."—ALLEN SHOEMAKER, Grand View, Man.

"You must excuse me for not writing before this. The belt I bought from you some time ago worked all'right. I put it on at might and wore it until not unit, and it did me a lot of good. You can use my name with the greatest of pleasure. My back was entirely cured." -W. J. TIERNEY, Gladstone, Man.

"I received the Ben from you a month ago, and I now write you with pleasure. I am pleased to say that the Belt is deing me a great deal of good. My by has not troubled me once since the first night I had it on. I have a good appetite and I feel better than I have for severally riss. Franking you for the belt." —J. W. BUSH, 317 Pacine Avenue, Winnipeg. Man.

If you are skeptical, all I ask is reasonable security for the price of the Belt, and PAY WHEN CURED.

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Please send me your Book, free.

Office Hours-9 a.m. to 6 p.m., Wed and Sat. until 9 p.: The state of the s

or wintering purposes you ever saw When I first went up there I tried all the standard breeds for range purposes, out each succeeding spring found it was easier to count the live than the dead ones. Then an idea came along.

trapped a bear, domesticated him, and crossed Bruin on a Galloway cow. It you will believe me, and my veracity was always considered good around here, the result is a breed of cattle that is of fair beef quality, but its chief merit lies in the fact that it retains the hibernating instinct of the bear. When the first blizzard sweeps across the range, my cattle scamper for cover, and, like so many bears, tuck themselves away in less shed-room than you can imagine, and, resigning themselves to the arms of Morpheus, comfortably snooze the winter away. When grass rises, the herd casts off dull sleep, and calmly resumes chewing the cud and making money for me. Not only do they sleep the winter away themselves, but they save me the trouble of walking the floor

They made him a member of the Ananias Club on the spot.

PERSISTANCE IN TREE PLANTING WILL PAY WELL.

(Continued from page 851)

THE COST OF PLANTING TREES. "The plants were set in land which last year had grown a crop of seedlings. The ground was plowed and worked up in the fall. In the spring the rows for the trees were marked out by making shallow lines with a hoe drill, some of the teeth having been removed to make the rows the necessary distance apart. The trees were set in holes dug with spades. In this manner it took five men eight hours to set out an acre. Allowing a foreman's wage of 20 cents per hour and men's wage at 16 cents per hour, marking rows 20 cents, we find the actual cost of planting to be \$6.95 per acre.

'Plantation No. 2 cost considerably more than any of the others, the reason for this being that the maples used were very large, averaging over four feet high and some six feet. These were picked out from two-year seedlings as they were too large for shipping. It shows the extra expense entailed in handling large trees compared with small ones, say 18 inches to 2 feet high. We find too that a greater proportion die after transplanting as, owing to the larger root system, they are apt to be put in too shallow.

'It is intended to treat these plantations as a growing crop. As soon as the wood becomes large enough for use it will be cut. Careful records will be kept of all expenditures in connection In this way it can be determined what varieties and what mixtures are likely to prove the most profitable. Judging from the present rate of growth of cottonwood it is expected that thinnings will be made about six years from now, from which it is expected to obtain wood large enough for summer fuel, As the plantation grows older the wood will become larger and consequently more valuable

The shrubs planted along the drives and bordering the lawns have done well, though a few of the more tender varieties, owing to the lack of protection during the winter and the absence of snow, have been considerably killed back. Those suffering no injury, although absolutely unprotected, are the lilaes, Tartarian, Spirea Van Houtei. Spirea arguta, Caragana and Cinnalian

Catalog Right on time Righton quality Printing Right on price

ESTIMATES. . CHEERFULLY GIVEN. . . .

the Farmer's Advocate of Winnipeg

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These eedlings ARTIFICIAL IMPREGNATION IN DOMESTIC

The subject of this paper has been attracting more or less attention in breeding establishments during the past few years, and as there seem to be some features which have not been already discussed. I have been requested to bring the control of the second of the seco cussed, I have been requested to bring the question before you, and also to present a few points which I gathered in various ways as years rolled

By way of introducing the subject, it may be By way of intridicing the subject, it may be well to follow the example of those investigators who have given so much attention to the etiology or cause of disease during the past twenty or thirty years; and in doing so it will be in order to review some of those conditions which prevent fecundity in the natural way; for, if we do not understand the cause of an evil, it is hardly possible to adopt intelligent measures in its removal, and thus more harm than good may be done by laboring in the dark.

To begin with, sterility or infecundity may be regarded as the unfruitful result of copulation, and may be discussed under two distinct heads; viz., permanent sterility and temporary sterility. viz., permanent sterility and temporary sterility. The former is unfortunately, beyond our reach as far as overcoming it is concerned, in most instances, for example, hermaphrodites, or those animals which possess so many of the characteristics of the opposite sex to which they really belong a stallion looking like a mare and such like; animals of this description are invariably

In cattle, when twins are born, the one a male, In cattle, when twins are born, the one a male, the other resembling a female, the latter is called a "free martin" and as a rule these will not breed because they are usually hermaphrodites. Those free martins which I have examined after death have always been so defective in the make up of their generative organs that it would have been impossible for them to have conceived.

Hybrids are usually barrer, although there are some cases reported in which the female mule is said to have produced offspring. It is also the result of disease of the generative organs, such as fatty degeneration of the ovaries, or some other disease. I once saw a case in a bull which I attributed to tuberculosis of the testicles, and another case in a cow to general tuberculosis of her generative organs; her entire womb was little more than an indurated mass of tubercular deposit. Other cases, in stallions, have been the result of inability on the part of the testicles to form spermatozoa; at least I failed to find them in the fluid collected immediately after copulation and examined with the aid of a microscope. and examined with the aid of a microscope.

The temporary causes of sterility are numerous, but not always difficult to overcome, it is sometimes the result of premature or late coition, when the generative organs of the female are not in proper condition for conception in other in proper condition for conception words, when she is not in season.

Some breeders believe that for mares accustomed to hard work, active exertion before service is favorable to conception; and the Arabs for this reason are said to gallop their mares to such an extent as to bring them breathless before the stallion, and when the act is accomplished, leave the stallion, and when the act is accomplished, leave to fairly that it is accomplished. I have the stallion of artificial impregnation. is favorable to conception; and the Arabs for this reason are said to gallop their mares to such an extent as to bring them breathless before the stallion, and when the act is accomplished, leave them for a few hours to cool down; but I have seen the opposite to this procedure, both before and after copulation, so often practiced with satisfactory results, that I have yet to be convinced that one method has any real advantage over the other. Change of climate also seems to have a marked effect upon fecundity, sometimes putting it indennitely in abeyance. I have known cases where even removal from one state to another seemed to have a baneful effect on the fecundity of the cow. on the fecundity of the cow.

I think there is one cause of fecundity in the female which is often overlooked, and the failure to conceive is often attributed to a wrong cause and male animals are condemned as not being close at hand. and male animals are condemned as not being sure 'getters,' when really the fault, if it may be so called, is with the female. In an effort to make myself clear upon this point, let me say that the mental picture which I have drawn in my minds eye, in connection with the bursting of the Graafian vesicle and the discharge of the ovum is, that the pavilion of the fallopian tube, joining the ovary and the womb, is conveyed around the surface of the ovary by its imbinarian search of a ripe vesicle, and when it finds one and surrounds it in a proper manner the ovum (egg) is collected, and if other conditions are favorable, the process of reproduction is soon set agoing; but the movements of the fimbrize are favorable, the process of reproduction is soon set agoing; but the movements of the fimbriæ are under the control of the sympathetic nervous system, and we have abundant evidence that the operations of this system are very fickle, for which reason I think it is fair to assume that it often misses or tails to select the right spot upon the ovary to collect the ovum, and as a consequence the female fruit of cestrum escapes into the abdominal cavity, where it may soon perish; although the cestrum may have come on in the regular manner and other things have been perish; although the cestrum may have come on in the regular manner and other things have been conducted in a regular way, but the service fails to impregnate and the male is wrongly blamed for the failure. A strong argument in favor of this theory is, that artificial methods of impreg-nation sometimes fail for one or more trials, and again we have that peculiar condition of extra uterine pregnancy demonstrating most con-clusively that the ovum sometimes escapes into the abdominal cavity. the abdominal cavity.

Again, temporary sterility may be due to constriction of the mouth of the womb, the result of spasmodic contraction or organic disease of the tissues forming it; the former condition may sometimes be overcome by inserting a suppository of belladonna or some other antispasmodic, but the latter requires more positive and energetic treatment, which consists in some mechanical means for opening it up; such, for instance, as spreading it with the fingers or one of the many instruments designed for the purpose, and on theoretical grounds that would seem to be all that is necessary; but my own experience, as well as unsatisfactory results from the operation which have been reported to me by other veter inarians, cause m to believe that more heroid measures should be adopted; and any operation which I performed on a cow a few years ago tends to verify my suspice as and also shows that considerable fiberties may be taken with the os uteri without doing permanent injury to the animal.

purpose of a clearer understanding of it, it may be well to relate the various which led up to the operation, the way, I now regard as a comprosite way, I now regard as a comprosite way, I now regard as a comprosite way. he way, I now regard as a compro-n artificial and natural impregnation.

One of my pations, a Shorthorn breeder, purchased a cow, several hundred miles from his farm, and after bringing her home, subsequent efforts failed to produce impregnation, and it was finally arranged that I should visit the farm on a day when the cow would be in season. I did so, but was informed by the owner that he had telegraphed me not to come as the cow had come in season the day before the appointed time; but I did not get his message, and when I arrived all evidence of the costrum had subsided. After a short parley with the owner, the cow was handed over to me with permission to do as I pleased with her. I forthwith made an examination and found the os so fimily contracted that it would not yield to pressure of the index finger, although it was pushed against it until the cow exhibited her discomfiture by a moan, at which signal I decided I had gone far cnought with that part of the operation. I then introduced a concealed bistoury, which had been prespared for the purpose, and made a slight incision across the circumference of the organ, but it was not sufficient to permit free passage of the finger, although I had gained some ground. Whereupon, I made incisions until I could got the finger all the way through to the last joint; then, by manipulation, I finally got my entire hand, as far as the wrist, through the opening and into the womb. I then concluded that the limit had been reached as far as operating was concerned. The cow was then, with much difficulty, served by the bull, though, as might be expected, the service was of no avail: but, a naticipating this, I left instructions to have her served the next time the heat came on, and without any artificial interference. This was done, but somewhat to my disappointment the cow did not hold, as the heat came on a second time, and I had some visions that I might have carried the operation too far and possibly set up an inflammation which had again closed the mouth of the womb. However, I wished to give the served the next time the heat came on, and w

I doubt very much if cases like the foregoing could be impregnated by the ordinary artificial means which are now adopted, without, first of all, breaking up the occlusion

Another cause of sterility is undue protrusion of the cervix into the vagina and misplacement of the os uteri; the treatment is obvious.

of the os uteri; the treatment is obvious.

Turning for a few moments to that which may be regarded as purely artificial impregnation, I venture the opinion that if this operation is properly performed, the percentage of fecundated mares and cows will be materially increased, and we will hear little more of shy-breeders, while the offspring, as far as my observations have gone, are just as vigorous and perfect as those produced in the natural way, and the fecundating fluid of the male may be economized to a remarkable extent. In the literature of the subject I find mention made of fecundating two or even three mares with one discharge from the or even three mares with one discharge from the

The technique of the operation is simple in the extreme, especially for those who are familiar with the anatomy of the parts, and who observe due cleanliness in their operations. The instruments required are simply a suitable syringe and a glass beaker, or some such vessel warmed to about 100 degrees Fahr. I have used a water-bath for keeping things warm (a sand bath might be more convenient), and when a number of animals are to be fecundated from a single discharge, think the chances of success are greater when the fluid is kept at about the temperature of the body. The technique of the operation is simple in

The animals to be operated upon should be

The remarkable things which are transpiring in the scientific world these times, in transplanting specific fluid cultures for certain soils and crops, and work of that kind, have caused me to think that there is a good, and unexplored field for experimentation in transporting the male fruit of impregnation hundreds if not thousands of miles —

E. A. Grange, V.S., before the Veterinary Medical Association of New York City.

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