AND HOME JOURNAL THE ONLY WEEKLY AGRICULTURAL

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SEPTEMBER 11, 1907

WINNIPEG MANITOBA

VOL. XLII, NO. 781

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WINNIPEG. MAN

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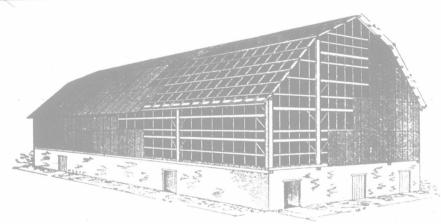
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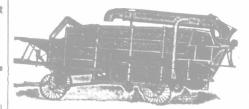
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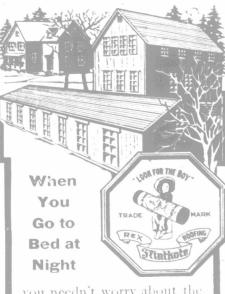


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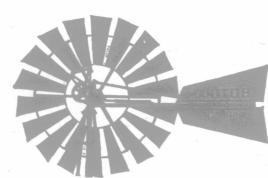
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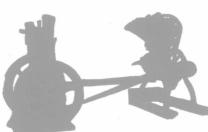
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Send us your grain and get other farmers to do

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Farmer's Advocate

and Home Journal

Sept. 11, 1907

WINNIPEG, MANITOBA.

Vol. XLII. No. 781



Knowing How and Doing It.

There is many an industrial institution that goes down because it is not able to get enough capital to just pull it through a crisis. The man who is always just a little behind with his work is quite familiar to us and we have all of us wondered that if we turned in and helped him to catch up, how long he would be apace with his work. It is a safe guess that the next day even if it were Sunday would find him in the same hurry. All of us at times are rushed a little beyond our pace, but the average man usually manages to keep his work in line. These remarks are anent whose letter we quote.

EDITOR FARMER'S ADVOCATE:

"I see an article in your issue of August 14th headed "The Eternal Bugbear." Now I am afraid you have not quite grasped the situation. The trouble is not so much that farmers do not understand the necessity of getting rid of weeds, as it is owing to the small profits in farming. We often have fields of grain we know should be plowed up but we have payments to meet and we must get what we can out of the crop to meet them, although we know it is not good farming.

I know from twenty-six years' experience.

other manufactured goods and labor have got to such an enormous price that farmers have a hard time to make a living except on new land, so you will find thousands of farms in good localities for sale because the owners know they cannot clear them and make a from the standpoint of a hired man from that of contamination through diseased meats. living. I have been discussing this weed question an actual owner and manager of farm it is with quite a number of our best farmers and they doubly true. seem to think the same."

uld result from the work. These days are testing men's ability to farm and those who know just when enough work has been spent upon a certain job, or a given piece of land to make it yield the maximum profit overwork performed at the present cost of work, are the men who will be and are marked as the "successful" farmers. In fact, it is in their ability to tell how much is enough and what too little work upon their land that the secret of their success lies. There is in the management of every farm a certain imaginary limit of expenditure of time and labor below which if a man stops the returns for his crop will not pay for the little work he has already done, and above which up to another certain point the extra work done represents varying degrees of clear profit. Nor does this success depend solely upon the bulk of work done. The doing of work just at the right time, and that by the does it, often effects more good than considerably more work done at another time.

the "successful" farmer in every community. a hobby of his occupation. His problem would compensations it also emphasizes the wiscom of His farm is the most free from weeds, his crops be how to master the intricacies of soil chemistry diversity in farming. The man who ha been the largest, his stock are generally just a little manures, fertilizers, the life-histories and means of less worried about the drouth first, the rain next, above the average, his fences in repair, his combating weeds, insects and fungous pests, plant and the frost last, ruining his crops, is the man buildings neat and trim and everything about breeding, selecting seed, farm forestry, and a who is not a specialist in any one line. Lan that

of the "successful" type of farmers in the him out of ruts of practice, make him a progress- things in turn will give a better account of tself promise becomes too prevalent and the art of interest in his work. Work would become a ditions of climate, and this not forgetting the necessity. Men are too ready to say "good pleasure.

correspondent says, that farmers are not lacking or three hundred dollars will defray the necessary in knowledge of what should be done, but we are expenses, and seven months for each of two certain that there is not an over supply of natural winters is a short time to spend, considering the knack for farm management.

Making a Choice.

Manitoba Agricultural College, is no doubt your application early and secure admission. You identical with that being asked by many other will never regret it. The college course and colthe point raised by our correspondent from and comes in contact with them. Few men husband and father, and a better citizen of the faction that is not of any use to himself and an who have been there. annoyance to his friends.

There are many young men who have asked themselves the question: will it pay me to take a course at an agricultural college? Will I be better off financially and socially if I spend two winters and probably three hundred dollars at "The so-called business men of this country and the college than if I stayed at home and work and Eastern Canada seem to think the farmers of the save money? The writer well remembers when West are making large profits, a great mistake, which some twelve years ago, he analysed the situation with relation to his own prospects and decided The cost of humble farm implements and all then that for the man who had a living to make with his hands that a better use could be made of his strength if his brain were able to lend more help. The conclusion has proved to be sound

Luckily this is not simply theory. We have change his mind on that score. He would make

enough" because of the extreme generosity of But why multiply arguments? Surely most the soil in the past, and of the tendency upon the of the farm boys of Canada who expect to engage buyers of stock to discriminate against the man in the noblest and one of the most difficult of all who raises the sest, but this policy is responsible callings have seen enough and heard enough to for the unfarmlike condition of many of our convince them of the wisdom of taking a twofarms. There may be a deal of truth in what our years' course in a good agricultural college. Two advantages to be gained. In the American Republic the attendance at these courses is increasing by leaps and bounds. Will Canada lag behind? Where hundreds now attend these institu-The enquiry of one of our readers, in another tions, we should have thousands. Sit down, column, as to the nature of the course at the young man, and think it over, and then send in young men. The complexity of the problems of lege life will enlighten, inform and broaden you life always impress a man as he gets on in years out. It will make you a better farmer, a better there are who have not wished that they had neighborhood and of the nation at large. It will a larger theoretical knowledge of their work and lift you out of the neighborhood groove and inthe man who has not expressed such a wish is troduce you to the larger agricultural outlook of nursing in his system a most colossal self-satis- the world at large. Will it pay? Ask those

Meat Inspection.

On the first of this month the Dominion Meat Inspection Act came into force by the provisions of which expert meat inspectors are placed by the Dominion Government in every abattoir throughout the country. The Meat Inspection Act was framed to prevent in Canada a repetition of the abuses that were charged against the Chicago packers, and the arrangement is welcomed alike by public and packers. The latter can now put their product out with the enhanced value and prestige that "government inspection" gives to it and the public feel more secure from danger of

The Season's Compensations.

The dampness of the season is not without its For the average bright, level-headed Canadian compensations. In Alberta where often crops We think we understand that there are a lot of farmer's son, equipped with a fair public-school are short and grass dry for need of rain they are men who do not believe that "whatever is worth education—all the better if he has spent a year or reaping a large harvest and cattle were never doing is worth doing well," but we disagree with two in High School as well—we believe the ques- seen to do better. Further east one of the chief them. At the same time we understand that tions asked may be answered without hesitation causes of fear is that the grain will ripen too fast it is an easy matter in these days of high priced in the affirmative. However, no worthy ex- for the want of a few showers. This year labor to do a thing so well that the extra time student would think of gauging the benefit merely moisture has not been lacking. In Manitoba spent upon it makes away with the profit that by the extra money his college education enables the rains of late July and August saved most of the him to make. The courses are and should be crop on the southern side of the province from a practical, for only a practical curriculum can total failure, and put in the fields a promise of sufficiently attract and effectually uplift the farm from ten to fifteen bushels to the acre. On the boys of the country. The worth and dignity ranches the cattle needed just such a season as of practical knowledge is very properly exalted, we have been having. There was a lot of depleted but the greatest benefit from a useful education vitality to be regained and the rains kept the is not the dollars and cents there may be in it, grass green and abundant, long after it usually but the mental and manual discipline developed has become brown, yet not so soft that stock in the student, the intelligent interest aroused in would not ripen up. The range cattle have made his life-work, and the opening of his eyes to the up more than could have been expected of the vast field of knowledge about him-a field which weight, numbers and vitality that they lost last his course, so far from exhausting, merely qualifies winter, and the dairy farmers of foothill province him to enter and explore in after life. It gives have benefited by the persistent springing of new him a key to unlock the mysteries of agricultural grass. This condition prevails all over the stock science, which rivals astronomy in its fascinating raising country north and south and already the interest, and is fraught with far more real, sub-cattle trade is beginning to feel an easy tone. stantial benefits to mankind. We once heard a People are heard to remark that there will be farm boy say that if he were going to be a farmer cheap beef to make up for dear wheat and while he would want to take a course in astronomy the numbers of cattle that will come off our way is generally just before the average man or theology, so that he might have an interesting Canadian ranges is fully fifty per cent. short of hobby to enliven his life-work. If that lad would what it was in 1906, still the ranges and feed belts take a course in an agricultural college, he would to the south are turning off large consignments.

But while the season illustrates the law of the place reflects the presence of a directing mind. thousand and one other lines of practical research, is given a chance to do several of the thing it is If we were to be asked why there are not more now so generally neglected. It would tend to keep capable of doing, and also permitted to do hese country, we would say that the habit of com- ive, thinking farmer, and stimulate a joy and than if it is kept doing one thing under all onfarming has not yet become an imperative pleasure; and when work is a pleasure, life is a greater amount of work involved in so handing

HORSE

Lameness in Horses.

(Continued.)

A SPRAIN OR STRAIN.

practically merely a bruise, while violent and stage of the lesion. excessive extension may rupture the whole structure of the part. Extension is not always the cause of a sprain; a muscle may be sprained by the opposite condition, viz., violent contraction, by which the fibres may be broken across or the tendonous fibres torn, from their attachments at either end of the muscle. Sprains produced in this way are sometimes noticed as the result of the violent contractions of the muscles we notice when a horse is being thrown with hobbles or side lines, or by violent efforts to loosen himself when down; in vain efforts to regain his feet when halter cast, etc., etc. Sprain may be confined to the sheaths or fibrous coverings of the muscles (each individual muscle having a separate fibrous covering called a sheath), but these are of minor importance compared with sprain of muscular fibre tendons or ligaments. Sprain of muscles or tendons are found in various parts of the body or limbs. A horse may sprain the muscles of his neck by falling on his head. If the fall be severe, the sprain may be complicated by injury or even fracture of some of the bones of the vertebra, and this may cause sudden death. The muscles of the back may be sprained by the hind feet slipping forward. When a muscle is sprained, the accident is succeeded by pain, swelling, heat, and loss of function. An inflamed muscle cannot contract properly, the loss of contractile power being in proportion to the severity of the sprain; hence, in some cases the symptoms simulate those of paralysis. The swelling of an inflamed muscle is very often succeeded by a loss of substance, a wasting away, called atrophy; and sometimes by fatty degeneration of its fibres, whereby they lose their red, fleshy appearance and assume that of whitish threads of fat. When examined by a microscope, the contractile tissue, called the sarcous elements, is seen to have been replaced by glistening oil particles, so that the function of the muscle is temporarily completely destroyed. If the whole muscle is involved, its contractile power no longer exists. This loss of power will, of course vary according to the extent of the muscular structure involved in the primary lesion.

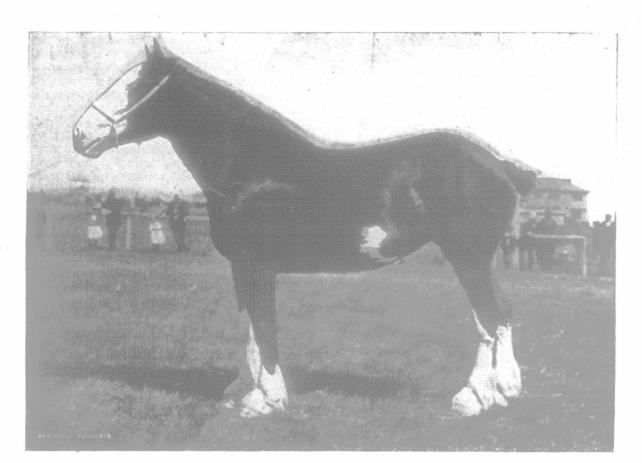
Atrophy of muscular fibre, and consequent fatty degeneration of its contents (probably better noticed in cases of sweeny than in other sprains), is often due to pressure by an inflammatory exudate (which occurs to a greater or less extent in all sprains), formed in the spaces of the connecting tissue. It is well to remember by keeping the breeds pure and recording the this, as it teaches us that the sooner an exudate can be removed, the less probability there is of degenerative changes taking place in the true muscular elements. The changes taking place in inflammation of muscular tissue, whether arising from sprain or other causes, are: First, swelling, caused by congestion of the vessels and the exudate that is thrown out into the tissues as a result of the same. Second, atrophy, or a wasting away of muscular tissue, from the pressure of this exudate upon the muscular fibres, and from loss of function. It is a well-known fact that if, from any cause, a muscle does not perform writer called it. The Royal Agricultural Society in inducing the council of the Scottish Associaits functions, it will gradually become smaller instituted a class for them at its 1848 show, but tion to give registration numbers with the export from inactivity. If this want of function be accompanied by the pressure noted, the atrophy be more speedy and better marked. Third, four years that an annual show of the breed has people so generally considered conservative of fatty degeneration of the sacous elements, and been held in London that the type has been fixed their institutions, but their proverbial frugality permanent loss of contractility.

Treatment for sprain depends to some extent discovered upon the seat of the accident and the tissues

A sprain or strain may be defined as violence 2 ounces vaseline. Clip the hair off the parts, that a considerable number of those examined inflicted upon a soft structure, with extension and tie so that the patient cannot bite them, rub the were cast by the veterinary surgeons, chiefly for often rupture of its fibres. A sprain may be sudblister well in daily for two days; on the third sidebone. The growth of Shire-horse breeding denly caused by violent extension or stretcihng of day wash off and apply sweet oil; let patient was, however, phenomenal from the outset soft structures, or by repeated slight stretching loose now, and oil every day. It may be neces- He is above everything, a cart horse, which will without a rupture of fibres, in which case the sary to repeat the blister every month for a few do the work of the farm for three or four years and repeated tension produces an altered nutrition, times. The blistering not only has a tendency then make a good price; therefore, it is not surwhich results in inflammation of the part, and to cure the lameness, but, by stimulating absorp- prising that twenty years should see a great finally to a softening of some portion of the fibres, tion, tends to reduce any chronic swelling that improvement in the breed and hundreds of tenant by which they lose their toughness and become may remain from organization of the exudate farmers breeding and exhibiting high-class specipractically broken across. A slight sprain may be that was thrown out during the inflammatory mens of it, and only last autumn the foals of

"WHIP."

and feed lightly. If the sprain be very severe, like Bakewell, followed it up, and many pedigrees causing complete loss of power of a limb or limbs, can be traced back nearly one hundred years. it is well to place in slings. Bathe the affected Still it was not until 1883 that the Shire horses parts long and often with hot water, and, after had their own classes at the Royal Show, but a bathing, apply an anodyne lotion, as I ounce band of enthusiasts were working for the breed. laudanum and 4 drams acetate of lead to 8 ounces and in 1877 the Shire Horse Society was estabwater, until the acute inflammation and soreness lished, and in 1880 the first London Show was has disappeared, then change to cold water and held. The entries on that occasion numbered camphorated liniment. If the lameness is per- 110, and they have since reached 860; but, to sistent, apply a smart blister, as 2 drams each prove the carelessness as to soundness which biniodide of mercury and cantharides, mixed with existed in those days, it is only necessary to say farmers made as much as 150 gs. by auction. The value of Shires for draught purposes was



FOUR-YEAR-OLD CLYDESDALE MARE, IRENE, (IMP.) First in her class and champion at Regina Exhibition, owned by P. M. Bredt, Regina, imported by John A. Turner, Calgary. Sire, Labori.

Progress in Horse-Breeding.

It is only since the formation of Studbooks and Breed Societies, and the growth of the show system, says a writer in the London Live-stock Journal, that the rank and file of English horse breeders have seriously attempted to improve their own stock.

It was during the eighties that Britons woke up to the fact that they possessed several kinds of horses which were the best in the world, and that pedigrees much benefit would accrue to those who bred them and cared to take the trouble in the obtain the desired results. selection of parents and the keeping of records. The Thoroughbred had long been looked upon as the horse for speed, and the doings of the celebrated Eclipse had proved the worth of this making headway and finding supporters. breed for riding purposes. The General Studbook (Weatherby's) had then been in existence for many years. Another light legged breed which could in those days claim to be an old-established one was the Hackney, noted for its knee action— Association of Canada are certainly entitled to it was not till 1883 that the Hackney Horse certificate in case of animals coming to this Society was founded, and it is during the twenty- country. It was a good deal to expect from a and the commercial value of prizewinners evidently proved their vulnerable point in this

quickly recognized by American and other foreign buyers, and about twenty years ago a large export trade in them developed, the number of export certificates granted in 1889 being 1,264, which was a capital performance for an elevenyear-old society. Since that time farmers from every English county have joined the ranks of breeders, and as they naturally want to participate in the honors obtainable for those who breed winning animals at the London and Provincial Shows, and as no unsound one is awarded a medal, it follows that sound parents have to be used to

Although twenty years of improvement may be claimed by all the leading British breeds of horses, none can equal the heaviest draft horse for

Registry of Imported Clydesdales.

The representatives of the Clydesdale Horse "trotting of its own courage," as an ancient congratulation and commendation on their success emergency, as they could not well afford to con-During the past twenty years, the most popular tinue a course which, in view of the action of the involved, but the general treatment may be said breed of horses in England has unquestionably Canadian Association, would have seriously to be: First, locate the lesion, give rest, make com- been the Shire (or old English cart horse), so checked the trade of importation which is bringfortable in a box stall, if possible; give a slight named in the reign of Henry VIII., when the ing so much "siller" to the coffers of their Assopurgative, as 6 drams aloes and 2 drams ginger, improvement of the breed really begun. Others, ciation and the pockets of the breeders. And it DED 1866

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requiring the registration at or under the age of per cent. of healthy horses will react due to some of disease. two years is not the wiser and safer plan. There other constitutional disturbances or local conwas surely need of a shaking of the dry bones of ditions. In fact, we know of a certainty of a horse the Scottish breeders in the matter of registration, having been tested and turned back at the border and the new order of things should greatly to Montana within the past month. Canadian Editor Farmer's Advocate: strengthen the financial condition of both farmers do not require the recital of specific associations and place the directorate in a better instances of glanders being introduced from strange case, that of a mare slipping a foal and position to advance the interests of the breed Montana, nearly every one can cite a case from some months later having another colt which by offering special prizes and by other means his own observation or to his positive knowledge. lived. You asked at the same time if anyone had

was an act of diplomacy on the part of the Cana- to say, from their reports, Montana was freer yet not thoroughly organized. At the same dian contingent in taking advantage of the circum- from Glanders than any state with which he was time we do not deny that mange is carried by stances to raise the standard of registration, acquainted. On the other hand Montana has Canadian cattle across the line, but in the matter which was certainly desirable. While in point well based complaint against Canada." of diseases there should be no free exchange. of economy, and for other reasons, there is much This statement of the diagnosis being con- A high fence along thesinternational boundary, to be said in favor of the principle of delaying the firmed was corrected in our August 28th issue, across the prairie country, would be most useful, granting of registration numbers until the animals and as for the other assertions the experience of in preventing the too free interchange of animals have proved breeders, there is certainly more the Montana veterinarians is quite unique. The that may be infected with mange, glanders, general satisfaction to all concerned in having assertions that not a single reactor has been noted mal du coit or other serious diseases. By all permanent numbers assigned at the time of is so sweeping as to discredit the work done for means let there be as much liberty of trade as registration, and it is just a question whether the in the course of properly conducted mallein possible between the two countries, but each system adopted by some breed societies of tests. Veterinarians find that an average of five owes it to herself to guard against importations



We read some weeks ago in your paper of a As for the outbreak of mal du coit in southern experienced a similar case. Several years ago when we were in Manitoba we had a mare that slipped her foal. Naturally we thought no more about it, until, when, driving through a slough some months later, the ice broke beneath the mare and the sudden shock of the cold water showed unmistakably that there was another colt which came three weeks after, alive and bright and healthy.

> R. WALTON. Mr. R. W. Stephens, Lambeth, Ont., during a call on the FARMER'S ADVOCATE a few days ago, cited a case, coming under his own observation, of a mare, bred in the spring months, slipping in the fall a foal about the size of a cat, and May 24th, following, producing a living foal that grew into a useful horse. Also, a case where a mare was bred to two horses in same heat, one a light horse, the other a heavy-draft, and produced twins, one plainly the get of the light horse, the other of the heavy horse.



BARON'S LASSIE

Winner of first in the three year old Clydesdale filly section at Regina, 1907. Sire, Baron's Gem, bred by A. & G. Mutch, Lumsden, Sask, owned by R. H. Taber, Condie, Sas

The Interchange of Disease.

June 12th number, upon the work of the Dominion Department of Agriculture with mal du coit at Lethbridge, Alta. In the article the statement was made that no other veterinarian had confirmed Dr. Burnett's diagnosis of mal du coit ation from Oregon, while in the third case a strong have investigated the trade on their own account. that the disease was traced to Montana from suspicion attaches to a band of mares purchased but if the Commission bring in the same findings which state Canada had received several seedings in Montana. It is only fair to say that the it will help to emphasize an unwelcome truth with glanders.

Lately, we have received a letter from the state veterinarian of Montana in which he takes exceptions to these statements and alleges that Canadians are wilfully malicious in making statements about the health of animals in Monmining whether or not the allegations of the greater or less extent on the open range in several needs the operation of freezers and canneries to son in Helena, for the special purpose of deter-Canadian authorities were true relative to the existence of this disease in Montana. Up until this time (with seven men under him, constantly making investigations, since early spring) Dr. Davidson, or his assistants have been unable to find even the slightest suspicion of Dourine in this state. Of the several hundred horses tested arefully for all infectious diseases, he was able improvement in our present system which is as cattle be delayed and so long the unsatisfactory

Alberta, Dr./Rutherford in his evidence before the Our readers will remember the article in our Colonization, said in discussing the origin of the committee of the House of Agriculture and disease in western horses;

> individual states, have reported after investiga- the unsatisfactory state of the stock trade. tion that they have been unable to find the They will also find that the cattle raised in of the western states for an indefinite period, make a profitable use of her stock.

STOCK

What the Beef Commission Should Find.

An interview is reported from Edmonton that the Beef Commission will visit the British markets for Canadian stock with the object of getting a fuller insight into the cattle trade, so that the reports to the provincial government may be more comprehensive. Should the Commission finally decide to go and should they watch the cattle which go from Canada and other countries to that great meat market of the world, they will be convinced of one thing, and that is that in the ultimate market there is no partiality shown to cattle from any particular country, and that every animal brings just what he is worth. They will find, too, that there are many cattle worth more than those which Canada sends, that in fact Canadian cattle are not by any means the best that England receives, even with the liberal supplies of grain fed stock that "Of the other outbreaks, one is traceable to go from Eastern Canada to raise the average. horses brought from Utah, another to an import- This fact is known to shippers and others that United States authorities, as well as those of the and may do much to remedy the real cause of

disease in any of the districts where the suspected other countries such as the United States and animals originated. The evidence in our posses- the Argentine are culled much closer than they sion, however, has an entirely contrary bearing are in Canada; that the canneries take a lot of on the case, and when one remembers the remark- the cheapest stuff, and the refrigerators much of Dr. Melvin, at my request, stationed Dr. Davidwhich is undeniable, that it has existed to a average. And this only indicates that Canada

the reasonable inference is that the presence of Whatever we may say about the trade and maladie du coit in Alberta is due to infected however we may rant about Gordon & Ironsides mares or stallions imported by persons, let us and Pat Burns, we have to admit that our hope, ignorant of the terrible scourge which they cheapest cattle are not worth much more than were introducing among Canadian horse breeders" they bring upon the market. But another thing In publishing statements to the effect that that the Beef Commission should embody in by Federal and Deputy State Veterinarians, contagious disease outbreaks are traceable to the its report and place a lot of emphasis upon is intended for Canadian export this year, not one states we do not do so with the object of maligning the discouragement to producers in the lack of reactor has been found. Dr. Treacy, Federal the stock of our neighbor's, (we do not favor discrimination upon the part of the buyers. Inspector, in charge of this district, made the protection of either the American or British types) Just as long as the market takes our cattle statement to the writer on Wednesday last, that, but we do wish to emphasize the necessity of without putting a larger premium upon the best though his inspectors (seven of whom have been more strict inspection than the country was and maintaining a firm discrimination against working in Montana) had been instructed to look provided with a few years ago, and also for the poorest, so long will real improvement in our

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conditions will exist, the farmer raising lanky, Many and varied are the problems facing the development of milk production among beef ill-bred, ill-fed steers because they bring just breeder of live stock. It is not the intention of cattle. All are agreed that the ability to give a about as much as something better and the buyers keeping the prices down because the quality is low. A discriminating market will problems, but rather to call attention to a few thing to find the best milkers the best breeders in save the situation. Chicago and other American which face the cattle breeder, with a view to aiding the herd. But how is the milk-producing promarkets went through the same experience as the beginner to understand more clearly what pensity to be developed? How much depends Winnipeg is going through now, but when S. & S. confronts him, and perhaps stir up some veterans upon breeding, and how much upon management? began specializing in the cheap stuff and others to give the public the benefit of their experience. If it is mainly a question of breeding, where are in the better stock then the producer began to packer should work together toward this end. to follow a course which his reason tells him is not herd, without having to restrict his selection to The only apparent detriment appears to be that no one interest will start. In this case it is the duty of capital to manage to avoid waste.

Heifer vs. Steer Beef.

With the object of finding out something about the relative value of bullocks and heifers for feeding purposes, experiments were carried out by the United States Department of Agriculture. The experiments have been carried out for some years and the results should prove interesting. In the first trial, five animals were used in each lot; one lot being steers, another spayed heifers, and a third open heifers. They were Shorthorns of like breeding, and treated alike previous to tests. In this case several of the heifers calved and interfered with the trial, and too much importance must not be attached to the results. The steers made the larger gain, and sold at ½d. per lb. more than the heifers. The steers made an average gain in eleven months of 806 lbs., and one heifer clear of calf made 775 lbs. When slaughtered the carcases were examined by an expert, and the heifers were found to give a larger percentage of prime cuts than the steers, so that on the basis of meat and by-products obtained, the heifers were worth fully id. per'lb. more than was paid for them. Crediting each lot with the actual value bullocks.

on the gains made.

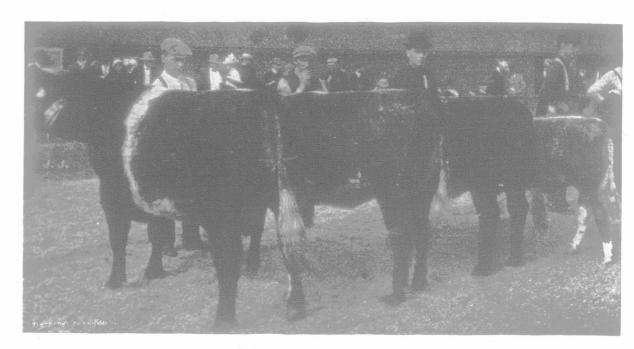
case.

A Few Problems in Cattle Breeding.

work. These are so universal in their application themselves who can work out the solution. that we publish them here.

reap the benefit of raising high quality stuff. In breeder of cattle is the question of fashion in pedi- It is hard enough as it is for the breeder of beef Western Canada producer, drover, exporter and grees, and he may find himself sometimes driven animals to secure a bull good enough to head his

this article to attempt a solution of any of these large flow of milk is a valuable accomplishment on the part of any cow, and it is a very common One of the perplexing problems facing the the bulls to be obtained to assist with the work?



JUNIOR FIRST PRIZE HERD OF WESTERN CANADA. Property of J. G. Barron, Carberry, Man.

of the different cuts and the by-products, and not the best. Fashion has its sway among horses, milking strains. If, in developing the milking including the expense of killing and handling, it cattle, sheep, and swine, and while it has had a qualities of our beef cattle, we lose much of that was calculated that the butcher made about three more powerful influence in some breeds than in tendency to fatten, which has taken generations times as much out of the heifers as out of the others, there are few breeds which have not, at one to develop, would such a result be a really desirtime or another, came more or less under its spell. able attainment? These are problems which are The second trials were made with fifteen pure- At the present time there is a tendency in some worrying many thoughtful breeders, and which bred Herefords. The animals were proportioned quarters to rebel against the decrees of fashion, are frequently lightly discussed by people who as before. In this case the gain by the open and a good deal of discussion regarding the matter fail to look at all sides of the question. There is heifers was 1.86 lbs. per day, being greater than has occurred of late, especially among American room here for research work on the part of experieither of the other lots, and that too with less Shorthorn breeders. Just what will be the out- ment stations, and work in connection with some food and at less cost. There was very little come, it is hard to say, but it is useless for the phases of the problem has been planned for difference between the other two lots, either as small breeder to attempt to overthrow the immediate undertaking at Guelph. It is a large regards gain per day or cost of the gain, though established customs or prejudices. If anything is order, and means years of patient work, and the heifers had the advantage. Carefully con- accomplished in gaining recognition for what are probably more space than we can afford, to carry ducted slaughter and block tests failed to show commonly called "plainly-bred" cattle, it must out the work thoroughly. The public need not any difference in the quality of the meat, although be through the concerted action of some of the look for results for some years to come, and it is the percentage of high-priced cuts, ribs, and loins most influential breeders. It will not do to be too quite possible that the main issues may never was greater in both lots of heifers than in the case radical in such matters, and it must be remembe settled. At the same time, there are many of the steers. It has been claimed that in heifer bered that the fashions of to-day are usually minor points of interest upon which some light carcases there is a greater percentage of fat, there-based upon a pretty sound foundation, namely, may be thrown, and thus make the enterprise by rendering them of less value to the consumer. actual merit. It does seem too bad, however, worth while. 'It was observed in this that so many really excellent cattle and other investigations that under similar con-'slightingly passed over and dubbed "plainly- mentioned, comes the question of the dual-purditions heifers are inclined to take on flesh a bred," no matter how many sires of unsurpassed pose cow. We know that such cows exist, but are little more readily than bullocks. Larger gains breeding and excellence appear in the pedigree, they more desirable or less desirable than the by the heifers may not be shown, but there is a merely because the nearest imported cow appears special dairy cow? Also, what about the man tendency to finish at a little earlier stage in the a long way from the top of the pedigree, and does carrying on mixed farming under conditions not process of fattening. The difference between not boast any of the blood which is most popular the most suitable for making the largest profits bullocks and heifers in this respect, when fed to-day. Surely the crosses subsequently intro- out of dairying? There are also many varying under the same conditions, has also been noted by duced have long since obliterated any trace of the conditions, and, as in all other live-stock investipractical stockmen feeding on an extensive scale. original blood; and if the sires have been wisely gations, so many variations arising from the The fact is emphasized that heifer beef has chosen, why should such an animal be discounted? individuality of the animals employed, that it been much under-estimated, since in both trials When we learn to study the law of heredity seems almost hopeless to attempt anything like the heifers have returned a higher net profit on intelligently, and are able to understand clearly systematic investigation. But, possibly a little the block than the steers, notwithstanding the just what a tabulated pedigree means, we shall be light is better than no light, and there are profact that the steer beef was rated higher than the apt to lose a good deal of respect for the average bably enough side issues to make the undertaking heifer beef. So far as could be learned from these breeder's method of deciding upon the merits of a worth while. Be that as it may, we think we can experiments, spaying had no particular influence pedigree. We sometimes forget that, no matter safely promise the public some work along this These tests are in conflict with the American can be no sound work done in animal breeding be required to get results. belief, but from the number of animals used the which is not based upon utility. We are also Space will not admit of the introduction of trials cannot be said to be quite reliable. On the apt to deal too much in names, and lose sight of further cattle-breeding problems in this article, other hand, however, the fact must be taken into the merit which made those names famous. If but the ones mentioned are sufficiently serious account that the results are in accordance with the merit has come down with the names, then we to furnish food for thought for some time, and we what has appeared to many breeders to be the certainly have something to be proud of; but if would like to hear from anyone who has worked much if not all the merit has been lost in transit, out even a partial solution of any one of them. of what value to us are the names, so far as improving our stock is concerned? So long as certain families of cattle show superior merit to all others, it is only right that they should meet In a letter to the FARMER'S ADVOCATE of with popular favor; but when another family EDITOR FARMER'S ADVOCATE: London, Ont., Prof. G. E. Day, who as an demonstrates its ability to produce equally good authority upon live stock is known from ceast to animals, why should it not be accorded equal raising and stock selling with a go-ahead American coast, outlines some of the objects which cattle favor? In the face of these problems, experiment farmer the other day several matters cropped up breeders should have in mind in pursuing their stations stand helpless, for it is only the breeders which I would like to have your opinion and that

how "blue" may be the blood employed, there line, though, as in the other case, years will

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Weights Should Be More Just.

In discussing the general subject of stockof others upon. I would like also to have them Another-problem of great importance is the brought under the notice of the Beef Commission

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is all treated, in the matter of five per cent. reduc- gone to-morrow. tion, alike whether the road travel was one or twenty miles. There is no weighing facilities at these little stations up and down the line and the first time the stock is weighed after leaving the Editor Farmer's Advocate: farmer's hands is after the journey of forty or fifty hours without being fed or watered. I think that the railway companies should be compelled stations and a proper weighing scales at each make a handsome profit in the long run by making evening. a small charge per head for the use of the machine. Any farmer in this way could know, and the extensive reports are quite favorable. buyer could know, just the exact weight shipped. watered on arrival and before being weighed is as we have had an abundant rainfall. more fair than the present grab plan of the big him from the amount paid to the seller.

The farmers are, beyond dispute, the backbone of Canada to-day and will be for many years to as many cattle shipped this year as in general. come and it seems but wise policy for the railroads to treat the farmers fairly and if they will not do cattle were all fat but there isn't the number are the better for vegetable matter being added so, then the government ought to step in and take to choose from this year and consequently the and cultivation invariably results in better crops, a hand for the welfare of the country they are shipments will be smaller. sent to Ottawa to look after.

There is one more matter I would like to have ventilated and that is the elevator charges at shipping points. Last year a farmer near here escaped a charge of six cents a bushel by loading straight into cars—had the grain passed from his wagons, through the elevator and so on to the cars he would have been mulcted in some six cents a bushel. Surely the operation of passing the grain along in this way is not worth that much however a man may figure out insurances, risks and so on?

Thanking you for your space and trusting that others will give their views on these points. PRAIRIE CHICKEN

British System of Land Tenure, a Curse.

The British land system—namely, that of landat which he had arrived were: (1) That the policy capital (including the personal labor of the culti- pregnant sows which are to farrow in the fall, vating owner and his family) properly invested in land yielded a far greater return to the community than a similar amount invested in commerce and manufactures; (3) that, if health, physical strength and an increase of the population were to be reckoned as natural assets, agriculture enriched the nation far more than manufactures possibly could; and (4) that the hometrade, resulting from the development of agriculture, was larger, more certain, less fickle, and more valuable than the foreign trade. Agriculture must not be regarded simply as any other trade, but as the basis of all trades. Leaving the larger branches of agriculture—the raising of corn. cattle, etc.—and turning to "small cultivation," it was to be observed that we annually imported some sixty million pounds' worth of smaller articles of food, such as butter, cheese, bacon, eggs, poultry, fruit, vegetables, etc., and that those articles might be wholly or mainly produced at home if our land system were what it ought to be. We had the land, and we had the men standing idle or only partially employed. country-bred men now employed in towns would gladly return to the villages (for which were better fitted) if adequate and reasonable les were offered to them. "Occupying owerships" ought to be the governing principle of our land system instead of being a mere ent in it. To facilitate the carrying out of Photo The Compliments of Prince Albert Board of Trade

for I do not remember reading anywhere of any the suggested scheme of small occupying ownerships, the author strongly advocated (1) a better The first of these comes under the head of system of rural education, and (2) the establishweighing. As things now are I sell to a buyer, ment of co-operation among the cultivators both either in the country or from Winnipeg, and he for the purposes of buying and selling. But coimmediately deducts five per cent. for shrinkage. operation was the natural outcome of small This I maintain is unfair since the stock may have ownerships, but was not readily adopted by come in by road only a very short distance and it yearly tenants, who were often here to-day and

Range Cattle Doing Well

season but on account of being very thin last it be good for corn next year? spring when going out to grass they have had a to furnish better stock yards at their small hard pull uphill as there was a depleted frame yard. The installation of scales at each yard hard on them making feeding in the middle of the not need cultivating nor the addition of vegetable would doubtless entail a large outlay on the part day an impossibility. As the day got warmer matter to make it more capable of holding of the railroads but they could recoup this and the cattle would simply get into shade until moisture. The practice of burning stubble after

Now, again at the Winnipeg end surely the ready for shipment about the middle of Septem- a seed bed. This is assuming that the soil is American plan of having every animal fed and ber. The grass has been fairly good this year the average prairie loom. If it were either

"OBSERVER."

Lacombe, Alta.

30,000 cattle marketed from the ranges this year tion next spring. as against 90,000 last year. There is a lot of not appear to be many steers going that way.

Hogs in Clover.

Upon the question of pasturing hogs upon alfalfa,

comes the following conclusions:

lord, farmer, and laborer—which meant three ably on an acre depends very largely on the amount cultivator or by light plowing. separate castes, had broken down in every other of grain fed. Probably from six to eight hogs, under country in Europe, had broken down in Ireland, and was breaking down in England. To it was mainly due the startling rural depopulation, said make three fair crops per year. The fields should be lesse Collings in an address before the British water and sheds will not be kept too close to the wished to make a sale. "You need not worry about reported in the London Times. The conclusions ground and that at the farther end of the field be left paying," he said. "Will give you easy terms, whereby untouched.

of placing trade and manufacturers above agri- sows run on alfalfa without grain during the pregnant like. culture was a wrong one; (2) that an amount of period, although very ilittle grain is necessary for agent in order to have time for a little figuring. The



Fall Treatment of Stubble; Corn Land.

Which is the better way to treat stubble this fall, to burn stubble or plow it down? The land is not heavy neither is it very light. It was broken and backset last year. I broke a piece of land in the spring and seeded it to In this section cattle have done fairly well this flax. If I manure it this fall and plow it, would

There is nothing much lost and very much time to start work on. The Heel fly has also been very gained in burning stubble when the land does the first crop is quite common, as new land is not Farther east of here where the range is more in very great need of further cultivation and time is saved for other work, of course, the land The cattle are doing well and steers will be should be well cultivated in the spring to prepare heavy or light the plowing in of the stubble would Men who fed their cattle in the sharp times of help it and burning the stubble would be a posibuyers? In Chicago the cost of feed to the last winter will be able to sell their stock quite a tive loss. Decaying stubble makes heavy clay animal is paid by the purchaser and deducted by little earlier and that should be quite an advant- less liable to bake or harden and more easy for plant roots to penetrate and in sandy soils is Everyone is of the opinion that there wont be tends to make them more drouth resistent. We would not advise the general practice of Butchers claim that this time last year the burning stubble for the reason that most soilt through improvement in the texture of the soil and the liberation of plant food. That is the The same report as the above came from the plowing deepens the seed bed and brings fresh south eastern part of Alberta. Ranchers in that soil to the surface. Most soils also require a district inform us that the grass has grown well system of cultivation that will keep weeds in but has ripened off in spite of the plentiful check, and while burning the stubble and spring rainfall and that the cattle are about cultivation will destroy many seeds, it is not ready to go out. The general impression among an unqualified success since so many seeds escape the ranchers is that there will not be more than the fire and remain dormant until after cultiva-

By manuring and plowing the flax land this talk about shipping to Chicago but according to fall and working it well, next spring it should be several cattlemen whom we have met there does in good form for corn. If the manure is charged with weed seeds it will be necessary to kill as many as possible before planting the corn, and to do this effectively it may be that the land will have to be plowed again. Generally speaking, if the land is harrowed after the fall plowing the weed seeds will germinate in the early spring The number of hogs that may be pastured profit- and the weeds can be killed with the disc and

you can make us monthly returns. Your credit is We have not observed satisfactory results with good, and you can make the terms as small as you I was not keen to purchase, and dismissed the result was that I disovered that it would pay me



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twice over to purchase on a cash basis rather than accept the agent's enticing terms. The terms he offered, while they looked easy, were really terms demanding a high rate of interest. Further, on making some inquiry I found out that many who had tried the monthly instalment method of payment had come to realize that they were paying dearly for any seeming advantage, and that they felt themselves continually reminded that they were in debt. In not a few doned payment altogether, much to their loss.

and to buy and sell on a cash basis. It will mean self-denial, but it is astonishing what a little ingenuity and economy will do for one. Indeed, the average farmer will do well to remember and to act upon the advice given by the Old Country agriculturist to his son: "Jock, gang in debt for but ae thing—dung." No one can afford to go into debt for anything that does not give a reasonable assurance of a fair return. Food, land, clothing and implements must be had, of course, but a little consideration and contriving will reduce one's actual necessities to an astonishingly small minimum. Paying in cold cash is better for both buyer and seller, and waiting till one can do so will save many an anxious hour, and many a disappointment; whereas the easy payment system usually means either the purchase of something one does not want, or paying too much for one's purchase. It is better to get on in what the Scotch call a canny way than to invest readily and extensively in things that are handy in their way, but which are not really necessary. It is wonderful how far brains and patience can make things go. The newest thing is not always the best. Let others do the experimenting. It is the agent's business to sell goods, but it is the farmer's business to buy only what he puts to a paying use, and on terms that are the most reasonable. It is so easy for one to sign his name to a contract; pay day looks far off, but it is sure to come, and with it has come in many instances a deal of tears and heartbreak.

The Restless Country Boy.

EDITOR FARMER'S ADVOCATE

Restlessness is a characteristic of all healthy boys, and should never be a source of worry. A young colt may be perfectly happy if only he have plenty of grass and shade and water and liberty. But a boy with forming hands and a contriving mind is restless because he finds stirring in him the possibilities of the infinite. It need not be wondered at, then, if the country father finds himself wrestling with a very live problem when he undertakes to guide his growing boy.

There are various things that contribute to the rest lessness of the country boy. In the first place, his familiarity with country life has dulled his senses to its charm. The delights of rural surroundings, by reaonly occasionally, and knows professional life only The preacher, to his way of thinkfrom the outside. ing, works only half an hour a week; the doctor does little but drive behind a brisk-stepping horse; while the clerk has a delightful time handling light goods, sheltered from the hot sun and the storm.

Further, the boy is exposed to the mischievous people the hero is represented as one who finds no boiler. scope for his talents amid farm surroundings, and who comes to his own only upon leaving the old home for a life of adventure. The country boy feeds on this, and

soon comes to believe it. Again, as the FARMER'S ADVOCATE has been reminding its readers, our school system does not foslaboratory, to the mine, to the pulpit, to the bar, or to the legislative hall, but in how many cases is there a serious effort made to teach the students the wealth of the sunswept valley and prairie, and the satisfacthe most honorable of the arts? A father need not be the big head and had to have a big out-fit. surprised to find his son ill disposed to follow in his the day, and for five days in the week, that farming is a poor, sordid and unremunerative occupation.

The cure for this restlessness cannot be wrought in love and good sense, to show his son the advantages amid which he has been reared. As best he can, let him make his home and work attractive. A little money spent in music and pictures and magazines, and in encouraging his children in carrying out experiments in poultry, in roots, in dairying, or in any farm work in which they take an interest, will be an invest- money. ment that will yield a tenfold return. A house full of laughter of young friends brought in occasionally may rob the farmer of some hours of needed rest, but they will do not a little to relieve country life of its monotony, and do a great deal in the way of preserving for the farmer what is worth more to him a thousand love and service of his boys and girls.

Handling a Traction Engine.

EDITOR FARMER'S ADVOCATE:

In your issue of Aug. 14th you print an article that in the tank to settle twice over.

engine and backing down hill. The sudden closer to the surface of the earth-

Lightning, and Some Means of Protecting Our Buildings and Live Stock From It.

The alarming frequency with which in the past on traction engine boilers and the hardships they few months we have read of property destruction have to contend with. The effects of dirty water by fire, due primarily to lightning, has set people might be largely avoided. It is an every day thinking. It is no uncommon thing to read, occurence to see a tank of water pulled in along- after a severe storm, of farm buildings burned, cases people had become discouraged, and had aban- side of an engine, then the fireman or engineer houses damaged, stock killed or human lives as the case may be, plunk in the hose and turn on sacrificed. It is only a few weeks since a South-The best thing for one to do is to keep out of debt, the injector, never taking into consideration that ern Saskatchewan town was partially destroyed all the mud, sand and filth that the average by fire originating from a lightning bolt. It is threshing tank contains is all mixed through the an every day occurrence during the summer for water by the jolting of the wagon. I have seen houses to be damaged and their inmates injured this done when the boiler would probably con- from this cause. The financial loss during a tain half a gage of water and when there was season must be enormous, It is generally, sufficient water in the boiler to allow time for though by no means always the case, that towering structures are most frequently hit, thus in Second, was the uneveness of ground, boilers cities and towns churches with lofty spires are travelled over. I would judge such as going damaged oftener than other buildings. Barns down hill and causing the crown shut to become and houses on the open prairie for the same reason exposed. This can be overcome by turning the seem to be struck more frequently than objects



THRESHING ON THE FARM OF THOS. NELSON, MOFFAT, SASK.

changes of temperature caused by in-rushes of its ordinary condition.

Scientists account for this fact by assuming son of his daily contact with them, have become mere cold air may be avoided also. If you see the that the discharge of lightning from cloud to commonplaces. On the other hand, he sees the town steam is going to rise too high, plug the shuter earth, is for the purpose of establishing an equal tightly with straw and close the damper. If balance between the quantity of electricity there is a clinker to remove from the bottom of stored in or developed by the cloud, and the the fire box, it is up to the engineer to fire while quantity that exists in the earth, and that in its the fireman removes it, thus keeping the fire in passage from one body to the other it takes the shortest possible course that can be found. As to employing ignorant fireman, it is the This, as between cloud and earth, would be from effect of the class of literature that belittles country engineers duty to put him wise, as it will be of the lowest strata of the former to the nearest In too many of our papers and books for young great service to himself and also to the life of the point on the surface of the later. This point may be only a portion of the surface of the soil, it There need be very little trouble over the may be a tree or it may be a building. It is common observance that lightning prefers almost so-called engineers would follow my method of any other conducting medium than the atmoscaring for the boiler they may have in charge. phere. It will jump through several miles of Blow off the boiler every Saturday night and space to the earth and then when within a few ter a love for farm life. However we account for it, clean the mud out every other Saturday night. feet of its goal will deflect its course and take to our schools do not encourage our boys to make their Some districts where the water is not so good, it anything denser than air that comes in its way. living from the soil. Our high schools and univers- is necessary to blow out twice a week, and The atmosphere, seemingly, is not a very satisities point the way to the surgery, to the chemist's remove the mud once a week. I have been factory conducting medium. It is for this reason operating engines in Saskatchewan for the last that barns and other out buildings in the country ten years and have had two engines in that time, are so frequently hit. They are the loftiest but have never had an occassion to caulk a joint structures that can exert attraction on the tion that comes to mind and heart and fortune by a or roll a flue. I did not dispose of my first rig descending electric current, they will be, when pursuit of agriculture, the most ancient as it remains because it was worn out at all, but because I got the storm is passing directly over head, the closest point between the cloud and earth. If the writer of the above mentioned article Barns, too, seem more frequently hit than houses, footsteps if he allows him to be taught for six hours in would tell us how to avoid these troubles it at least statistics show this to be the case, the would be of a great deal more value to the public reason may be that they are higher on the average in general in place of telling us of our everyday than dwelling houses. The fact is, however, a day. A permanent change in conditions is brought troubles, occupying valuable space in the paper that between unfilled barns and houses there is about very slowly, but the farmer must make it his which is of no profit to anyone, as there are so little difference in the relative frequency with business to see that the change is being brought about. many owners of threshing machines who have which each is struck. Filled barns, though, seem In the meantime let him use all the tact, born of his no knowledge as to how a boiler should be cared of all buildings the most susceptible to damage for, and that about fifty per cent. of the value from lightning stroke. The reason is not difficult of their outfit is in their boilers. Time and again to discern. In a barn recently filled heat is I have seen men going through the country generated. The air within and surrounding looking for an engine to run, when probably they such a barn becomes perceptibly warmer and had only fired the fall before, looking for the big moister. It decreases in weight and is forced upward until a column of warm moist air will be If you are approached by a stranger with ascending from the roof in the same manner as recommends dated 1903 and 1904, get leary of smoke rises from a chimney, diffusing itself outhim at once as you can't afford to take chances ward in all directions as it ascends. If such a on a man who gets his experience two or three phenomena as this occurs, as it very naturally years ago. The man with these old recommends may, and at the very moment when a cloud times over than any bank account in the world, the is capable of twisting off all the set screws, and heavily charged with electricity is hanging overof cutting out all the brasses, valves and gears. head, the discharge from that cloud will encounter "RUSTY." when far above the earth, the widened column

damaged by lightning.

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> site to be burned successively by lightning. Any particular site that offers a path to a lightning flash, is just as likely and in some cases more likely to offer a path to a second stroke. There may have been something in the geological structure immediately beneath the barn in this case that offered a path of least resistance to the current, or the barn may have been more elevated than surrounding objects. In any event it is very unwise to build a third barn on the same site where two have been struck by lightning. The first stroke may have been of accidental occurrence; but where two strokes have

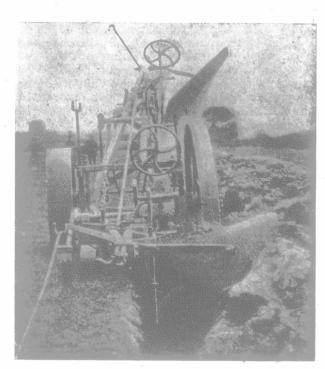
> > lightning strokes the natural ones are the most efficient, and trees are the most efficient of natural protective agents. Buildings with tall trees growing near them are seldom struck. A clump of trees seems to draw the lightning to it. In this country, however, it is unpracticable or impossible to grow trees to a sufficient height to have much protective influence. It is necesonly other means of protection is by metal rods purpose, but authorities generally agree that

A good many farmers, however, seem pre- and the cost of the entire material, fittings be 4 inches wide, or wider or narrower, proporjudiced against rodding their buildings. This included for a barn seventy feet long and forty tionately, as you intend making your walk prejudice arises not so much from the belief that feet high, will be less than \$5.00. lightning rods are without merit as protective lowadays, however, it is not necessary to call intelligent to build a wire fence.

of warm air ascending from the barn. Now hole bored to a depth of seven feet it will be all doubt but that it would provide stock in the duction rather than the motionless atmosphere. can be dug and the end of the rod curled into a It is common observance that it follows air flat spiral. Highest lines and projecting points currents readily. Hence if a bolt is descending should be specially guarded, and it is, therefore, in the close vicinity of an ascending air column, no matter how slow such a column may be movwell to have rods on all ridgeboards. For plain ing, it will deflect that bolt from its course and barns, with one ridge and two gable ends the rod the electric current carried downward by the can be run the whole length of the ridge descendrising air, reaches the barn and through it the ing and entering the ground at both ends. Someearth. This, is at least a theoretical explanation times barns are built T shaped in which case an of the frequency with which filled barns are addition to the rod with the two grounded ends already mentioned, another with its end in the earth at the outer end of the addition, should be It is an old saying that lightning never strikes run up the gable end to the ridge, then along twice in the same place. There is no foundation the whole length of ridge, and connecting with either in science or fact for any such a statement. rod on the main building. There would thus be We have known three barns erected on the same three earth terminals, and all ridges protected. Upright points may be added afterwards. They should be five feet high and not more than twenty feet apart. To make these, lengths of six and a half feet can be cut off, and a sharp bend made a toot and a half from one end, this extra length fo be opened up and wrapped around the rod where it is attached. This makes all solid and gives good electrical connection. At the upper end of the points the wires may be spread out in all directions. Total up all these lengths and you have the full length of rod required. You can now begin manufacturing it. Use soft galvanized, number nine wire, nine strands. A been received on exactly the same site it occurs wagon wheel answers very well for twisting. very likely from some peculiar formation of the Set the wagon in a convenient place, and raise the wheel as if for greasing. Measure out the Of the means of protecting buildings from needed length and drive a stake with a hole bored in it, through which the ends of the wire can be passed, and bent round. The other ends of the wire can be hooked, each around a spoke of the wheel close to the hub. In measuring the wires care should be taken to have them of on the farm between the house and outbuildings? equal length, and an allowance made of one foot sary therefore to resort to other means, and the before beginning to twist, brace well both the followed will be found productive of highly on the roof or the highest point of the building, draw. It is well, also, to throw some poles making an excavation from 2 to 8 inches deep, and the job is done. The rod can be stapled the level of the ground with gravel, broken stone relatively few buildings thus protected are close to the building, as the old idea of the neces- or cinders, and ram it down solid. When the damaged by lightning stroke. While it cannot be sity of insulation seems entirely abandoned foundation is ready, place boards along each side have been destroyed by lightning, yet the num- to make you an iron tripod for each. Have the setting, also to give a nicely finished edge on the

agents, as it does from the fact that the lightning every year from stock being killed by lightning would not advise making it any less. These outrod swindle was perhaps the greatest ever per- in the field. Invariably such stock is huddled boards should be fastened to stakes and the stakes petrated upon the agriculturists of this country. against a wire fence. The fence at some point should not protrude above their upper edge as the This is the chief reason why there are not a may receive an electric charge and the wire con- most convenient way to level the concrete when greater proportion of buildings rodded to-day, veys it along until it diffuses itself into the earth. finishing is by running a straight edge along the Each post conducts a portion of the chargeh top of the boards the services of these gentry in putting up rods. away, and any objects close to or in contact with The work can be done by any man sufficiently the wires likewise will receive a portion of the into blocks, to prevent injury from heat and find the length of cable needed as for an ordinary intervals, say every 100 feet or less a wire leading crete after the top surface has been laid, and barn, the full length may as well be made at one down into the soil, giving direct connection before the mass hardens, with a trowel or spade, operation. Liberal allowance should be made between the fence and earth, and furnishing going right through the foundation from edge for grounded ends, as a connection with damp means whereby the electric current is conveyed

lightning seems to prefer any medium of con-right. If not then a hole four or five feet deep fields with a very large degree of immunity from lightning stroke.



PLOWING 30 INCHES DEEP. Showing the possibilities of deep cultivation to increase the moisture-holding area of the soil.

Making Cement Walks.

What is the right way to construct cement walks? Would you advise putting them down

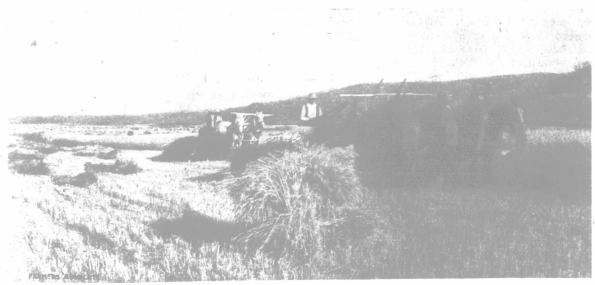
Replying to this enquiry for information on in 200 for shrink in twisting. Now, having the cement walk construction we can do no better nine wires stretched out and fastened securely than give the following plan, which if carefully wagon and stake, for there will be a considerable satisfactory results: Prepare the foundation by extending down into the moist earth, to convey or boards across under the wires to keep them the thunder bolt harmlessly away. Opinions out of the grass and mud. Turn the wheel until —and a few inches wider than you intend the differ of course as to the efficiency of rods for this the cable is sufficiently twisted to hold together, finished walk to be. Fill this excavation in to denied that some buildings equipped with rods To hold the points upright get the blacksmith of the walk to hold the morter in place while it is ber has been so very limited as not to break the rods run direct as possible with few sharp turns. concrete. These boards would be the better of rule that rods are a real protection.

Such a rod will weigh one half pound per foot, having their inner sides planned. They should thicker or lighter than the one here described. In this country, too, considerable loss results Four inches is, however, a fair thickness and we

It is always necessary to lay the concrete off telligent to build a wire fence.

current. The remedy in this case is to have frost. There are two ways recommended for In constructing a rod the first thing to do is to the fence wires grounded, to have, at frequent doing this. The first is to cut through the conto edge of the walk. The second plan is to lay earth at a sufficient number of places is of first harmlessly away. Such a connection could be off the walk into sections by means of cross pieces importance. If a small well augur can be got and readily and cheaply made, and there is little placed four or five feet apart. This is the most satisfactory method. To do it properly get slats an inch thick and 4 inches wide. Their length should be exactly the width of the walk. Place them in at about 4 feet intervals, and peg down securely. You are now ready to put in the mortar. For the bare coat prepare a mixture of one part Portland cement and 8 parts gravel or broken stone. Mix it thoroughly both wet and dry and ram it down well on the foundation. This layer should be 3 inches in thickness. It is best not to have too much base mortar down in advance for unless plenty of help is at hand the foundation may get set before the surface is laid, in which case the bond between it and the base layer will be imperfect. Mix the finishing coat one part cement to two parts fine gravel or, preferably, clean, rather coarse sand. Spread it out and level quickly with a straight run over the top of the outside boards, finishing the surface up with a wooden float. Bevel off the edges on all four sides and the block is com-

> In building in blocks after this method, it is always necessary to put in the blocks alternately,



CUTTING FALL WHEAT ON MR. GEO. BUCHANAN'S FARM, PINCHER CREEK, ALTA.

provide for a proper joint when building. Leave give fifteen pounds of rich milk, it is better to "June-grass tint." The main point is to have each alternate space as you go along, and when let calves on her for veal, and get rid of her as the color uniform. Mottles, streaks, waves, etc., layer always be careful to cut a groove right inferior cow. through to the joint you have thus made in the lower strata. If the cross edges of each block, as it is laid, is bevelled off only slightly the groove, of course, will be made as you go along. Cover each section as it is completed, with boards, straw or sawdust, and protect it from dust, dirt, currents of air and the sun for a few days while it is setting. Sprinkling occassionally will help the setting process and make a harder finish.

A walk thus constructed will prove satisfactory for a good many years. Nowadays when lumber prices are prohibitive to the use of that material for purposes such as this, cement has come into general use on the farm and in addition to being used as a foundation and building material seems now coming into use for nearly everything else as well, hog troughs, water troughs fence posts, etc. It is of exceptional value for work on fifty or two hundred lots of butter at an building walks and our correspondent need not exhibition? The judge must have something hesitate long about using it for this purpose.

DAIRY

The Great Milker Petered Out.

EDITOR FARMER'S ADVOCATE:

I believe there is nothing that will so help a man to get the best results as the milk-record system. One can so easily detect the results of any change in feed or otherwise, and remedy it, perhaps not so much on the whole herd, but individually, for I have found from experience that it pays well to cater to the likes and dislikes of different cows. The ration fed to one cow profitably might be far out for another. Some claim to be able to tell how much a cow gives merely by guess, but to me they are far out. It is very easy to remember the two or three months in the flow when the cow is giving, say, forty pounds per day, and forget all the rest of the year when she has dropped down to less than half that amount. I once bought a cow for a good price that was noted as a great milker, and she started out to lead, and did so for about twomonths, and finished second to last, with a small two-year-old behind her. There is no other correct way but to keep a record of milk, both as to quantity and quality. Form and appearance count for a great deal, but often fail, but per- people, and by a growing number of Canadians. formance always counts.

Of course it takes some time to do the figuring, but so very little that the interested man will enjoy, and, indeed, should be anxious to get at butter. A judge likes to have the butter "iron ciples. Dairying for profit, like many other tub, box, or crock, it should leave the back of things, lies behind so much fine figuring that the trier clean—not greasy; should be close in majority never get at the real truth, thereby body and texture, and not too hard and brittle, making their work a drudgery in place of nor yet too soft. When the butter is of such pleasure.

Central Experimental Farm, Ottawa.

In the article which Mrs. Tomes prepared for us upon her method of making butter for exhibidifficulty in getting a market for her product. doubtless indicated what the meaning was.

Wide-Awake Dairymen.

EDITOR FARMER'S ADVOCATE:

I have been keeping individual milk records for and sometimes twice per week by the use of a very little of my time to weigh. I have a little more or less mottled. pass-book with the name of each cow, and I credit. As tastes vary with regard to color and salt that appear from time to time in this department her with her milk. My cows are graded Short- in butter, it is very difficult to give general direc- on the subject of home butter making. The horns. Before I commenced keeping records, I tions which cover all cases. It is better to err system outlined in last week's issue by Mrs. calculated so much to the cow per month, say, on the side of light color and light salting, than Tomes, of Plumas, seemed particularly valuable five dollars, for I heard it often mentioned that it go to the other extreme. Up to the end of Sep- indeed. There were some points though in was about the average; but when I kept records I tember it is hardly necessary to use any coloring, connection with her method, on which we are not found some of my cows were giving twenty pounds. After a heavy frost or two a small amount of quite clear. One of these is the washing of the while others were giving as low as nine pounds vegetable butter color added to the cream just butter. In our own experience we have always

in order to get the wooden crosspieces out and at a milking. Now, I consider if a cow does not before churning is advisable in order to obtain the the mortar in the sections filled has hardened soon as I can. I may say that I find in this part are always scored down by a competent judge, as sufficiently, remove the cross pieces, place a that the best dairymen are the men who keep a this indicates faulty workmanship. The prethree inch strip of tar paper on the edges of the close record of the feed they feed their cows and ventives are: washing out the buttermilk with blocks, thus exposed and fill these remaining the returns they get from each individual cow, water or brine, even distribution of fine salt and spaces as before. In finishing off the surface and value a good cow very much above an working twice. If these points are noted there is

FRANK MUNROE

Hints on Making Butter for Exhibition.

As a number of our correspondents have recently been asking for suggestions on the making of butter for exhibition purposes, we take it that there is more or less general demand for information on this question, hence these hints. It is taken for granted that those who read the article are familiar with the ordinary routine of buttermaking, thus it will not be necessary to go into details.

The first and most important thing necessary for a buttermaker to bear in mind is the basis or scale of points used for judging. What does the judge usually consider when he or she starts to definite in his or her mind as to what constitutes a standard of perfection. This standard usually consists of some scale of points, the total making one hundred for the sake of convenience. Even if the judge uses no set scale, he must have some definite ideal in his mind or his judgement is worthless. The standard of perfection is usually made up of: Flavor, Grain, Body, Color, Salting and Packing. As flavor is the most important quality in butter, the maker must ever bear in mind that the judge is likely to decide about onehalf the merit of each lot of butter according to its flavor. Most judges now give preference to the mild, creamy flavor, rather than to the acidy flavor of former times, hence the buttermakers should not ripen the cream so much as formerly. In no case should the cream have more than five (five-tenths) of one per cent. acid at the time of churning. Where no acidimeter is available, churn as soon as the cream thickens and has a mild, acid flavor. Having cream from perfect milk, or milk with an absence of any fodder or weed flavor, is a great help in getting fine-flavored putter. The use of a culture or good-flavored starter is also a help. If there is any objectionable flavor on the milk, the cream should be pasteurized when sweet; that is, be heated to 160° F. for about ten minutes, or 180° to 185° for two or three minutes. If a good culture is not available, this pasteurized cream may be cooled to before it is judged. This gives time for the grain about 50° and be churned without any ripening to set and the color to become uniform. It is a whatever, after standing one or two hours. Such mistake to send butter to an Exhibition the same butter has the nice creamy flavor liked by English day or the day after churning.

point in exhibition butter.

The second point is the grain and body of the and work out his operations on business prin-nicely, i.e., when he pulls a sample out of the print, consistency that it spreads nicely on bread, its lots, in case of ties. The person who delivers D. D. GRAY. grain and texture are considered perfect.

Temperature of the cream and butter at the time of churning and temperature of the butter at the time of judging are the two most important butter. Many persons become so anxious about tion a fault of the printers made her say she had factors governing grain and body. The character having their butter so much better than usual of the fat which is influenced by the cow and her that they spoil it, and in many cases the lot sent This should have read "I have no difficulty in feed, is another factor. Method of working is to the exhibition is not equal to the average make. finding a market for my butter." The context another; some butter is spoiled by over-working. described and is learned only by experience. exhibitions, or at any other time. Working sufficiently to mix the salt well, then the last three years. I take records once and allowing the butter to stand for one to three hours before finishing the working, is a much forty pound steelyard, which I keep in the barn. safer plan than to depend upon one working. As I know the weight of my pails, it takes but Once working is almost sure to produce butter Editor Farmer's Advocate:

little danger of mottled butter. "White specks" in butter are prevented by straining the cream into the churn, thus removing particles of curd, dried cream, etc., that produce "specks."

Salt at the rate of three-quarters to one ounce of salt per pound of butter for prints and one-half ounce for boxes. Tubs and crocks may usually be salted the same as for prints, because these are chiefly sold on local markets, where the demand is for higher salting than for the export trade.

The use of fine salt having sufficient moisture present in the butter to dissolve the salt, and twice working, will usually prevent grittiness which is the most common fault under this head after "too high" or "too low" salting. The tendency is for milder salt in butter, in order that the true creamy flavor of the butter, may be more apparent.

The oblong pound print, wrapped in plain parchment butter paper, is the best form. The print should not be too high and narrow, which gives the judge the impression that the butter cannot "stand-up." The top, bottom, sides and ends should be close and straight, or nearly so. Some prints look as if some one had sat down on one edge of them. This is caused by a faulty printer, or not removing the butter properly from the printer. By holding the ladle against one side of the print, the butter can usually be removed without trouble. The fifty-six-pound box is best for export. This should be neatly finished on the top. A fluted roller passed over the smoothed surface of the butter, relieves the top of that tendency to a greasy appearance. The box should be lined with heavy parchment paper. The butter should be packed in small lots so that if the judge "strips" the package it will present a close, uniform appearance on all sides and on the bottom. As a rule it is not necessary to put salt paste, or anything except the parchment paper, on the top of the butter. Tubs, crocks, etc., should be filled to within about half an inch of the top, then be covered with a parchment paper, or clean cloth circle, and nothing else except the cover. Fancy patterns or scrolls on top of the butter are usually disliked by the judge.

GENERAL DIRECTIONS.

1. Have the butter made at least three days

2. Ship in a clean case, preferably enclosed in Don't forget that flavor is the most important another case, or in a canvas cover. In hot weather pack in ice before shipping or delivering. Pieces of ice in the basket or box containing the prints tend to keep the butter cool and firm. I the exhibition has a good refrigerator, ship in time to have the butter cool before judging day. Also ship or deliver in time. A judge is usually annoyed at having to go over another lot or two after he has finished a class, which possibly means late at an exhibition seldom gets more than "cold justice.

3. Be not over-anxious with the exhibition

4. Bear in mind that the judge will judge the Work sufficiently to make the body firm, the butter chiefly on the question of flavor. He or color even, and the appearance waxy, but avoid she will not consider the grain, color, salt and too extremes of "over" or "under" working. package. These are the five main points to The "end-point" is something which cannot be always keep in view when making butter for

O. A. C., Guelph. H. H. DEAN.

Prize Butter Making.

We have been much interested in the articles

obtain the is to have vaves, etc., t judge, as The premilk with ie salt and ed there is te specks" the cream es of curd,

UNDED 1866

CS. one ounce d one-half ay usually e these are ie demand trade.

moisture salt, and grittiness this head ing. The order that , may be

in plain rm. The ow, which he butter sides and nearly so. down on a faulty erly from st one side removed l box is y finished over the the top of The box at paper. ts so that ll present nd on the put salt nt paper, cks, etc., n inch of nt paper,

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is about in usual lot sent e make. idge the He or alt and pints to tter for

)EAN.

hibition

articles irtment 3. The y Mrs. aluable ugh in are not of the always

on, to prevent the butter forming into chunks. of entering the ministry, the latter the army. We have always found that when butter gets the kitchen. We always use a strainer too, when returning to the Cannington district of thMe taking the buttermilk off, for when the butter Mountain country and homesteaded. granules are the size of wheat grains some of

trouble we always experience is this: We salt honey got frozen. in the churn and unless the butter is taken out and ordinary lever worker, and turning it over about much. To supply the nectar for summer patches three times. The butter is then put up in rolls of alsihe clover are raised. White clover is also it would be that she takes too much time in gardeners. affecting the transformation from cream to butter.

APIARY

Honey Production In The Moose Mountain District.

EDITOR FARMER'S ADVOCATE:

The Moose Moutain country has, since its first settlement in the early eighties, been looked upon as an ideal mixed farming country—one producunsurpassed in both quality and average yield. country, much less others, realize that another the East has been found to be adulterated. profitable industry can be successfully carried on despite the fact that the winter temperature occasionally reaches the forty below zero mark. Moose Mountain Agricultural fair held at Carlyle. success of bee-keeping.

iately the buttermilk is drawn, revolving the attended Chard grammar school and William time and Cooper Bros. two-ton harvest last year churn quite rapidly while the operation is going Cheltenham school, the former with the intention is indisputable evidence that the opportunity is

But the call of far-off Canada was stronger into lumps it is more difficult to get the butter- than either ministry or army, and the former milk removed, also more troublesome to salt came to the Moose Mountain country in 1886, and evenly. We cannot just see what merit there the latter in 1892, for the purpose of farming. is leaving the butter in the churn for half an hour. Charles homesteaded and afterwards bought a We always like to get the churning done with as quarter section more. William spent some time quickly as possible, and the utensils cleared from in fruit farming in British Columbia, afterwards

"Try bees," was the suggestion of a Canningthem are liable to escape through the outlet. ton lady and for once the bachelor brothers Then there is the matter of salting. In our decided to take a lady—at her word—and they own practice we have always guessed at the purchased their first colony at Portage la Prairie. weight of salt used and generally came near The prospects the first year were not at all the enough the mark, though we believe it would be brightest for the colony did not winter well and more accurate and better to use the scales. The neither did the honey—the bees died and the

However, another colony was purchased and weighed and put back in again, which is no small increased with the years until to-day the Messrs. chore on our farm-where the nearest set of Cooper have sixty-eight colonies, which in the ounces,—we have no idea as to how much butter practically surrounded by bluffs, thus being we have or how much salt we add. Of course, sheltered from the winds. In the winter the after a time, when one gets accustomed to hives are stored in the cellar. The food supplied guessing, fairly satisfactory results are attained. the colonies to tide them through until the We don't like to work our butter too much, we blossoms come, is mostly old honey which may have never used a Water's mixer prefering the have become somewhat discolored or heated too or prints. If we have any criticism to make of raised. In seeking its food the bee is a valuable the methods employed by your correspondent assistant to the Messrs. Cooper who are extensive

Aside from the above mentioned labor in con-By her method an entire forenoon is required in nection with food supply, the only attention the the operation, altogether too much for the average housewife to devote to it.

Brandon.

Mrs. J. M. A.

Brandon.

Brandon.

Brandon.

Mrs. J. M. A.

Brandon.

Mrs. J. M. A.

Brandon.

Brandon.

Mrs. J. M. A. of honey is not fraught with the dangers which the unitiated might imply. After being among the bees for some time their sting is scarcely noticeable.

> In placing the colonies away for winter, care is taken that a sufficient supply of honey is in each colony—about fifty pounds. In some cases honey is taken from the stronger colony and given to the

Coming to the financial side of the bee industry, we may say that last year the Messrs. Cooper had a two-ton harvest which was disposed of locally at fifteen cents a pound. The honey harvest, like other harvest, may vary according to the seaing some of the best cattle in the West, and wheat son, showers and hot weather between, being the most favorable. A ready market is always found But few of the residents of the Moose Mountain in the West, as much of the honey shipped from

> Cooper Bro's. honey exhibit is always one of the interesting and attractive features of the

The industry we have reference to is that of the The Messrs. Cooper after ten years successful production of honey, and Cooper Bros., a few bee culture are fully convinced that the produc-miles north of Carlyle, Sask., have with an tion of honey can easily be made a valuable experience of ten years fully demonstrated the adjunct to the industries of Western Canada, and particularly amidst the sheltered vales and bluffs Chas. Cooper was born in India, and William of the beautiful Moose Mountains, so aptly in Somerset county, England, not far from described as the "Park Country." The long

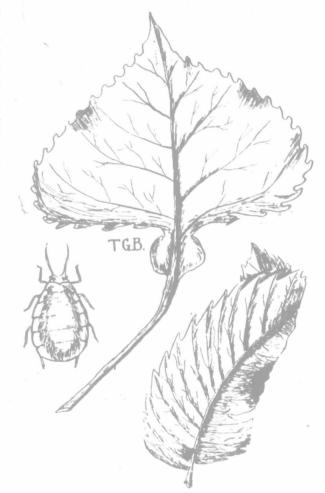
found it best to wash the butter right out immed- Mountain district gets its name. Charles the busy bee every opportunity to work overtaken advantage of.

THOS. JARROTT.

Horticulture and Forestry

Plant Lice and Gall Lice: Some of the Species that Injure Shade and Forest Trees.

Considerable injury has been wrought in some localities this season by plant lice working on the leaves of the elm, maple, cottownood, poplar and other trees. In Winnipeg the elm shade trees on the streets have been attacked, by an insect that causes a partial curling of the leaf, forming an enclosure within which the insects lay their eggs and hatch their broods. At this scales is in the barn, and they won't weigh in summer are located near their house and are life cycle is completed and having laid the eggs season they have nearly all disappeared. Their to perpetuate their species next year, the brood of 1907 is no more. They have left, however, some very tangible evidence of their existence and some of the weaker trees have been checked in growth or permanently injured by their attacks. This species, or one very similar to it, seems also to infect the maple and poplar. Its ravages on them are, fortunately, however not so



Cannington from which Cannington in the Moose sunshiny days common to this country give Work of the ELM Leaf Louse and Willow Gall INSECT, WITH WINGLESS FORM OF ADULT.

serious as they are on the elm. Another species is at work on the poplar and cottonwood, but it is a gall former, that is to say forms galls, or unnatural growths on the twigs or leaves in which it passes its life and rears its young.

Plant lice are among the lowest forms of insect life. They are so common that a detailed description of them is unnecessary. Nor would such description serve any useful purpose here since they are so minute that the ordinary observer would gather little information concerning the species from a casual examination of the individual. The illustrations here given showing the manner in which they affect injury to their hosts, is a better means of guiding us to an understanding of their habits, their characteristics and their appearance. There are some points however, in respect to these insects that is of general interest, that applies to nearly all species and which is interesting enough to be taken up here. The first of these is their manner of reproduction. The rapidity with which these creatures multiply and reproduce themselves is simply marvellous. Huxley, the eminent English scientist estimated that ten generations of plant lice from a single ancestor would produce



COOPER BROS. APIARY IN THE MOOSE MOUNTAIN COUNTRY

these habits makes itself one of the most bene- ment in all cases is the same. ficial forms known.

lice multiply themselves with such rapidity, is a method known to scientists as "parthogenisis," which means virgin birth. That is to say individuals are born alive from a single female, and these in turn go on generation after generation, producing living young, not from the are found most abundantly on poplar, are gening Station, Bowmanville, Ontario, are given: egg as insects are usually produced, but by actually giving birth to living individuals. This continues in most cases until well into August, when a generation is produced that contains both males and females, that is winged and that reproduces itself through the egg. This is the any time after mid-summer it will be found full stage in which the winter is passed. In the spring the return of warmth hatches the egg which has been laid on some convenient twig, and the sexless "stem-mother" which it produces, brings forth her sexless generations of living lice, and these in their turn bring forth theirs in inestimable numbers until the return of fall brings round again the brood of sexed and winged forms by which perpetuation and dispersion of the species is ensured. The winged forms may appear once or twice during the summer but true males are produced but once. The fact too that this last generation has wings provides not only for the dispersal of the pest but for the return to some perennial plant of the summer broods that have been feeding upon grasses and other annual plants.

enjoyed by ants, and these creatures in a surprisingly intelligent way care for the plant lice, of them or their products at home or in the British drive awa, their natural enemies carry them market. The advice given all through is thoroughly necessity arises they assist in migrations from place to place and actually prepare locations in advance of transportation. To the ants these insects bear about the same relation as the milch cow does to man. In fact they are called "the milch cow of the ant."

practical in its nature, it is given by a practical man and is based largely on work actually done in the chicken business in Alberta. As such it appeals particularly to poultry men of the west. It is the first real authority, we have of our own, on the industry. The following is taken from this bulletin under the head, "Fattening":

dozen lady beetles within this enclosure too, as sonable to confine poultry when being fattened busily engaged in devouring the lice as the lice as the larger animals. The simplest method of doing are in reproducing themselves. About the middle of August, males and winged females are the birds intended for sale were only confined in a produced. The males may or may not be written a clean floor good ventilation.

bulk of 500 million human beings, a mass equal eggs are deposited and provision made for it whenever possible to the whole Chinese population, and later perpetuating the species over winter. This investigators believe that if anything this is an done the insect dies. There are two seasons at underestimate. Fortunately, however, these which this pest can be attacked and destroyed. It may be sprayed with some remedy that kills tiply with such stupendous rapidity as this. There are a number of predaceous and parasitic during the species over winter. This The Crate Feeding System.—During the past few years the crate feeding of chickens for market has been introduced from England, and has made substantial progress in Canada, because it has proved to be the most satisfactory means of preparing producted in the crates. The gain in live weight There are a number of predaceous and parasitic during the summer season, or the trees may be There are a number of predaceous and parasitic during the summer season, or the trees may be conducted in the crates. The gain in live weight insects that prey upon or infest them at every treated with washes or solutions similar to the made by the birds ranges from on to three pounds stage of their existence, and are the means two named, in winter to destroy the eggs. Sum- per chicken during the fattening period. which nature provides of holding them in check. mer treatment is the most effective and kerosene One of the most common of the predaceous forms the best remedy. Insects of the same species is the lady beetles, an insect that feeds upon as this attack nearly all deciduous trees, maple, plant lice and such forms continually, and from oak, cottonwood, poplar and willow. The treat-

The method of reproduction by which plant a very common pest of the poplar. This is a just described in that it causes the plant to throw out unnatural growths or galls, in which erally spherical in shape and about half an inch in diameter. They are so common this year on the poplar that a casual observer might readily mistake them for a natural growth, nearly every leaf is infected. If one of them is cut open of plant lice, the progeny of a single specimen that laid an egg here earlier in the season and with the egg excreted a minute drop of poison which irritated the plant and produced the gall. There are hardly any of these gall making species abundant enough to be seriously troublesome. Should they become so, however, the remedies advised will be found as effective as any.

POULTRY

The Fattening of Farm Chickens.

"Advanced Methods of Poultry Farming," by W. Foley, Poultry Superintendent in Alberta, Another remarkably peculiar thing about the first poultry bulletin published by the Albertan insects of these species is the relationship that Government, came to hand some little time ago. exists between some kinds of them and ants. It takes up in a general way and with much detail Most of the plant lice excrete a honey like sub- the whole business of poultry farming. Attention stance called "honey dew", which is greatly is given to every phase of the industry from the enjoyed by ants, and these creatures in a surbodily to better feeding grounds and when practical in its nature, it is given by a practical man

The elm leaf louse, illustration of which is demonstrate that a large amount of the dressed type and the results, as will be observed, were excepgiven, makes its apearance in July and the first signs of its presence is a slight curling up of the leaf edge. If this little fold is opened up a number of the makes its appearance of the best be made, however, for killing and dressing as these ber of very small, wingless, greenish blue mites method of fattening and dressing birds. The fact is are not included in the above statement.

will be seen within. This is one of the savless will be seen within. This is one of the sexless particular attention in the way of preparing them bird that is capable of producing the best results in generations, it has been produced by a winged for market. Of recent years it has been demon- egg production is also the best type of bird to produce 'stem-mother," and each individual of the brood strated that poultry should be specially fattened flesh in the fattening crate. is now producing sexless generations of its own. in much the same way as beef, mutton or pork, in It is not an unusual thing to find from one to a order to produce the best results. It is just as reaproduced. The males may or may not be suitable shed with a clean floor, good ventilation, winged, but the females are always thus pro- and such foods as would be fed were the birds being vided. They emerge from the leaf and are fattened in crates. The crate system is much the

a mass of organic matter equivalent to the ready to migrate to other locations where the better plan, however, and it is advisable to adopt

Crated chickens command an increased price per pound because they supply a much larger percentage of meat than when lean. The flesh is also more tender of meat than when lean. and palatable because it is produced by the whole-The other figure in the illustration represents

The other figure in the illustration represents

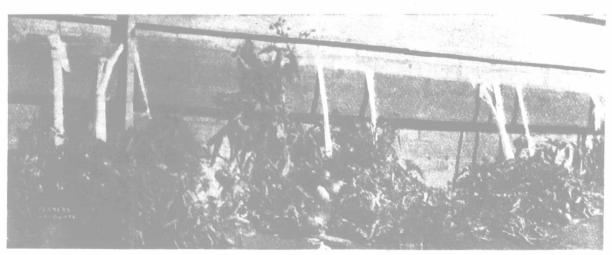
The other figure in the must of the popular. This is a standard property common part of the popular. This is a standard property of the popular tissue less tough, and a very common pest of the poplar. This is a in properly fattened birds there should be an almost typical gall former. It differs from the species entire absence of such tissue.

Cost of Food and Grain in Weight by Crate Feedthe lice develop and reproduce themselves. ing.—10 illustrate the grains which the following figures taken from the ing.—To illustrate the grains which can be obtained These galls form right at the base of the leaf, results obtained at the Dominion Government Breed-

\$ c \$ c. \$ c. 1bs. 1.30	eight Cost Cost Cost No of of Total The
5 C. 5 C. 70 9.77 48 85 13.93 76 80 13.18 80 14.75 80 15.18 80 15.18 80 15.35 83 83 16.67 80 16.67 80 17.34 116.80 504	all
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7.34 116.80 504	7.00
	4-4

In order to have the chickens plump and well fleshed for the market when they are at the most profitable age, they should be placed in the fattening crates when they are between three and four months It is not meant by this that the chickens cannot be fattened profitably when they are more than four months old. Suitable market chickens will show grains in the crate at any age, but the most profitable grains are made by birds weighing 3½ lbs. to 4 lbs.

Construction of Fattening Crates.—The fattening crates are 6 feet long, 16 inches wide and 20 inches high, inside measurements. Each crate is divided by two tight wooden partitions into three compartments, and each compartment holds four birds. The frame pieces are two inches wide and 7 inches thick. This frame, see Fig. 38, is covered with slats placed lengthwise on three sides,—bottom, back and top,—and perpendicular in front. The slats for the bottom are $\frac{7}{8}$ inches wide and $\frac{8}{8}$ inches thick; the back, top and front slats are the same width but only \(\frac{3}{8} \) of an inch thick. The space between the slats in front are two inches wide to enable the chicken to feed from the trough. The bottom slats are 11 inches apart, with the exception of the space at the back of the crate, which is 21 inches wide The bottom slats are always placed upon the top of the cross pieces of the frame. This is done to prevent any injury to the chickens' feet should crate be moved and placed on the ground when full of birds. The back slats are placed lengthwise 12 inches apart, and the top slats are also placed lengthwise 2 inche apart. Two strips should be nailed under the top slats near the ends of each division and hinged to



TOMATOES AND TOMATO VINES AT EDMONTON

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roduce d well e most tening cannot in four show ofitable 4 lbs. tening inches mpartbirds.

inches h slats back ats for thick width etween ole the wide top of ate be

ie top

the frame work. When the slats are sawn above the partitions, doors are formed for putting in birds.

The crates are placed on stands 16 inches from the ground and the droppings from the chickens received on sand or other absorbent material. A light "V" shaped trough 21 inches inside is placed in front of each crate, and is carried on two brackets nailed to the ends of the crate. The bottom of the trough should be 4 inches above the bottom of the crate and the upper inside edge 2 inches from the crate.

for the purpose. The open top of the box should building on the exhibition grounds at Toronto went become the bottom of the crate, and one side should up in smoke. With push that would do credit to be removed for the front. Laths should be nailed any Western city the directorate and the city council up and down the front and lengthwise on the bottom of the overly and today there stands on the scene

doors in a sheltered place.

In unsettled weather it is advisable to construct a rough board shelter above the crate so as to shed the rain; or the fattening should be carried on inside a shed or barn.

During cold weather the crates should be placed in a warm building. Abundant ventilation is required at all times.

Killing Lice.—Before the birds are put into crates they should be well dusted with sulphur, or any good louse killer, to kill any lice on them. They should be treated again three days before they are killed.

Feather Plucking.—Birds that are fattening in crates sometimes pluck the feathers from one another. This habit is caused by irritation at the roots of the feathers, and results either from over-heated blood the fattening ration.

If the trouble is caused by parasites, they will be found in the white powdery matter at the base of the quill. A sulphur and lard ointment should be applied to the affected parts.

Feeding.—It is necessary to feed the birds lightly the first few days they are in crates, not feeding all they will consume. The food should be given twice a day, and after the birds have eaten what they

the coarser hulls sifted out, have proved the best prepared. grain for fattening and should form the basis of all low grade flour.

Satisfactory mixtures of meal:

(1). Ground Oats (course hulls removed). (2). Siftings from rolled oats (no hulling dust

should be included).

(3). Two parts ground oats, two parts ground

(4) Equal parts of ground oats, ground barley and ground buckwheat

(5) Two parts of ground barley, two parts of low grade flour and one part of wheat bran. The meal should be mixed to a thin porridge with sour milk, skim milk, or buttermilk. On the average,

10 pounds of meal require from 12 to 15 pounds of When sufficient skim milk or buttermilk cannot be obtained for mixing the mashes, a quantity of meat meal, blood meal, or beef scraps and raw vegetables should be added to the fattening ration. A good

will fatten more readily than others and should therefore, be removed from the crate and killed as soon as they are ready. During the last week it is well to feed a little beef tallow, shaved into the trough or melted and mixed in the mash. About one pound of tallow to 50 or 60 chickens per day is a fair allow-

Marking Eggs.

The suggestion is made that poultry raisers or rather all those engaged in the production and sale of eggs, stamp each day's gathering with the date upon which they were layed. The suggestion is a good one. It would tend to add a greater by the vets who subsequently threw them out. honest producers. In winter a fresh egg that is honestly stamped with its age would bring fifty per cent, more than if the consumer had to take the risk of its age. Stamps are easily procured the egg producer who is anxious to develop improve a first-class trade will adopt this an as one of his business practices.

FIELD NOTES

Twenty-Ninth Canadian National Exhibition.

Three new buildings costing over \$400,000 are to use the fattening crate described in this bulletin. Canadian National Exhibition management and the If only a small number of chickens are to be fattened municipal council of the city of Toronto. Last fall Smith & Richardson. packing boxes of suitable dimensions can be adapted on Thanksgiving eve, the grand stand and main to form the floor. The laths should be placed the of the conflagration a magnificent quarter-millionsame distance apart as recommended in the con-dollar grand stand, built of steel, brick and concrete. 3, Lady Macraith, Wm. Edwards, Claremont. struction of the regular fattening crate. A board and provided with 15,000 chairs, also a superb struction of the regular fattening crate. A board and provided with 15,000 chairs, also a superb should be loosened in the top of the box to remove the birds, and a feed trough arranged in front.

Solution of the regular fattening crate. A board and provided with 15,000 chairs, also a superb Filly 3 years old—1, Fifishire Lass, Hodgkinson & Tisdale; 2, Thorncliffe Queen Alexandria, Robt. Davies; 3, Marietta, Robt. Davies. In warm weather the crate should be placed out- one hundred thousand dollars, and devoted to the housing and display of farm and garden products. It also is of steel, brick and concrete construction, dimensions 254 feet long by 58 wide, with three wings each 58 feet wide, and extending back 156 In the basement is ample temperature, regulated storage for plants and shrubs. The other new structure is the railway exhibits' building, new structure is the railway exhibits' building, Brood mare and foal—1, Dunrobin Mabel, Donald erected by the railway companies for the housing Gunn & Son; 2, Lady Lockfergus, Robt. Davies. of their annual exhibits.

Toronto's exhibition is a wonder. Year by year it has grown vastly in excellence and popularity, and 1907 simply eclipsed all previous records. Conceived on broad lines, backed by the city of Toronto and its individual moneyed men, and pushed forward Cliff Royalist. with bold and daring enterprise, begotten of civic pride and the stimulation of success, it has now in the eighth year of its majority attained proportions & Tisdale, Beavernon, Br. Cherry Blossom 4, W. E. or parasites. The remedy is to remove the chickens that do the plucking and feed the others more skim milk, or add animal food and vegetable matter to continuing for two whole weeks it drew this year day after day, crowds ranging from sixty to a hundred and twenty-five thousand people, and as for the grandstand it is already quite too small. Night after night it was packed long before the performance began and throngs of four. five and six thousand filled the space between the stand and the track rail. The evening attractions were hippodrome and pantomime followed by band music, tattoo and a day, and after the birds have eaten what they pyrotechnic exhibitions, all of a high order. The require, the balance should be removed and the midway was relegated to a remote corner of the troughs turned over. Fresh water should be supplied daily, and grit two or three times a week.

Fattening Rations.—A satisfactory fattening ration is one that is palatable and that will produce entertainment for multitudes interested in seeing Marigold Sailor.

Buil, three years old and upwards—I. W. G. Pettit grounds and was unusually free from objectionable & Sons, Freeman, Prime Favorite; 2, J. A. Watt, features. The display of manufactured goods was Salem, J. Victor; 3, W. C. Edwards & Co., Rockland, on the control of the points of o a white-colored flesh. Oats, finely ground, or with how the things we daily eat and wear and use ar

But from an agricultural point of view the crownnig the grain mixtures. The most suitable meals for glory of Toronto Exhibition is the live stock, and Miller, jun., Ashburn, Lancaster fattening are ground oats, buckwheat, barley and the usual high-class aggregation was on hand. In Cowan, Seaforth, Golden Emir. horses the most noteworthy and encouraging fact Thoroughbreds, Standardbreds and Roadsters were Hero. well up to the mark. Neither Percherons nor Coach horses were entered at all in the breeding classes. A departure this year was in judging all the horses, breeding classes as well as harness and saddle exhibits, in front of the grand stand. A few classes of every breed being pulled off each day. Formerly, it has been customary to show the breedclasses in a small separate ring where they could be watched by horsemen and others interested without any charge. The old plan is preferred by the horsemen, for under the present system, few farmers see the judging done, as to see at all would necessitate the payment of six admission fees and crest. the spending of every afternoon for a week in the proportion is one part of the meat meal to fifteen ring. On account of the way in which the judging was spun out it was inconvenient for some of the The birds should remain in the fattening crates judges to be present long enough to dispose of their The birds should remain in the lattening crates judgets, the some substitution was Elliot & Sons, Golden Star; 6, John Guardhouse & for a period not exceeding 24 days. Some birds particular breeds, hence some substitution was Elliot & Sons, Golden Star; 6, John Guardhouse & will fetten more readily than others and should resorted to. The following men decided the honors. Sons, Scottish Knight. in the respective breeds. Throroughbreds, | r. J. Bull, senior champion, over two G. Rutherford, Ottawa, and J. S. Bratton, St. Louis, Pettit & Son, 2, R. A. E. Meadows. Mo. Standardbreds and Roadsters, Dr. Rutledge, Lambeth, Ont. Hackneys, W. H. Gibson, Beaconsfield, Que., and J. S. Bratton, Clydesdales, Shires and Canadian Draught's, Capt. T. E. Robson, London, Ont., Alex Russell, Corville, Ont., Alex Gal- R. Kyle Bros. braith, Janesville, Wis., and Prof. Curtis, Ames, Iowa. For the most part the wor was well done, talent differed from the dispensations of the ermine Blossom. wearers. One practice, however, that must not pass unmentioned was the disqualification, after they had been judged, of several horses previously passed value to fresh eggs and increase confidence in prevailing trouble or excuse appeared to be sidebones. This was about the only blot on the administration of the show.

> Clydesdale awards.—Stallion 4 years or over, r, Sir Marcus, Graham & Renfrew, Bedford Park:
>
> 2. Right Forward, Graham Bros. Claremont 3. Adam Bede. Smith and Richardson, Columbus: broke, Mina Lass 14th, 2. W. C. Edwards, Pire-4. Baron Bean, Robt. Davies. Toronto. 5. Baron Silloth, Robt. Ness, Homick P. O. Golden Bracelet; 4. J. A. Watt, Stamford Queen; 1, Sir Marcus, Graham & Renfrew, Bedford Park 2. Right Forward, Graham Bros. Claremont 3

Stallion, 4 years and over, importers excluded— 1, Royal Baron, Hodgkinson & Tisdale, Beaverton; 2, Durbar, Orangeville Association; 3, Cairngaan, David Graham, Pickering; 4, Caleph, John Raymer Ringwood.

Stallion 3 years old—1, Buteman, Graham Renfrew; 2, Royal Choice, Graham Bros; 3, Buchlyvie Laird, Smith & Richards n; 4, Kilfillan Chief, Thos. Mercer, Markdale; 5, Vanderbilt, Robt. Ness.

In fattening for the market it is always advisable the past year's monument to the enterprise of the ham & Renfrew; 2, Boreland Chief, Graham Bros; use the fattening crate described in this bulletin. Canadian National Exhibition management and the 3, Bullseye, Dalgety Bros., London; Baron Columbus,

Stallion 1 year old-1, Royal Benedict, Robt. Ness; 2, King o' the Barons, Graham Bros.; 3, Gay Sprig, Graham & Renfrew.

Champion geld mare—1, Flora of Ardyne, Robt. Davis; 2, Pearl, Donald Gunn & Son, Beaverton

Filly 2 years old—1, Margherita, Donald Gunn & Son; 2, Crissa Princess, Hodgkinson & Tisdale; 3, Strawberry Bloom, Robt. Ness.

Yearling filly—1, Hilda 2nd, Graham Bros; 2, Cragie Belle, Hodgkinson & Tisdale; 3, Belle of Dildawn, Robt. Ness.

HACKNEYS.

Stallion, three years old—I, T. A. Cox, Brantford, Crayke Mikado; 2, A. E. Yeager, Nottington Squire; 3, Graham & Renfrew Co., Bedford Park (imp.)

Brood mare, w :oal of the same breed by her sido—1, Graha, ros., Claremont, Ch. Minerva 2, Hodgkinso isdale, Br. Wild Cherry 3, H. J. Spencely Boxgrove, bay, Rosalee 4, Graham Bros., Claremont, Missire.

Foal of 1907-1, Graham Bros., Claremont, Gondolier 2, Graham Bros., Toggeny 3, Graham Bros., Madonna 4, Hodgkinson & Tisdale, Beaverton, Dictator.

SHORT HORNS.

Bull, three years old and upwards-I. W. G. Pettit

Bull, two years old and under three-1, A. E. Meadows, Port Hope, Challenge Plate; 2, John Guardhouse & Sons, Highfield, Prince of Archers; 3, John Miller, jun., Ashburn, Lancaster Champion; 4, James

Bull, senior yearlings, calved before January 1, was the continued improvement in the class for Canadian-bred draft, (the Clydesdale or Shire). The open classes of Clydesdales as well as Hackneys, Bud's Emblem; 3, Hastings Bros., Crosshill, Snowball

Bull, junior yearlings, calved on or after January 1 The Dreamer; 3, W. R. Elliot & Son, Victor of Maple Hill; 4, John Guardhouse & Sons, Prince Victor.

Bull calf, senior, calved before January 1, 1907, and under one year—1, Thomas Redmond, Millbrook, Gallant Sailor; 2, Geo. Amos & Son, Lancaster Victor; 3, Daniel Talbot & Son, Everton, Hillcrest Granger; 4, John Miller, jun., Choice Merchantman; 5, John Fairbairn, Spring Creek Archer; 6, H. Smith, Exeter, Jealous Lord; 7, Daniel Talbot & Son, Pride of Hill-

Bull calf, junior, calved on and after January 1, 1907—1, H. Smith, Baron's Pride; 2, Kyle Bros., Jessie's Chancellor; 3, Kyle Bros., Vice-Chancellor; 4, W. G. Pettit & Son, Tillbouries Favorite; 5, W. R.

Bull, senior champion, over two years-1, W. G.

Bull, junior champion, under two years -1, Kyle Bros. 2. R. W. R. Elliot & Son.

Bull, grand champion—1, W. G. Pettit & Son; 2,

braith, Janesville, Wis., and Prof. Curtis, Ames, Cow, three years old and over—1, W. C. Edwards, Iowa. For the most part the wor was well done, Pine Grove Clipper; 2, J. A. Watt, Tiny Maud; 3, J. A. though there were cases of course, where the rail Watt, Olga Samford-4, W. G. Pettit & Sons, Warden different from the dispensations of the engine.

Cow, under four years, in milk-1, H. Smith, Golden Lovely.

Heifer, two years old and under three-1, Geo. Amos & Son, Flora 90th; 2, W. C. Edwards, Butterfly Girl; 3, W. G. Pettit & Sons, Rosetta 12th; 4, J. A. Watt, Fanny B. 38th; 5, W. G. Pettit & Sons, Jilt's Lady; 6, John Guardhouse & Son.

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Peter White, Glo'cester Queen 5th; 6, H. Smith, Village Rose.

Heifer, junior yearling, calved on or after January 1st, 1906—1, Peter White, Belvedere Lily 9th; 2, John Currie, Eramosa, Ont., Roan Beauty; 3, H. Smith, Beauty Rose; 4, Thos. Redmond, Marigold 44th; 5, Geo. Amos & Son, Lady Mysie; 6, Kyle Bros., G. W. Clemons. Lady of the Valley.

1907—1, John Dryden & Son, Golden Heroine; 2, J. A. Watt, Salem, Mildred 30th; 3, Peter White, Bedford Bessie; 4, Geo. Amos & Sons, Victoria 75th; W. P. Pettit & Sons, Averne 13th; 6, Goodfellow

Female Senior champion—Geo. Amos & Sons, Flora 90th, Reserve, W. C. Edwards, Pine Grove Clipper.

Junior female champion—Peter White, Mina Lass 14th. Grand female champion—Geo. Amos & Sons.

Graded herd: bell, two years old and over, cow, three years or over; heifer, two years and under three heifer, one year and under two, and heifer under one rear-1, W. C. Edwards; 2, J. A. Watt; 3, W. G. Pettit & Sons.

Exhibitor's herd: one bull under two years old, G. W. Clemons; 3, A. C. Hallman. two heifers one year old and under two, and two heifers under one year-1, Peter White; 2, H. Smith; 3, Kyle Bros.; 4, J. A. Watt.

Breeder's herd: one bull under two years, two yearling heifers, and two heifer calves, all bred and owned by exhibitor—1, Jno. Dryden & Son; 2, H, Smith; 3, J. A. Watt; 4, Geo. Amos & Son.

JERSEYS (120 ENTRIES).

Bull, three years and upward—1, Wm. McKenzie, Kirkfield; 2, 3, and 4, R. H. Bull & Son; Brampton. Bull, two years old—1 and 2, R. H. Bull & Son David Duncan, Don; 4, E. Wicks & Son, Bedford & Co.; 3, Wm. Stewart & Son; 4, P. H. Gouin; 5,

Bull, one year old—1, T. Po. Carlton West 2, David Duncan, 3, B. H. Bull & Sc...

Bull calf, under one year—1 and 3, B. II. Bull & 5, Harold M. Morgan. Son; 2, E. Wicks & Son; 4, E. P. Ball. Rock Island, Bull calf, calved Que.

Bull calf, calved since January 1st, 1907—1, David Duncan; 2,3,4, B. H. Bull & Sons.

Bull, senior champion-1, Wm. McKenzie, Pearl King's Own.

Bull, junior Champion—T. Porter, Golden Fox of Dentonia. Grand champion bull—1, Wm. McKenzie, Pearl of King's Own.

Cow, four years old and upwards—1, Alex Hume& Cow, four years old and over—1 and 3, B. H. Bull Co; 2, R. R. Ness; 3, P. H. Gouin; 4, Wm. Stewart & & Son; 2 and 4, David Duncan.

Cow, three years old-1, B. H. Bull & Son; 2, Wm. McKenzie; 3, David Duncan; 4, E. Wicks & Son.

Cow of any age with two of her progeny-1 and 2, B. H. Bull & Sons.

Heifer, two years old—1, 3, 4, B. H. Bull & Son; 2, David Duncan.

Heifer, one year old—1, David Duncan; 2, 3, 4, B. H. Bull & Son. Heifer, one year old, out of milk-1, 2, David Dun-

can; 3, B. H. Bull & Son; 4, T. Porter. Heifer calf, under one year-1, 2, 4, B. H. Bull & Son; 3, David Duncan.

Heifer calf, calved since January 1st, 1907—1, T. Porter; 2, 3, 4, B. H. Bull.

Four animals, the progeny of one bull, all bred and owned by one exhibitor—1 and 3, David Duncan; 2, B. H. Bull & Son. Herd, one bull and three heifers under two years

old; heifers bred and owned by one exhibitor-I and 3, David Duncan; 2, B. H. Bull & Son.

three; one female over one and under two years; one heifer calf—1, R. R. Ness, Howick, Que. female under one year, owned by exhibitor-1, 2, and 3, B. H. Bull & Sons.

Female senior champion—B. H. Bull & Sons, Sweet Eyes. Female Junior champion—B. H. Bull & Son, his wheat on Sept. 4th.

Brampton Henrietta. Grand Female champion = R. H. Bull & Son.

HOLSTEINS.

Bull, three years old and upwards-1, Logan Bros., 3, G. W. Clemons, St. George.

Bull, two years old—1, Logan Bros., N. Bull, one year old—I, Logan Bros., Jacob Clark; 2, G. W. Clemons; 3, J. W. Lee & Son, Simcoe.

Bull calf, under one year—1, C. H. Hallman; 2, Logan Bros.; 3, A. C. Hallman; 4, Logan Bros.; 5, as fuel. G. W. Clemons, Count Posch de Boer.

Bull calf, calved after January 1, 1907—1, Logan Bros.; 2, Logan Bros.; 3, A. C. Hallman

Bull, senior champion—Logan Bros. Bull, junior champion—A. C. Hallman. Bull, grand champion—Logan Bros.

Cow, four years old and upwards—1, Logan Bros.; 2, Logan Bros.; 3, G. W. Clemons, St. George, 3rd; 4, A. C. Hallman, 2nd; 5, A. C. Hallman.

Cow, three years old—1, G. W. Clemons; 2, A. C. Hallman; 3, J. W. Lee & Sons, 4th, Flower 2nd;

Heifer, two years old-1, G. W. Clemons; 2, L. W. Lee & Sons; 3, Logan Bros.; 4, Logan Bros.; 5, J. W.

Heifer, one year old, in milk—1, Logan Bros.; 2,

Heifer, one year old, out of milk—1, Logan Bros.;
Heifer calf, senior, calved before January 1st, 2, Logan Bros.; 3, A. C. Hallman; 4, G. W. Clemons; 5, A. C. Hallman.

Heifer calf, under one year—1, Logan Bros.; 2, the company. Logan Bros.; 3, Logan Bros.; 4, Logan Bros.; 5, W. Clemons, Julia Arthur 3rd. Heifer calf, calved after January 1, 1907—1, Logan Bros.; 2, G. W. Clemons; 3, G. W. Clemons;

4, J. W. Lee & Sons. Four animals, the progeny of one bull, under two years, owned and bred by exhibitors—1, Logan Bros.; 2, A. C. Hallman; 3, G. W. Clemons; 4, Logan

Bros.; 5, J. W. Lee & Son. Herd of one bull and four females over one year old, owned by exhibitor—1, Logan Bros.; 2, G. W. Clemons; 3, A. C. Hallman; 4, J. W. Lee & Sons. Young herd, consisting of one bull and four females,

one year old and under three—1, Logan Bros.; 2, Female, junior champion—Logan Bros. Female, grand champion-Logan Bros.

AYRSHIRES (109 ENTRIES).

Bull, three years old and upwards—1, R. R. Ness, Howick, Que.; 2, Wm. Stewart & Sons, Menie, Ont., at Minneapolis for the purpose of forming a big 3, P. H. Gouin, Three Rivers, Que.

Bull, two years old-1, Harold M. Morgan, St. Anne de Bellevue, Que.; 2, Alex Hume & Co.; 3, Hector Gordon, Howick, Que.; 4, Harold M. Morgan. Bull, one year old—1, R. R. Ness; 2, Alex Hume Alex Hume & Co.

Bull calf, under one year—1, Hector Gordon; 2, W Stewart & Sons; 3, Alex Hume & Co.; 4, P. H. Gouin;

Hume & Co.; 4, Wm. Stewart & Sons.

Bull, junior champion—R. R. Ness, Netherhall

Goodtime. Bull, grand champion—R. R. Ness, Barcheski

Sons; 5, P. H. Gouin. Cow, three years old—1, Alex Hume & Co; 2, R. R.

Ness; 3, P. H. Gouin; 4, R. R. Ness. Cow, dry in calf—1, Harold M. Morgan; 2, Alex Hume & Co.; 3, Hector Gordon; 4, R. R. Ness.

Gordon; 3, Wm. Stewart & Sons; 4, Hector Gordon. Heifer, one year old out of milk-1, R. R. Ness; 2. Harold M. Morgan; 3, Wm. Stewart & Sons; 4, Alex Hume & Co.; 5, Hector Gordon.

Sons; 4, Alex Hume & Co. Alex Hume & Co., Eva of Menie. Female junior champion, under two years—R. R.

Ness, Buchan Flora. Grand female champion—Alex Hume & Co., Eva of Menie.

Events of the Week.

CANADIAN.

Five hundred miles of government telephone lines will be completed at Alberta by the end of the year. * * *

The Winnipeg Maroons are Champions in the Amherst Point, N. S.; 2, A. C. Hallman, Breslau, Northern Copper Country Baseball League, winning seventy games and losing twenty-seven.

F. Webster, an expert from Ohio, believes that

An excursion train from Markdale, Ont., to the Toronto exhibition, jumped the track when going round the horseshoe curve below Orangeville. Seven persons were killed and more than twenty injured. * * *

The extensive barns of the Macdonald Agricultural College at Ste. Anne de Bellevue, P. Q., were struck by lightning and totally destroyed. The loss is about \$35 000 but is covered by insurance.

A new trade agreement between Canada and France allows certain French goods to enter this country at lower rates in return for the granting of the minimum tariff to a number of exclusively Canadian products.

The chief engineer of the Quebec bridge company gave evidence at the inquest that a flaw had been found in the construction. It was thought to be unimportant, but an inspector was sent to New York to discuss the question with the engineers of

BRITISH AND FOREIGN.

Revolution is said to be imminent in the Argentine Republic.

The telegraphers' strike does not seem to be likely to end soon, for the operators in New York and Chicago are seeking other employment.

Louis Glass, vice-president of the Pacific States Telephone company, was sentenced in San Francisco to five years in San Quentin prison, for bribery.

A new law making it possible for a professional thief who has been convicted more than once, to be arrested when found loitering in a public place, or riding on a public vehicle, and who can be sentenced to six months in prison, has gone into effect.

A meeting of the presidents and managers of several elevator companies throughout Minnesota was held companies in the organization.

The Persian premier, who was also minister of the interior, was assassinated on the last day of August as he was leaving the national council in Teheran. The murder is thought to be the work of a secret

The dock laborers of Antwerp, Belgium went on strike and were locked out. In sympathy with them Bull calf, calved after January 1st, 1907-1, the porters went out and riots have occurred between Harold M. Morgan; 2, Wm. Stewart & Sons; 3, Alex them and the Englishmen who had been brought theme & Co.; 4, Wm. Stewart & Sons.

Over to handle the cargoes. Buildings of great value Bull, senior champion-R. R. Ness, Barcheski have been fired by the mob.

Calgary Notes,

The Government Poultry Fattening Station sent 1900 pounds of dressed poultry to Calgary recently which fetched 20 cents per pound. The demand all round for good table poultry seems to be considerably in excess of the supply.

Cattle shipments will soon be in full swing now. Already a few consignments have left Medicine Hat. J. D. McGregor sent 220 head, A. Brown 3 car loads, P. Day 108 head, L. C. Brown 3 car loads. M. D. Mitchell of Medicine Hat will be shipping fifteen Heifer, two years old—1, R. R. Ness; 2, Hector car loads to England on Sept. 20th.

The Direction of the Greatest Progress.

The direction in which the surest and most helpful Heifer calf, under one year old—1, 2, and 3, R. R. Ness; 4, Harold M. Morgan; 5, Wm. Stewart & Sons. Heifer calf, calved since January 1st, 1907—1, Alex training of youth in a conventional set of studies. Hume & Co.; 2, Harold M. Morgan; 3, Wm. Stewart & The most rapid and certain progress would be made by the application to daily life of the scientific Female senior champion, two years and over-1 knowledge that has been accumulated. Some discoveries and inventions do find practical application quickly and easily, such as electric lighting, the telephone, the gas-engine inoculation for diphtheria, and many more. Others, and many very much simpler, remain unapplied or are slow in finding practical use. We are beginning to apply the transmission of power Graded herd, one bull any age; two females over three years, one female over two years and under three years; two-year-old heifer; yearling heifer, and power. But we are yet very slow about it. We are strangely slow, too, in applying electricity to many household uses. In the great field of preserving health-preventive medicine, we sometimes call itwe are criminaly slow. The quack and vendor of drugs, even of unknown drugs, do as thriving a Agnus Grant of High Bluff, Man., finished cutting business as they ever did. In those tasks that require more compact social and political organization, such as the conquest of tuberculosis, the prevention of diseases conveyed by milk and water, the extermination of mosquitoes and the like, we go forward hesitatingly. The adoption of healthful methods of eating, even the eating of less food in middle life, is a slow progress. Real health-resorts, or sanitaria places where men and women may learn before disease attacks how to live so as to avoid the ailments that wrong system of life will surely bring, ought to be within the reach of ever-Northern Alberta has a large store of natural gas, body and ought to be so conducted as to be free of and that in two years Edmonton will be using it "fads" and above the suspicion of mere private gain. Along with this conception of right living and of guarding against disease, we ought to develop practitioners of prevention, prescribers of modes of life according to individual needs.

Again, the application to agriculture of the facts that have been demonstrated over and over again, and that are not yet in general use would enable many men, perhaps most men, who now till the soil, to double their yields. Yet the teaching of the farmers who are themselves now tilling the ear. has been hardly begun. These facts, for example, ada and nter this anting of clusively

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have been proved time and again: By the expen- Export demand for western wheat shows some volume of business was done. The quality of the

to find a greater public service that it could do.

theories and doctrines. There is an indefinate field good many European States, the wheat crop is far of work in furthering the practical application of below normal. The feverish anxiety with which scientific knowledge for all sorts of organizations. Germany snapped up American offerings early in the think it worth their while to attack flies, any prac- pated in the supply there. It is just possible too, tical organization of men or women may find similar that the second half of the season of 1907-08, will tasks near at hand.—World's Work.

Things to Remember.

A VCOOLING TO THE TOTAL TO THE TOTAL
New West Minster Exhibition October 1, 2, 3, 4 and 5
MANITOBA FAIRS.
WoodlandsSeptember 27
Kildonan September 25 and 26
Gilbert Plains October 1
PlumasOctober 2
Meadow Lea October 3 Macgregor October 4
Macgregor October 4
Beausejour October 4 and 5 Selkirk October 9 and 10
Selkirk October 9 and 10
C

Me	fortOctober	15	and	10	
	ALBERTA FAIRS.				
Die	lsbury Se	pter	mber	13	1
Old	sSeptember	16	and	17	G
Ma	grath September	IO	and	20	ì
Ra	ymondSeptember	24	and	25	1
Car	dstonSeptembe	r 26	and	27	ì
Me	dicine HatOctober		and	2	i
Ve	millionOctober	T	and	2	J
Ve	grevilleOctob	er	2 and	4	,
Lac	ombeOctober	. 2	and	4	
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MARKETS

tinent was reported favorable to or likely to injure and lambs are scarce, and prices a little firmer came when weather conditions all over the wheat prices strong. belt were unusually propitious, but as the high Export stee belt were unusually propitious, but as the high Export steers, off cars \$3.75 to \$4.50; butchers' values reached were largely speculative in character, the advance could not be maintained. Towards the close of the week there was a general desire \$2.25; bulls and cows \$2.00 to \$3.00. Sheep \$6.00; among the larger operators to sell, and this coupled with reports that indicated a much greater yield with reports that indicated a much greater yield with reports that indicated a much greater yield heavier \$6.25; roughs, stags and old sows \$4.00 to that was anticipated a fortnight ago in many dis-\$4.50. tricts in Saskatchewan, Manitoba, and the Dakotas, caused prices to drop two or three cents as rapidly as they had advanced.

against wheat of a good variety. The labor is the same in each case.

Most of these tasks require community of action. They require a degree of co-operation that we have not developed yet. A sufficiently compact organization and co-operation of society would enable us to eliminate an enormous number of economic wastes that we endure only by reason of habit.

It will become one of the evidences of public spirit in men and in bodies of men that they turn their right themselves more on the basis of supply and in men and in bodies of men that they turn their right themselves more on the basis of supply and attention to such tasks. The Merchants' Associa- demand than they are at present It is not in probtion of New York had not the slightest idea, when able that present prices will shade off considerably it was organized, that it would ever consider it a during the next three weeks. It is doubtful if any part of its business to set about the possible exter- October wheat will be delivered at prices now current mination of house flies; and yet it would be hard in this option. At the same time there is little practical betterment of groups or communities of supply is serious enough to keep prices up above the to \$6.10; mixed \$5.60 to \$6.45; average hog price people either to the commercial interests of inventors last few year's average no matter how bountiful \$5.75. (a perfectly good method as far as it goes) or to the harvest is that is now being gathered in North-impractical and badly managed experiments of the western America. Europe is going to import more builders of Utopias or of "colonies," who have largely in 1908 than she has for the past few years. burdened the real work of betterment with a lot of Despite all rumors and reports to the contrary, in a If a great association of merchants in New York week goes to show that a serious shortage is anticibe more sensational in the matter of prices than this. The play hinges to a arge extent on the forthcoming Things to Remember.

Nelson Fair..... September

Argentina crop and the available surplus for export

13-18 from India. The later country has on former Victoria Exhibition September 24 28 occasions made good deficiencies in supplies, but this year reports from there have so far been disappointing As it stands at present it looks as if nearly all the available wheat of Canada, United States and Russia will be required in the season just opening, so that if Argentina should fail to reap in as great abundance as is now promised, wheat prices about next May will reach a point they haven't touched for some time. But this is largely speculative. With the advance in wheat, oats went up a cent and have maintained the higher level. The general prospects are for steady values for this cereal, though no one can foretell what will happen when the new

crop comes in. Prices are for grain in store at the lakes, wheat, No. 1 Hard, \$1.02, No. 1 Nor. \$1, No. 2 Nor. 98c. No. 3 Nor. 94c. Futures, Oct. 102c., Dec 102c.,

May 108c. Oats_per bushel, 43c. Futures, Oct. 42c, Dec.

40c, Barley 51 cents.

PRODUCE AND MILLFEED (WH	IOL	ESA	LE).
Bran, per ton\$17	.50			
Shorts, per ton	50			
Barley and Oat Chop, per ton 25	90			
Oats, chopped, per ton 27	00			
Barley, chopped, per ton 22	00			
HAY, (baled) in car lots, per ton,				
Prairie . †	00			
Timothy	00	(a)	10	00
Butter—				
Fancy, fresh made creamery				
prints	26			
Creamery, 56 lb. boxes	24			
Creamery, 14 and 28 lb. boxes	24			
Dairy prints, extra fancy	22	(a)		24
Dairy, in tubs	19	(a)		20
CHEESE, Manitoban at Winnipeg .	IO			
Eggs, fresh, f. o. b. Winnipeg sub-				
ject to candling	17	0		т8
Ject to canding	-/	w		10

LIVE STOCK.

There is a good demand for export cattle and few of quality coming forward. Just at present ocean October wheat reached the dollar mark on Sept. space is plentiful and cheap and shippers are anxious 3th, the highest point touched by this option this to take advantage of it, but export stuff seems hard season. The advance came on the strength of to find just yet. A few train loads went East last unfavorable European reports. Wheat in Berlin week, large consignments being received from the jumped ten cents in less than two days. It was Knight Sugar Company, Raymond, Alta., Eldridge reported that stocks in that country were exhausted, Bros., and J. Peters, Carston. About 350 head of that the continued unfavorable weather was interesting and injuring the stock coming in is poor quality, but the bulk of the fering seriously with harvesting and injuring the stock coming in is poor quality, butchers' old bulls, quality of the crop as well. The demand abroad fleshless cows and so on. The supply of this kind of for American wheat became more extinction of the stock is too bearing demand has faller of the first and the stock is too bearing demand has faller of the first and the stock is too bearing demand has faller of the stock is too bearing demand has faller of the stock is too bearing demand has faller of the stock is too bearing demand has faller of the stock is too bearing demand has faller of the stock is too bearing demand has faller of the stock is too bearing demand has faller of the stock is too bearing demand and the stock is too bearing demand about the stock is too bearing dem for American wheat became more active and the stock is too heavy, demand has fallen off and offerings local market established new high price records in unless of pretty good quality go begging. Despite all futures, this too in the face of a continually increas- the activity of export demand prices for this class ingressible and the stable of the stable ing visible world's supply. The advance came show little advance if any over a week ago. A few unexpectedly. Wheat in every market in America lots last week may have been handled at 41c or for the past month has slumped or soared as the 4½c, but the bulk went at around 4c with some less. weather in the Northwestern portion of the con-These prices mean of course freight assumed. Sheep times the con-These prices are source and prices a little former. the crowing crop This time, however, the jump Hogs average around the same as a week ago with

TORONTO LIVE STOCK MARKET. At the Junction stock yards this week an average

diture of one per cent. more—of \$101 where \$100 is imp ovement but there is upwards of seven millions stock generally was below the average. Ontario now spent—the dairyman who has common cows of old wheat to go out before navigation closes, pastures have suffered severely this past summer could get a breed of cows that would yield from and an average crop in addition is now safely in from prolonged droughts, and the scarcity of grass 10 per cent. to 25 per cent. more milk or butter. The sight. The supply of old wheat seems to be hold-reflects itself too plainly in the live stock of grass same will hold good of wheat—common wheat as ing out well, deliveries for the week averaging around. The better animals are quickly the common wheat are provided in the common wheat as ing out well, deliveries for the week averaging around. against wheat of a good variety. The labor is the forty cars per day, but shipments from Canadian prices, the sale of others is slow. The tendency is

CHICAGO LIVE STOCK MARKET.

Prime steers \$4.15 to \$7.30; cows and heifers \$1.20 to \$5.35; Texas steers \$3.50 to \$50.00; stockers and feeders \$2.60 to \$5.10; western \$4.20 to \$6.00. ination of house flies; and yet it would be hard in this option. At the same time there is little find a greater public service that it could do.

We have hitherto left comprehensive plans for the a week ago. The shortage in the world's wheat \$3.40; lamb \$5.00 to \$5.75; western \$5.00 to \$7.25. Hog, light \$6.00 to \$6.50; heavy \$5.35

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HOME JOURNAL



Life, Literature and Education

IN THE WORLD OF LITERATURE AND ART.

The respect of former pupils of the Goderich, Ontario, Collegiate Institute for their former Principal, Dr. Strang, took the very sensible and practical form of a gift of a thousand dollars.

Madame Calve, who has thrilled her way to the hearts of the whole world and who has incidentally amassed a large fortune with her lyric honors, has decided to cultivate the vine in southern California on a half million dollar ranch which she is about to buy.

fair allowance for pocket money, at any univer- forcing to emigrate:—Among the graduates of sity in the Dominion, is offered by the Canadian the Boston grammar schools was a fifteen-year-Courier, Toronto. This is a valuable prize for old Jewish boy, born in Kishineff, who has been some energetic student. The competition comin the United States less than a year. When the mences August 10th, and closes October 10th.

which include many white and colored educators promoted from one grade to another until he of the negro race, began its annual meeting here ended the year a graduate of the ninth grade and today. During its five days' session the society ready for the high school, which he proposes to will observe the rooth anniversary of the aboli- enter in the fall. At Roxbury, Mass., graduated tion of the slave trade and the centenary of the at the head of her class, Ada Kasurof, seventeen birth of Longfellow, Whittier and Agassiz.

known Edinburgh naturalist, is traveling through Canada. It is not a new country to him for his youth was spent here. He has accompanied many has won medals in France, Germany, England seven languages-French, German, English, and Scotland for his services to science.

In the ancient and beautiful Salisbury Cathedcans and Canadians, lost their lives in the disaster.

He was born in Denmark in 1857 and has been and statues representing all kinds of labor and

been sinking for two centuries.

* * * The annual meeting of the Canadian Women's Press Club will be held in Winnipeg, Sept. 11th and 12th. The interest of the meeting centers pen name of "Lally Bernard.

some sixty years ago on their completion M. Thiers, who was their author, said: "And now ber of Americans and Englishmen. Paris is impregnable." This dictum the Prus- During the course of the evening sians proved to be unfounded in 1871, when they belonging to the company of entertainers who made a breach whereby they might perhaps have had come from Vienna, sang a vulgar song and entered had not the town surrendered.

The Baptists of British Columbia are estabishing a new college at Summerland, in the famous Okanagan valley. A beautiful campus of twenty acres overlooking the town has been donated by two wealthy fruit growers, brothers, named Ritchie, who are also at their own expense erecting the first of a series of fine college buildings Prof. E. W. Sawyer, of Acadia university, Wolf-Harvard, has been called to the principalship and enough to have themselves set one as good. he is to be assisted by a strong faculty.

Here are two representative specimens of the A scholarship which includes board, fees, and a sort of people whom Russians are massacreing and schools opened last fall he could not speak a word of English. But he tackled the new language The Niagara movement, the promotors of with such determination that he was soon years old, who with her family came from Warsaw last August. Although she had the benefit of a Sir John Murray, K.C.B., F.R.S., the well private college in Warsaw, she could not speak a word of English, but in ten months had so mastered it that she has not only graduated at the high school, but has passed the entrance examimportant expeditions for scientific purposes and ination for Columbia College, and is master of Polish, Hebrew and Latin.-Montreal Witness.

A great monument to Work, emblematic of the ral, Ambassador Whitelaw Reid this afternoon age in which we live, has been designed by the unveiled a handsome marble tablet in memory of French sculptor Rodin. The design is for a those killed in the terrible accident on July 1st, tower 200 feet high, with a central shaft, sur-1906, by the derailing of the American Line rounded by a spiral staircase supported by eight when a grandmother or a godmother or a maidenexpress. Twenty-three persons, mostly Ameri- pillars. At either side of the main doorway is igantic figure, one representing Day, the other Night. The outer surface of the tower is to be Richard Mansfield, the well known actor, died plain, all decoration being reserved for the inner at his summer home in Connecticut on Aug. 30th. column. This is to be covered with bas-reliefs much on the stage in both England and America. human effort. Miners and divers are appro-His first great success was in New York in 1883, priately placed on the ground floor. On the top when he appeared as Chevrial in "A Parisian is a small pink marble temple with gilded roof, crowned by two winged figures symbolizing Humanity freed from slavery. The tinted mar-The committee of architects which was ble and gold are intended to suggest the perpetual appointed to inquire into the condition of St. sunrise of happiness on honest toil. M. Rodin Paul's Cathedral has issued a report, which acknowledges that it would be a costly affair to declares that, while the cathedral is in no imme-build, but has hopes that in the United States diate danger, elaborate precautions are necessary will be found men whose imagination will be to preserve it from disaster. The cathedral has taken with the idea of so placing wealth at the service of art.

THE KING'S REBUKE OF VULGARITY.

King Edward during his annual visit to the round the presence of Miss Clare Fitz-Gibbon, famous Austrian baths at Marienbad, mingles the representative of the Canadian women to a very large extent with the people of the place journalists in Great Britain. Miss Fitz-Gibbon and lives much the life there of the ordinary is better known to Canadian readers under the visitor. This lack of ceremonial led to an action on the part of the King which has caused much remark in the city. One evening the King The long contemplated removal of the forti- entered a cafe chantant, and sat for a time listenfications of Paris, France, has begun. Picks and ing to the musical program always supplied in shovels were set to work on the ramparts of which these places. Beside the members of the King's suite there were present in the cafe a large num-

During the course of the evening a woman, when encored sang a still more indelicate one,

whereupon, King Edward, in deep displeasure rose andleft the place accompanied by his suite. His example was followed by all the Britons and Americans who were present as a silent but effective protest against indecency in the guise of amusement.

The woman whose singing had given offence was tried and fined twelve dollars. She pleaded in extenuation that she chose the song as one that would please and interest the patrons of the place, which is a condemning imputation that the love of uncleanlness in art is a characteristic of the habitual frequenters of these places of amusement. It would be interesting to know whether, if the King had not been present, or had not thus protested, the men who were willville, N. S., and a distinguished graduate of ing to follow his example would have been brave

THE BOTTOM BUREAU DRAWER.

Between the cut and dried arrangements made by old-fashioned parents for their children's marriages, with dowries, and settlements, and all the rest of it, and the careless haphazard lack of arrangement of these modern days there is a happy medium which is possible of attainment and much to be desired.

In Western Canada there isn't much talk of dowries and settlements. A young man, no matter how prosperous he may be, is considered lucky if he wins for his wife and home-mate a good sweet, wholesome Canadian girl even when she comes to her new home without a dollar and with the most modest of trousseaus. And he is

lucky and knows it. In the older lands from which our foremothers came, the end and aim of every right-minded girl's existence was to some day be the mistress in a home of her own, and, up to date, that ideal hasn't been improved upon in spite of the intro-duction of careers. That destiny lay before the maiden. She knew it, and the feminine part of the family was interested in the future event, not on the financial side-fathers and guardians and elder brothers looked after that—but in preparing the household stores of linen, etc., that would

some day be needed. Sometimes the origin of the collection dated back to the very day of the wee lassie's birth, aunt bestowed a sheet or tablecloth, a piece of real lace or a solid silver spoon as a nucleus of what during the years grew to be a very valuable furnishing. The "chest" was a worthy institution and it is a pity that it should disappear.

It isn't the chest—solid, dignified without, and lined with cedar and redolent of sweet savors within-that has come to this country. The 'bottom bureau drawer" is its equivalent here, but that drawer remains in emptiness until after the engagement is a settled thing. Then everybody hurries up and articles are piled in hastily without much thought for their suitability or duriability. Many a young housekeeper goes to her new home with a superabundance of cushions and doilies and a painful scarcity of towels and sheets. Very often the bride's personal clothing use up all the money that can be spared and nothing is left for furnishing. I knew a girl once who had six dressing gowns but only one pair of sheets and two pairs of pillow cases, and she had more center pieces than table napkins.

When the little girl owns her first thimble and can hem neatly and evenly, it is not too soon to line the bottom bureau drawer, and let her begin the process of its filling. Perhaps it will be only a nicely hemmed linen towel for a beginning, but the pile will grow steadily and surely of things chosen without haste and made with care.

And if she has a sensible loving mother it will not fill "her head with sentimental nonsense." not half as much as silly talk of "fellows" and beaus" and such rubbish, but it will only give herseweetly serious thoughts of the future as she puts in the tiny stitches, and smooths out lovingly the white folds as she lays her work away in the 'bottom bureau drawer.

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A CHAT ABOUT CHURCH-GOING.

And all the people came early in the morning to Him in the temple, for to hear him.—St. Luke xxi.: 38.

At Thy feet, O Christ, we lay Thine own gift of this new day: Doubt of what it holds in store Makes us crave Thine aid the more: Lest it prove a time of loss, Mark it, Saviour, with Thy Cross."

Don't you think that Bishop Thomson may be fully justified in his statement that one might safely write over hundreds of graves this epitaph: "He kept no Sunday!" He says that strong men are cut down in their prime, and the doctors give a dozen names for the cause of their untimely death—softening of the brain, paralysis, heart disease, nervous exhaustion—but, sifted to the bottom, the real fact is that the men kill themselves by not keeping Sunday—
'business men, statesmen, lawyers, students are all getting in the habit of going out at a moment's warning, dropning dead as they stand, in a way that

I nad my chidnood statin back again: and all the time they are letting their inspired by the spirit of God. 'It is souls grow thin and weak for want of regular spiritual food, and for want of prayer, which is to the soul what fresh

The Spirit of God can reach a soul has never been known before.

It would be rather interesting to make an investigation of a thousand cases of sudden death in order to find out whether there was any plain connection between the breach of the Fourth Commandment and a weakened heart.

sustaining by neglecting to obey His at all

Our common sense may rebel at the which many Jews obey so rigidly to this crowds that would flock there 'early in day. I know Jews who will not light a the morning." If we have little faith, match on the Sabbath, nor tear a scrap let us try to become like children again ary work of everyday life. of paper, nor cut a piece of string on that the demand of business makes it necess- He is there. Let us confess our sins source from whence it proceeds. ary. But, because some people go to in real earnest, remembering that His our Lord, a few days before His death, one extreme, is no reason why other ears are listening, that He is looking said: 'Father, glorify Thy Name!" He people should rush to the opposite into our hearts to see if we really repent heard the instant answer: 'I have both extreme and ignore the Fourth Com- and really intend to fight against the old glorified it, and will glorify it again."

GOD KNOWS THE BEST.

If we could push a jar the gates of life, mandment altogether.

bath—he is not to be bound hand and gladness, His sweet and gracious words carelessly, 'it was only thunder. foot in order to make one day in seven of absolution, addressed to all who truly So it is in our public worship of God. stand out for the rest of the week. But repent and unfeignedly believe the glad Some can only hear the voices of men apart one day in seven as a rest-day— the congregation is admiring the music, voices of angels, and to One whose voice quite apart from religious motives—but but trusting that God will find it sincere is sweet and thrilling 'as the sound of

stewards, bound to lay it out to the best is addressing them directly to us.

Father.

Go to church with ears and eyes and

THE QUIET HOUR

weak and their spiritual sight grows The messengers sent by Christ are there am I in the midst of them. The dim. Perhaps they say, sadly: 'I wish encouraged to speak with confidence I had my childhood's faith back again!" because the words are not theirs but the house of prayer, Wherein Thy servants me

air is to the body.

to hear Him?

per, nor cut a piece of string on that and make vivid use of our imagination. When God speaks from Heaven, it is may be given by many on our behalf.—
I know hundreds of Jews who will If we don't realize the living presence of possible to hear the sound without per- 2 Cor. I.: 11. our praises and thanks- choir, let us take higher ground, as we should enough to be worth accepting. Let many waters."

always do.

Let many waters."

us listen to the words of prophet and Some find that their words of prayer

All our days should be spent for God, altogether on his own merits. Read the all our days should be holy-days, but tenth chapter of St. Luke's gospel and find Him there, and so can you. Go experience should have convinced us you will find that not only apostles, but regularly, go prayerfully, go hopefully, that we cannot satisfactorily carry the all ambassadors sent out by Christ, and you will some day find the great Sunday spirit into the week days, unless represent Him. Those who refuse to promise true: we make a point of devoting at least one receive them are warned of certain day more particularly to the service of punishment, because—as He says—God. Those who deliberately cut them—'He that heareth you heareth Me; and selves off from the public worship of he that despiseth you despiseth Me; and shall be done for them of My Father

through any words, spoken by any feet of Christ 'unknowing, blind, and Look at the text we begun with. Do person. Listen for His voice, and you unconsoled?' when we need only put you think any visitor to our churches, in will surely get the special message He city or country, would be apt to say the intends for you, no matter how dull "all" the people are gathered in the and uninteresting the sermon may House of God "early in the morning" appear to be. What a pity it would be if you went home as poor as you came How many who get up early every missing even the peace of Christ's own But I am not trying to give direction other day, think it almost a virtue to be benediction on the kneeling congregation about the best way to build up a strong really lazy—on Sunday morning. They tion, went away "poor," when the really lazy—on Sunday morning. They tion, went away "poor," when the will go to church in the evening—if they treasury was wide open and you might feel like it—but Sunday is a day of rest, have carried home rich jewels of pardon, and going to church is 'tiresome," strength, wisdom and peace, which and the preacher is 'prosy," and they would have transfigured every hour that their lives in this world might be lengthened thereby. But possibly many people are drifting almost impersentially into the lax observance of Sunceptibly into the lax observance of Sun- an evasion, when everyone knows that they will grow stronger steadily, and day, which is now so prevalent, without those who stay away from Divine develop a vigorous appetite for spiritual intending to break God's laws or fully service without good and sufficient food. Then the bodies in which these considering the great loss they are reason, very seldom read their Bibles healthy souls live will find their way to all.
But I think the root of this prevalent only to "hear" Christ, but to receive neglect of church-going is want of faith. Him in His wonderful sacrament, that trivialities of the Jewish Sabbath, and If souls were not blind and deaf, there He may abide in them and in their we may feel amused at the strict rules would be no room in our churches for the homes all the week, and they may abide in this petition.

not write a word on Saturday—unless our Lord, let us try to 'imagine' that ceiving the message, or knowing the emptations during the coming week. But, while some thought an angel had God did not make man for the Sab- Then let us drink in, with trembling spoken, others, hearing the sound, said,

'the Sabbath day was made for man" - tidings of iorgiveness and sanctification. and the sound of the organ and the while others are listening That might be reason enough for setting givings heartily, not wondering whether prophets and apostles, to the harps and

God has required of us one day in apostle with respect and earnest atten- and praise are too weak and careless to seven, as a token that all our days tion, remembering that they are mess- be heard a yard away, while others know crated to His service. It is the same And, when the wonderful words of of Him Who sits upon the Throne, with our money. We are required to Divine simplicity which are recorded in blending not only with the angelic hymn pay tribute, not because only a tenth of the gospels, fall on our ears, let us drink of "HOLY, HOLY," but with our income belongs to God, but because them in eagerly, knowing that He who the wonderful intercession of our Great When we shall clearly know and underit all belongs to Him, and we are only spake as no other man has ever spoken Elder Brother at the right hand of the

preacher is "prosy!" he does not stand hearts ready to drink in the love of the

Infinite God that is waiting to fill you with strength and gladness, and you will never find the church dull and the service long and tedious. But remember that "practice makes perfect." If you fail over and over again to realize the living, quickening Presence of God in His own House, don't imagine that He is necessarily absent. Others can

''If two of you shall agree on earth as touching anything that they shall ask, it God's House, for months at a time, he that despiseth Me despiseth Him need not be surprised if their faith grows that sent Me."

which is in Heaven. For where two or three are gathered together in My Name

> Wherein Thy servants meet; And Thou, O Lord, art there Thy chosen flock to greet."

Why should we any longer sit at the out a hand in faith to touch the hem of His garment and be healed of the sin within us, and gain new strength for our daily work and daily battle, from living union with the life of the world.

And may I ask one favor? When you failing in its object, may that not be partly your fault, because you never ask God's blessing on the words I am sending out each week? If 'two of you' agree in making it helpful, we have the promise that the prayer will be answered; how much grander then will be the result if hundreds or even thousands 'agree'

'Ye also helping together by prayer for us, that the gift bestowed upon us by the means of many persons, thanks

HOPE.

And stand within and all God's workings see,

We could interpret all this doubt and And for each mystery could find a key.

But not to-day. Then be content poor

God's plans, like lillies, pure and white unfold; We must not tear the close-shut leaves

belong to Him, and should be conse- ages sent to us by God's ambassadors. that each word goes straight to the heart And if through patient toil we reach the

Time will reveal the calvxes of gold.

land Where tired feet with sandals loosed may rest,

stand, I think that we shall say, 'God knew

the best.'

-Unidentified.



RONESS GRIFPENBERG



MISS HAGMAN



MRS. SILLANGVA

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MRS. GEBHARD



MISS DAGMAR HERVINO (From Literary Digest.)

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OUR FASHIONS.

Notice to users of FARMER'S ADVO-CATE Fashions:

1. Do not send money for postage. Ten cents for each pattern is all that is required.

2. Notice particularly what sizes are offered in the illustrations. For instance, do not send for a dress for a one-year-old child when the patterns are only made for children from three to six years.

3. Be sure to state the size or age when ordering.

Allow from ten days to two weeks to fill the order. DAME DURDEN

The ordinary waste of food in an English middle-class family would be sufficient wholly to maintain a French family of similar station; and the waste of food is at least largely due to the ignorance of cookery which prevails among the classes from which English domestic servants are derived.

London Lancet.

INGLE NOOK CHATS

HOLIDAYS.

Dear Chatterers:-What about the young housewife's holidays? The children are let loose from school, and those who have sufficient of this world's goods can go to the Beach, but what about those of us who are left home?

house-cleaning is done, our sewing is done, and very few care to visit during passepartouting: the extreme heat of the summer months.

stage of weeds and only needs a little can be bought in rolls of a dozen yards

not care so much for cakes and pastry, cooler weather of spring when things and pickling season is yet a great way

the guests of honor in our own homes. We will feel refreshed and strengthened

letter and cheery pen name. Come fastening if the picture is heavy. If I and see us often. If every one followed haven't made this clear please feel at your suggestion there would be more liberty to ask questions. D. D.) strength and courage to meet the harvest rush. D. D.)

INSTRUCTIONS FOR PASSEPARTOUT FRAMING.

give me a recipe for sugar curing hams and bacon, or any good cure besides smoking? I always read the letters in Ingle Nook with interest and have reply about the care of seed onions. found many useful hints and recipes. touting small pictures. I have seen Success.

MRS. Y. THORNE.

(One cure for hams, shoulders and bacon is made from the following ingredients:—one gallon water, one and three- will be useful to the readers. quarters lbs. coarse salt, one-half ounce

saltpetre, one pint molasses or one pound brown sugar, one teaspoon baking soda. Bring the whole to a boil skimming just before it begins to boil. Let it cool and pour over the meat, which has been packed in a clean tight cask, until the meat is entirely covered. Let it remain in the pickle for six or Let it remain in the pickle for six or seven weeks and do not attempt to put When one toils ceaselessly through it in the brine for at least two days the long months of winter and spring, they feel, when the hot weather comes, lightly sprinkled with powdered saltthat they would like at least, a change. That change can be affected very easily.

A friend in a picture store gave mention of the powder of the powder

When the hot weather comes, our the following information in regard to the following information in regard to

1. If the pictures are already mount-With this done, we, at home, are in ed you will need a roll of passepartout good shape for taking things easier. binding and glass cut the exact size of The garden, too, is past the troublesome the picture to be framed. This binding exercise of the hoe now and then to in several colors, blue bright and dark retain moisture and hasten growth. red, grey, brown, green, black and red, grey, brown, green, black and In the warm weather, too, one does white at fifteen cents per roll, and gold of care so much for cakes and pastry, and silver at twenty-five cents. This having had our fill of them during the binding is sticky on one side and about three-quarters of an inch wide. Lay are scarce and we are now quite content together in right order the glass, the to live on our garden and fresh fruit picture, and a piece of stiff cardboard if it is obtainable. The real preserving for a back if extra thickness or strength and pickling season is yet a great way is required. Then take the binding off so that we need have no anxiety on and cut it into strips the right length for each side of the picture separately. and simple dress, something easily prepared to eat and clean dark clothes to wear, to alleviate the washing In this way we can enjoy life and be remainder carefully over the edge and on to the back.

2. If the pictures are unmounted for work in the cool autumn days and you can buy a thin cardboard of the will be obeying the command to the same color as the binding upon which disciples of old, "Come ye yourselves to mount them before framing. A large piece can be bought for a dime. Besides you will need the little rings "Do-Your-Best." Besides you will need the little rings (We are so glad to have you come attached to stickers for the back to among us with your bright, practical hang the picture, or there is a stronger

A QUERY ABOUT PORK.

Dear Dame Durden:-I hope you Dear Dame Durden:-Could any of will excuse me for calling so soon, but the readers of the Ingle Nook chats as you placed my chat on the Ingle

Can you, or any of the Chatterers, I would also like to know the directions give a reason why pork, after cooking and materials required for passepar- becomes quite hard and of a dark red in some done and think they make dainty color in the lean parts. When the meat pictures. Wishing you and your paper was cured two teaspoons of salt petre was put in a large barrel of the pork which was covered with brine.

I will send a few recipes which I hope

A WESTERN MAIDEN.

THE FARMER'S ADVOCATE FASHIONS.

N.B.—Order by number and send 10 cents for each pattern to "Fashion Department, Farmer's Advocate, Winnipeg, Man."



4165.—Little Boys' Suit, 5 sizes, 3 to 7 years.





4152.—Little Girls' Pinafore, or Apron. 4 sizes. 6904.—Ladies' Kimono. 4 sizes. 32 to 44 inches bust.

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SELECTED RECIPES.

BAKED CUCUMBER:-Peel medium sized cucumbers and bake them in the basting them with the gravy.

quarters of a pound of sugar and one lemon. Cook gently until the tomato is transparent.

CANNED RIPE TOMATOES:—Remove FARMER'S ADVOCATE is the paper for the skins and hard portions, and cut in the tarmer, his wife and little ones. slices. Bring to the boiling point n a granite saucepan. Add a teaspoonful of salt to each quart of fruit. Fill the jars, put on the rubbers and covers, and cook in the steam kettle about half an ful for the remedy. Thanking you in Fill from one of the jars, if hour. needed, and make the covers tight. If a steam kettle be not at hand, let the tomatoes cook in the saucepan, covered ten or fifteen minutes. Have the cans and covers standing in boiling water. Fill the cans to overflow, then adjust the rubbers and covers and set aside. Tighten the covers, when the jars are

Beat half a cup of butter to a cream; soaking in warm milk and several gradually beat it into a cup of sugar, rinsings will usually prove effectual. then add a well-beaten egg, one-fourth If old stains the milk may have to be a cup of condensed milk, diluted with renewed a good many times. A genone-fourth a cup of cold water, and erous application of powdered salts of about two cups of sifted flour, sifted lemon (oxalic acid) to the stain which again with two level teaspoonfuls of has been slightly moistened with clean baking powder and a grating of nutmeg. water will sometimes remove it. This Do not use too much flour. The dough is good also for fruit stains, and for should be mixed as soft as possible, these a sprinkling of borax followed by Take a little on to the board, gather it soaking in cold water is recommended. together and pat it into a sheet half an Tea stains when old are pretty hard to inch thick. Cut into shapes with a move but moistening the spot covering cutter. Dip the cutter into flour be- it with powdered borax and after letting fore cutting each cake. Remove with it stand a few moments pouring boila spatula to a buttered baking sheet, ing water through is said to be success-dredge the tops with granulated sugar ful if repeated several times. I hope and bake in a moderate oven.

—The Cooking School Magazine.

CHOCOLATE CAKE:—2 cups sugar; the yolks of five eggs; I teaspoon vanilla; 1-half cup butter; 2 heaping teaspoons baking powder; 32 cups flour.

This will make a very large cake and is to be baked in layers. I generally make two cakes of it, three layers in each.

Filling and icing for chocolate cake, take one-half cup chocolate, grated light where it might weaken the walls fine; and 2 cups sugar. Put the sugar were another window added. To meet on the stove and boil in a thick syrup, this requirement I have recently seen then add chocolate, also the whites of two plans adopted. One was the the eggs which should be heaten to a

(Sent by Brown Eyes.)

of a cup of sugar; ½ cup of milk or cream.
Boil until it strings, then stir to a paste.
(Sent by Western Maiden.)

of baking powder, stirred in a cup of light shining from windows on the sweet milk. Mix all together, then add opposite side of the building.

M. E. G. flour enough to roll soft.

(Sent by Mother of Five.)

kraut until it stops foaming. Add cookies were very nice. caraway seeds for flavor if liked. (Sent by "Lonely One.")

PRAISE GRATEFULLY RECEIVED.

Dear Dame Durden:-I enjoy your Ingle Nook Chats immensely, for the same pan with the roast, putting them busy mother, the troubled housewife in an hour before the meat is done and and the inexperienced bachelor all find basting them with the gravy.

their needs supplied in the helps and PRESERVED GREEN TOMATO:—To each pound of tomato (sliced) put three-each pound of sugar and one already I am availing myself of it.

The Quiet Hour, is an instructive and encouraging page and leads one out of self "to think of higher and better tnings, so altogether, to my mind the

Now I want to ask you if you can tell me of anything that will remove old tea-stains, also fruit and ink stains from table linen. I should be so grateadvance.

ORPHANT ANNIE.

(Many thanks for your kind words about the Ingle Nook and the Quiet Hour. We are trying to make the FARMER'S ADVOCATE what you say it is, and think that, little by little, we are growing up to it, helped very greatly by the encouragement, appreciation and assistance of our friends.

Those stains are troublesome things, COOKIES WITH CONDENSED MILK.— aren't they? For ink stains, if fresh, a these hints will prove helpful.—D. D.)

(P. S. Just before giving this to the printer I read in a daily that tea stains can be removed if the cloth is moistened with cold water, the spot covered with glycerine and let stand for three hours, then washed in cold water and soap.—D. D.)

SUBSTITUTES FOR WINDOWS.

In building shacks, hen houses of logs, one frequently requires a little the eggs which should be beaten to a insertion of a row of glass bottles otherwise have been a dark closet. The other method was similar but small squares of glass were fitted between CHOCOLATE ICING:—½ cake of unsweetened chocolate, grated fine;

photograph negatives. One of these photograph negatives. One of these squares in anotherwise blind wall is scarcely noticed from the inside while at night the tiny ray of light shining from within may save some lost trav-WHITE COOKIES:—2 eggs; 2 cups of eller from wandering all night on the light brown sugar; ½ cup of lard and ½ prairie as one often passes within a cup of butter. Grate in a little nutmeg, few rods of a shack unaware of its add a teaspoon of soda and a teaspoon existence though there may be a bright

BROWN-EYED NINETEEN.

SAUEKKRAUT. Dear Dame Durden — May I enter Slice the cabbage as thin as possible. your circle also? I take a great interest In a better firkin or barrel place a thin in reading your letters, which I find very layer of salt, and alternate cabbage and useful. I am just nineteen years old, salt at each layer. Slightly pound live at home and have one sister with a maul until the firkin is full. married, two years older than I, and a Have salt for last layer. Put in a warm brother seventeen. I have a very happlace, cover with cloth and put a large py home and do not care to leave it. plate, if a jar; a small barrel head if a Mother and father are both very kind barrel, over the cloth and a weight on to me. So why should I run off and that. Remove the cloth every few days get married, like so many young girls?

Standard Time everywhere is In every time belt between New York and San Francisco—Eastern, Central, 10 - Clain - 2 Western and Pacific—the Elgin Watch is the standard timekeeper. Every Elgin Watch is fully guaranteed. All jewelers have Elgin Watches. An interesting, illustrated booklet about watches, sent free on request to ELGIN NATIONAL WATCH CO., Elgin, III.

CONSIGN YOUR GRAIN TO

414 Grain Exchange, WINNIPEG, Man.

Crain Commission

Over 23 years' experience in Grain Commission business. Prompt reliable work at all times. Wheat, Oats, Barley, Flax.

think just splendid. BROWN EYES.

marry, if only for the reason that, once afraid to write. I have to set bread married, the girlhood's home is never to-night, and I am sure you are not quite the same again. Enjoy your sorry when I sa girlhood, Brown Eyes, and let matriand go to do it. D. D.)

TOUCHED WITH FROST.

Dear Dame Durden:-Well, am I not a nuisance? I can't let you and your corner alone, although it is up-todate with the latest styles in it, and I bave any power you will be sure to get it.

Only a farmer's wife, with our crop

Dr. Allen-Davidson's articles are only a farmer's wife, with our crop almost all frozen. We had such a lot of wheat, and so thick and nice that we appreciation. Even if you cannot thick froth. Stir until cool, then spread instead of chinking between the logs between and over the cake.

(Sent by Brown Eyes)

insertion of a row of glass bottles were going to have taken a trip to my husband's people in the States this winter. But now, he says if we can raise enough wheat for seed next year we will be doing well. The frost was a week ago to-night and lots of farmers' crops are so badly frozen in this district that they are cttting them for feed instead of hay. I guess that is what we will have to do as soon as we get time to get at it. It might turn out not to bad if we had some nice warm weather, but it seems very dull out and not much sunshine the last few days. I am sorry to say I need not worry about my peas, a lot of them are frozen and the corn, what bit I had, is all gone. I was over at my father's to-day and his garden isn't frozen nearly as bad as mine. He gave me a beautiful big cauliflower and two big cabbages. He always has such good garden as its in a nice place with bush on three sides of it.

Well, to whom is this interesting I started out to tell you I had heard from two of the members and I see two more would like to write, and if Dame Durden will only send me their addresses I shall be very pleased to hear from them, and to write to them. The more the merrier. Advice is what I like, especially about babies and such like, as I don't know so much as I would and rinse it to remove the scum. Keep in a warm place until it ceases to ferment or work. A great quantity of foam will rise to the top while this process of the baking so your recipes are of the like about them. I am so glad Dr. Allen-Davidson is so kind to keep on giving us lectures and such like good advice. I like very much the way she is going on. Dip this off. After the great benefit to me. Some time ago writes and get so interested in reading fermentation is complete remove to a some one sent in a recipe for cookies, her letters. I wish I could only have So, safe and sound, they nestle there, cold place. Never attempt to use sour I have forgotten her name, but the things as she advises, but its a hard job when you have only one room for doing But safer, happier, by far, As this is my first letter I will make things in, as house and kitchen too. it rather short. I will close by sending | Well, it is a good thing that we can

a recipe for a chocolate cake which I talk and write of what we like to the Ingle Nook, or my letter would not be much good. Another good thing is (A happy, busy girl in a pleasant that Dame Durden prints our letters and corrects our mistakes or I should be sorry when I say I must close my letter AHTREB:

girlhood, Brown Eyes, and for another mony stay in the background for another four or five years. Write to us often. is so dissappointing after one has done the work. But how fortunate that your father's plot escaped and that he is near enough to be able to share up. I hope your fears about the grain have not been realized and that you may get your trip across the line after all. If the good wishes of the Ingle Nook

> worthy of every one's interest and carry out all the suggestions she gives it is a great help to know the right things to do, and to carry them out little by little as opportunity offers. I am sending you the addresses for which you asked. D. D.)

RETURNS.

At morning when I'm just awake, Nurse says to me, "For Pity's sake, You lazy child, you're very late! Here is one stocking—where's its mate?" And then I just turn 'round and say, 'I know it isn't time for day.

At night when nursie says to me, 'The clock strikes seven, do you see? And now, my dear, you go to bed,' turn to her, and shake my head, "See, nursie, it is very light— I know it isn't time for night." -KATHARINE R. NEUMANN, in St. Nicholas League.

THE SWEETEST PLACE.

A meadow for the little lambs; A honey hive for bees; And pretty nests for singing birds, Among the leafy trees. There's rest for all the little ones, In one place or another; But who has half so sweet a place As baby with her mother? The little chickens huddle close, Beneath the old hen's wing; 'Peep! Peep!'' they say; "we're not afraid Of dark or anything."

The one beside the other; Is baby with her mother

-Mary F. Butt.

One of Kootenay's **Choicest Fruit Farms**

It contains 54 acres and is situated on the north side of Kootenay Lake, 5 miles east of Nelson. This farm is located in the midst of several fine improved fruit farms, has telephone line from Nelson within a few feet of the residence. is within three-quarters of a mile of the post office and is half mile distant from railroad station. Seven acres of the farm has been thoroughly cleared and are all under cultivation. Two acres slashed. Twenty-six cords of wood piled on the property for future use. The list of improvements are as follows.

Two acres in strawberries of the very finest Large quantity of small fruits such as red, and black raspberries, gooseberries, red and black

follows:
50 Ribston Pippens
50 Famues
50 Cox Orange
50 James Greeves
All these trees are tr 200 bearing dwarf apple trees, comprising as

All these trees are true importations from Eng-

Also 25 Duchess of Oldenberg

25 Spitzenberg 10 Yellow Transparent 12 Wolf Rivers 25 Delewares

25 Red Astrachans

25 Ganos 100 Gravensteins 25 Tragedy Plums 12 Bradshaw Plums 5 Peaches

Nectarines 30 Cherries

There is a neat, comfortable cottage surrounded by a grove of trees. A cool spot in summer.

Large double chicken house and runs, 2 small chicken houses and runs, a good Chinaman's house, built of solid cedar and cemmented, large shed for storing merchandise, registered water right of 30 miner's inches taken from a nearby creek and water now flumed over the form creek and water now flumed over the farm. This farm is situated about 200 yards from the shore of the lake, commands a magnificent view of the water and contains absolutely the very finest fruit soil. The products from this farm secured for its owner at the last Nelson Fruit Fair 6 first class prizes for different kinds of fruits and first class prizes for different kinds of fruits and also took the first class prize against all comers for the best collection of vegetables. The strawberries from this farm have the best reputation of any berries shipped into Nelson. Included in this offer is a 16 foot gasoline launch in good running order, and a row boat. On account of its close proximity to the City of Nelson and the conveniences surrounding it, it is bound to rapidly increase in value and at its present price is certainly a good investment. All the different fruit trees and fruit bushes and strawberry plants are producing a good crop this season. We are positively sure that this place is one of the finest are producing a good crop this season. We are positively sure that this place is one of the finest to be found along the west arm of Kootenay Lake.

Price complete is \$7,300. Can arrange terms. For further particulars apply to,

TOYE & CO. Fruit/Lands Nelson B. C.

Burton City Fruit Lands

The Gream of the Kootenays **Don't Need Irrigation**

divided the **Sapandowski Farm** of 240 captains and choose up sides. After acres into 10 and 20 acre blocks. This farm is situated in the famous Burton five chips. Then there is a line drawn demonstrated the possibilities of fruit they start and play. The ones on the growing in this district. There is an opposite side try to steal the other orchard of 200 fruit trees of different one's money and if they are caught varieties, 75 of which are now bearing before they reach the money then they and all in a healthy condition. 40 acres are prisoners, and have to stay there have been cleared and in crop. As high until the ones on their side come and as 350 bushels of potatoes have been bring them back. grown on this land and sold at from 75c. to 90c. per bushel. Fruits and one side or the other gets all the money, garden truck do remarkably well here, then they have the game, or get all the and there is an unlimited market right ones on the opposite side caught. I

The balance of this land is equally as good and in most cases better than that already cleared, being largely a leaf take to clear ready for the plough at C.D.) these figures

This land is being sold at from \$125 to \$300 per acre according to location. Clear title at once.

For full particulars, maps, photos, etc., apply to the owners:

A. H., 92 Sherbrook St., Winnipeg, Man. R. M. H., P.O. Box 354, Nelson, B.C.

CHILDREN'S CORNER

A NICE MAN TO WORK FOR.

Dear Cousin Dorothy:-I am going o write a letter to you and the Children's Corner. I am working for a man named distance between the money piles. Mr. Swanson. He is a nice man to work I herd his horses for him and ride a pinto mare whose name is Meadow. have a dog named Prince. My father akes the FARMER'S ADVOCATE and says it is a good paper. I like to read the Children's Corner. I have two brothers, and one sister whose name is Ava, She is five years old, Roy is thirteen, Cyril is seven and I am twelve years old.

Mother has a store here. Well, I will GRANDFATHER AND GRANDCHILD close, hoping the FARMER'S ADVOCATE will succeed forever. I am not a good writer but I hope this letter will do to

CLAUDE WOOLLVEN.

BRUISED BY A HAIL STONE.

first letter to the Children's Corner. like reading the letters very much. am at home for my holidays now. I go Wolseley. A few days ago we went to a picnic up at a lake near here. We had a lovely time bathing and playing lots of games. Coming back we got caught in a hail storm; some of the stones were over two inches across and one hit me on the head and made a The horses were very much afraid as the stones must have hurt them. But fortunately we got shelter before favorite writer.

Hoping you will print this letter, (Read some of Louise Alcott's books. am sure you will like them.—C. D.)

A DEER AND A BADGER.

Dear Cousin Dorothy:—This is my Children's Corner every success. first letter to the Children's Corner and I hope it will be printed. I go to school in Winnipeg but am staying in Manor for my holidays. Last Saturday and a badger, and the horse shied at the good. badger's holes twice. There is a nice little lake near here and we often drive out to it for a picnic and we go in for a bathe. My uncles live on a farm close to here, they had several hail-storms which did quite a bit of damage to the crops. I must close now wishing the corner success.

Sask. (a) RONALD MALTBY. (13)

HOW TO PLAY MONEY

Dear Cousin Dorothy:-I thought I would write to you as I never did before. am writing this letter in school therefore it will not be very good.

I am going to describe a game called Money. Well, the first thing you do is We have just purchased and sub- to get two of the oldest ones to be Valley at Burton City, and has fully in the middle of the grounds, and then

They play away like that until either gues's I will close wishing your paper much success.

mould with a clay loam and clay sub- me. It is exactly the name of a very a letter too. I live near Stettler at the soil. Clearing can be done for from great friend of mine, who is a friend end of the track from Lacombe east \$15 to \$35 per acre, and we will under- of the FARMER'S ADVOCATE, too .-

A NEW GAME.

Dear Cousin Dorothy:-- I saw my last letter in print and thought I would

of the grounds where they are playing. Then get a board or stick and divide off each other's side and put it equal

When the game starts the players try and get each other's money. the one on the other side from the side you are on catches you, you are a prisoner, and the ones on your side come and bring you back but the other side tries not to let them. The game is to get all the money.

EDNA WHITE. (12) Man. (a)

LIKE IT.

Dear Cousin Dorothy:—I read the letter in the Children's Corner and thought I would like to write one too. We have only taken the FARMER'S ADVOCATE for three or four years and Dear Cousin Dorothy:-This is my like it very much and especially the continued stories. Our Grandfather has taken it for over thirty-five years. We came to this part of the North West to a school about nine or ten miles from nearly seven years ago. There was scarcely any neighbors living around here but now we have plenty

We have six horses and four cows several pigs and a nice lot of hens. We have a nice flock of little turkeys and two goslings and two old geese.

We have a lot of grain and it was not as badly frozen as some of our neighbors were. I am in the second reader. We only have school here in the sumthe worst came down. I am very fond mer, and when one is little they gener-of reading and Mrs. Molesworth is my ally forget a lot in the winter.

I must not forget to tell you about our dog flossie and her five dear little Sask. (a) MARJORIE MALTBY. (11) puppies. They are not collies. They are black and white. Their mother is a setter. We have a collie. His name is Nero. I am nine years old. We have one colt his name is Dexter.
I guess I will close wishing the

Sask. (a) MARION SAUNDERSON. (9)

(This letter is printed without any corrections whatever being made after when I was out driving I saw a deer reaching this office. I think it very and a badger, and the horse shied at the good. Though I can see a few mistakes.

PRETTY IS THAT PRETTY DOES.

The spider wears a plain brown dress And she is a steady spinner, To see her, quiet as a mouse Going about her silver house, You would never, never, never guess The way she gets her dinner.

s as if no thought of ill In all her life had stirred her: But while she moves with careful tread, And while she spins her silked thread, She is planning, planning, planning still The way to do some murder.

My child, who reads this simple lav With eyes down-dropped and tender, Remember the old proverb says That pretty is which pretty does, And that worth does not go nor stay For poverty nor splendor.

'Tis not the house, not the dress, That makes the saint or sinner; To see the spider sit and spin, Shut with her webs of silver in, You would never, never, never guess' The way she gets her dinner. -ALICE CAREY.

AT THE END OF THE TRACK.

Dear Cousin Dorothy:-Pa takes Man. (a) Annie May Wilson. (12) your paper and I see lots of letters in its (Your name looks quite familiar to columns so I thought I would write you This is my first letter to the Children's Corner. I have three brothers and one sister. We go' berry picking sometimes. There are lots of gooseberries, saskatoons, strawberries and rasp-berries. Pa has been in this country a long time and has hundreds of acres This time I am going to describe a game called Money. First you get two of the oldest children to choose up sides. Then you get a number of sticks and put an equal number at each end to go to school.

The cases of Martin-Orme Pianos are finished very carefully. The varnish is allowed to dry thoroughly between each coat, so that when the final finish is put on it is very lasting and beautiful.

Surely it is worth your while to find out more about this instrument when we are willing to send free a beautiful booklet voicing the opinions of Canada's prominent musicians regarding the Martin-Orme!

Where the Martin-Orme is not represented, we ship direct and guarantee safe delivery to your nearest station.

Payments arranged to suit you, ORME & SON, Limited OTTAWA, ONT.

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DOMINION EXPRESS

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The Best and Cheapest System of Sending Money to any place in the World

A receipt is given purchaser. If order or cheque is LOST or DESTROYED the amount will be promptly REFUNDED. No Red Tape. Full information from any local Agent Dom. Exp. Co. or C.P.R.

You

will find just the Underwear you want right size and right weight

Stanfield's "Unshrinkable' Underwear



Made in sizes to perfectly fit every man and in the right weights for every Canadian climate from Halifax to the Klondyke.

Guaranteed unshrinkable, too.

Ask your dealer for STANFIELD'S. . NDED 1866

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I will close with a riddle: As round as an apple, As deep as a cup, And all the king's horses Can't pull her up. Ans.—A well.

THE GHOST CAT.

The day was dark and rainy, and accordingly, it was thought by the cats the proper thing to do was to retire to the attic over the wood shed, their favorite resort which their kind little mistress, Miss Rita. Garcia, had made quite comfortable for them, for Miss Rita was vrey fond of her pets.

"I heard Miss Rita say we were to have another companion. She is supposed to be a most distinguished puss, said Juliet, a small, dainty, black cat, who was reclining on an old sofa, and who was known as Blackie, the celebrated hunter, rather than "Juliet".

"Oh, indeed. Did you hear anything else concerning her, mamma?" said her daughter, a silver grey beauty, came good friends, while Juliet and in the "Farmer's Advocate." with extremely large pretty eyes, and a Mona became bosom chums. pretty head.

ful," said Juliet.

name. She had been named Hazel because of the color of her eyes, and it was certainly appropriate, for she really had hazel eyes. Of all the sweetest pets Hazel was the favorite, and the thought of having "her nose broken," (as the common phrase goes) did not suit her. So when Hazel heard of the future new comer's beauty, she said sneeringly, "Oh, indeed!"

"When is our new companion expected?" said Sally, a fat, lazy tor-

toise- shell cat.
"To-morrow, I believe," replied

"Miss Rita has decided to call her

Mona,'' replied Juliet. "Fancy enough," was hazel's short

A few more moments elapsed, ere all the pussies were asleep. The next morn- And milky-white lambkins in Little ing all the cats were assembled in the attic, ready for their breakfast. In
a few minutes Miss Rita appeared Oh! Down at the corner in Little Boy
with hot milk and best of all, some
delicious boiled fish. Just as they

Is the prettiest shop full of candy, were enjoying themselves a large white cat appeared on the scene. She marched straight up to a saucer of milk, around which all the cats were gathered and appeared very hungry. Every And nothing costs money in Little Boy pussy drew away instantly, and surveyed the new-comer, who, of course seemed dazed, but the next she fled with a wild cry of terror. A white cat! Why she had never heard of such a And nothing to do but for everto play, thing! She must be a "ghost cat"! First one jolly game, then another, condescending stare, curled her lips angrily and left. And Juliet, after And everything's free in Little Boy looking at the mysterious stranger some minutes, also left.

"Well, what do you think of the Oh! They say they do nothing in Little lovely Mona?" said Hazel, as Juliet Boy Land, joined her and Sally, who were in the But play through the warm sunny stable loft, preparing to take a nap on the sweet-smelling new hay.

"She is extraordinarily handsome,"

returned Juliet. attic as usual for their supper, and they again met the "ghost cat". With a It's all play and laughter in Little Boy dismal howl, Hazel turned and fled, only to be followed by the "ghost cat,"

Oh! There's hierards to go to, How, please to go to go to, How, please to go to go to, How, please to go to, How, and as she was in the act of disappearing, Oh! There's bicycles, tricycles, wagons through a hole, which led to a little balcony, a needle-like claw was driven and Sally also fled, to return no more. After that eventful day Hazel, Juliet, There's fun and there's frolic in every and Sally would not be enticed nor induced into the attic. One day they Oh! Who wouldn't like it in Little Boy were all in the stable, drinking a saucer of milk in peace, but their peace was of short duration, for soon a warlike white Oh! Who wouldn't long for this Little cat came in, with a warlike expression. She drove out everyone, with a "dig of her paw to hurry them, and they all dispersed in different directions, so she And candy for nothing, and peanuts could not chase them all, but the last one she pursued, till Hazel hid herself in some hiding place, as yet unknown Oh! Grown-ups, with trials and hard-to Mona. Safe in his hiding place, thips to stand, Tom Blackdale, who had just returned Let's journey together to Little Boy n a hunting expidition, and who had for the first time ever seen the "ghost

cat", and also for the first time felt that needle-like claw, sharp as a needle, though incased in her velvety paw one would never dream a cat possessed such dangerous weapons, fell to solving PEARL BARNETT (10) the mighty problem of whether Mona was a 'ghost cat' or a real cat. She certainly was too substantial and her claws were too sharp, he thought, as he recollected that piercing 'dig' he had just received. After this Tom Blackdale and Hazel dared not venture near Mona, and Sally and Juliet kept at a discreet distance. One day, however, Tom was standing on the porch sunning himself, when around the corner came Mona, at a romping gallop, and before she could stop herself, she had run into Tom, which insult to his dignity, caused him to defend himself with unusual courage. So out went paws and claws like lightning, but Mona "gained the day," and as he ran for his life, she pursued him some distance.

Several weeks elapsed, and then to the consternation and wonderment of Miss Rita Garcia, Tom and Mona bekeeps out of Mona's way, and when they "Miss Rita said she was very beauti- accidentally meet, they often come to words, blows and scratches. Hazel "Oh, indeed," said Hazel again, for merely tolerated Mona, and Mona took that was the plump little beauty's a malicious pleasure in chasing Hazel all over, for the mere fun of it. Mona was a large, beautiful white cat, with long hair and a long bushy tail. Hazel's 'nose' is certainly 'broken' for Mona at once became Miss Garcia's favorite.

AMY LAWRENCE.

(This story is printed exactly as written by the young authoress, no correction of any kind having been made in it. We consider it a very creditable composition.—C. D.)

Juliet.

''What is her name?' asked Hazel, Oh green are the meadows in Little Boy Land,

'or is she named yet?''

Land,

And blue are the skies bending over, And golden the butterflies flitting about To visit the pink and white clover. There are cool, running brooks where

the cows like to stand, Boy Land.

Is the prettiest shop full of candy, And a dear little woman to give it away-It's ever and ever so handy.

There are chocolate creams which the boys say are "grand."

was Mona. For a moment Hazel Oh! Strange as it seems, there are no

chores to do, No errands to run for the mother

Sally, after giving Mona a curious, There's a beautiful circus and a lovely brass band

weather, And play through the winter; -Oh!.

then it is fun To slide down the long hills together

That evening the cats went to the There's no school to go to, -now, please

and sleds.

And donkeys and ponies by dozens; into her. This was too much. Juliet So each little fellow can ride if he will-Each one of the brothers and cousins,

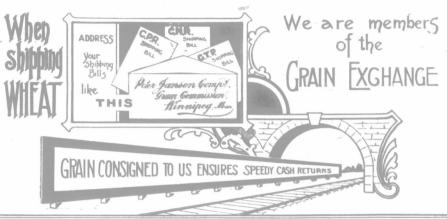
hand-Land.

Boy Land,

Where there's fun going on every

the same And a good time with every one in it?

-Harriet Francene Crocker.



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Farmer's Advocate, Winnipeg, Man.







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Doan's Kidney Pills should be taken at the first sign of anything wrong; they strengthen the kidneys and help them to filter the blood properly-help them to flush off, and carry away with the surplus water, all those impurities which the blood gathers up in its circuit of the body.

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ADVERTISE IN THE ADVOCATE

GOSSIP

he has sold the two-year-old champion Percheron stallion Nicol to the McIntyre ranch, and Social a second prize procity. two-year-old to B. Morchesseault, Taber, Alta.

decidedly the best customer.

At an auction sale on August 1st of Berkshires from the herd of W. H. Coffman, Bluefield, Virginia, an average price, for 38 head, of \$131 is reported, Bacon Premier 8th.

At the sale of a selection of Hackneys Market Weighton, England, on August

At the dispersal sale, on July 19th, of the famous Water Place Hampshire Down flock of Mr. Buxton, in England, the average price realized for 58 ram lambs was £20 8s., the highest price being 105 guineas. The average for 16 older rams was £24 17s., the highest price being 90 guineas. The average for 160 yearling ewes was within a fraction of 5, and for 130 two-year-old ewes, the average was £5 2s.

At the annual sale of Hampshires from the Tring Park flock of Lord Rothschild, on July 22nd, the best price ror a ram lamb let for the season was £47 5s. (\$235), and 63 ram lambs sold for an average of £11 5s., the highest price being 31 guineas.

Four exceptionally strong shipments of horses have arrived in Canada the past month. These are Graham Bros Claremont; Smith and Richardson's, Columbus; Graham and Renfrew's, Bedford Park, and J. B. Holgate's Weston and Brandon. In Graham Bros'. lot the stallions are Royal Choice, by Everlasting; Buchlyvie Life Guard, by Prince Thomas; Boreland Chief, by Baron's Chief; Electricity, by Silver Light; Prince of Orange, by Sir Humphrey; Free Mason, Lord Montague, and King Easy.

Duke of Malton, by Sir Everest; a threeyear-old by Everlasting; Douglas Pride, by Hillhead Chief; Knight of Merry-domestic labor is Germany. A Philaterms than the products of England. friend by Prince Thomas; Wealthy Baron delphia friend of mine, while paying Naturally the United States will grant the district of th and Baron Curzon, by Baron's Pride; the duty on a pair of flannel trousers Baron Livan, Inheritor, Rob Ranter which he had forwarded to him in Gerand Lord Daniere.

Graham and Renfrew's stallions are means, sir, that Germany works for all as between all other nations I believe the world, but no one works for Gerthe United States should have no pets Sir Hugo; Craig Nor, by Lothian Again; many but Germans.'
Draw Dyke Baron, by Baron's Pride; WHAT ENGLAND MA Baron Howes, by Baron Hood; Top Spot, by Baron Hood; and Gay Sprague, by Refiner.

All the above are Clydesdales, but Mr. Holgate also brought shires, Hackneys and Percherons. His Clydesdales are op Knot II, Prince of the East by Montrave Mac, Knight of Airies by diries Prince, and Golden Promise Golden Cty. All comments about lese horses emphasize the fact that they re all big so that importers seem to be determined that admirers of other preeds shall not have the opportunity of disparaging the Clydesdale for want

TRADE RELATIONSHIP.

The question of tariff reform in to read what the ex-secretary of the Mr. R. W. Bradshaw of Rosedale U. S. Treasury has to say upon the

A BROAD VIEW OF RECIPROCITY.

procity. By this assignment I assume Altogether, about 850 Clydesdales have been exported from Scotland since January 1st, 1907, being about 200 more wide the ever open door and to make than were exported in the same period appropriate the discussion of every of 1906. Canada has again, so far, been phase of commercial relations which may exist between friendly powers.

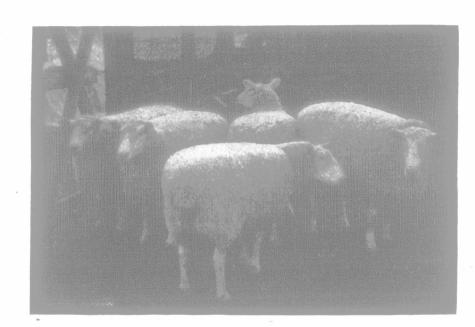
countries may adopt: They may enact Tariffs for revenue only or Tariffs for revenue and for Protection. England the top price, \$1,000, being paid by W. levies Tariff duties, but they are levied S. Corsa, Whitehall, Ill., for the boar solely for revenue, and therefore Englevies Tariff duties, but they are levied will best conserve our own interests land stands as the one and only Freefrom the stud of Mr. R. Whitworth, own producers an advantage within the which we think appropriate, we have no Market Weighton, England, on August home market over foreign competitors pets and no distinctions as between 6th, fifty head, old and young, brought she matches her revenue Tarffs on commercial competitors. The French an average price of £80 13s., the highest competitive articles with an equal producer of knit goods, and other texprice being 600 guineas for the mare, internal revenue tax upon like domestic tiles, cutlery and other hardware, china Lady Seaton, by Edemynag. The products. Thus she puts the resultants and glass, will ever as now enter the mare, Commodity, sold for 300 guineas, of English labor and of foreign labor on United States markets on exactly the and a yearling colt, by Edemynag, for the market for domestic consumption, same terms as the producers of like taxed the same.

all other nations alike by imposing the same duties upon the products of each and all, or they can discriminate. This Canada and the states is a constantly they can do in either of two ways: enlarging one hence it is appropriate They can grant special and specific concessions to such countries as in return grant special and specific concessions, Farm, Magrath, Alta., writes us that subject, when speaking before the Tariffs against such countries as set the Canadian club of New York, on Reci- example of adverse discrimination. I suppose there is yet another possible course to pursue, and there are some in this country who favor it. A country The subject assigned to me is Reci- might grant special favors to such countries as impose special burdens. This, however, is an exemplification of the Christian spirit which I think would prove unpopular at the polls.

UNITED STATES AND CANADA.

I am free to express the opinion that both the United States and Canada will There are two distinct policies which settle down to the policy of maintaining ountries may adopt: They may enact one priced markets. They will, in my judgment, perhaps not immediately but ultimately, say to all the world:

"We levy such Tariffs as we think We are selfish, and while we wish every country well, we legislate solely for our land stands as the one and only Free-own. But, when we have given our Trade country. To avoid giving her own laborers that degree of Protection articles in other countries."



THE LEICESTER SHOW FLOCK Owned by A. McKay, "Wa-Wa-Dell" Farm, MacDonald, Man.

Germany, France, the United States "What does this mean?" many, asked: The reply of the customs officer was: "It

WHAT ENGLAND MAY BE DRIVEN TO.

Since England gives her domestic producer no advantage over her foreign discussions of Canadian reciprocity by competitor, naturally there are no conthose who have thought the United cessions she can grant in consideration of similar concessions by other coun-Gay Edward, by Gay Everard, Mark Tariff, she has none to release. She Twain by Hiawatha, Watchman by may, however, levy discriminating Prince of London, Wigton Hero by duties against such countries as discriminate against her, and doubtless able terms than to the people of England.

> There are three policies possible for Protection countries. They can Protect their own labor in such degree as is ity as popularly understood is the deemed wise and appropriate, and treat impossibility of finding articles appro-

Great Britain consumes one-third of Baron Milton, King o' the Barons, and Canada, and for that matter all all American exports, and she does this other commercial countries, levy Tariffs without imposing a penny more in for revenue and for Protection. In all taxes upon American products than she Some of Smith and Richardson's are Protection countries the products of imposes in internal taxes upon like President Roosevelt, by Prince of foreign labor are taxed sufficiently to domestic articles. In the face of this I Carruchan; Keystone, by Baron's Pride; give an advantage to the home producer, submit it would be an outrage to admit The greatest example in the world of to our ports the products of Germany, Protective Tariffs in the interest of France, or Italy, on more favorable

Naturally the United States will grant special advantages to her insular possessions, and she will very likely continue her special favors to her ward, Cuba. To such a course no one will object, but and make no discriminations.

IS RECIPROCITY WITH CANADA FEASIBLE? I have frequently listened to elaborate

those who have thought the United States could get special concessions from Canada on manufactured products by tries. Having imposed no Protective granting like concessions, buit I have ever wondered what England would say may, however, levy discriminating if Canada were to admit textiles and hardware, china and glass from the United States taxed somewhat less than would, should any country give to like products coming from the mother her commercial competitors more favor- country. If England will consent, then I am in favor of commercial union. coupled with the same Tariff laws and the same labor and immigration laws for both countries.

The insuperable obstacle to reciproc-

posing the ets of each ate. This

IDED 186

wo ways: pecific conin return oncessions, retaliatory as set the nation. I r possible re some in A country such coun-

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anada will aintaining ill, in my iately but rld:

we think interests ish every ly for our given our rotection e have no between French ther texre, china enter the

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no pets ASIBLE! aborate city by United ns from acts by I have uld say les and om the ess than mother it, then union, ws and n laws

eciprocis the appro-

My home is west of the Mississippi corn and cattle, wheat and dairy products free of tax.

and having inherited somewhat of the As I have intimated, I fear Great Britain New England character I feel justified would seriously object to the admission in saying that the sturdy sons of those into Canada of American manufactures sturdy States would never consent to a free of duty and the imposition of Propenny reduction on their products, tective Tariffs against similar products though perhaps five out of the six New coming from the mother country. England States would be willing to admit hides and wool, wheat and dairy products free, on condition that the would be willing to exchange food procountry from which they were received ducts, wool and hides free of duty, but should increase the demand for the our farmers would object. The reason manufactured products of New is manifest. Such an arrangement England.

WAS WILLING TO BE THE GOAT. ing prosperity to others.

American labor, and whenever goods are of goods for export. imported which our people now produce, the men who produce them must seek other employment. A reduction in Which it can complain, however high Tariff where unnecessarily high is not Canada may place her Tariff duties, but sufficient, from a reciprocity point of when Canada has determined a measure view, for so long as a Tariff Protects of Protection for her own people, then the American industry, the reduction is the American industry, the reduction is the United States has a right to ask the of no advantage to the people of other privilege of sharing the surplus Canacountries. The reduction must be dian market on as favorable terms as is material in order to count, and nothing extended to others. Canada has no is material from the foreign standpoint right to complain of the American that does not result in importation of the things we now produce.

in this country (and they are not con- of Protection for her own citizens, fined to any one political party) who Canada would have right to complain favor showing special favors to those and should resent any attempt on the who seek to impose special burdens upon part of the United States to give other American products, and they call this countries more favorable terms than reciprocity. I belong to that quite are conceded to Canada. Canada now numerous class who would levy retalia- buys more than half her imports in the tory duties against the products of United States. Certainly Canada must any country that seeks to impose heavier burdens upon the products of American a country that buys one-seventh of her labor than upon like articles produced imports of us special and exclusive conby our commercial competitors. This is cessions. the only type of reciprocity we will ever The only way by which a Tariff war be able to consummate. We can, of can be precipitated is through the course, talk about something more imposition of discriminating duties, and et hical

ONLY FAIR TREATMENT ASKED.

no right to complain so long as they are abundantly able to protect herself by treated as well as others. Let the people of Canada pursue such policy as the tion. A maximum and minimum people of Canada deem wise, and the Tariff, the maximum prohibitive and United States will take such per cent. of enforcible without executive or adminher remaining trade as we can appro-priately get in competition with the produced in any country that refuses world. But we will have a right to the square deal, is a sure defence. Such complain should Canada tax American a law promptly and courageously

impose retaliatory duties against any chandise of one country than those country and every country that serves applicable to any and all others, unless it notice that the products of American can enjoy the benefits of rates lower labor are less welcome than like articles than all others. Few countries are of produced elsewhere. If our food pro- sufficient commercial importance to ducts are unwholesome, or if our manu- enforce such a demand. tactures are worthless, bar them, but if admitted at all let them compete upon I return to my original suggestion that their merits. Anything else is unjusti- these two great American republics hable discrimination, which the Ameri- (and I use the term advisedly rather

States, but it would very soon result in the good wish.

priate to be sacrificed in the interests of an increased market for American labor products sufficient to offset it.

It would work to the very great River, and I am prepared to say that advantage of Canadian agriculture, quite a respectable per cent. of the peothough it would probably retard the ple of that locality would consent to the development of Canadian manufacadmission of every manufactured article tures. Our interests are so identical, which is produced only in New England, our futures so full of joint hope and on condition that the countries from promise, that I think it would be of which they were received should admit great advantage to insure the greatest possible commercial intimacy. I conucts free of tax.

I was born, however, in New England mation for which I have little hope.

DIFFICULTIES IN THE WAY. would result in large importation of agricultural products from Canada and The story is told that once upon a time no exports to Canada. American a man somewhat under the influence of manufacturers would be willing to liquor suddenly awoke from his nap in exchange manufacturers for manufacthe pew just as the revivalist was urging tures free of duty, but the Canadian the pew just as the revivalist was urging tures free of duty, but the Canadian those to stand up who were willing factory man would surely object, for he, ultimately to be counted among the in turn, would lose much and gain little. goats. Our friend sprang to his feet If the United States shall hereafter adopt and exclaimed: "Well, Parson, rather a policy of preserving our forests, as than have the show stop, I'll be a goat." well as that of restoring them after Unfortunately for our dream of recidepletion, she will make the business of procity no industry in the United the Canadian lumbermen somewhat States stands ready at present to sacrimore profitable. I wish I could think fice itself even for the sake of continu- of some appropriate concession for Canadians to make in consideration of And it must be borne in mind that free lumber. Something may yet be reciprocity is bottomed on sacrifice. No discovered. I do not believe, however, country will accept a reduction of duty we will again turn our coal miners of the as a basis of reciprocity that does not fix Northwest into the streets by the the rate low enough to insure the impor- admission of free coal, though we may tation of articles now produced by admit it free for use in the production

CAUSES FOR COMPLAINT. The United States has nothing of Tariff, enacted as it is in the interests of American labor. But when the I recognize that there are some people United States has determined a measure

any country that treats all the outside world alike will be safe from Tariff wars, The people of the United States have except those against which she will be textiles higher than she taxes the same enacted will effectually silence all articles if produced on German looms. threats. I have little patience with I would not adopt the Daivd Harum any country that proposes to impose policy of "doing it first," but I would higher Tariff rates against the mer-

In the face of these self-evident facts American sense of justice, as well as the than technically) continue to live each American sense of honor, will not brook. in admiration of the other, each proud I am disposed to think that an agree- of the achievements of the other, and ment of commercial unity between the each pursuing such a policy as it united States and Canada would be mut believes best calculated to further the ually advantageous if combined with interests of its own, without especial uniformity in Tariff, immigration and regard to their effect upon the interests labor laws. I grant it might, at first, of the other. But, having done this, slightly affect our food producing let each ever extend the glad hand and

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WINNIPEG, MAN.

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

PARM FOR SALE, 424 acres; 5 miles 'to town of Morris. All under good cultivation. 200 acres fenced; good farm house, barn 70 x 28, leam on one side 14 x 70, hog house and hog pasture. Windmill and grinder; good granary, good well. One mile to siding, one mile to school. A reasonable offer will not be refused if a sale can be made at once. 1 Apply to Bex 143, Morris, Man.

POR SALE, Farm Creamery Plant, consisting of about fifty good milch cows; one churn, hundred gallon capacity, power attachments; one cream separator, power attachments; two hatter workers (one has power attachments); one automatic butter printer and weigher; one Babcock milk tester, four bottles; one portable refrigerator, ice capacity four hundred pounds, butter capacity four thousand pounds; two transportation butter boxes with ice closets; and all the paraphernalia required ico closets; and all the paraphernalia required in a first-class farm creamery. Terms. H. Hassard, Josephburg, Alta.

ing, 60 miles west from Winnipeg. 60 acres broken, 80 acres fenced for pasture. 4 miles from station, 1 mile from school. Good buildings, good water. Also one team big horses, two colts, complete set of new machinery. 53,800 cash. Apply A. Levadoux, St. Claude, Man. E.O.T. 9-10

A MUNDRED Firemen and Brakemen w ited en railroads in Winnipeg vicinity, to fill vacancies caused by promotions. Experience unnecessary. State age, height, weight. Firemen, \$100 monthly, become Engineers and earn \$200. Brakemen, \$75, become Conductors earn \$150. Name position preferred. Railway Association, Room 163, 227 Monroe Street, Brooklyn, N.Y. Distance no bar—Positions guaranteed competent men.

POULTRY and EGGS

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

H. E. WABY, Holmfield, Man., will sell to make room, choice Barred Rock and S. C. Brown Leghorn Cockerells at \$1.00 to \$3.00. Buy now and save express on fullgrown birds. T.F.

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

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 T.F.

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

pens of choicest matings. Leading strains of America. Selected for their choice barring and heavy 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., Tronto, Ont. t 22-9

C. W. ROBBINS, Chilliwack, B. C., breeder of laying strain Buff Orpingtons. 18-9

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 Glose Ave., Toronto, Ont. 22-9

FOR SALE.—Barred Rocks, Leghorns, Geese, Turkeys Indian Rummer Ducks, Rabbits, Pigeons; also improved Ranch. Geo. D. J. Perceval, Priddis, Alberta.

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

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.

STRAYED—from five miles North of Ponoka, Iron Grey Horse, branded H on left shoulder; Black mare, indistinct brand; Dapped Grey mare. All unbroken and hearty weight. \$25 reward. F. D. Warren, Ponoka, Alberta T. F.

STRAYED five weeks ago, bay mare, 12-years old, short tail. Good reward assured. J. A. Chmelnitsky, 74 Derby St., Winnipeg, Man.

\$10.00 Reward, for information leading to recovery of one grey gelding, aged 12, and one bay mare, branded C Y on thigh. Geo. Williams, Brookdale, Man.

STRAYED on my property about first of July one red and white heifer. H. S. Gold. Wood River, Alberta.

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

Breeders' **Directory**

\$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. T.F.

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

JAMES WILSON, Grand View Stock Farm, Innisfail, Alta.,—Breeder of Shorthorns. 13-6

A. J. MACKAY, Wa-Wa-Dell Parm, Macdonald, Man., breeder of Shorthorn Cattle and Leices-ter sheep.

MERRYFIELD FARM, Fairview, Thos. Brooks, breeder of Clydesdales and Shorthorns. Box 134, Pense, Sask.

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

STRONSA STOCK FARM—Well-bred and carefully selected Shorthorns and Berkshires David Allison, Roland, Man. 13-11

PARRED ROCK Eggs from carefully selected pens of choicest matings. Leading strains of America. Selected for their choice barring and heavy laying of large brown eggs, and Shire horses.

JOHN GARDHOUSE & SONS, Highfield P.EO. Ront.—Breeders of Scotch and Scotch-topped Shorthorns, Lincoln and Leicester sheep and Shire horses.

R. A. & J. A. WATT, Salem, Elora Station, G.T. and C. N. R. R.—Champion herd of Toronto and New York State Fairs, 1905, also Grand Champion females, including both Senior and Junior Honors at both fairs. Write your wants.

BROWNE BROS, Ellisboro, Assa.—Breeders of Polled Angus cattle and Berksbire swine. Stock of both for sale 13-3

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

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

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

GEORGE LITTLE, Neepawa, Man.—Shorthorns

CLYDESDALES,—a choice collection of breeding stock always available. Jas. Burnett, Napinka, Man. 30-1

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

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

Trade Notes

In the interest of health every village, and if possible every farm home, should make strenuous effort to have the purest water that is obtainable. A deep well which is bored through the solid rock is the surest means of attaining the desired end. Every community should have some people who make a business of boring deep wells and wherever there is any interest in this question it is wise to communicate with The American Well Works, Ottawa, August 22nd, 1907. Aurora, Ill.

Gossip

The demand for feeding lambs in the Chicago Stock-yards, says the Livestock Report, is intense. Competition which is the highest price ever paid for lambs to take out and feed. A year ago this month, the top was \$6.85, and that dire things for the man who bought them. While conditions are favorable to a continuation of a strong demand for mutton, it is obvious that the man who has the nerve to pay \$7.25 for feeding lambs will have to get a very high price for the finished product to let him out. He may win; who can tell? However, the chances are against him, and it stock kept, will be inserted under this heading at takes a man who likes speculation to pay these figures. The fact is, many farme s have an abundance of feed which they do not know how to utilize. Many are afraid of cattle, and of the two, prefer to tackle the sheep proposition. Last year some who bought lambs at \$6.50 and under were sorry, for the market at the time the stuff was finshed did not behave very satisfactorily. Lambs have to bring better than \$8 to let present buyers out of the woods.

SOME MILKING RECORDS OF SHORT-HORNS.

The Shorthorn cow, Florence Airdrie VI., owned by the Nebraska Experiment Station, produced, between April 7th, advanced in growth in accordance with 1905, and April 7th, 1906, a total of the rest of the body. Early lambs 10,487 pounds of milk, 413.01 pounds of outter-fat, and 481.84 pounds of butter Her average test was 3.94. The Taylor herd of Shorthorns at Shelburne, Mass. established in 1848, has produced many pounds, in the herd of Edward S. Ellis, under ordinary conditions. it East Longmeadow, Mass., has a record of fifty-two pounds of milk per and can, in most cases, be relied upon day and about 11,000 pounds per year, After a sheep is four or five years old, it besides breeding a calf. A herd of forty becomes hard for one to tell their exact Shorthorns in Western Massachusetts, age. Some teeth will grow apart with SHETLAND PONIES and Hereford Cattle, finest in Canada. Write or come and see them. J. E. Marples, Poplar Grove Farm, Deleau, Man. T.F. Short City, makes an average test of 4.4 per cent. butter-fat. Kitty Clay IV., a to be reckoned by the wear of the teeth. supplying milk for fancy trade in New Age. Age makes irregularity in the York City, makes an average test of 4.4 mouth, and after five years of age has

HAMMOND'S **FURS**



We manufacture our own Furs, in our own Factory therefore we are in an exclusive style—with practically no competition.

Send for our Style Book and Price List HAMMOND, Winnipeg



MANGE

NOTICE is hereby given that, by Order in Council dated August 21st, 1907, the period during which cattle are required to be dipped within the area set forth in the Order in Council of June 10th, 1907, has been extended to the 15th September, 1907, and that in case of any owner failing to treat, or to make satisfactory preparation for treatment of his cattle on or before first September, 1907, the provisions regarding compulsory treatment shall go into force and effect.

J. G. RUTHERFORD,

J. G. RUTHERFORD, Veterinary Director General.

Shorthorn cow bred in New York State, in a thirty-day trial yielded 1,593 pounds of milk, which made sixty-two and one-fourth pounds of butter. Two years later, she gave almost 5,000 pounds of milk in three months, her best day being sixty-five pounds. Thirtylast week pushed prices up to \$7.75 eight cows in the Glenside herd at Granville Center, Pa., have made an average yearly record of 9,031.7 pounds of milk Mamie Clay II., a Shorthorn cow, has a was so high that everybody predicted record of 10,189.1 pounds of milk at two years, 3,232.1 pounds at four years, and 47,048.1 pounds, an average of 11,762 pounds with her four calves.

TELLING THE AGE OF SHEEP.

Probably the best way to tell a sheer age is to look at its teeth, says an old flockmaster in a sheep journal. Conditions surrounding the sheep while it is young will make some unnatural changes in the teeth oft-times, either making them develop more rapidly than usual or they may be retarded in growth. A yearling sheep has its first pair of wide incisors; at two years old, two pair; three-year-old, three pair, and at four years old, four pair, or a 'full mouth, but the teeth are all white and fresh Heavy feeding, such as is the case with show sheep of lambs fed for the market, will sometimes cause the teeth to indicate that the sheep is older than it

The sheep in such a case, would be nearly matured at an earlier date than common, and the teeth would be the rest of the body. Early lambs that have been 'pushed" will oft-times show yearling teeth when they are not yet twelve months old. English sheep sometimes when eighteen months old will show 'two-year-old teeth." This ndividuals, with record of from 1,200 to is due to the fact that they have been ,500 pounds of milk in thirty days. A fed heavily since birth, and are really Shorthorn cow, weighing some 1,600 as well matured as two-year-old sheep

However, the rule given is a good one

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A Horse with a

weak back, shoulder or knee.

bottle of

Fellows' Leeming's

needed.

50c. a bottle. At dealers.

NATIONAL DRUG & CHEMICAL CO., LIMITED, MONTREAL.

For Colic, Inflammation or Scouring in Horses or Cattle.

\$1 per bottle, or 6 bottles for \$5 prepaid.



\$2.00 per bottle, delivered. Book 8-C free. ABSORBINE, JR., for mankind, \$1.00. Removes Soft Bunches, Cures Varicose Veins, Varicocele, Hydrocele, Ruptured Muscles or Ligaments, Enlarged Glands. Allays Pain. Mfd. only by

W. F. YOUNG, P.D F., 46 Monmouth St., Springfield, Mass. LYMAN SONS & CO., Montreal, Canadian Agents.

Also furnished by Martin Boie & Wynne Co., Winnipeg.

The National Drug & Chemical Co., Winnipeg and Calgary. and Henderson Bros Co. Ltd., Vanco

THE FARMER'S ADVOCATE.



WASH DAY IS CHILD'S PLAY WITH THE

NEW **CENTURY** WASHING

MACHINE

o Order \$3.50 By Mail \$3.50

¶ We guarantee a perfect

fit, good materials, proper

Patterns to please all

tastes in Worsteds, Tweeds,

¶ With our self-measure-

ment forms any one can

¶ You couldn't duplicate

these Trousers elsewhere

MONTREAL

Serges or Homespuns.

take correct measures.

workmanship.

under \$5.00.

Send for samples. Satisfaction or money back.

We deliver FREE anywhere in Canada.

MEN'S WEAR Limited

475 St. Catherine St. East

Refer to any Bank or Mercantile Agency.

It means cleaner, whiter clothes -no backache-no chapped hands -no torn garments-no shrunken fabrics. It means a tubful of clothes washed every five minutes, with less trouble and exertion than running a sewing machine SOLD BY MOST DEALERS AT \$8.50

Write for free catalogue that tells the whole story. The Dowswell Mfg. Co., Limited, Hamilton, Canada

REVIVAL AT MEDICINE HAT.

Mr. S. Baker, one of the Medicine Hat district's progressive farmers, sends us the following clipping from his local paper:

From all over the district comes the same tale. Owing to climatic conditions the grain crops will be taken off summer fallowed land. This is proof of a direct kind that Prof. Campbell's theories are right when put into practice.

Now, if in unfavorable seasons, scientific, intelligent farming will produce good crops, what can we see before this district.

It is true that so far as length of season free from frost counts, we have all other portions of the West discounted. We have a season of sufficient length that the frost danger is never thought of. The danger of successful farming has always been that of drouth. If this danger can be overcome by conserving in the soil by a proper system of cultivation, the moisture provided by nature, then it means much for this district. slipshod, tickle-the-top class of farm ing will give way before the men who follow Professor Campbell's ideas, and put both labor, time and intelligence into their agricultural work.

In our district there are men who will gather good crops this year because they have summer fallowed and prepared their ground, and there are men who have crops that are hardly fit to put a mower into, because they have not taken the trouble or time to fit their land to meet the climatic conditions as we have them.

If we had a couple of thousand farmers around Medicine Hat with crops like Messrs. Rogers, Baker, McGillivray, Corbett, Pettibone, Brier, and others we might mention, it would be as valuable to us as if we had half a dozen manufacturers going.

If it can be demonstrated in such a season as this that we can wrestle something good from the soil by using a certain line of cultivatoin, is it not a lesson which should be followed in the future? If it can be demonstrated that there is an almost positive assurance of a crop by following a proper system of tillage, is it not wisdom to depart from old methods, stop gambling with Nature, stop expecting a rainfall just at the right time, stop scraping the surface and spoiling the grass crop.

The Medicine Hat Agricultural Society is doing a good work in trying to create an interest in the establishment of an experimental station for this class of crop culture at Medicine Ha.. Such a farm, demonstrating the dry farming theory will do much for the up-building of this district, The Society will have the assistance Note particularly the terms of this special of the Alberta Department of Agriculture, and it is also encouraging to note that Mr. Wm. Whyte has promised the interest of the C. P. R. in the experiments.

> Take a trip into the country and see what the summer-fallowed fields mean to their owners this season.

We have a large list of Kootenay

Good Offer

Fruit Lands for sale, from which the following is quoted, but the prices and terms are made special for immediate sale:

11 acres, close to city, excellent location, \$55.00 per acre.

80 acres, in finest fruit valley in Kootenay, \$20.00 per acre 160 acres, choice, daily steamer service, \$17.50 per acre.

offer, viz.: Twenty per cent. cash, balance in one, two and three years; small rate of interest. Write quick for full description of block required.

Kootenay Land and Investment Co.

Fruit Land and Real Estate **NELSON, B.C.**

QUESTIONS AND ANSWERS.

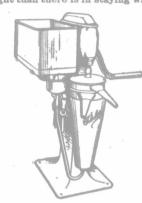
ACTINOMYCOSIS-LUMP JAW.

Two-year-old bull has two large, hard lumps, as large as a man's fist, just behind the jaw. It is not lump jaw, as they are not attached to the bone. Cow, six years old, has one lump of a similar nature and position. Is it contagious? How is it caused? S. J. W.

Ans.—Actinomycotic tumors are not always attached to the bones. I am of the opinion your cattle both have the disease. The tumors can be dissected out by a veterinarian, or, in all probability, reduced by the iodide of potassium treatment. This consists in giving the drug three times daily, commencing with dram doses and increasing the dose

Because You Need The Money

It's your business and if you don't attend to it, who will? You cannot afford to keep cowsfor fun. That isn't business, and, furthermore, it isn't necessary. There is money in cow keeping if you go at it right, and besides there is more fun in going at it right than there is in staying wrong.



You need a Tubular Cream Sepa-rator because it will make money for you; because it saves labor; because it saves time; because it means all the difference between cow profits and

difference between our product and cow losses.
Look into this matter; see what a Tubular will de for yeu and buy one because you need it.
How would you like our book "Business Dairying" and our catalog B. 186 both free. Write for them.

The Sharples Separator Co. West Chester, Pa. to, Can. Chicago, III. Toronto, Can.



The strongest wind that ever blew can't rip away a roof covered with self-locking

"OSHAWA" GALVANIZED STEEL SHINGLES

Rain can't get through it in 25 years (guaranteed in writing for that long—good for a century, really)—fire can't bother such a roof—proof against all the elements—the cheapest GOOI) roof there is.

Write us and we'll show you why it costs least to roof right. Just address

The PEDLAR People (Bet'd

Oshawa Montreal Ottawa Toronto London Winnipag



Railers FEVERISH MEAT. Prevent FITS, CONVULSIONS, etc. Preserve a healthy state of the constitution decing the period of

TEETHING. Please chosens the EE in STEEDMAN.

CONTAIN • NO POISON

daily, by, say, 20 grains, until desire for ADVERTISE IN THE ADVOCATE

Strained Shoulder is sound as a dollar in 24 hours after you rub the sore spot with Fellows' Leeming's Essence.

It gives instant relief in all cases of Strains, Bruises and Swellings — draws the pain right out — strengthens the

Whether you have one horse or twenty, accidents are liable to happen any time. Keep a

Essence

handy so you can have it when

INSTANT COLIC CURE

GUARANTEED to relieve the worst cases in from 2 to 5 MINUTES. CLEMENTS' Drug Store, BRANDON

will clean them off without laying the horse up. No blister, no hair gone. \$2.00 per bottle, delivered. Book 8-C

Clydesdale Fillies and Colts FOR SALE

A large shipment, direct from Scotland, of 2 and 3-year-old Fillies and two 1-year-old Colts, by Hiawatha and Imperialist. British and Canadian pedigrees furnished. Give me a call, or write for particulars.

JOHN HORN

Home Farm, Regina, P.O. P.O. Box 443

CLUB STABLES

(Box 483) BRANDON 12th STREET,

MacMillan, Colquhoun & Beattie Importers and Breeders of

Clydesdale, Percheron and Hackney Stallions

THE MOST FASHIONABLE STRAINS OF BREEDING ALWAYS ON HAND

CLYDESDALE STALLIONS and MARES

Out of a carefully bred and selected lot I am offering a five-year-old tallion, a three-year-old, a two-year-old, two yearlings, and several nares and fillies. Will sell quick before seeding. Farm (Meadow Lawn) convenient to Regina. Full details given on application. Address

d. D. TRAYNOR

Condie P. O., Sask.

Purity and fine quality are the strong points in 3. Could you recommend anything to help a stallion that teeters in front knees a little?

COWAN'S COCOA, CHOCOLATE

Cream Bars, etc.

Milk Chocolate Sticks, Croquettes, Medallions, etc. are very delicious.

THE COWAN CO., LTD., TORONTO

on postage and ask us for a mailing box for your watch. We will report cost of repairs and upon your instructions will repair and return to you, guaranteed for one year.

A. BRUCE POWLEY **324 JASPER AVENUE**

EDMONTON

Official Time Inspector for the QNR.



THE RIESBERRY PUMP CO., LTD.

Manufacturers of Wood and Iron Pumps

We make only the best. Some of our pumps have been in use twenty years, and are still working.

Ask your dealerfor Ries-berry Pumps, or write direct to us for catalogue. Box 544, BRANDON, Man.

FACTORY: Cor. 6th St. & Pacific Ave.

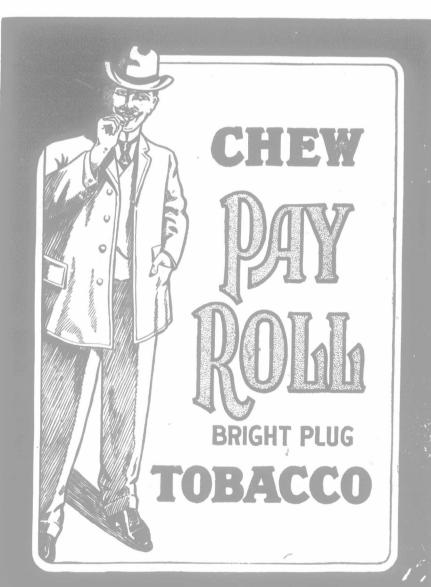
food and water fail, tears run from eyes abrasion in mouth, tongue, etc., and it is and saliva from mouth, and skin becomes possible for one animal to contract it scruffy. When any of these symptoms from another by eating the saliva or appear, cease giving the drug. Treat- discharge from suppurating tumors. ment can be repeated, if necessary, in two months. In adding to this, it would act well to rub the tumors well, once daily, with an ointment composed of 2 drams each of iodine and iodide of potassium, mixed with two ounces vaseline. I would not consider it wise bing his tail? to keep this bull for stock purposes.

HORSE RUBS HIS TAIL.

1. What will stop a stallion from rub-

What will make hair grow on a

The disease is caused by the spores of tail where it has been rubbed out? the disease, which often exists on the What will take itchiness out of stallion's food, gaining the circulation through an legs?



4. Is Epsom salts good to feed to stallion in his oats? Will it cool his blood? If so, how much a feed would you recom-

OLD SUBSCRIBER.

Ans.—1. First wash well with warm soft water and soap; rub dry. Then dissolve one dram of corrosive sublimate in a quart of water, part the hair, and rub a little well into the skin once daily, till itchiness ceases. Also give, internally, one ounce of Fowler's solution of arsenic in feed, or as a drench in a pint of water, night and morning for ten days.

2. After itchiness ceases, rub in lard or sweet oil every day or two. The corrosive-sublimate solution, applied in same way to the legs, will cure the itchi-

3. See that the floor he stands on is level; shoe with a flat shoe; feed off the floor, and blister the back cords, tying for a few hours so he cannot bite parts. After three days, grease the parts. Repeat blister in a month.

4. Yes, a closed handful of Epsom salts given twice a day for a week, in feed, will cool the blood, and may answer the purpose instead of the arsenic solution. Remember that both corrosive sublimate and arsenic are rank poisons.

ALLOWANCE FOR OPENINGS IN MASONWORK.

Is a mason allowed all the openings, such as doors and windows, in laying brick? The mason laid by the thous-

Ans.—Not when he is laying by the thousand. He is only entitled to payment for the number of bricks he lays.

BRONCHOCELE.

Horse has a firm swelling about the size of a man's fist in neck, directly behind the jaw. It is not sore, is movable, and does not cause inconvenience.

Ans.—This is an enlarged thyroid gland, and is called bronchocele, or It is supposed to be caused by animals drinking water largely impregnated with lime. Some horses appear particularly predisposed to the condition. The glands can generally be reduced to their normal size by the daily application of an ointment made of 2 drams each of iodine and iodide of potassium, mixed with 2 ounces vaseline. If this fails to reduce it, and it grows so large that it causes distress, or inconvenience, an operation by veterinarian will be necessary

MUD FEVER-CRIBBER.

1. Have had mud fever in my stable for a year. First one and then another is affected.

2. Two-year-old is a cribber.

Ans.—1. Mud fever is not a disease that exists in stables. Of course, poor ventilation, dampness, etc., predisposes to it. Keep stables clean, dry and well ventilated, and it would be good practice to give a good coat of hot lime wash, with five per cent, carbolic acid. Give the patient, a purgative of eight drams aloes and 2 drams ginger. Follow up with 11 ounces Fowler's solution of arsenic, twice daily every alternate week for six weeks. To the eruptions, apply, three times daily, a lotion made of 2 ounces each sulphate of zinc and acetate of lead, and $\frac{1}{2}$ ounce carbolic acid to a quart of water. Do not wash

2. A tendency to cribbing may be checked by feeding the colt from the floor, removing the manger from his stall. A strap buckled tolerably tight around the neck, close to the head, acts as a preventive of the habit.

CEMENT CRIB FOR A SPRING.

I have a spring which runs all the time and the water cannot be lowered. I wish to put in a cement crib, not more than four feet deep.



GOMBAULT'S CAUSTIC BALSAM

A safe, speedy and positive cure for

Curb, Splint, Sweeny, Capped Hock, Strained Tendons, Founder, Wind Puffs, and all lameness from Spavin, Ringbone and other bony tumors. Cures all skin diseases or Parasites, Thrush, Diphtheria. Removes all Bunches from Horses or Cattle.

As a HUMAN REMEDY for Rhematism, Sprains, Sore Throat, etc., it is invaluable.
Every bottle of Caustic Balsam sold is Warranted to give satisfaction. Price \$1.50 per bottle. Sold by druggists, or sent by express, charges paid, with full directions for its use. Send for descriptive circulars, testimonials, etc. Address THE LAWRENCE-WILLIAMS COMPANY, Cleveland, Ohio.

This valuable medical book tells in plain, simple lan-guage how Consump

guage how Consumption can be cured in your own home. If you know of any one sumption, Catarrh, Bronchitis, Asthmatrouble, 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 be-

remedies they had tried failed, and they be-lieved their case hopeless.

Write at once to the Yonkerman Con-sumption Remedy Co., 276 Rose Street, Kalamazoo, Mich., and they will send you from their Canadian Depot the book and a generous supply of the New Treatment, absolutely free, for they want every sufferer to have this wonderful cure before it is too late. Don't wait — write today. It may mean the saving of your life.



Comfort In Working **Boots**

A man cannot work when his shoes pinch - when a seam rubs against his toes

until it makes a corn-when a wrinkle chases his foot constantly. With the end in view of getting away from these defects so common in many working boots we have produced the Amherst. This boot is Blucher made, of soft grain leather, on the roomy, comfortable last shown above, with even seams.-Entirely made of solid leather, it guarantees durability, stability and long service—at \$3.00 a more economical working boot cannot be made. We deliver them to you prepaid for \$3.00 Send to-day.

Geo. H. Anderson & Co.,

Port Arthur, - Ontario

faction.

NDED 1866

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Hock d Puffs lingbone all skin htheria. rses or

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nnot

pre-

sand and gravel will I have to use?

about building same. of cement.

2. (a) Build a double crib of plank, allowing eight or ten inches between for cement, and set them in place in the water, with some device for holding them down in position.

then add enough water to moisten them, but not to make a mortar.

tamp it down well.

planks may be removed.

If a cement bottom is required, a tile or iron pie to admit the water may be put in one side, or in the bottom, and the bottom cemented. An overflow pipe, or, at least, a depression in one wall, should be provided.

BLUESTONE FOR KILLING SOW THISTLE

I think I saw something in the Will you please let me know what like to try this treatment?

Ans.—The question of eradicating Man.

1. What proportions of cement to breeding was given correctly enough, as and and gravel will I have to use? he paid five dollars for service, but, later 2. Please give general information when the man who owned the boar could bout building same. W. G. not buy the boar pigs back at his own Ans.—1. About 3 or 4 of sand to one price, he refused to fill out certificate of service to this boar, and filled it out to another boar he had, not as noted prizewinner, nor as good a boar, which breeder No. I accepted and registered his stock as given above, which pedigree I have, and which is not correct nor worth own in position.

(b) Mix the sand and cement dry, and hen add enough water to moisten them, pedigree, described the breeding of sow and her litter, and have sold some of her (c) Put the mixture in the mould, and pigs, before I knew of this tangle. As amp it down well.

(d) When the cement is well set, the furnished with pedigree which I cannot give. Give instructions as to what I should do.

Ans.—You ought first to take return of the pigs you sold, and then make return of sow to the breeder, and demand a refund of the money you paid him, following such demand up, if necessary, by suit in Court.

STALLION FEES.

FARMER'S ADVOCATE about a year ago, on the use of blnestone for killing sow thistle, Will you please tell me how the foal. If the mares do not prove in solution is made for this purpose, how many gallons of water should be used for one pound of bluestone, as I would last round the groom in charge said that the mares were not in season.



SHORTHORN COW, "ROAN URY." One of the best specimens of a farmers' Shorthorn cow seen at our fairs this year Owned by P. M. Bredt, Regina.

sow thistle was taken up pretty fully Ans.—On every stallion card the even then, it is by no means certain round and yet were not with foal. that the annual sow thistle would be Very often the stallion owner will breed killed outright. For the perennial a mare the second season without sow thistle (the more pernicious kind) charge when she proves to be not with attempts to eradicate by spraying with foal but that is at his own option and if bluestone solution would certainly be a there are many of this class of mares on waste of time and material. Thorough, his route it is not fair to other patrons persistent cultivation is necessary to of the horse that he should be used for cope with it.

PEDIGREE OF PIGS.

In the early spring I bought a pig (sow) from a breeder, he, in his description stating that sows were sired by a noted show boar, and also from a prize-

in a recent issue. Bluestone has not terms of service are printed, and if a been recommended through these man breeds a mare to the horse he columns within our recollection for the signifies his intention to accept the killing of sow thistle—certainly not terms as published. If the mares are editorially. A spray solution of 10 returned regularly as season mares pounds bluestone in 40 gallons of water and the terms of the service fee stipution. will destroy wild mustard without lates the payment of a certain sum for seriously injuring the grain among season mares, the owner of the mares is which it grows; but bluestone is not an liable for the payment of the fees, effective means of combating sow thistle. unless the terms state that there will It is true that the annual sow thistle is be no charge for mares not with foal, more or less sensitive to the bluestone which would be a very foolish thing to solution, but, to be effective, the solu- do. It is quite within the limits of tion would require to be so strong as to possibility that the mares were not in injure the foliage of other plants, and, season when the horse made his last such a purpose nor to the owner that he should be at the additional risk and expense.

MANITOBA COLLEGE COURSE.

Whenever I want a pointer on farm work, horses, etc., I carefully watch the ADVOCATE, and as a rule sooner or wining sow, giving, in his description, the name of boar. Lately, I received the same of sow, but found that according the of sow, but found that according to the office of sow of the same of sow of the same of sow of the same of some light on the subject. I have read with interest the letters from ame, she was sired by a different have read with interest the letters from



you want feeders that HEKEF Charles of the charle with the best. for sale.



NEEPAWA STOCK FARM FOR SALE-Shorthorns combining milk and beef, and prize winning Tamworths, pigs of both sexes. Write me,

A. W. Caswell, Neepawa, Man.

SHORTHORNS

Ranchers and farmers need the reds, whites and roans, if you wish to breed the best and most profitable cattle. Can supply you with tip-top stuff. Am offering one three-year-old six two-year-old and six yearling Shorthorn Bulls; also ten Cows and Heifers.

JOHN RAMSAY, - Priddis, Alta.

OUR

Shorthorns & Yorkshires

Will be seen at the leading Western Fairs this year.

W. H. ENGLISH & SONS. HARDING.

SHEEP FOR SALE

We are offering for sale for October delivery 500 Cross-bred Lincoln-Merino and Oxford Down-Merino Yearling Ewes at \$6.00 per head at Walsh station. Would sell in carload lots to suit purchasers. We have also for sale a number of Lincoln, Oxford-Down, and Cross-bred Oxford Down-Rambouillet Merino Rams. Prices according to enablity.

SHORTHORNS and YORKSHIRES

We have ready for shipment now, a number of Bulls and Heifers of various ages and of good quality. These will be sold cheap, as we are overcrowded.

overcrowded.

In Yorkshires we will be able to ship by the end of June a grand lot of young pigs, of either sex. Also a few good Berkshire Boars. These are mostly from imported or prizewinning stock.

For particulars write to

WALTER JAMES & SONS, Rosser, Man.

E. T. CARTER & CO., TORONTO

CLENDENING BROS. Harding, Man.

RED POLLED CATTLE

The Grain Grower's Cow

A few Bull Calves for Sale YORKSHIRE, HOGS

There is money in Hogs if you have the right kind. Our breeding insures both quality and quantity. Spring Pigs of both sexes for sale.

SPECIAL OFFERING OF

Good Young Bulls FIT FOR SERVICE

Geo. Rankin & Sons, HAMIGTA, Man.

Terra Nova Stock Farm HERD OF ABERDEEN-ANGUS CATTLE

All the best families represented. Some fine young bulls for sale from both imported and home bred cows. Prices reasonable. S. MARTIN, Rounthwaite, Man.

Sittyton Shorthorns

The Champion Herd at Regina and Calgary, 1906. At present all my bulls are sold but I can supply a number of first-class females of all ages and of most approved breeding. My old stock bull, Sittyton Hero 7th, has left a good mark. Get my prices for females before closing elsewhere. The Sarnia Ranching Co. Ltd. QEO. KINNON, COTTONWOOD, Sask. Lumsden or Pense stations.

SHORTHORNS SHROPSHIRES One yearling "Lavender" bull for sale ounger bulls growing All shearling rams and ewes sold

Will Sell a few good ram lambs JOHN DRYDEN & SON Stations: Brooklin, G.T.R.

Brooklin, Ont. Myrtle, C.P.R.



Glencorse Herd of Improved Yorkshires

Is comprised of stock from the leading Prize Winning Herds of Great Britain and Canada.

Young stock of both sexes for sale. Prices very reasonable.

GLEN BROS.. Didsbury, Alta.

ISLAND PARK HEREFORDS

The Champion Herd at Winnipeg and Brandon for three years. This year won nine first prizes out of ten competed for. At Winnipeg, three championships and one grand championship. A few good young females for sale.

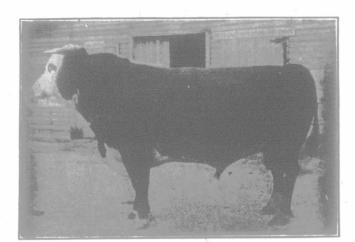
Address: J. A. CHAPMAN, ISLAND PARK FARM, BERESFORD, MAN.

Bellevue Herd of Yorkshires

FOR SALE at present, the champion boar (1906) "Cherry Grove Leadet," winner of first prize at Winnipeg and Brandon Fairs 1907. "Prince II," champion boar at Brandon 1907. Both these boars got by the champion boar "Summer Hill Oak 17th." at.Winnipeg 1905 and Brandon 1905-6. What better record do you want? Boars and sows, all ages, at reasonable prices. Order early if you want any. The best herd west of the Lakes in Norkshire and

OLIVER KING, WAWANESA, MAN.

han was named in description. I young farmers who took the Winter ban was named in description. I course at the M. A. C., but I did not the breeder wrote that the sow learn from them all I should like to



PRIVATE SALE Imported Hereford Cattle

At Lilydale Stock Farm, Halbrite, Sask. 51 head of Females, all ages Bulls, consisting of yearlings and two-year-olds

This Stock was selected from choicest American herds. Have a few Cows and Heifers bred to such noted prize-winning Bulls as Right Lad and Diplomacy.

Diplomacy is the sire of the Second Prize Steer at the International Live Stock Show at Chicago of last year, shown by F. A. Nave, of Attica, Indiana. The noted bull Beau Nash is now at the head of the herd.

Correspondence solicited. Address:

Maslam Land Co., Prop.

W. W. SMUTZ,

Halbrite, Sask.

JOHN A. TURNER, BALGREGGAN STOCK FARM, CALGARY, P. O. Box 472. 'Phone 221A Importer and Breeder of Clydesdales. Hackneys, Shorthorns and Shropehire Sheep.

Will import another shipment of Clydesdale Stallions and Fillies as well as a few Hackneys in October. Orders carefully filled and satisfaction guaranteed. At prices defying competition, as sales speak for themselves. 37 Stallions Sold Since Jan. 1907; also 25 females (registered). Look for Exhibit at the Fairs. Business conducted personally. Anyone wanting a show Stallion or a Filly, can have a greater choice than in any other breeding establishment in Canada. Everyone welcome. Yearly home-bred stallions on hand at present as well as a few older ones.

GOLDEN WEST STOCK FARM

Clydesdales and Shorthorns

Stallions and mares of excellent breeding, of all ages, for sale Also some choice young bulls fit for service and a number of cows and heifers of noted Scotch strains. Many of them Leading Prize Winners at the big Western Fairs.

P. M. BREDT

Regina, Sask.

AT PRIVATE SALE 26 Head of Hereford Cattle



Including SAMPSON, 3074, Champion at Brandon 1904 as yearling; and Females of various ages. Also

50 Head of Grade Herefords

A first-class lot for rancher or mixed farmer.

Will make easy terms or give liberal discount for cash.

H. BING, Glenella, Man.

Canada's **Brampton** Jerseys Premier Herd

Strengthened regularly by importations from United States, England and the Island of Jersey. We have animals of all ages and both sexes for sale, and the largest herd in Canada to choose from.

B. H. BULL & SON, Brampton, Ont.

Long-distance 'phone at farm. Write for prices and particulars.

(not omitting the following items), am sure it would be appreciated by many of your young readers.

begins?

2. Cost of term.

3. Whether students live altogether in the college or board and lodge out? 4. What instructions the term includes?

5. Whether a man of 36 or 37 would find men of like age there? A. E. G.

Ans.—The Manitoba Agriculture College will open for its second term on Tuesday, Oct. 29th.

it will be realized that the cost is com- sion. paratively very low.

students in residence, the third floor string into a bank-roll" is evidently

know about the College. So if you the practice is as old as civilization. It could give an article in your paper describing the winter term at the College (not omitting the following items), I to-day. But in America the laws that have been enacted to regulate it put the 1. What date the winter term question of sport in the background, and declare that its encouragement is "for the purpose of raising and breeding and improving the breed of horses." Without such a legal paradox there could be no book-making on the race-courses; without book-making, which enables those who attend the races to bet on the results, the breeder of horses, the owners of racing stables, and the proprietors of race courses, are all agreed that the sport, as conducted at present and for many years past, could not exist. In estimating the cost per year to a Granting this fact, the easy conclusion resident of Manitoba, board and is that horse-racing is conducted for the resident of Manitopa, board and is that horse-racing is conducted for the lodgings at the College may be placed sake of the gambling, and that the at \$70.00; necessary books, \$5.00; horses are used merely as part of the to \$10.00; laundry bill, from \$5.00 to gambling machinery—as a roulette wheel, for instance. The daily newsof about \$100,00, or possibly more if papers, which give columns and pages the student lived out. When the ad-day in and day out to the reports of vantgaes of the course are considered, the races, strengthen this easy conclu-Much more space is given and much more emphasis laid upon the doings of the "betting ring" than upon With but few exceptions, students the performance of the horses that furprefer to reside at the institution, nish the sport. The reporters, with Last year accommodation was provided great industry and immense exaggeration, tell of the great wagers won and in the Main building for about seventy lost; and the conversion of a "shoe-



ROAN PANSY Two-year-old Shorthorn Heifer, First at Bath and West Show, 1907.

it is hoped will be completed before not fair. Jan. 1st. This building will contain

last year, the average was twenty-one, and as a general thing, the best of them ranging from sixteen to thirty-seven, race for the sport, much in the same way There is no reason why a man of even that they build yachts, play polo, or run forty years should not feel perfectly at automobiles. The money won by them home taking the course.

GOSSIP.

RACING IN ITS RELATION TO HORSE-BREEDING.

by a great variety of people, while the owning of a racing-stable is a busi-

being divided into rooms providing regarded as a greater achievement than accommodation from two to three stud- breeding or training a staunch race-This year a new dormitory horse or riding it to a well-earned vicbuilding is in course of erection, and tory. This conclusion is easy, but it is

Jan. 1st. This building will contain Gambling is the great handicap to one hundred rooms for students and racing—indeed, it is not too strong to provide accomodation for at least two say that gambling is the curse of racing; hundred young men. In the same but racing is a cause of gambling rather building there is being erected a large than the desire to gamble is the cause of dining-room and kitchen, so that those racing. The men who are the most who desire may have living and boarding noted breeders, as well as those who accomodation without leaving the maintain the most formidable racing College campus. Those who prefer to stables, are not in the least prominent room in the city will be at perfect liberty in the "betting-rings," either personally lo do so. More complete information, or through agents. So far as they are however, may be obtained in regard to influenced at all by business considerahese matters be applying to the tions, they race for the stakes and purses. Principal for a copy of the College and for the increased value that success brings to the stallions and mares of In reference to the ages of students their breeding farms; but primarily, is of secondary consideration, though I am far from suggesting that any of them despise the intrinsic value of their winnings. On the contrary, they think ather more of the money value of winnings than is good for the sport. A man does not expect his yacht to pay, or his game-preserves or his country-place, but he does look to the debit and credit side of his racing accounts with a keenness which gives a color at least to the frequently made charge that racing is not a sport, but a business venture. If The interest in horse-racing is felt not a sport, but a business venture.

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marily as a oked upon laws that it put the round, and ent is "for eeding and s." Withe could be ce-courses; h enables

bet on the the owners prietors of that the nt and for ot exist conclusion ted for the that the art of the roulette

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shrewd men of affairs who have acquired

Horse-racing in America has become institutional in its character, and if it were not conducted in a businesslike way, the results would be confusing and disastrous. The men who, as proprietor in keeping up the standard as to speed of race-courses, have taken the purely and stamina. business side, must conduct their affairs in a coldly business way. That in many instances they happen also to be the owners of racing-stables is an inevitable corollary. Not many other capitalists and what were the right proportions would care to risk money in such haz-ardous ventures. Those who do make ing, and the plans depend on the life and such risks are usually possessed of fortune of the breeder, the inexact what we call "sporting-blood." A man science of breeding does not improve as may have this, and still not be what is rapidly as it might under more favorable called a sporting man. A sporting man conditions. Many of the European is one who lives by sport and is a kind of professional. So we designate promoters of the prize-ring, race-course bookmakers, and even common gamblers. A tion in uninterrupted continuity of sportsman, however, is of a different effort to perpetuate desirable horse kind. He is an amateur, a lover of types. The Russians have taken the sport, presumably a gentleman. The sporting men would be only too glad to Orloff; the Germans, for much more than conduct the business side of racing. Wherever they have succeeded in getting control, they have quickly killed every vestige of sport, and placed racing under a legal ban. They killed it effectually in New Jersey, Arkansas, and other States. The sportsmen, however, practice in Great Britain. are in full control in New York and in

not merely a gambling game; it is not in Colorado for coach horses, and one in purely a sport; nor is it conducted sim- Vermont for Morgans. The efforts that ply to improve the breed of horses. But the various governments sanction and it partakes of all of these at once, and assist are always toward the creation the only evil that those in control do not and maintenance of valuable types. In seem able to eliminate is gambling all of these countries where the efforts That feature of it I shall leave to other are to secure horses for military use, the moralists to discuss. The sporting side English theroughbred blood has the needs no more discussion than the busi- first place. It serves to quicken the ness side. Without sport, life would be blood of other breeds, and though it is dull for many people in this world; and an axiom of breeding that nature abhors without business control, not one in a great contrasts, the thoroughbred blood hundred of those who now participate seems to mix and mingle harmoniously and enjoy the sport of racing could do so. But how does racing improve the no matter how "cold"—with the plowbreed of horses, and is the improvement horses of the farms, for instance, or worth what it costs? These are the with the bronchos of the Western plains. questions that seem to me of the greatest importance.

The creation of the race-horse, the England by the mixture of various English thoroughbred, from the Oriental horses—Arabs, Barbs, Turks, and so on. stock taken to Europe from Arabia, As has been said before, he was then a Barbary, and Turkey, is the greatest small horse, and very much the same as achievement in horse-breeding that the modern world has seen. This has been done in answer to the demand that horses should run faster and faster. To advent of the Orientals, he has grown enable them to do this, the horses had to larger, fleeter, and in many regards finer. be larger, or, rather, taller. The Arabs He is still, however, a transformed a century and a half ago were about Oriental. The Oriental blood—Arab, if fourteen hands high, as they are to-day. you choose—is at the base of all repro-The thoroughbred, in the form that is ducing horse types, and therefore when now fashionable, will average quite six-remingled with any of these even though teen hands, so that in the two centuries it comes in thoroughbred guise, it is not of careful breeding he has grown eight entirely heterogeneous, and therefore inches in height measured over the the crossings generally tend to improve withers. Whether he has also increased the less refined blood that is met. in his other dimensions in the same pro-question naturally arises, Why use transportion is another matter. The average formed Oriental blood instead of the thoroughbred, I am sure, has not so genuine? The answer to that is two increased, but the best specimens of the fold. The thoroughbred blood, or transtype are pretty nearly perfect in sym-formed Oriental, is at hand and easily metry. They are not, however, partic- accessible, while the Arab, or genuine ularly useful except as runners on the Oriental, blood is hard to come at. But race-course. They excel in only one the second reason is the stronger; there gait, the gallop, and they therefore are is a prejudice in America agains Arab not particularly adapted to harness blood that no reasoning seems able to The trot of the thoroughbreds is not fast, move. This prejudice is due to the fact and the action is too low to make them that too much was expected in immevery desirable driving horses. This is a diate improvement by mixing Arab general rule, and does not take into blood with that already here and a conaccount a few exceptional thorough- sequent failure and disappointment breds that have trotted with some, if not Had the experiments been continued with great, speed.

cussing the relation of racing to horse- feeling may wear away in time, but its breeding is whether an infusion of thorbreeding is the properties of thorbreeding is the properties of the pr oughbred blood is valuable in the creation and maintenance of other types, and we should be unwise not to use the The race-horse in himself—that is, in his blood. own individual work—is only valuable We have seen that the modern thor-

ness venture, I am inclined to the belief horses by mixing in with other breeds, I that it is a very poor one, and quite the tho oughbred serves only one pur-unworthy of the business acumen of the pose. But his blood has proved to be valuable in every country where it has the wealth that enables them to particibeen used. The American harness pate in such enterprises. It it not at all horses trace bac to Messenger, an Engfair to say that racing is only a business lish thereughore and in their developventure or merely a gambling game, though there is enough of both features to detract seriously from the purely sporting side of it.

Isometric guide there are development there have been other infusions of thoroughbred libed. The Russian Orloff has infusions of thoroughbred blood, and the vistrians. Germans, French, and Italians, in their efforts to breed horses for cavalry and general utility purposes, buy in England thoroughbred stallions and mares to assist

> As to the value of the thoroughbred blood there can be little doubt, though breeders and students have long debated as to how it was best to get the infusions fortune of the breeder, the inexact governments recognize this, and keep governmental breeding establishments, which go on from generation to generaa century, have maintained extensive breeding farms; the Austrians have in Austria, and also in Hungary, several large horse-breeding establishments; the French supply stallions to owners of mares at nominal fees, as is also the

all other places in America where racing ernment has done next to nothing in the In the United States the Federal Govway of horse-breeding, though two Racing is not entirely a business; it is small plants are now in operation—one

Now why is this? The thoroughbred s of Oriental origin. He is created in England by the mixture of various The important thing to decide in disprobably have been different. This

as race-horse. Except as a racer, he oughbred has been created by the never would have been developed in his demand for race-horses. But is racing from and condition. Unless his at present improving the thoroughbred improves the common run of in such a way that the thoroughbred is

A Woman's Remedy

There are times when a woman feels nervous, irritable, and blue. These symptoms are the result of peculiar conditions which indicate the need of a safe and dependable remedy to assist Nature in her efforts to establish healthy action to the organs which directly affect woman's health.

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Beecham's Pills improve the digestion, bring back the appetite, purify the blood and clear the complexion. They have been used by women of every land, with uniform success for nearly sixty years. They are universally re-commended as a mild laxative, an ideal conditioner and

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There are plenty of such jobs on the farm.

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They enable farmers to do their work faster, do it better, do it easier and accomplish more than farmers have ever been able to accomplish before in the history of the world.

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They are the one line of engines that have been perfected and are manufactured specially for farmers' use. The company that builds the I. H. C.

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It can no more afford to let an in-

efficient gasoline engine go out from its shops than it can afford to send out a poorly built or poor working binder or mower. If you will investigate the I. H. C.

engines you will find that they are engines you can depend upon always. You must have dependability.

You will find them economical in

You will find them simple and easy to understand. That is all-important to the man who is not an expert mechanic.

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Bone Spavin, Ringbone, Splint, Blood and Bog Spavin, Thoroughpin, Curb, Capped Hock, especially if of long standing and obstinate will not yield to ordinary liniments or blisters.

KENDALL'S SPAVIN CURE is an extraordinary remedy that gives extraordinary results. It cures old, stubborn cases that many times veterinaries have given up-takes away every sign of lameness-does not scar or kill the hair—and leaves the horse sound and smooth.

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Write for noted book "Treatise On The Horse"—something worth knowing on ry page, Sent free, Kendall's Spavin Cure is sold by dealers everywhere at QL. a bottle—6 for \$5. 33 🐞

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Was Weak and Run Down **WOULD VERY OFTEN** FAINT AWAY

Mrs. J. H. Armstrong, Port Elmsley, Ont., tells of her experience with

> **MILBURN'S** HEART AND NERVE PILLS.

She writes: "It is with gratitude I tell how your Heart and Nerve Pills benefitted me.

"I was very weak and run down, had headaches nearly eyery day and very often would faint away, in fact, my doctor said that sometime I would never come out of the faint. It was through one of your travelling agents that I was induced to try Milburn's Heart and Nerve Pills and after taking three boxes I am glad to relate it has been a number of years since I had a fainting spell and scarcely ever have a headache. Too much cannot be said in praise of Mil-burn's Heart and Nerve Pills, for in me they have effected a perfect cure.'

Price 50 cents per box or 3 boxes for \$1.25, at all dealers, or The T. Milburn Co., Limited, Toronto, Ont.

B. P. RICHARDSON

BARRISTER, SOLICITOR NOTARY PUBLIC Solicitor for the FARMER'S ADVOCATE for Alberta and Saskatchewan. GRENFELL, SASK.

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In Western Canada.

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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.

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has river, rail and road transport ation facilities. The best soil in B.C. Plenty of water for irrigation purbeautiful surroundings.

SUNNYSIDE

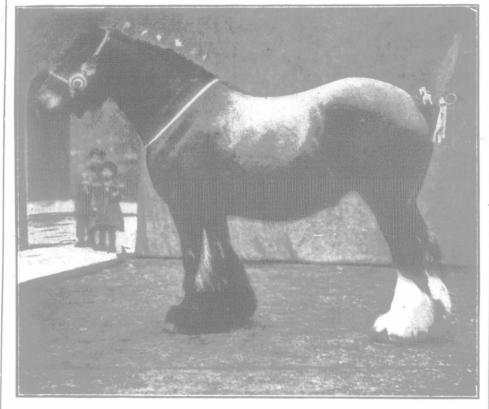
North Temperate Zone, from apples to apricots. No late or early frosts ready to plant your trees on now. We run no excursions, but you can both ways if you purchase. Write two-year-old form. for information to

and owners. A breeder can get a bet- heavy-weights, but for very fast horses month. And the owners and trainers common or basic stock of the country, are only too anxious that the youngsters and departing further and further from winners at the earliest possible moment. These features of present-day racing are, in my opinion, hurtful to the horse interests of the country, and are in the civilized world, and at the same time response to what is a purely commercial given to these types the reproducing demand on the part of breeders and owners. The spirit of commercialism truly called fixed and established. which is so all pervasive in America is not more baneful anywhere than in esting, but it can scarcely be said that as

what we call sport.

made more valuable in the improve- dash—that is, one trial—was looked ment of other types of horses? That is upon as a poor test of a horse's speed a hard question; but I am inclined to and courage, and was regarded as only a believe that the kind of racing that now little better than the quarter-mile races prevails in America hurts rather than of the cross-road country gamblers, helps the thoroughbred as such a means. Heat races are now quite out of fashion, of improvement. Short races and races and the few distance races we have are for two-year-olds are the order of the not popular with owners, as they secure day. This necessitates two efforts on few canditdates. Two miles and a half the part of the breeders and trainers— is considered a very long journey, and I one to get very fast horses for short fail to recall a four-mile race in many distances, and the other to develop very years. I am not pretending to say that young horses to do work that should be some of the star performers of to-day, reserved for their elders. In a race pro- if specially prepared for long-distance gram we will find most of the races at races, would not equal, if not surpass, distances less than a mile, while very the performances of Lexington, Fellowmany of the most valuable stakes are for craft, and Ten Broeck, but I do say that two-vear-olds. These things have come the breeders are not seeking primarily about on the demand of the breeders for horses to go long journeys and carry ter price for his yearlings if the pur- at comparatively short distances. The chasers have chances to make winnings result is that the thoroughbred of to-day and repay themselves within a twelve- is becoming more and more unlike the in their stables should become bread- that parent stock from which he sprung —that parent stock which has been the potential yeast that has quickened the blood of all the valuable equine types in irrigation. quality without which no type can be

The race-horse as such is most intersuch he is economically valuable in any Then again, these short races—comprehensive sense. Unless the sprinting contests—and races between improvement and perpetuation of the



STOLEN DUCHESS

Champion Female, Shire Show, London, 1907. Foaled 1901, sire, Southgate Honest Tom,

he is nearly always too heavy to "make and died without starting as a four-yearthe weights" that prevail at American old. He started fifteen times, and won meetings. He is forced, therefore, to all except one of his races. poses. A southern exposure and general-utility horses; for in such horses of a mile, the longest two and a quarter stamina and stoutness are required miles. The aggregate length of all the above all else. If the racing authorities races Sysonby ran was twelve and one-Will grow anything grown in the wild grow anything grown in the breed of horses, they should increase life-work of the greatest horse of his day, the weights, lengthen the distances, and probably the greatest of this generation. decrease very considerably the number. That he did only this much does not in The finest climate in B.C. Land and the value of the two-year-old stakes, the least prove that he might not have all cleared, free from stones and One mile should be the shortest race done ten times as much; but this was permitted, one hundred and twenty presumably, all that his owner thought pounds the lightest weight allowed, and it wise to ask him to do. Now he was come any time after your seeding two-year-olds should not be asked to the best-incontestably the bestis done, and we will pay your fare run until in August or September of the at a time when there were many that

two-year-olds, have a tendency to give racehorse works a value to the common most of the mounts to very light-weight stock of the country, there is no reason riders, with the consequence that the why the public should concern itself to majority of jockeys are mere children, preserve a sport which carries so many who really ought to be at ordinary com- ills in its train. Let us glance a moment mon schools instead of in the place of at the life-work of the most famous racestar actors in this severe and strenuous horse we have had in America during the game of sport. When a youth gets old past decade. I refer to Mr. Keene's enough to ride,—that is, when he is Melton colt, Sysonby. This colt ran approaching manhood, or has reached it, only in his two-and three-year-old forms retire or to go abroad, where the stand-nings in two years aggregated \$178,190, ard of weights is heavier. A horse that and as Mr. Keene does not bet on the cannot carry at full speed the weight of races, this aggregate represents a total a light-weight man is not likely to be of the owner's winnings. The shortest valuable in improving the breed of race in which he started was five-eighths were considered first-class. What In the time of our fathers in this coun- should we expect from a merely average J. T. ROBINSON,

try, one-mile, two-mile, three-mile, and racer, what from one that was only four-mile heats were common. A mere fairly good? Such facts do not inspire

British Columbia Fruit Lands In the Famous Kootenay Valley

have, without doubt, the finest Fruit Lands in the Kootenay Valley, known as the Waterloo Lands, which are situated about 22 miles southeast of Nelson at the junction of the Columbia and the Kootenay rivers, three and a half miles from Castlegar station, only half a mile from Waterloo siding. This land has a frontage on the Columbia river of two and a half miles. Soil A 1 for fruit and vegetable raising, and requires no

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Veterinary Adviser describes and illustrates all kinds of blem-ishes, and gives you the information you ought to have before ordering or buying an kind of a remedy. Mailed free if you write. FLEMING BROS:, Chemists, 45 Church Street, Toronto, Ontario

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5 acres under the very best of cultivation and 13 acres almost ready for planting.

not an acre bearing strawberries.

500 raspberry bushes. 150 apple trees. 50 cherry trees. All the very best varieties.

Last year 41 TONS of finest tomatees were raised from half an acre of new ground on this sunny property and marketed at good prices.

Small frame house and good frame

barn. \$100 per acre on easy terms.

Wolverton & Co. NELSON, B.C.

FUJI WICKO SAFEITA N

the homespun folk of the farms, who, after all, are the horse-breeders of the country, to place much faith in the value that is to be expected from the modern thoroughbred in the desired improve-

And this common stock must be grad-

The agencies that are competing

ually but radically improved to make it profitable to those who breed and raise

with the horse are always being

improved, and will surely become per-

manent. None but a good horse pays

UNDED 1866

loubt, the is in the n as the e situated of Nelson umbia and ree and a ir station, Waterloo 1 frontage wo and a fruit and

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13 Main St. nnipeg, Man.

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now, and good horses are not so numerous as is the demand for them, while the price for high grade horses for saddle and harness is greater than ever before in the history of the country. This increase in price is due, on the one hand, to the scarcity of good horses, and, on the other, to the increased demand for them, and not a little, no doubt, to the rise in prices of every kind. It is an interesting period, therefore, in which to reform the racing methods so that the thoroughbred may be more valuable in assisting the farmers to breed the kinds of horses that are in demand in the

ment of the common stock.

The use of the thoroughbreds to improve other American types is not an experiment the result of which is doubtful. We have two distinctly reproducing types in this country, and one type that is recognized as a type by the very great majority of Americans. The unquestioned types are the Morgans of Vermont and the Denmarks of Kentucky. The quasi type is the standardbred trotter. All three of these types owe very much, if not all, of their merit and prepotency of reproductive capacity to the thoroughbred, or to the Oriental blood that came through the thoroughbred. The founder of the Morgans of Vermont was Justin Morgan, who is said to have been sired by Colonel DeLancey's thoroughbred True Briton (also called Beautiful Bay and Traveler) out of a mare called Diamond, also a thoroughbred. If this pedigree be correct,—and though I do not believe it, I cannot disprove it, —Justin Morgan was rich in the potential blood of the Darley Arabian and the Godolphin Barb. Pedigree or no pedigree, Justin Morgan certainly had a large quantity of the prepotent Arab blood, whether he got it from horses more recently from the desert or by means of the thoroughbred ancestry that was recorded half a century after his death. He looked like an Arab, acted like one, and bred like one. But whatever be the truth, whether Arab or thoroughbred, he established a great type—a type that has always been improved by some thoroughbred out-crosses and marred by most others. This fact is conclusive evidence to practical breeders who believe in the axiom, that "like beget like," that there was thoroughbred or Arab blood in the founder.

The famous Kentucky saddle-horse is ghbred origin, Denmar founder having been a successful race horse that won at four-mile heats. He was begotten by imported Hedgeford out of Betsey Harrison by Aratus. This is the most useful and symmetrical saddle-horse in the world, and the breeders of this type are constantly putting in fresh infusions of thoroughbred blood The utility of the race-horse in creating and improving this breed is so well known that it need not be discussed.

The standard-bred trotter, which I call a "quasi type," in fear and trembling of the wrath I am sure to provoke, traces back through Hambletonian Abdallah, and Mambrino to the imported thoroughbred Messenger. every one of the trotters so descended that has gone phenomenally fast there have been one or two or more infusions of thoroughbred blood since that which

came from Messenger. The same has been proved abroad In every one of the great governmental studs, new thoroughbreds from England are being constantly introduced, and when one of these Continental countries, even Italy, desires a stallion, the best specimen available is bought, regardless of the price that has to be paid. That policy is in striking contrast to that being pursued by the United States Government in its efforts to create one type of horse and revive another. Until Tily this Government has never done to encourage horse-breeding. urchaser of horses for the army it ays been niggardly. The specifissued for cavalry and artillery

DOUBLE YOUR DAIRYING PROFITS WITHOUT BUYING A COW

CUPPOSE somebody offered to swap a blueribbon, prize-winning milker for any cow in your dairy-herd, - without a cent to

boot? Wouldn't you

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

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

Cream Separator

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

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

And I will not only show you why and where and how the Capital gets that extra profit for you, but-I will show you in plain word how you can make that profit with a fraction of the work you have to do to-day to get half as much. That is where my plan for SELLING butter and cream comes in,—my plan specially devised for your special case and your special locality, and which you can work yourself without sharing the profits with anybody.

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

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



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

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



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

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



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

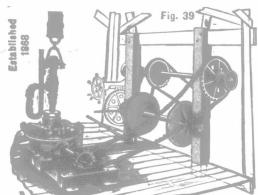
The National Manufacturing Co., Limited 123 Mail and Empire Building, TORONTO, ONT.

excellence and symmetry—horses worth hundred dollars a head. Then the contracts are awarded to men who agree to supply the horses at from \$150 to \$180 a head, and who also expect to make money. And very likely they do. But the Government does not get the horses contracted for as described in the specifications. Recently, however, a few mares and a stallion have been established in Colorado with the idea of creating a reproducing type of coach horse. This is what we have never had in America; our coach horses have rarely been the result of design—they have with the idea of reviving this very useful tion. So we need not despair of the rarity.

idea of the great, rich American repub- multiplication in this country. House Committee on Agriculture. The equivalent infusion.

horses describe animals of superlative and beautiful breed. But the policy of experiments so meagerly begun. Now the Government has been so niggardly in these horses that are being experiat this time in any market six or seven that the officers in charge of these exper- mented with it is the thoroughbred iments have never been able to buy blood that gives them their quality. If what they wanted, but have had to be it were not for this consideration we content with what the small appropriations enabled them to pay for. The of foreign types and stimulate their lic, when conducting an experiment these types—the hackney, the French for the benefit of the people, buying second and third-rate material instead will never be content. They want of the very best would be laughably better-bred horses, -horses that find absurd were it not humiliating. This no road too long, no pace too fast. cheap policy has been due to the timid- Such we can get only by using our ity of the Department of Agriculture own basic stock, reinforced from time to and the hostility of the Chairman of the time by thoroughbred or some other

merely happened. And in Vermont a Department may gain in courage; the few Morgan mares have been established Chairman has been defeated for reelection this country would soon become a



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The American Well Works,

Wit and Humor.

HE CALLED HER "DEAREST."

Shortly after Mrs. Frances Hodgson Burnett's book,, "Little Lord Fauntle-roy" appeared she went with her two little boys to a seaside hotel. The story had made a great sensation, and there had ensued a regular epidemic of Faunteroy curls, Fauntleroy suits, and Faunt- Crazy people never act together, leroy youngsters. In the room next to declares the superintendent of a large hotel. Anticipating the arrival of the look upon it as no affair of theirs, and famous author, his mother had pur-simply watch it out. The moment we chased a complete and elaborate Faunt- discover two or more inmates working leroy outfit, with which she proceeded together we would know they were on the to deck out her unappreciative and road to recovery." It is on this account rebellious offspring.

ing, the woman desired to complete the attendants does not have to be large. caricature by compelling her precious child to address her as "dearest," after the manner of the hero of the book, instead of "mommer," or, more frequently, merely, "say," as he been his preparing to attend. previous custom.

Mrs. Burnett arrived no sooner than she had been expected, but apparently before little Johnny had entirely com- for the Cattle Show. pleted his course of instruction in filial courtesy, as was evident by the sounds which penetrated the thin lath and plaster partition between the rooms. This was what Mrs. Burnett heard:

"Johnny!"

Silence. "Johnny, do you hear me?"

"Call me 'Dearest!'

"Will you call me 'Dearest,' or shall make you?"

"Yer can't make me."

"Yes, I can. Call me 'Dearest!" "Go terblazes!"

"It's a good sight better'n what you want me ter sav "It isn't. Call me 'Dearest!"'

Silence. strap? Call me 'Dearest!"

"Call me 'Dearest!"

Silence. Biff-biff-biff! Call me 'Dearest!"
"I won't!" Biff "I won't!" Biffbiff! "Ouch, you hurt!!"
"Then call me 'Dearest!"

"Oh, all right, then, Dearest."

"Now, see here. If you don't remember to call me 'Dearest' at dinner tonight, I'll wallop you within an inch of your life, you ungrateful thing!"

Sydney Rosenfeld, adressing the I'd like to ask fair Phyllis American Dramatists' Club at the din- To share my humble le ner given by Charles Klein in honor of But eggs are thirty-five now, Henry Arthur Jones, told of his experiences while trying to find a manager who would produce his play, "The I wish to wed sweet Phyllis, Optimist.'

"I don't think much of the title," was the first manager's protest.

"Do you know what it means?" ask- So I refrain from asking, ed Rosenfeld.

"Certainly," was the impatient I'd like to marry Phyllis, answer. "An optimist is a man who looks after the eyes and a pessimist is

This recalls Wilton Lackave's remark when asked if he had found a manager to produce "Les Miserables.

one who attends to the feet."

answered. "Why, I haven't even the train, was the cause of enlivening the

DIDX'T LIKE THE TASTE. - He found his hair was leaving the top of his head, and took his barber to task about it.
"You sold me two bottles of stuff to make this hair grow.

"Well look here," said the man, "I cause of her anger with the surry; don't mind drinking another bettle. What were you running for? The asser, but this must be the last," Wesleyan was "For my health." Philor part Christian Advocate. Atlanta

COULD USE THE OTHER KIND. TOO.

"Here," said the saleman, "is something we call the lovers clock.' You can set it so it will take it two hours to run one hour.'

"I'll take that," said Miss Johnner with a bright blush. "And now, a you have one that can be set so as to run two hours in one hour's time or less, I think I'd like one of that kind too.'

that there are so few concerted mutinies Not content with this outward seem- in insane asylums; so that the number of

"Well, Sam," said the wife of a prosperous landowner to her rustic protege your master and I are going up to town

"Oh," replied the boy, "I'm sure I hope yeou'll take the fust prize, 'm-that I dew."—Ladies' Home Journal.

The ready wit of a true-born Irishman, however humble his station, is exceeded only by his gallantry. A gust of wind took a parasol out of the hands of its owner. An Irishman dropped his hod of bricks, caught the parachute in the midst of its ascent, and presented it to the owner with a bow

"Faith, ma'am," as he did so. "If "Go terblazes!"

"That's no way to speak to me," it wouldn't have got away from you."

"Which shall I thank you for first," asked the lady, "the service or your compliment?"

"Troth ma'am," said Pat again, "Do you want me to use the trunk touching a place where once stood the brim of a hat, "that look of your beautiful eyes thanked me for both.

WHY HE DOESN'T.

I so admire fair Phyllis My love I would rehearse, And ask her if she'd take me For better or for worse.

But when I read the papers I'm scared almost to death or butter's thirty-three nov It takes away my breath.

To share my humble lot, I'd really better not.

But then there is the rent, I know I can't afford yet A handsome fire-proof tent.

But prices are so high.

A man running toward the Reading Railway station, in Germantown, on "Found one to produce it?" he Saturday, as if in great haste to make gait of a number of other pedestrians bent on that purpose, among whom were several woman who fancied they were late for the train. As the latter wore shoes of the cramped pattern, known as be imagined. When, breathless, they a paper, with ten minutes margin before

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The Acme style you see above costs only from 16 cents a linear foot. Handsome and durable for lawns, parks, cemeteries, etc. Any height or length. Gates to match from \$2.25. Write for catalog, or inspect this ideal fence. From us direct or any Page dealer. The PAGE Wire Fence Co., Limited Walkerville Toronto Montreal St. John Winnipeg at a

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MEN, IT'S FREE!







knows that there ought to be something which will restore that old "steam" to his physical body. He has tried the usual drug method body. He has tried the usual drug method and found that a fizzle, and yet he knows there must be something.

I know it, too, and I've got it. It's Electricity. You can't name anything more likely to have that force which a weak man lacks. It's a natural power. I can

while he sleeps and make him feel like a Sandow in no ne. It's the spice of life. So get the book if you want to be stronger.

FOUND MY CLAIMS FOR MY BELT TO BE TRUE. McLaughlin: Nipissing, Ont. Dear Sir.—I have worn your Belt for two months steady, and must say that it Dr. McLaughlin: has done me an awful lot of good. I am well satisfied with the Belt, and I have found what you said about your Belt to be true. I will give your Belt all the praise that it deserves. Wishing you every success, I remain, yours very truly.

WILLIAM BYERS.

If you are sceptical, all I ask is reasonable security for the price of the Belt,

Dr. M. D. McLaughlin

112 Yonge St., Toronto, Can. Please send me your book, free

PAY ONLY WHEN CURED.

CALL TO-DAY - FREE BOOK-Free Test and Consultation. If you can't call, write for beautifully illustrated 80-page book.

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SEPTEMBER 11, 1907

THE FARMER'S ADVOCATE



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W. O. WRIGHT, Managing Director Kettle Valley Irrigated Fruit Lands Co.

Winnipeg Agents: B. M. Tomlinson & Co., Edward Building opp. Eaton's, Winnipeg, Man,

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Orchard and Garden **Homes at Fruitvale**

B. C., West Kootenay, for \$10 down ing to the Province on application. and \$10 per month for 10 acres.

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If our land and whole proposition is not exactly as we represent it. You can make from \$400 to \$700 per acre annually growing fruits and market gardening. Every tract is either level or gently sloping. The soil is loam with clay subsoil. Free from rock. Ample rainfall. Fine healthy climate. Cool in summer. Zero weather in winter practically unknown. No early or late frost danger. Plenty of timber on each tract for buildings, fences and fuel. Each tract fronts on a road, and every tract within half a mile of main line of R.R. Title is perfect. We own one fifth of the good land in the whole Kootenay and make these terms so that you will be able to use your surplus funds imto use your surplus funds im-ur land. We refer to three of t Banks in Canada. Write quick ter and testimonials of settlers

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Nelson, British Columbia

- McKILLIP -Veterinary College

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ALBERTA AT THE NATIONAL.

The "Globe" in the course of its reviews of the displays at the Canadian

to say of the Alberta showing. interesting places of the world, and the vincial Legislature, was an act incoreyes of all Canada is on this lusty young porating the B. C. Veterinary Association of the west. The exhibit of the tion. The incorporation of this society some Brome grass is six and one-half school, or at some college where degrees native and tame grasses are in the sum of money. exhibit. These and the splendid alfalfa An Act to Protect Horse-breeders. card showing the exhibits.

in the north of Edmonton.

by Mr. Frank Peterson. Any Secretary come into effect before many years.
of a Board of Trade in Alberta as well

An Act to Aid the Establishment of a Deputy Minister of Agriculture Provincial and warmest valley in Southern will be pleased to send literature relatture, in its wisdom, decided, at its last

SOME "HOWLERS."

Present," a journal for old and yourg scholars of Friends' Schools, there is a long and "absolutely genuine" collection of "howlers." We quote a few specimens:

A long time ago England was once a foreign country.

The Britons painted themselves with wood, and son etimes came out green. Clive had to blow himself out in

didn't explode.

into the middle of the road.

at the age of five by shooting at it on a was made for the employment of experts piece of string.

people to South Africa. the ceal is finished we shall have to use entirely upon irrigation for the success our brains for fuel, and it will be scarce. The potato is not only used for feeding pheasants, but gees to more important things, such as whiskey

mountains is to go round them. have you done we ate our dinner sitting on temb- you last week?

stones which consisted of a pork pie and ginger beer.

work he goes elsewhere.

AGRICULTURAL LEGISLATION FOR

Veterinary Association Incorporated. National Exhibition has the following -Among other legislation of importance to the farmers of British Columbia, The Province of Alberta is one of the passed at the 1907 session of the Pro-Alberta Government in the Railways enables the authorized and qualified building at the Canadian National verterinarians of the Province to pro-Exhibition is a center of attraction to tect themselves from the competition every visitor, and the arrangement of and incompetent services rendered by the various grains, grasses, coal and quacks and other unqualified persons other products of the "last west" has claiming to be veterinary surgeons. been made with a view to satisfying the In order, now, to practice in British public that Alberta is all she claims to Columbia as a veterinary surgeon, it is be, a great and progressive Province. necessary to register, and in order to Among the exhibits are grains, grasses, register it is necessary to be a graduate clovers, coal, brick, stone, sugar, etc. of a recognized veterinary school or The bulk of the grain exhibit and all the college, where the regular corriculum is grasses are this year's growth. Sam- not less than three sessions of six months bles of oats are shown that have run as each, or, in lieu of this, they must have high as 110 bushels to the acre, and some been in regular practice in the Province wheat 60 bushels to the acre. The for five years prior to the passing of this sheaves of grain and imitation wheat act. These regulations will protect fields are specially pleasing to the farm- the farmer against the fraudulent or ers, who like to see the wheat and cats unqualified services of the so-called in the sheaf, just as they appear on veterinarians who have gained their their native soil. Flax is shown that knowledge and experience by taking a ran seventeen bushels to the acre and six-months' course at a correspondence feet high. Fully forty varieties of are obtainable in exchange for a small

is proving of wonderful interest to the Legislation was enacted at the last visitors, and every interested person session making it necessary for the given a sample of Alberta grain in an owner of any stallion standing for proenvelope, also a private picture post- fit or gain to post up copies of certificate of such stallion issued by the Provincial Alberta is great, not only in its grain
Department of Agriculture. The certiproducing qualities, but in coal, coal ficate above referred to will state oil, marl for cement, natural gas, etc., whether the stallion is pure-bred, and and soft coal is so abundant there that registered. If not registered, whether it practically lies under every foot of one of its parents is pure-bred, or land in the whole Province. In many whether from pure-bred parents of cases all that a farmer who lives near a different breeds. This act also allows river has to do when his coal supply the owner of a stallion to register a lien runs short is to step to the river bank against the offspring of said stallion, any and help himself to coal from the sur-time within 12 months after the service This is one of the splendid fea- of such stallion, and the same will contures of Alberta, and the immense coal stitute a first claim on said offspring. beds in that Province will be made more If payment of the service fee is not made and more productive as the country con- before the first day of January in the inues to fill up. The natural gas is year following the year in which the colt another fine advertisement for Alberta. is born, the owner of said stallion or his The gas can be used for heating, light- agent, may at any time before the first ing and manufacturing purposes, and at day of May following, take possession Medicine Hat natural gas has been used, of said colt or filly, and sell same at pubfor several years. Calgary is now bor- fic auction, after ten days' notice has ing for gas, and it has already been been given to the person in whose posfound north of Edmonton. Ccal cil also session the said colt is found. This act has been discovered in Alberta, and wells comes into force on the first day of are now being operated in Southern January, 1908. The question of exam-Alberta, near Pincher Creek, as well as ining stalling for hereditary unsoundness, and issuing certificates accord-Mr. E. L. Richardson is in charge of ingly, was considered, but was not the Government exhibit and is assisted adopted, although it will doubtless

session, to set aside two million acres of land for the endowment and support of a university. The act states that this university shall be non-sectarian, In the February number of "Past and and strictly secular. It authorizes the maintenance of Faculties, including Arts and Science, Medicine, Law, Applied Science, and such other degrees as may be determined by said university If the land is selected in some locality where it is likely to increase in value, the revenue from this land should go a long way towards the maintenance of such an institution.

The foregoing acts were probably India, but, fortunately for England, it the most important from an agricultural standpoint. Beside these, however, The Anglo-Saxor s had no drains, and were several amendments to agricultural so used to disperse their broken vitals acts, of more or less interest to farmers such as: Amendments to the Dyking The Spartans had to get their living Act; Line Fences and Watercourses; the Spartans had to get their living the Land Laws, etc. An appropriation southampton is noted for exporting to investigate the irrigation question and report. This is an important matter, as a large part of the tillable land Englar d has much coal beds. When located in the mountain districts depend

The easiest way to cross a range of Mr. Tyte-Phist- More money? What have you done with that dollar I gave

Mrs. Tyte-Phist That in the sav-A tramp is a being who goes about in on it till next January. I will another search of work; when there is a chance of dollar to run the house on in the meanwork he goes elsewhere.



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acres, more or less.

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

tituate.

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

(2) If the father (or mother if the father is ieceased) 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.

Ottawa of intention to apply for patent.

W. W. CORY,

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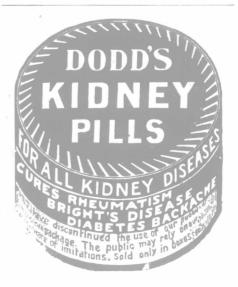
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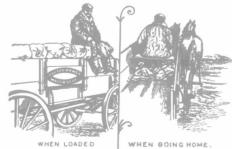
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SEPTEMBER 11, 1907

WINNIPEG MANITOBA

VOL. XLII, NO. 781

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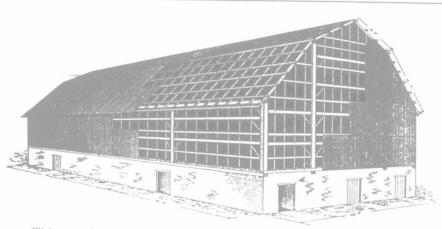
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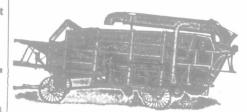
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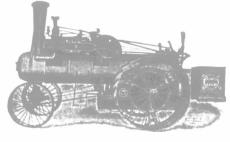
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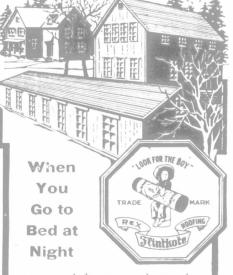
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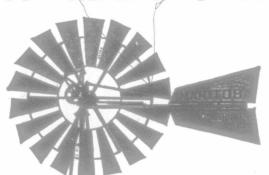
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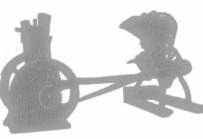
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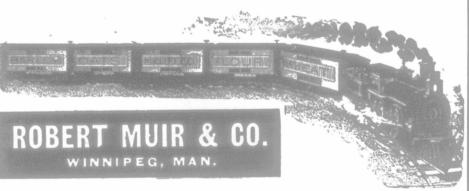
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Farmer's Advocate

and Home Journal

Sept. 11, 1907

WINNIPEG. MANITOBA.

Vol. XLII. No. 781



Knowing How and Doing It.

There is many an industrial institution that goes down because it is not able to get enough capital to just pull it through a crisis. The man who is always just a little behind with his work is quite familiar to us and we have all of us wondered that if we turned in and helped him to catch up, how long he would be apace with his work. It is a safe guess that the next day even if it were Sunday would find him in the same hurry. whose letter we quote.

EDITOR FARMER'S ADVOCATE:

"I see an article in your issue of August 14th headed "The Eternal Bugbear." Now I am afraid you have not quite grasped the situation. The trouble is not so much that farmers do not understand annoyance to his friends. the necessity of getting rid of weeds, as it is owing to the small profits in farming. We often have fields of themselves the question: will it pay me to take a grain we know should be plowed up but we have payments to meet and we must get what we can out of the crop to meet them, although we know it is not

"The so-called business men of this country and Eastern Canada seem to think the farmers of the save money? The writer well remembers when West are making large profits, a great mistake, which some twelve years ago, he analysed the situation I know from twenty-six years' experience.

other manufactured goods and labor have got to such an enormous price that farmers have a hard time to make a living except on new land, so you will find thousands of farms in good localities for sale because living. I have been discussing this weed question an actual owner and manager of a farm it is with quite a number of our best farmers and they doubly true. seem to think the same.

labor to do a thing so well that the extra time should result from the work. These days are him to make. The courses are and should be crop on the southern side of the province from a testing men's ability to farm and those who know just when enough work has been spent upon sufficiently attract and effectually uplift the farm from ten to fifteen bushels to the acre. On the a certain job, or a given piece of land to make it yield the maximum profit overwork performed at the present cost of work, are the men who will be and are marked as the "successful" farmers. In fact, it is in their ability to tell how much is enough and what too little work upon their land that the secret of their success lies. There is in the management of every farm a certain imaginary limit of expenditure of time and labor below which if a man stops the returns for his crop will not pay for the little work he has already done, him a key to unlock the mysteries of agricultural grass. This condition prevails all over the stock and above which up to another certain point the extra work done represents varying degrees interest, and is fraught with far more real, sub-cattle trade is beginning to feel an easy tone. of clear profit. Nor does this success depend solely upon the bulk of work done. The doing farm boy say that if he were going to be a farmer cheap beef to make up for dear wheat and while of work just at the right time, and that by the way is generally just before the average man or theology, so that he might have an interesting Canadian ranges is fully fifty per cent. short of does it, often effects more good than considerably hobby to enliven his life-work. If that lad would what it was in 1906, still the ranges and feed belts more work done at another time.

necessity. Men are too ready to say "good pleasure.

in knowledge of what should be done, but we are expenses, and seven months for each of two certain that there is not an over supply of natural winters is a short time to spend, considering the knack for farm management.

Making a Choice.

column, as to the nature of the course at the All of us at times are rushed a little beyond our identical with that being asked by many other will never regret it. The college course and colpace, but the average man usually manages to young men. The complexity of the problems of lege life will enlighten, inform and broaden you keep his work in line. These remarks are anent life always impress a man as he gets on in years out. It will make you a better farmer, a better the point raised by our correspondent from and comes in contact with them. Few men husband and father, and a better citizen of the the man who has not expressed such a wish is troduce you to the larger agricultural outlook of nursing in his system a most colossal self-satis- the world at large. Will it pay? Ask those faction that is not of any use to himself and an who have been there.

There are many young men who have asked course at an agricultural college? Will I be better off financially and socially if I spend two winters and probably three hundred dollars at the college than if I stayed at home and work and with relation to his own prospects and decided "The cost of humble farm implements and all then that for the man who had a living to make with his hands that a better use could be made of his strength if his brain were able to lend more help. The conclusion has proved to be sound the owners know they cannot clear them and make a from the standpoint of a hired man, from that of

Luckily this is not simply theory. We have change his mind on that score. He would make But while the season illustrates the law of

enough" because of the extreme generosity of But why multiply arguments? Surely most the soil in the past, and of the tendency upon the of the farm boys of Canada who expect to engage buyers of stock to discriminate against the man in the noblest and one of the most difficult of all who raises the best, but this policy is responsible callings have seen enough and heard enough to for the unfarmlike condition of many of our convince them of the wisdom of taking a twofarms. There may be a deal of truth in what our years' course in a good agricultural college. Two correspondent says, that farmers are not lacking or three hundred dollars will defray the necessary advantages to be gained. In the American Republic the attendance at these courses is increasing by leaps and bounds. Will Canada lag behind? Where hundreds now attend these institu-The enquiry of one of our readers, in another tions, we should have thousands. Sit down, young man, and think it over, and then send in Manitoba Agricultural College, is no doubt your application early and secure admission. You there are who have not wished that they had neighborhood and of the nation at large. It will a larger theoretical knowledge of their work and lift you out of the neighborhood groove and in-

Meat Inspection.

On the first of this month the Dominion Meat Inspection Act came into force by the provisions of which expert meat inspectors are placed by the Dominion Government in every abattoir throughout the country. The Meat Inspection Act was framed to prevent in Canada a repetition of the abuses that were charged against the Chicago packers, and the arrangement is welcomed alike by public and packers. The latter can now put their product out with the enhanced value and prestige that "government inspection" gives to it and the public feel more secure from danger of contamination through diseased meats.

The Season's Compensations.

The dampness of the season is not without its For the average bright, level-headed Canadian compensations. In Alberta where often crops We think we understand that there are a lot of farmer's son, equipped with a fair public-school are short and grass dry for need of rain they are men who do not believe that "whatever is worth education—all the better if he has spent a year or reaping a large harvest and cattle were never doing is worth doing well," but we disagree with two in High School as well—we believe the ques- seen to do better. Further east one of the chief them. At the same time we understand that tions asked may be answered without hesitation causes of fear is that the grain will ripen too fast it is an easy matter in these days of high priced in the affirmative. However, no worthy ex- for the want of a few showers. This year student would think of gauging the benefit merely moisture has not been lacking. In Manitoba spent upon it makes away with the profit that by the extra money his college education enables the rains of late July and August saved most of the practical, for only a practical curriculum can total failure, and put in the fields a promise of boys of the country. The worth and dignity ranches the cattle needed just such a season as of practical knowledge is very properly exalted, we have been having. There was a lot of depleted but the greatest benefit from a useful education vitality to be regained and the rains kept the is not the dollars and cents there may be in it, grass green and abundant, long after it usually but the mental and manual discipline developed has become brown, yet not so soft that stock in the student, the intelligent interest aroused in would not ripen up. The range cattle have made his life-work, and the opening of his eyes to the up more than could have been expected of the vast field of knowledge about him-a field which weight, numbers and vitality that they lost last his course, so far from exhausting, merely qualifies winter, and the dairy farmers of foothill province him to enter and explore in after life. It gives have benefited by the persistent springing of new science, which rivals astronomy in its fascinating raising country north and south and already the stantial benefits to mankind. We once heard a People are heard to remark that there will be he would want to take a course in astronomy the numbers of cattle that will come off our take a course in an agricultural college, he would to the south are turning off large consignments.

the "successful" farmer in every community, a hobby of his occupation. His problem would compensations it also emphasizes the wiscom of His farm is the most free from weeds, his crops be how to master the intricacies of soil chemistry diversity in farming. The man who has been the largest, his stock are generally just a little manures, fertilizers, the life-histories and means of less worried about the drouth first, the rain next, above the average, his fences in repair, his combating weeds, insects and fungous pests, plant and the frost last, ruining his crops, is the man buildings neat and trim and everything about breeding, selecting seed, farm forestry, and a who is not a specialist in any one line. Lan that the place reflects the presence of a directing mind. thousand and one other lines of practical research, is given a chance to do several of the thing it is If we were to be asked why there are not more now so generally neglected. It would tend to keep capable of doing, and also permitted to do hese of the "successful" type of farmers in the him out of ruts of practice, make him a progress- things in turn will give a better account of tself country, we would say that the habit of comive, thinking farmer, and stimulate a joy and than if it is kept doing one thing under all onpromise becomes too prevalent and the art of interest in his work. Work would become a ditions of climate, and this not forgetting the good farming has not yet become an imperative pleasure; and when work is a pleasure, life is a greater amount of work involved in so handing

HORSE

Lameness in Horses.

(Continued.)

A SPRAIN OR STRAIN.

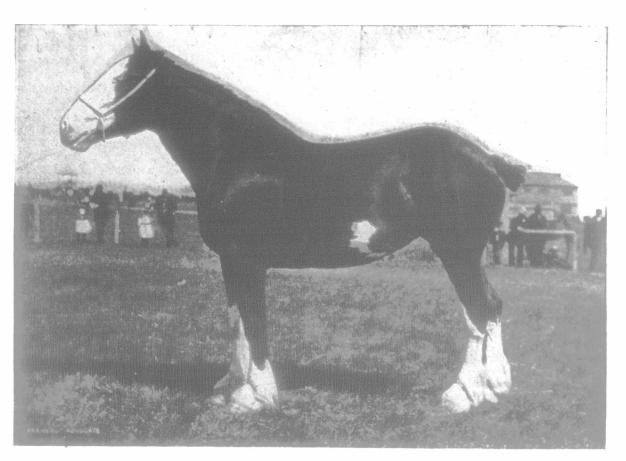
practically merely a bruise, while violent and stage of the lesion. excessive extension may rupture the whole structure of the part. Extension is not always the cause of a sprain; a muscle may be sprained by the opposite condition, viz., violent contraction, by which the fibres may be broken across or the tendonous fibres torn, from their attachments at either end of the muscle. Sprains produced in this way are sometimes noticed as the result of the violent contractions of the muscles we notice when a horse is being thrown with hobbles or side lines, or by violent efforts to loosen himself when down; in vain efforts to regain his feet when halter cast, etc., etc. Sprain may be confined to the sheaths or fibrous coverings of the muscles (each individual muscle having a separate fibrous covering called a sheath), but these are of minor importance compared with sprain of muscular fibre tendons or ligaments. Sprain of muscles or tendons are found in various parts of the body or limbs. A horse may sprain the muscles of his neck by falling on his head. If the fall be severe, the sprain may be complicated by injury or even fracture of some of the bones of the vertebra, and this may cause sudden death. The muscles of the back may be sprained by the hind feet slipping forward. When a muscle is sprained, the accident is succeeded by pain, swelling, heat, and loss of function. An inflamed muscle cannot contract properly, the loss of contractile power being in proportion to the severity of the sprain; hence, in some cases the symptoms simulate those of paralysis. The swelling of an inflamed muscle is very often succeeded by a loss of substance, a wasting away, called atrophy; and sometimes by fatty degeneration of its fibres, whereby they lose their red, fleshy appearance and assume that of whitish threads of fat. When examined by a microscope, the contractile tissue, called the sarcous elements, is seen to have been replaced by glistening oil particles, so that the function of the muscle is temporarily completely destroyed. If the whole muscle is involved, its contractile power no longer exists. This loss of power will, of course vary according to the extent of the muscular Breed Societies, and the growth of the show structure involved in the primary lesion.

Atrophy of muscular fibre, and consequent fatty degeneration of its contents (probably better noticed in cases of sweeny than in other their own stock. sprains), is often due to pressure by an inflammatory exudate (which occurs to a greater or less extent in all sprains), formed in the spaces of the connecting tissue. It is well to remember this, as it teaches us that the sooner an exudate can be removed, the less probability there is of degenerative changes taking place in the true muscular elements. The changes taking place arising from sprain or other causes, are: First, swelling, caused by congestion of the vessels and the exudate that is thrown out into the tissues as (Weatherby's) had then been in existence for a result of the same. Second, atrophy, or a many years. Another light legged breed which wasting away of muscular tissue, from the pressure of this exudate upon the muscular fibres, and one was the Hackney, noted for its knee action— Association of Canada are certainly entitled to from loss of function. It is a well-known fact that if, from any cause, a muscle does not perform writer called it. The Royal Agricultural Society in inducing the council of the Scottish Associaits functions, it will gradually become smaller instituted a class for them at its 1848 show, but tion to give registration numbers with the export from inactivity. If this want of function be it was not till 1883 that the Hackney Horse certificate in case of animals coming to this accompanied by the pressure noted, the atrophy Society was founded, and it is during the twenty- country. It was a good deal to expect from a will be more speedy and better marked. Third, four years that an annual show of the breed has people so generally considered conservative of

Treatment for sprain depends to some extent discovered upon the seat of the accident and the tissues involved, but the general treatment may be said breed to be: First, locate the lesion, give rest, make com- been the fortable in a box stall, if possible; give a slight named purgative, as 6 drams aloes and 2 drams ginger, improve

"WHIP."

and feed lightly. If the sprain be very severe, like Bakewell, followed it up, and many pedigrees causing complete loss of power of a limb or limbs, can be traced back nearly one hundred years. it is well to place in slings. Bathe the affected Still it was not until 1883 that the Shire horses parts long and often with hot water, and, after had their own classes at the Royal Show, but a bathing, apply an anodyne lotion, as I ounce band of enthusiasts were working for the breed. laudanum and 4 drams acetate of lead to 8 ounces and in 1877 the Shire Horse Society was estabwater, until the acute inflammation and soreness lished, and in 1880 the first London Show was has disappeared, then change to cold water and held. The entries on that occasion numbered camphorated liniment. If the lameness is per- 110, and they have since reached 860; but, to sistent, apply a smart blister, as 2 drams each prove the carelessness as to soundness which biniodide of mercury and cantharides, mixed with existed in those days, it is only necessary to sav A sprain or strain may be defined as violence 2 ounces vaseline. Clip the hair off the parts, that a considerable number of those examined inflicted upon a soft structure, with extension and tie so that the patient cannot bite them, rub the were cast by the veterinary surgeons, chiefly for often rupture of its fibres. A sprain may be sud- blister well in daily for two days; on the third sidebone. The growth of Shire-horse breeding denly caused by violent extension or stretcing of day wash off and apply sweet oil; let patient was, however, phenomenal from the outset. soft structures, or by repeated slight stretching loose now, and oil every day. It may be neces- He is above everything, a cart horse, which will without a rupture of fibres, in which case the sary to repeat the blister every month for a few do the work of the farm for three or four years and repeated tension produces an altered nutrition, times. The blistering not only has a tendency then make a good price; therefore, it is not surwhich results in inflammation of the part, and to cure the lameness, but, by stimulating absorp- prising that twenty years should see a great finally to a softening of some portion of the fibres, tion, tends to reduce any chronic swelling that improvement in the breed and hundreds of tenant by which they lose their toughness and become may remain from organization of the exudate farmers breeding and exhibiting high-class specipractically broken across. A slight sprain may be that was thrown out during the inflammatory mens of it, and only last autumn the foals of farmers made as much as 150 gs. by auction. The value of Shires for draught purposes was



FOUR-YEAR-OLD CLYDESDALE MARE, IRENE, (IMP.) First in her class and champion at Regina Exhibition, owned by P. M. Bredt, Regina, imported by John A. Turner, Calgary. Sire, Labori.

Progress in Horse-Breeding.

Journal, that the rank and file of English horse breeders have seriously attempted to improve

It was during the eighties that Britons woke up to the fact that they possessed several kinds of pate in the honors obtainable for those who breed horses which were the best in the world, and that by keeping the breeds pure and recording the pedigrees much benefit would accrue to those who it follows that sound parents have to be used to bred them and cared to take the trouble in the obtain the desired results. selection of parents and the keeping of records. The Thoroughbred had long been looked upon celebrated Eclipse had proved the worth of this making headway and finding supporters. breed for riding purposes. The General Studbook could in those days claim to be an old-established

quickly recognized by American and other foreign export trade in them developed, the number of system, says a writer in the London Live-stock export certificates granted in 1889 being 1,264, which was a capital performance for an elevenyear-old society. Since that time farmers from every English county have joined the ranks of breeders, and as they naturally want to particiwinning animals at the London and Provincial Shows, and as no unsound one is awarded a medal,

Although twenty years of improvement may be claimed by all the leading British breeds of in inflammation of muscular tissue, whether as the horse for speed, and the doings of the horses, none can equal the heaviest draft horse for

Registry of Imported Clydesdales.

The representatives of the Clydesdale Horse "trotting of its own courage," as an ancient congratulation and commendation on their success fatty degeneration of the sacous elements, and been held in London that the type has been fixed their institutions, but their proverbial frugality commercial value of prizewinners evidently proved their vulnerable point in this emergency, as they could not well afford to con-During the past twenty years, the most popular tinue a course which, in view of the action of the ses in England has unquestionably Canadian Association, would have seriously Stare or old English cart horse), so checked the trade of importation which is bringreach of Henry VIII, when the ing so much "siller" to the coffers of their Asso-

any pedigrees indred years. Shire horses Show, but a or the breed, y was estabon Show was on numbered 860; but, to dness which essary to sav se examined s, chiefly for rse breeding the outset. e, which will our years and t is not sursee a great eds of tenant 1-class specithe foals of by auction. urposes was

a large umber of ng 1,264, n eleveniers from ranks of particiho breed rovincial a medal, used to

ent may reeds of horse for

e Horse titled to success: Associaexport to this from a itive of rugality in this to conriously r Asso-And it

was an act of diplomacy on the part of the Cana- to say, from their reports, Montana was freer yet not thoroughly organized. At the same which was certainly desirable. While in point well based complaint against Canada." requiring the registration at or under the age of per cent. of healthy horses will react due to some of disease. two years is not the wiser and safer plan. There other constitutional disturbances or local conwas surely need of a shaking of the dry bones of ditions. In fact, we know of a certainty of a horse the Scottish breeders in the matter of registration, having been tested and turned back at the border and the new order of things should greatly to Montana within the past month. Canadian Editor Farmer's Advocate strengthen the financial condition of both farmers do not require the recital of specific associations and place the directorate in a better instances of glanders being introduced from strange case, that of a mare slipping a foal and position to advance the interests of the breed Montana, nearly every one can cite a case from some months later having another colt which which may in their wisdom be divised.

SEPTEMBER 11, 1907

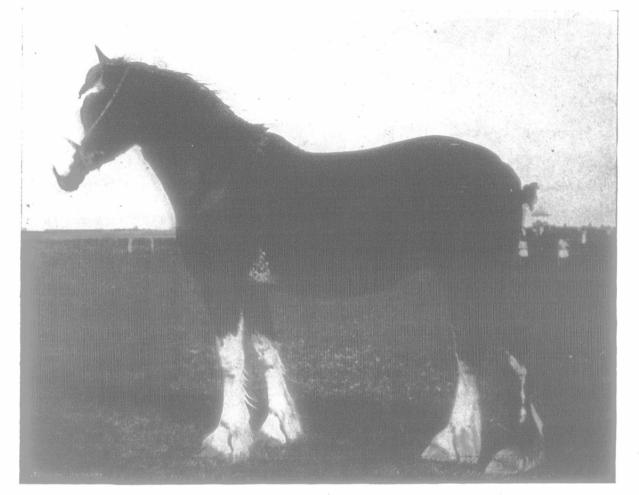
dian contingent in taking advantage of the circum- from Glanders than any state with which he was time we do not deny that mange is carried by stances to raise the standard of registration, acquainted. On the other hand Montana has Canadian cattle across the line, but in the matter of diseases there should be no free exchange. of economy, and for other reasons, there is much This statement of the diagnosis being con- A high fence along thesinternational boundary, to be said in favor of the principle of delaying the firmed was corrected in our August 28th issue, across the prairie country, would be most useful, granting of registration numbers until the animals and as for the other assertions the experience of in preventing the too free interchange of animals have proved breeders, there is certainly more the Montana veterinarians is quite unique. The that may be infected with mange, glanders, general satisfaction to all concerned in having assertions that not a single reactor has been noted mal du coit or other serious diseases. By all permanent numbers assigned at the time of is so sweeping as to discredit the work done for means let there be as much liberty of trade as registration, and it is just a question whether the in the course of properly conducted mallein possible between the two countries, but each system adopted by some breed societies of tests. Veterinarians find that an average of five owes it to herself to guard against importations

Peculiar Births.

We read some weeks ago in your paper of a by offering special prizes and by other means his own observation or to his positive knowledge. lived. You asked at the same time if anyone had As for the outbreak of mal du coit in southern experienced a similar case. Several years ago when we were in Manitoba we had a mare that slipped her foal. Naturally we thought no more about it, until, when, driving through a slough some months later, the ice broke beneath the mare and the sudden shock of the cold water showed unmistakably that there was another colt which came three weeks after, alive and bright and healthy.

R. WALTON.

Mr. R. W. Stephens, Lambeth, Ont., during a call on the FARMER'S ADVOCATE a few days ago, cited a case, coming under his own observation, of a mare, bred in the spring months, slipping in the fall a foal about the size of a cat, and May 24th, following, producing a living foal that grew into a useful horse. Also, a case where a mare was bred to two horses in same heat, one a light horse, the other a heavy-draft, and produced twins, one plainly the get of the light horse, the other of the heavy horse.



BARON'S LASSIE

Winner of first in the three year old Clydesdale filly section at Regina, 1907. Sire, Baron's Gem, bred by A. & G. Mutch, den, Sask, owned by R. H. Taber, Condie, Sask

The Interchange of Disease.

Our readers will remember the article in our June 12th number, upon the work of the Dominion Department of Agriculture with mal du coit at Lethbridge, Alta. In the article the statement that the disease was traced to Montana from suspicion attaches to a band of mares purchased but if the Commission bring in the same findings with glanders.

Lately, we have received a letter from the state veterinarian of Montana in which he takes exceptions to these statements and alleges that Canadians are wilfully malicious in making statements about the health of animals in Montana, and claim that "During the past year son in Helena, for the special purpose of determining whether or not the allegations of the greater or less extent on the open range in several needs the operation of freezers and canneries to Canadian authorities were true relative to the existence of this disease in Montana. Up until this time (with seven men under him, constantly making investigations, since early spring) Dr. this state. Of the several hundred horses tested carefully for all infectious diseases, he was able improvement in our present system which is as cattle be delayed and so long the unsatisfactory

Alberta, Dr. Rutherford in his evidence before the committee of the House of Agriculture and Colonization, said in discussing the origin of the disease in western horses;

was made that no other veterinarian had con- horses brought from Utah, another to an import- This fact is known to shippers and others that firmed Dr. Burnett's diagnosis of mal du coit ation from Oregon, while in the third case a strong have investigated the trade on their own account, which state Canada had received several seedings in Montana. It is only fair to say that the it will help to emphasize an unwelcome truth individual states, have reported after investiga- the unsatisfactory state of the stock trade. tion that they have been unable to find the They will also find that the cattle raised in Dr. Melvin, at my request, stationed Dr. Davidwhich is underjoble, that it has a visited to of the western states for an indefinite period, make a profitable use of her stock. the reasonable inference is that the presence of Whatever we may say about the trade and

STOCK

What the Beef Commission Should Find.

An interview is reported from Edmonton that the Beef Commission will visit the British markets for Canadian stock with the object of getting a fuller insight into the cattle trade, so that the reports to the provincial government may be more comprehensive. Should the Commission finally decide to go and should they watch the cattle which go from Canada and other countries to that great meat market of the world, they will be convinced of one thing, and that is that in the ultimate market there is no partiality shown to cattle from any particular country, and that every animal brings just what he is worth. They will find, too, that there are many cattle worth more than those which Canada sends, that in fact Canadian cattle are not by any means the best that England receives, even with the liberal supplies of grain fed stock that "Of the other outbreaks, one is traceable to go from Eastern Canada to raise the average. United States authorities, as well as those of the and may do much to remedy the real cause of

disease in any of the districts where the suspected other countries such as the United States and animals originated. The evidence in our posses- the Argentine are culled much closer than they sion, however, has an entirely contrary bearing are in Canada; that the canneries take a lot of on the case, and when one remembers the remark- the cheapest stuff, and the refrigerators much of which is undeniable, that it has existed to a average. And this only indicates that Canada

maladie du coit in Alberta is due to infected however we may rant about Gordon & Ironsides mares or stallions imported by persons, let us and Pat Burns, we have to admit that our Davidson, or his assistants have been unable to been unable to limit the slightest suspicion of Dourine in t In publishing statements to the effect that that the Beef Commission should embody in by Federal and Deputy State Veterinarians, contagious disease outbreaks are traceable to the its report and place a lot of emphasis upon is intended for Canadian export this year, not one states we do not do so with the object of maligning the discouragement to producers in the lack of reactor has been found. Dr. Treacy, Federal the stock of our neighbor's, (we do not favor discrimination upon the part of the buyers. Inspector, in charge of this district, made the protection of either the American or British types) Just as long as the market takes our cattle statement to the writer on Wednesday last, that, but we do wish to emphasize the necessity of without putting a larger premium upon the best although his inspectors (seven of whom have been more strict inspection than the country was and maintaining a firm discrimination against working in Montana) had been instructed to look provided with a few years ago, and also for the poorest, so long will real improvement in our

The only apparent detriment appears to be that no one interest will start. In this case it is the duty of capital to manage to avoid waste.

Heifer vs. Steer Beef.

With the object of finding out something about the relative value of bullocks and heifers for feeding purposes, experiments were carried out by the United States Department of Agriculture. The experiments have been carried out for some years and the results should prove interesting. In the first trial, five animals were used in each lot; one lot being steers, another spayed heifers, and a third open heifers. They were Shorthorns of like breeding, and treated alike previous to tests. In this case several of the heifers calved and interfered with the trial, and too much importance must not be attached to the results. The steers made the larger gain, and sold at ½d. per lb. more than the heifers. The steers made an average gain in eleven months of 806 lbs., and one heifer clear of calf made 775 lbs. When slaughtered the carcases were examined by an expert, and the heifers were found to give a larger percentage of prime cuts than the steers, so that on the basis of meat and by-products obtained, the heifers were worth fully 1d. per lb. more than was paid for them. Crediting each lot with the actual value bullocks.

on the gains made. case.

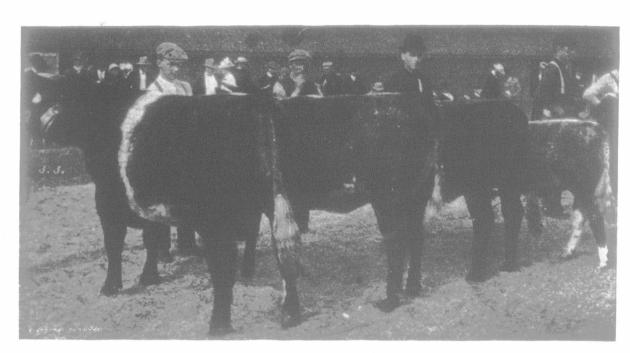
A Few Problems in Cattle Breeding.

London, Ont., Prof. G. E. Day, who as an demonstrates its ability to produce equally good. In discussing the general subject of stockauthority upon live stock is known from coast to animals, why should it not be accorded equal raising and stock selling with a go-ahead American coast, outlines some of the objects which cattle favor? In the face of these problems, experiment farmer the other day several matters cropped up breeders should have in mind in pursuing their work. These are so universal in their application themselves who can work with the solution.

In the breeders of the objects which can be used to be used the solution of others upon. I would like also to have them that we publish them here.

packer should work together toward this end. to follow a course which his reason tells him is not herd, without having to restrict his selection to

conditions will exist, the farmer raising lanky, Many and varied are the problems facing the development of milk production among beef ill-bred, ill-fed steers because they bring just breeder of live stock. It is not the intention of cattle. All are agreed that the ability to give a about as much as something better and the buyers keeping the prices down because the this article to attempt a solution of any of these on the part of any cow, and it is a very common buyers keeping the prices down because the quality is low. A discriminating market will problems, but rather to call attention to a few thing to find the best milkers the best breeders in save the situation. Chicago and other American which face the cattle breeder, with a view to aiding the herd. But how is the milk-producing promarkets went through the same experience as the beginner to understand more clearly what pensity to be developed? How much depends Winnipeg is going through now, but when S. & S. confronts him, and perhaps stir up some veterans upon breeding, and how much upon management? began specializing in the cheap stuff and others to give the public the benefit of their experience. If it is mainly a question of breeding, where are in the better stock then the producer began to One of the perplexing problems facing the the bulls to be obtained to assist with the work? reap the benefit of raising high quality stuff. In breeder of cattle is the question of fashion in pedi- It is hard enough as it is for the breeder of beef Western Canada producer, drover, exporter and grees, and he may find himself sometimes driven animals to secure a bull good enough to head his



JUNIOR FIRST PRIZE HERD OF WESTERN CANADA. Property of J. G. Barron, Carberry, Man.

of the different cuts and the by-products, and not the best. Fashion has its sway among horses, milking strains. If, in developing the milking including the expense of killing and handling, it cattle, sheep, and swine, and while it has had a qualities of our beef cattle, we lose much of that was calculated that the butcher made about three more powerful influence in some breeds than in tendency to fatten, which has taken generations times as much out of the heifers as out of the others, there are few breeds which have not, at one to develop, would such a result be a really desir-The second trials were made with fifteen pure- At the present time there is a tendency in some worrying many thoughtful breeders, and which bred Herefords. The animals were proportioned quarters to rebel against the decrees of fashion, are frequently lightly discussed by people who as before. In this case the gain by the open and a good deal of discussion regarding the matter fail to look at all sides of the question. There is heifers was 1.86 lbs. per day, being greater than has occurred of late, especially among American room here for research work on the part of experieither of the other lots, and that too with less Shorthorn breeders. Just what will be the out- ment stations, and work in connection with some food and at less cost. There was very little come, it is hard to say, but it is useless for the phases of the problem has been planned for difference between the other two lots, either as small breeder to attempt to overthrow the immediate undertaking at Guelph. It is a large regards gain per day or cost of the gain, though established customs or prejudices. If anything is order, and means years of patient work, and the heifers had the advantage. Carefully con- accomplished in gaining recognition for what are probably more space than we can afford, to carry ducted slaughter and block tests failed to show commonly called "plainly-bred" cattle, it must out the work thoroughly. The public need not any difference in the quality of the meat, although be through the concerted action of some of the look for results for some years to come, and it is the percentage of high-priced cuts, ribs, and loins most influential breeders. It will not do to be too quite possible that the main issues may never was greater in both lots of heifers than in the case radical in such matters, and it must be remembe settled. At the same time, there are many of the steers. It has been claimed that in heifer bered that the fashions of to-day are usually minor points of interest upon which some light carcases there is a greater percentage of fat, there- based upon a pretty sound foundation, namely, may be thrown, and thus make the enterprise by rendering them of less value to the consumer. actual merit. It does seem too bad, however, worth while. The report concludes:—"It was observed in this that so many really excellent cattle should be Closely associated with the problem just and other investigations that under similar conslightingly passed over and dubbed "plainly-mentioned, comes the question of the dual-purditions heifers are inclined to take on flesh a bred," no matter how many sires of unsurpassed pose cow. We know that such cows exist, but are little more readily than bullocks. Larger gains breeding and excellence appear in the pedigree, they more desirable or less desirable than the by the heifers may not be shown, but there is a merely because the nearest imported cow appears special dairy cow? Also, what about the man tendency to finish at a little earlier stage in the a long way from the top of the pedigree, and does carrying on mixed farming under conditions not process of fattening. The difference between not boast any of the blood which is most popular the most suitable for making the largest profits bullocks and heifers in this respect, when fed to-day. Surely the crosses subsequently intro- out of dairying? There are also many varying under the same conditions, has also been noted by duced have long since obliterated any trace of the conditions, and, as in all other live-stock investipractical steckmen feeding on an extensive scale, original blood; and if the sires have been wisely gations, so many variations arising from the The fact is emphasized that heifer beef has chosen, why should such an animal be discounted? individuality of the animals employed, that it been much under-estimated, since in both trials When we learn to study the law of heredity seems almost hopeless to attempt anything like the heifers have returned a higher net profit on intelligently, and are able to understand clearly systematic investigation. But, possibly a little the block than the steers, notwithstanding the just what a tabulated pedigree means, we shall be light is better than no light, and there are profact that the steer beef was rated higher than the apt to lose a good deal of respect for the average bably enough side issues to make the undertaking heifer beef. So far as could be learned from these breeder's method of deciding upon the merits of a worth while. Be that as it may, we think we can experiments, spaying had no particular influence pedigree. We sometimes forget that, no matter safely promise the public some work along this how "blue" may be the blood employed, there line, though, as in the other case, years will These tests are in conflict with the American can be no sound work done in animal breeding be required to get results. belief, but from the number of animals used the which is not based upon utility. We are also Space will not admit of the introduction of trials cannot be said to be quite reliable. On the apt to deal too much in names, and lose sight of further cattle-breeding problems in this article, other hand, however, the fact must be taken into the merit which made those names famous. If but the ones mentioned are sufficiently serious account that the results are in accordance with the merit has come down with the names, then we to furnish food for thought for some time, and we what has appeared to many breeders to be the certainly have something to be proud of; but if would like to hear from anyone who has worked much if not all the merit has been lost in transit, out even a partial solution of any one of them. of what value to us are the names, so far as improving our stock is concerned? So long as certain families of cattle show superior merit to all others it is only right that they should meet In a letter to the FARMER'S ADVOCATE of with popular agon; but when another family Editor FARMER'S ADVOCATE:

time or another, came more or less under its spell. able attainment? These are problems which are

Weights Should Be More Just.

Another problem i great importance is the brought under the notice of the Beef Commission

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SEPTEMBER 11, 1907

one else raising these points.

tion, alike whether the road travel was one or

twenty miles. There is no weighing facilities at

these little stations up and down the line and the

farmer's hands is after the journey of forty or

fifty hours without being fed or watered. I think

that the railway companies should be compelled

a small charge per head for the use of the machine.

buyer could know, just the exact weight shipped.

There is one more matter I would like to have

ventilated and that is the elevator charges at

shipping points. Last year a farmer near here

escaped a charge of six cents a bushel by loading

straight into cars—had the grain passed from his

wagons, through the elevator and so on to the

cars he would have been mulcted in some six

cents a bushel. Surely the operation of passing

the grain along in this way is not worth that much

however a man may figure out insurances, risks

British System of Land Tenure, a Curse.

Association for the Advancement of Science, as

reported in the London Times. The conclusions

at which he had arrived were: (1) That the policy

vating owner and his family) properly invested

in land yielded a far greater return to the com-

munity than a similar amount invested in com-

merce and manufactures; (3) that, if health,

physical strength and an increase of the popula-

tion were to be reckoned as natural assets, agri-

culture enriched the nation far more than manu-

factures possibly could; and (4) that the home-

trade, resulting from the development of agricul-

ture, was larger, more certain, less fickle, and

more valuable than the foreign trade. Agricul-

ture must not be regarded simply as any other trade, but as the basis of all trades. Leaving

the larger branches of agriculture—the raising of

corn. cattle, etc.—and turning to "small cultiva-

tion," it was to be observed that we annually

imported some sixty million pounds' worth of

smaller articles of food, such as butter, cheese, bacon, eggs, poultry, fruit, vegetables, etc., and that those articles might be wholly or mainly produced at home if our land system were what it ought to be. We had the land, and we had the men standing idle or only partially employed. Many country-bred men now employed in towns

would gladly return to the villages (for which

they were better fitted) if adequate and reasonable

facilities were offered to them. "Occupying ownerships" ought to be the governing principle

of our land system instead of being a mere

incident in it. To facilitate the carrying out of

others will give their views on these points.

Thanking you for your space and trusting that

PRAIRIE CHICKEN

him from the amount paid to the seller.

sent to Ottawa to look after.

and so on?

for I do not remember reading anywhere of any the suggested scheme of small occupying ownerships, the author strongly advocated (1) a better The first of these comes under the head of system of rural education, and (2) the establishweighing. As things now are I sell to a buyer, ment of co-operation among the cultivators both either in the country or from Winnipeg, and he for the purposes of buying and selling. But coimmediately deducts five per cent. for shrinkage. operation was the natural outcome of small This I maintain is unfair since the stock may have ownerships, but was not readily adopted by come in by road only a very short distance and it yearly tenants, who were often here to-day and is all treated, in the matter of five per cent. reduc- gone to-morrow.

Range Cattle Doing Well

first time the stock is weighed after leaving the Editor Farmer's Advocate:

season but on account of being very thin last it be good for corn next year? spring when going out to grass they have had a to furnish better stock yards at their small hard pull uphill as there was a depleted frame make a handsome profit in the long run by making evening.

Any farmer in this way could know, and the extensive reports are quite favorable.

watered on arrival and before being weighed is as we have had an abundant rainfall.

more fair than the present grab plan of the big

The farmers are, beyond dispute, the backbone of Canada to-day and will be for many years to as many cattle shipped this year as in general.

come and it seems but wise policy for the railroads to treat the farmers fairly and if they will not do cattle were all fat but there isn't the number are the better for vegetable matter being added so, then the government ought to step in and take to choose from this year and consequently the and cultivation invariably results in better crops, a hand for the welfare of the country they are shipments will be smaller.

"OBSERVER." Lacombe, Alta.

30,000 cattle marketed from the ranges this year tion next spring. as against 90,000 last year. There is a lot of not appear to be many steers going that way.

Hogs in Clover.

Upon the question of pasturing hogs upon alfalfa,

omes the following conclusions:

The British land system—namely, that of land-The number of hogs that may be pastured profitlord, farmer, and laborer—which meant three ably on an acre depends very largely on the amount cultivator or by light plowing. separate castes, had broken down in every other of grain fed. Probably from six to eight hogs, under country in Europe, had broken down in Ireland, and was breaking down in England. To it was mainly due the startling rural depopulation, said Jesse Collings in an address before the British Jesse Collings in an address before the British water and sheds will not be kept too close to the wiched to propose the british water and sheds will not be kept too close to the wiched to propose the water and sheds will not be kept too close to the wiched to propose the water and sheds will not be kept too close to the wiched to propose the water and sheds will not be kept too close to the wiched to propose the wiched to propose the water and sheds will not be kept too close to the wiched to propose the water and sheds will not be kept too close to the wiched to propose the water and sheds will not be kept too close to the wiched to propose the water and sheds will not be kept too close to the wiched to propose the water and sheds will not be kept too close to the wiched to propose the water and sheds will not be kept too close to the water and water and sheds will not be kept too close to the wished to make a sale. "You need not worry about ground and that at the farther end of the field be left paying," he said. "Will give you easy terms, whereby untouched.

of placing trade and manufacturers above agri- sows run on alfalfa without grain during the pregnant like." capital (including the personal labor of the culti- pregnant sows which are to farrow in the fall,



Fall Treatment of Stubble; Corn Land.

Which is the better way to treat stubble this fall, to burn stubble or plow it down? The land is not heavy neither is it very light. It was broken and backset last year. I broke a piece of land in the spring and seeded it to In this section cattle have done fairly well this flax. If I manure it this fall and plow it, would

There is nothing much lost and very much time stations and a proper weighing scales at each to start work on. The Heel fly has also been very gained in burning stubble when the land-does yard. The installation of scales at each yard hard on them making feeding in the middle of the not need cultivating nor the addition of vegetable would doubtless entail a large outlay on the part day an impossibility. As the day got warmer matter to make it more capable of holding of the railroads but they could recoup this and the cattle would simply get into shade until moisture. The practice of burning stubble after the first crop is quite common, as new land is not Farther east of here where the range is more in very great need of further cultivation and time is saved for other work, of course, the land The cattle are doing well and steers will be should be well cultivated in the spring to prepare Now, again at the Winnipeg end surely the ready for shipment about the middle of Septem- a seed bed. This is assuming that the soil is American plan of having every animal fed and ber. The grass has been fairly good this year the average prairie loom. If it were either heavy or light the plowing in of the stubble would Men who fed their cattle in the sharp times of help it and burning the stubble would be a posibuyers? In Chicago the cost of feed to the last winter will be able to sell their stock quite a tive loss. Decaying stubble makes heavy clay animal is paid by the purchaser and deducted by little earlier and that should be quite an advant- less liable to bake or harden and more easy for plant roots to penetrate and in sandy soils is Everyone is of the opinion that there wont be tends to make them more drouth resistent. We would not advise the general practice of Butchers claim that this time last year the burning stubble for the reason that most soilt through improvement in the texture of the soil and the liberation of plant food. That is the The same report as the above came from the plowing deepens the seed bed and brings fresh south eastern part of Alberta. Ranchers in that soil to the surface. Most soils also require a district inform us that the grass has grown well system of cultivation that will keep weeds in but has ripened off in spite of the plentiful check, and while burning the stubble and spring rainfall and that the cattle are about cultivation will destroy many seeds, it is not ready to go out. The general impression among an unqualified success since so many seeds escape the ranchers is that there will not be more than the fire and remain dormant until after cultiva-

By manuring and plowing the flax land this talk about shipping to Chicago but according to fall and working it well, next spring it should be several cattlemen whom we have met there does in good form for corn. If the manure is charged with weed seeds it will be necessary to kill as many as possible before planting the corn, and to do this effectively it may be that the land will have to be plowed again. Generally speaking, if the land is harrowed after the fall plowing the weed seeds will germinate in the early spring and the weeds can be killed with the disc and

you can make us monthly returns. Your credit is We have not observed satisfactory results with good, and you can make the terms as small as you I was not keen to purchase, and dismissed the culture was a wrong one; (2) that an amount of period, although very little grain is necessary for agent in order to have time for a little figuring. The result was that I disovered that it would pay me

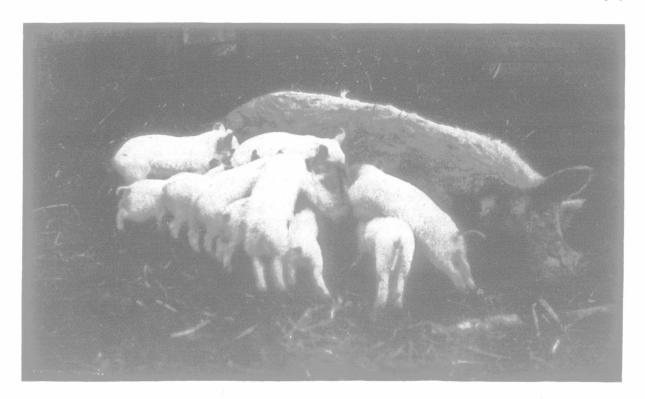


Photo The Compliments of Prince Albert Board of Trade.

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twice over to purchase on a cash basis rather than accept the agent's enticing terms. The terms he offered, while they looked easy, were really terms demanding a high rate of interest. Further, on making some inquiry I found out that many who had tried the monthly instalment method of payment had come to realize that they were paying dearly for any seeming advantage, and that they felt themselves contincases people had become discouraged, and had aban-

doned payment altogether, much to their loss The best thing for one to do is to keep out of debt, and to buy and sell on a cash basis. It will mean self-denial, but it is astonishing what a little ingenuity and economy will do for one. Indeed, the average farmer will do well to remember and to act upon the advice given by the Old Country agriculturist to his son: "Jock, gang in debt for but ae thing—dung." No one can afford to go into debt for anything that does not give a reasonable assurance of a fair return. Food, land, clothing and implements must be had, of course, but a little consideration and contriving will reduce one's actual necessities to an astonishingly small minimum. Paying in cold cash is better for both buyer and seller, and waiting till one can do so will save many an anxious hour, and many a disappointment; whereas the easy payment system usually means either the purchase of something one does not want, or paying too much for one's purchase. It is better to get on in what the Scotch call a canny way than to invest readily and extensively in things that are handy in their way, but which are not really necessary. It is wonderful how far brains and patience can make things go. The newest thing is not always the best. Let others do the experimenting. It is the agent's business to sell goods, but it is the farmer's business to buy only what he puts to a paying use, and on terms that are the most reasonable. It is so easy for one to sign his name to a contract; pay day looks far off, but it is sure to come, and with it has come in many instances a deal of tears and heartbreak.

The Restless Country Boy.

EDITOR FARMER'S ADVOCATE:

Restlessness is a characteristic of all healthy boys. and should never be a source of worry. A young colt may be perfectly happy if only he have plenty of grass and shade and water and liberty. But a boy with forming hands and a contriving mind is restless because he finds stirring in him the possibilities of the infinite. It need not be wondered at, then, if the country father finds himself wrestling with a very live problem when he undertakes to guide his growing boy.

There are various things that contribute to the rest-lessness of the country boy. In the first place, his familiarity with country life has dulled his senses to The delights of rural surroundings, by reacommonplaces. On the other hand, he sees the town only occasionally, and knows professional life only from the outside. The preacher, to his way of thinking, works only half an hour a week; the doctor does little but drive behind a brisk-stepping horse; while the clerk has a delightful time handling light goods, sheltered from the hot sun and the storm.

Further, the boy is exposed to the mischievous people the hero is represented as one who finds no scope for his talents amid farm surroundings, and who comes to his own only upon leaving the old home for a life of adventure. The country boy feeds on this, and

soon comes to believe it. Again, as the FARMER'S ADVOCATE has been ities point the way to the surgery, to the chemist's laboratory, to the mine, to the pulpit, to the bar, or to the legislative hall, but in how many cases is there a serious effort made to teach the students the wealth of the sunswept valley and prairie, and the satisfacthe most honorable of the arts? A father need not be the big head and had to have a big out-fit. surprised to find his son ill disposed to follow in his a poor, sordid and unremunerative occupation.

him make his home and work attractive. A little money spent in music and pictures and magazines, and in enccuraging his children in carrying out experiwork in which they take an interest, will be an invest- money. ment that will yield a tenfold return. A house full of rob the farmer of some hours of needed rest, but they will do not a little to relieve country life of its monotony, and do a great deal in the way of preserving for the farmer what is worth more to him a thousand times over than any bank account in the world, the love and service of his boys and girls.

Handling a Traction Engine.

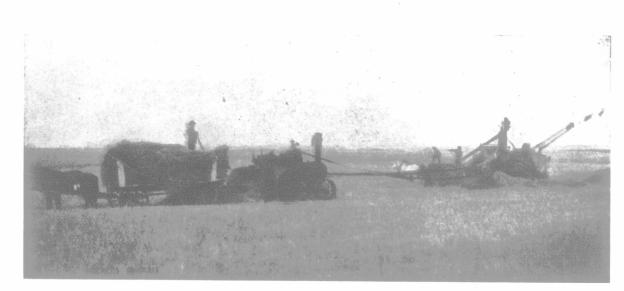
EDITOR FARMER'S ADVOCATE:

In your issue of Aug. 14th you print an article that in the tank to settle twice over.

engine and backing down hill. The sudden closer to the surface of the earth-

Lightning, and Some Means of Protecting Our Buildings and Live Stock From It.

The alarming frequency with which in the past on traction engine boilers and the hardships they few months we have read of property destruction have to contend ith. The effects of dirty water by fire, due primarily to lightning, has set people might be largely avoided. It is an every day thinking. It is no uncommon thing to read, ually reminded that they were in debt. In not a few occurrence to see a tank of water pulled in along- after a severe storm, of farm buildings burned, side of an engine, then the fireman or engineer houses damaged, stock killed or human lives as the case may be, plunk in the hose and turn on sacrificed. It is only a few weeks since a Souththe injector, never taking into consideration that ern Saskatchewan town was partially destroyed all the mud, sand and filth that the average by fire originating from a lightning bolt. It is threshing tank contains is all mixed through the an every day occurrence during the summer for water by the jolting of the wagon. I have seen houses to be damaged and their inmates injured this done when the boiler would probably con- from this cause. The financial loss during a tain half a gage of water and when there was season must be enormous, It is generally, sufficient water in the boiler to allow time for though by no means always the case, that towering structures are most frequently hit, thus in Second, was the uneveness of ground, boilers cities and towns churches with lofty spires are travelled over. I would judge such as going damaged oftener than other buildings. Barns down hill and causing the crown shut to become and houses on the open prairie for the same reason exposed. This can be overcome by turning the seem to be struck more frequently than objects



THRESHING ON THE FARM OF THOS. NELSON, MOFFAT, SASK.

its ordinary condition.

internal conditions of the boiler if some of those common observance that lightning pref

changes of temperature caused by in-rushes of Scientists account for this fact by assuming son of his daily contact with them, have become mere cold air may be avoided also. If you see the that the discharge of lightning from cloud to steam is going to rise too high, plug the shuter earth, is for the purpose of establishing an equal tightly with straw and close the damper. If balance between the quantity of electricity there is a clinker to remove from the bottom of stored in or developed by the cloud, and the the fire box, it is up to the engineer to fire while quantity that exists in the earth, and that in its the fireman removes it, thus keeping the fire in passage from one body to the other it takes the shortest possible course that can be found. As to employing ignorant fireman, it is the This, as between cloud and earth, would be from effect of the class of literature that belittles country engineers duty to put him wise, as it will be of the lowest strata of the former to the nearest In too many of our papers and books for young great service to himself and also to the life of the point on the surface of the later. This point may be only a portion of the surface of the soil, it There need be very little trouble over the may be a tree or it may be a building. It is so-called engineers would follow my method of any other conducting medium than the atmoscaring for the boiler they may have in charge. phere. It will jump through several miles of reminding its readers, our school system does not fos- Blow off the boiler every Saturday night and space to the earth and then when within a few ter a love for farm life. However we account for it, clean the mud out every other Saturday night. feet of its goal will deflect its course and take to our schools do not encourage our boys to make their Some districts where the water is not so good, it anything denser than air that comes in its way. living from the soil. Our high schools and univers- is necessary to blow out twice a week, and The atmosphere, seemingly, is not a very satisremove the mud once a week. I have been factory conducting medium. It is for this reason operating engines in Saskatchewan for the last that barns and other out buildings in the country ten years and have had two engines in that time, are so frequently hit. They are the loftiest but have never had an occassion to caulk a joint structures that can exert attraction on the tion that comes to mind and heart and fortune by a or roll a flue. I did not dispose of my first rig descending electric current, they will be, when pursuit of agriculture, the most ancient as it remains because it was worn out at all, but because I got the storm is passing directly over head, the closest point between the cloud and earth. If the writer of the above mentioned article Barns, too, seem more frequently hit than houses, footsteps if he allows him to be taught for six hours in would tell us how to avoid these troubles it at least statistics show this to be the case, the the day, and for five days in the week, that farming is would be of a great deal more value to the public reason may be that they are higher on the average The cure for this restlessness cannot be wrought in in general in place of telling us of our everyday than dwelling houses. The fact is, however, a day. A permanent change in conditions is brought troubles, occupying valuable space in the paper that between unfilled barns and houses there is about very slowly, but the farmer must make it his which is of no profit to anyone, as there are so little difference in the relative frequency with business to see that the change is being brought about. many owners of threshing machines who have which each is struck. Filled barns, though, seem In the meantime let him use all the tact, born of his no knowledge as to how a boiler should be cared of all buildings the most susceptible to damage love and good sense, to show his son the advantages for, and that about fifty per cent. of the value from lightning stroke. The reason is not difficult amid which he has been reared. As best he can, let of their outfit is in their boilers. Time and again to discern. In a barn recently filled heat is I have seen men going through the country generated. The air within and surrounding looking for an engine to run, when probably they such a barn becomes perceptibly warmer and ments in poultry, in roots, in dairying, or in any farm had only fired the fall before, looking for the big moister. It decreases in weight and is forced upward until a column of warm moist air will be If you are approached by a stranger with ascending from the roof in the same manner as laughter of young friends brought in occasionally may recommends dated 1903 and 1904, get leary of smoke rises from a chimney, diffusing itself outhim at once as you can't afford to take chances ward in all directions as it ascends. If such a on a man who gets his experience two or three phenomena as this occurs, as it very naturally years ago. The man with these old recommends may, and at the very moment when a cloud is capable of twisting off all the set screws, and heavily charged with electricity is hanging overof cutting out all the brasses, valves and gears. head, the discharge from that cloud will encounter when far above the earth, the widened column

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Protecting Our

From It. ich in the past ty destruction has set people hing to read. ldings burned human lives since a South-

ally destroyed ig bolt. It is ne summer for mates injured oss during a is generally, e, that towerhit, thus in ty spires are lings. Barns e same reason

than objects

assuming 1 cloud to g an equal electricity , and the that in its takes the be found. d be from ie nearest point may he soil, it ng. It is ers almost ne atmosmiles of nin a few 1 take to its way. ery satisis reason : country loftiest on the be, when ead, the 1 earth. houses, ase, the average lowever. there is cy with h, seem damage difficult heat is

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cloud

of warm air ascending from the barn. Now hole bored to a depth of seven feet it will be all doubt but that it would provide stock in the duction rather than the motionless atmosphere. It is common observance that it follows air currents readily. Hence if a bolt is descending flat spiral. Highest lines and projecting points in the close vicinity of an ascending air column, no matter how slow such a column may be moving, it will deflect that bolt from its course and barns, with one ridge and two gable ends the rod the electric current carried downward by the can be run the whole length of the ridge descendrising air, reaches the barn and through it the ing and entering the ground at both ends. Someearth. This, is at least a theoretical explanation times barns are built T shaped in which case an of the frequency with which filled barns are addition to the rod with the two grounded ends damaged by lightning.

It is an old saying that lightning never strikes twice in the same place. There is no foundation either in science or fact for any such a statement. We have known three barns erected on the same site to be burned successively by lightning. Any particular site that offers a path to a lightning flash, is just as likely and in some cases more likely to offer a path to a second stroke. There may have been something in the geological structure immediately beneath the barn in this case that offered a path of least resistance to the current, or the barn may have been more elevated than surrounding objects. In any event it is very unwise to build a third barn on the same site where two have been struck by lightning. The first stroke may have been of accidental occurrence; but where two strokes have been received on exactly the same site it occurs very likely from some peculiar formation of the ground.

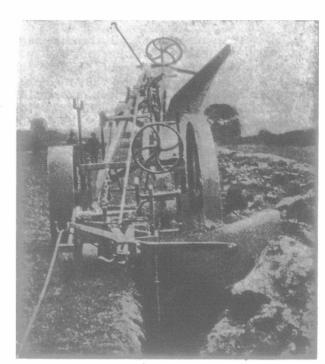
Of the means of protecting buildings from lightning strokes the natural ones are the most efficient, and trees are the most efficient of natural protective agents. Buildings with tall trees growing near them are seldom struck. A clump of trees seems to draw the lightning to it. In this country, however, it is unpracticable or to have much protective influence. It is necessary therefore to resort to other means, and the extending down into the moist earth, to convey purpose, but authorities generally agree that relatively few buildings thus protected are close to the building, as the old idea of the necesber has been so very limited as not to break the rule that rods are a real protection.

prejudice arises not so much from the belief that feet high, will be less than \$5.00. lightning rods are without merit as protective portion of buildings rodded to-day. intelligent to build a wire fence.

can be dug and the end of the rod curled into a lightning stroke. should be specially guarded, and it is, therefore, well to have rods on all ridgeboards. For plain already mentioned, another with its end in the earth at the outer end of the addition, should be run up the gable end to the ridge, then along the whole length of ridge, and connecting with rod on the main building. There would thus be three earth terminals, and all ridges protected. Upright points may be added afterwards. They should be five feet high and not more than twenty feet apart. To make these, lengths of six and a half feet can be cut off, and a sharp bend made a toot and a half from one end, this extra length fo be opened up and wrapped around the rod where it is attached. This makes all solid and gives good electrical connection. At the upper end of the points the wires may be spread out in all directions. Total up all these lengths and you have the full length of rod required. You can now begin manufacturing it. Use soft galvanized, number nine wire, nine strands. A wagon wheel answers very well for twisting. Set the wagon in a convenient place, and raise the wheel as if for greasing. Measure out the needed length and drive a stake with a hole bored in it, through which the ends of the wire can be passed, and bent round. The other ends of the wire can be hooked, each around a spoke of the wheel close to the hub. In measuring the wires care should be taken to have them of equal length, and an allowance made of one foot impossible to grow trees to a sufficient height in 200 for shrink in twisting. Now, having the nine wires stretched out and fastened securely before beginning to twist, brace well both the only other means of protection is by metal rods wagon and stake, for there will be a considerable on the roof or the highest point of the building, draw. It is well, also, to throw some poles the thunder bolt harmlessly away. Opinions out of the grass and mud. Turn the wheel until differ of course as to the efficiency of rods for this the cable is sufficiently twisted to hold together, and the job is done. The rod can be stapled damaged by lightning stroke. While it cannot be sity of insulation seems entirely abandoned.

agents, as it does from the fact that the lightning every year from stock being killed by lightning would not advise making it any less. These outrod swindle was perhaps the greatest ever perin the field. Invariably such stock is huddled boards should be fastened to stakes and the stakes petrated upon the agriculturists of this country. against a wire fence. The fence at some point should not protrude above their upper edge as the This is the chief reason why there are not a may receive an electric charge and the wire con-most convenient way to level the concrete when Nowadays, however, it is not necessary to call Each post conducts a portion of the chargeh top of the boards. the services of these gentry in putting up rods. away, and any objects close to or in contact with The work can be done by any man sufficiently the wires likewise will receive a portion of the into blocks, to prevent injury from heat and current. The remedy in this case is to have frost. There are two ways recommended for In constructing a rod the first thing to do is to the fence wires grounded, to have, at frequent doing this. The first is to cut through the confind the length of cable needed as for an ordinary intervals, say every 100 feet or less a wire leading crete after the top surface has been laid, and barn, the full length may as well be made at one down into the soil, giving direct connection before the mass hardens, with a trowel or spade, operation. Liberal allowance should be made between the fence and earth, and furnishing going right through the foundation from edge for grounded ends, as a connection with damp means whereby the electric current is conveyed earth at a sufficient number of places is of first harmlessly away. Such a connection could be off the walk into sections by means of cross pieces

lightning seems to prefer any medium of con-right. If not then a hole four or five feet deep fields with a very large degree of immunity from



PLOWING 30 INCHES DEEP. Showing the possibilities of deep cultivation to increase the moisture-holding area of the soil.

Making Cement Walks.

What is the right way to construct cement walks? Would you advise putting them down on the farm between the house and outbuildings?

Replying to this enquiry for information on cement walk construction we can do no better than give the following plan, which if carefully followed will be found productive of highly satisfactory results: Prepare the foundation by making an excavation from 2 to 8 inches deep, or boards across under the wires to keep them the depth depending on the character of the soil, -and a few inches wider than you intend the finished walk to be. Fill this excavation in to the level of the ground with gravel, broken stone or cinders, and ram it down solid. When the denied that some buildings equipped with rods To hold the points upright get the blacksmith of the walk to hold the morter in place while it is have been destroyed by lightning, yet the num- to make you an iron tripod for each. Have the setting, also to give a nicely finished edge on the rods run direct as possible with few sharp turns. concrete. These boards would be the better of Such a rod will weigh one half pound per foot, having their inner sides planned. They should A good many farmers, however, seem pre- and the cost of the entire material, fittings be 4 inches wide, or wider or narrower, proporjudiced against rodding their buildings. This included for a barn seventy feet long and forty tionately, as you intend making your walk thicker or lighter than the one here described. In this country, too, considerable loss results Four inches is, however, a fair thickness and we veys it along until it diffuses itself into the earth. finishing is by running a straight edge along the

It is always necessary to lay the concrete off to edge of the walk. The second plan is to lay importance. If a small well augur can be got and readily and cheaply made, and there is little placed four or five feet apart. This is the most satisfactory method. To do it properly get slats an inch thick and 4 inches wide. Their length should be exactly the width of the walk. Place them in at about 4 feet intervals, and peg down securely. You are now ready to put in the mortar. For the bare coat prepare a mixture of one part Portland cement and 8 parts gravel or broken stone. Mix it thoroughly both wet and dry and ram it down well on the foundation. This layer should be 3 inches in thickness. It is best not to have too much base mortar down in advance for unless plenty of help is at hand the foundation may get set before the surface is laid, in which case the bond between it and the base layer will be imperfect. Mix the finishing coat one part cement to two parts fine gravel or, preferably, clean, rather coarse sand. Spread it out and level quickly with a straight run over the top of the outside boards, finishing the surface up with a wooden float. Bevel off the edges on all four sides and the block is complete.

> In building in blocks after this method, it is always necessary to put in the blocks alternately,



CUTTING FALL WHEAT ON MR. GEO. BUCHANAN'S FARM, PINCHER CREEK, ALTA.

layer always be careful to cut a groove right inferior cow. through to the joint you have thus made in the lower strata. If the cross edges of each block, as it is laid, is bevelled off only slightly the groove, of course, will be made as you go along. each section as it is completed, with boards, straw or sawdust, and protect it from dust, dirt, currents of air and the sun for a few days while it is setting. Sprinkling occassionally will help the setting process and make a harder finish.

A walk thus constructed will prove satisfactory for a good many years. Nowadays when lumber prices are prohibitive to the use of that material for purposes such as this, cement has come into general use on the farm and in addition to being used as a foundation and building hesitate long about using it for this purpose.

DAIRY

The Great Milker Petered Out.

EDITOR FARMER'S ADVOCATE:

I believe there is nothing that will so help a man to get the best results as the milk-record sys-One can so easily detect the results of any change in feed or otherwise, and remedy it, perhaps not so much on the whole herd, but individually, for I have found from experience that it pays well to cater to the likes and dislikes of different cows. The ration fed to one cow profitably might be far out for another. Some claim to be able to tell how much a cow gives merely by guess, but to me they are far out. It is very easy to remember the two or three months in the flow when the cow is giving, say, forty pounds per day, and forget all the rest of the year when she has dropped down to less than half that amount. I once bought a cow for a good price that was noted as a great milker, and she started out to lead, and did so for about two months, and finished second to last, with a small two-year-old behind her. There is no other correct way but to keep a record of milk, both as to quantity and quality. Form and appearance count for a great deal, but often fail, but performance always counts.

Of course it takes some time to do the figuring, but so very little that the interested man will pleasure.

Central Experimental Farm, Ottawa.

us upon her method of making butter for exhibiting the time of judging are the two most important butter. Many persons become so anxious about tion a fault of the printers made her say she had factors governing grain and body. The character having their butter so much better than usual difficulty in getting a market for her product. This should have read "I have no difficulty in feed, is another factor. Method of working is to the exhibition is not equal to the average make. finding a market for my butter." The context another; some butter is spoiled by over-working.

4. Bear in mind that the judge will judge the doubtless indicated what the meaning was.

Wide-Awake Dairymen.

EDITOR FARMER'S ADVOCATE:

I have been keeping individual milk records for the last three years. I take records once and allowing the butter to stand for one to three and sometimes twice per week by the use of a forty pound steelyard, which I keep in the barn. safer plan than to depend upon one working. As I know the weight of my pails, it takes but Once working is almost sure to produce butter Editor Farmer's Advocate: very little of my time to weigh. I have a little more or less mottled. pass-book with the name of each cow, and I credit As tastes vary with regard to color and salt that appear from time to time in this department her with her milk. My cows are graded Short- in butter, it is very difficult to give general direc- on the subject of home butter making. The horns. Before I commenced keeping records, I tions which cover all cases. It is better to err system outlined in last week's issue by Mrs. calculated so much to the cow per month, say, on the side of light color and light salting, than Tomes, of Plumas, seemed particularly valuable five dollars, for I heard it often mentioned that it go to the other extreme. Up to the end of Sep- indeed. There were some points though in was about the average; but when I kept records I tember it is hardly necessary to use any coloring. connection with her method, on which we are not found some of my cows were giving twenty pounds. After a heavy frost or two a small amount of quite clear. One of these is the washing of the while others were giving as low as nine pounds vegetable butter color added to the cream just butter. In our own experience we have always

in order to get the wooden crosspieces out and at a milking. Now, I consider if a cow does not before churning is advisable in order to obtain the provide for a proper joint when building. Leave give fifteen pounds of rich milk, it is better to "June-grass tint." The main point is to have each alternate space as you go along, and when let calves on her for veal, and get rid of her as the color uniform. Mottles, streaks, waves, etc., the mortar in the sections filled has hardened soon as I can. I may say that I find in this part are always scored down by a competent judge, as sufficiently, remove the cross pieces, place a that the best dairymen are the men who keep a this indicates faulty workmanship. The prethree inch strip of tar paper on the edges of the close record of the feed they feed their cows and ventives are: washing out the buttermilk with blocks, thus exposed and fill these remaining the returns they get from each individual cow, water or brine, even distribution of fine salt and

FRANK MUNROE

Hints on Making Butter for Exhibition.

As a number of our correspondents have recently been asking for suggestions on the making of butter for exhibition purposes, we take it that there is more or less general demand for information on this question, hence these hints. It is taken for granted that those who read the article are familiar with the ordinary routine of buttermaking, thus it will not be necessary to go

The first and most important thing necessary for a buttermaker to bear in mind is the basis or material seems now coming into use for nearly scale of points used for judging. What does the everything else as well, hog troughs, water troughs judge usually consider when he or she starts to fence posts, etc. It is of exceptional value for work on fifty or two hundred lots of butter at an fence posts, etc. It is of exceptional value for work on fifty or two hundred lots of butter at an building walks and our correspondent need not exhibition? The judge must have something definite in his or her mind as to what constitutes a standard of perfection. This standard usually consists of some scale of points, the total making one hundred for the sake of convenience. Even if the judge uses no set scale, he must have some definite ideal in his mind or his judgement is worthless. The standard of perfection is usually made up of: Flavor, Grain, Body, Color, Salting and Packing. As flavor is the most important quality in butter, the maker must ever bear in mind that the judge is likely to decide about onehalf the merit of each lot of butter according to its flavor. Most judges now give preference to the mild, creamy flavor, rather than to the acidy flavor of former times, hence the buttermakers should not ripen the cream so much as formerly. churning. Where no acidimeter is available, churn as soon as the cream thickens and has a mild, acid flavor. Having cream from perfect milk, or milk with an absence of any fodder or putter. The use of a culture or good-flavored starter is also a help. If there is any objectionable flavor on the milk, the cream should be pasteurized when sweet; that is, be heated to 160° F. for about ten minutes, or 180° to 185° for two or three minutes. If a good culture is not availbutter has the nice creamy flavor liked by English people, and by a growing number of Canadians.

point in exhibition butter.

The second point is the grain and body of the and work out his operations on business prin-nicely, i.e., when he pulls a sample out of the print, ciples. Dairying for profit, like many other tub, box, or crock, it should leave the back of things, lies behind so much fine figuring that the trier clean—not greasy; should be close in annoyed at having to go over another lot or two majority never get at the real truth, thereby body and texture, and not too hard and brittle, after he has finished a class, which possibly means majority never get at the leaf truth, thereby body and the butter is of such after ne has mished a class, which possibly means making their work a drudgery in place of nor yet too soft. When the butter is of such that he may have to alter the score on several consistency that it spreads nicely on bread, its lots, in case of ties. The person who delivers D. D. Gray. grain and texture are considered perfect.

Temperature of the cream and butter at the "cold justice." In the article which Mrs. Tomes prepared for time of churning and temperature of the butter at of the fat which is influenced by the cow and her that they spoil it, and in many cases the lot sent described and is learned only by experience. exhibitions, or at any other time. Working sufficiently to mix the salt well, then hours before finishing the working, is a much

spaces as before. In finishing off the surface and value a good cow very much above an working twice. If these points are noted there is layer always be careful to cut a groove right inferior cow. in butter are prevented by straining the cream into the churn, thus removing particles of curd, dried cream, etc., that produce "specks."

Salt at the rate of three-quarters to one ounce of salt per pound of butter for prints and one-half ounce for boxes. Tubs and crocks may usually be salted the same as for prints, because these are chiefly sold on local markets, where the demand is for higher salting than for the export trade.

The use of fine salt having sufficient moisture present in the butter to dissolve the salt, and twice working, will usually prevent grittiness which is the most common fault under this head after "too high" or "too low" salting. The tendency is for milder salt in butter, in order that the true creamy flavor of the butter, may be more apparent.

The oblong pound print, wrapped in plain parchment butter paper, is the best form. The print should not be too high and narrow, which gives the judge the impression that the butter cannot "stand-up." The top, bottom, sides and ends should be close and straight, or nearly so. Some prints look as if some one had sat down on one edge of them. This is caused by a faulty printer, or not removing the butter properly from the printer. By holding the ladle against one side of the print, the butter can usually be removed without trouble. The fifty-six-pound box is best for export. This should be neatly finished on the top. A fluted roller passed over the smoothed surface of the butter, relieves the top of that tendency to a greasy appearance. The box should be lined with heavy parchment paper. The butter should be packed in small lots so that In no case should the cream have more than five if the judge "strips" the package it will present a close, uniform appearance on all sides and on the bottom. As a rule it is not necessary to put salt paste, or anything except the parchment paper, on the top of the butter. Tubs, crocks, etc., weed flavor, is a great help in getting fine-flavored should be filled to within about half an inch of the top, then be covered with a parchment paper, or clean cloth circle, and nothing else except the cover. Fancy patterns or scrolls on top of the butter are usually disliked by the judge.

GENERAL DIRECTIONS.

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1. Have the butter made at least three days able, this pasteurized cream may be cooled to before it is judged. This gives time for the grain about 50° and be churned without any ripening to set and the color to become uniform. It is a whatever, after standing one or two hours. Such mistake to send butter to an Exhibition the same day or the day after churning.

2. Ship in a clean case, preferably enclosed in Don't forget that flavor is the most important another case, or in a canvas cover. In hot weather pack in ice before shipping or delivering. Pieces of ice in the basket or box containing the prints tend to keep the butter cool and firm. If the exhibition has a good refrigerator, ship in time to have the butter cool before judging day. late at an exhibition seldom gets more than

3. Be not over-anxious with the exhibition

Work sufficiently to make the body firm, the butter chiefly on the question of flavor. He or color even, and the appearance waxy, but avoid she will not consider the grain, color, salt and too extremes of "over" or "under" working. package. These are the five main points to The "end-point" is something which cannot be always keep in view when making butter for

O. A. C., Guelph. H. H. DEAN.

Prize Butter Making.

We have been much interested in the articles

er to obtain the int is to have ks, waves, etc., etent judge, as ip. The preattermilk with of fine salt and noted there is White specks" ing the cream ticles of curd, pecks."

; to one ounce s and one-half s may usually ause these are e the demand port trade.

ient moisture the salt, and ent grittiness der this head salting. The in order that tter, may be

ped in plain form. The arrow, which t the butter m, sides and or nearly so. sat down on by a faulty roperly from inst one side be removed ind box is tly finished d over the es the top of . The box nent paper. lots so that will present s and on the to put salt nent paper, rocks, etc., an inch of nent paper, except the top of the

> three days r the grain n. It is a 1 the same

nclosed in In hot aining the firm. If r, ship in ging day. is usually lot or two bly means n several delivers ore than

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DEAN.

salt and

articles ırtment J. The y Mrs. aluable ugh in are not of the always

on, to prevent the butter forming into chunks. of entering the ministry, the latter the army. We have always found that when butter gets But the call of far-off Canada was stronger into lumps it is more difficult to get the butter- than either ministry or army, and the former milk removed, also more troublesome to salt came to the Moose Mountain country in 1886, and evenly. We cannot just see what merit there the latter in 1892, for the purpose of farming. is leaving the butter in the churn for half an hour. Charles homesteaded and afterwards bought a We always like to get the churning done with as quarter section more. William spent some time quickly as possible, and the utensils cleared from in fruit farming in British Columbia, afterwards the kitchen. We always use a strainer too, when returning to the Cannington district of thMe taking the buttermilk off, for when the butter Mountain country and homesteaded. granules are the size of wheat grains some of

own practice we have always guessed at the purchased their first colony at Portage la Prairie. weight of salt used and generally came near The prospects the first year were not at all the enough the mark, though we believe it would be brightest for the colony did not winter well and more accurate and better to use the scales. The neither did the honey—the bees died and the trouble we always experience is this: We salt honey got frozen. in the churn and unless the butter is taken out and ounces,—we have no idea as to how much butter practically surrounded by bluffs, thus being ordinary lever worker, and turning it over about much. To supply the nectar for summer patches three times. The butter is then put up in rolls of alsihe clover are raised. White clover is also to infect the maple and poplar. Its ravages on them are, fortunately, however not so or prints. If we have any criticism to make of raised. In seeking its food the bee is a valuable the methods employed by your correspondent assistant to the Messrs. Cooper who are extensive it would be that she takes too much time in gardeners. affecting the transformation from cream to butter. By her method an entire forenoon is required in nection with food supply, the only attention the

APIARY

Honey Production In The Moose Mountain District.

EDITOR FARMER'S ADVOCATE:

But few of the residents of the Moose Mountain in the West, as much of the honey shipped from country, much less others, realize that another the East has been found to be adulterated. profitable industry can be successfully carried on despite the fact that the winter temperature the interesting and attractive features of the occasionally reaches the forty below zero mark. Moose Mountain Agricultural fair held at Carlyle. success of bee-keeping.

"Try bees," was the suggestion of a Canningthem are liable to escape through the outlet. ton lady and for once the bachelor brothers Then there is the matter of salting. In our decided to take a lady—at her word—and they

However, another colony was purchased and weighed and put back in again, which is no small increased with the years until to-day the Messrs. chore on our farm-where the nearest set of Cooper have sixty-eight colonies, which in the we have or how much salt we add. Of course, sheltered from the winds. In the winter the after a time, when one gets accustomed to hives are stored in the cellar. The food supplied

Aside from the above mentioned labor in conthe operation, altogether too much for the average housewife to devote to it.

Brandon.

Mrs. J. M. A.

Brandon.

Mrs. J. M. A. of honey is not fraught with the dangers which the unitiated might imply. After being among the bees for some time their sting is scarcely noticeable.

> In placing the colonies away for winter, care is taken that a sufficient supply of honey is in each colony—about fifty pounds. In some cases honey is taken from the stronger colony and given to the weaker.

Coming to the financial side of the bee industry, we may say that last year the Messrs. Cooper had The Moose Moutain country has, since its first a two-ton harvest which was disposed of locally settlement in the early eighties, been looked upon at fifteen cents a pound. The honey harvest, as an ideal mixed farming country-one produc- like other harvest, may vary according to the seaing some of the best cattle in the West, and wheat son, showers and hot weather between, being the unsurpassed in both quality and average yield. most favorable. A ready market is always found

Cooper Bro's. honey exhibit is always one of

The industry we have reference to is that of the The Messrs. Cooper after ten years successful production of honey, and Cooper Bros., a few bee culture are fully convinced that the producmiles north of Carlyle, Sask., have with an tion of honey can easily be made a valuable experience of ten years fully demonstrated the adjunct to the industries of Western Canada, and particularly amidst the sheltered vales and bluffs Chas. Cooper was born in India, and William of the beautiful Moose Mountains, so aptly in Somerset county, England, not far from described as the "Park Country." The long

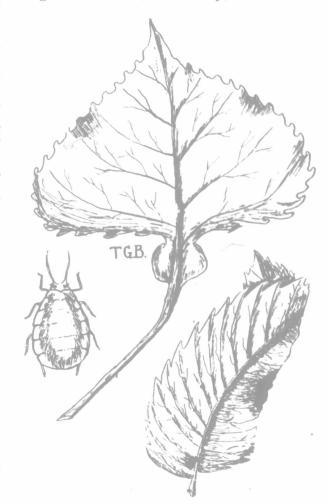
found it best to wash the butter right out immed- Mountain district gets its name. Charles the busy bee every opportunity to work overiately the buttermilk is drawn, revolving the attended Chard grammar school and William time and Cooper Bros. two-ton harvest last year churn quite rapidly while the operation is going Cheltenham school, the former with the intention is indisputable evidence that the opportunity is taken advantage of.

THOS. JARROTT.

Horticulture and Forestry

Plant Lice and Gall Lice: Some of the Species that Injure Shade and Forest Trees.

Considerable injury has been wrought in some localities this season by plant lice working on the leaves of the elm, maple, cottownood, poplar and other trees. In Winnipeg the elm shade trees on the streets have been attacked, by an insect that causes a partial curling of the leaf, forming an enclosure within which the insects lay their eggs and hatch their broods. At this scales is in the barn, and they won't weigh in summer are located near their house and are life cycle is completed and having laid the eggs season they have nearly all disappeared. Their to perpetuate their species next year, the brood of 1907 is no more. They have left, however, guessing, fairly satisfactory results are attained. the colonies to tide them through until the and some of the weaker trees have been checked We don't like to work our butter too much, we blossoms come, is mostly old honey which may in growth or permanently injured by their have never used a Water's mixer preferring the have become somewhat discolored or heated too attacks. This species, or one very similar to it, ravages on them are, fortunately, however not so



Cannington, from which Cannington in the Moose sunshiny days common to this country give Work of the Elm Leaf Louse and Willow Gall INSECT, WITH WINGLESS FORM OF ADULT.

serious as they are on the elm. Another species is at work on the poplar and cottonwood, but it is a gall former, that is to say forms galls, or unnatural growths on the twigs or leaves in which it passes its life and rears its young.

Plant lice are among the lowest forms of insect life. They are so common that a detailed description of them is unnecessary. Nor would such description serve any useful purpose here since they are so minute that the ordinary observer would gather little information concerning the species from a casual examination of the individual. The illustrations here given showing the manner in which they affect injury to their hosts, is a better means of guiding us to an understanding of their habits, their characteristics and their appearance. There are some points however, in respect to these insects that is of general interest, that applies to nearly all species and which is interesting enough to be taken up here. The first of these is their manner of reproduction. The rapidity with which these creatures multiply and reproduce themselves is simply marvellous. Huxley, the eminent English scientist estimated that ten generations of plant lice from a single ancestor would produce



Cooper Bros. Apiary in the Moose Mountain Country

bulk of 500 million human beings, a mass equal eggs are deposited and provision made for it whenever possible to the whole Chinese population, and later perpetuating the species over winter. This investigators believe that if anything this is an done the insect dies. There are two seasons at underestimate. Fortunately, however, these which this pest can be attacked and destroyed. been introduced from England, and has made sub-insects have too many natural enemies to mul- It may be sprayed with some remedy that kills stantial progress in Canada, because it has proved to be the most satisfactory means of preparing tiply with such stupendous rapidity as this. by contact as whale oil soap or Kerosene Emulsion these habits makes itself one of the most bene- ment in all cases is the same. ficial forms known.

lice multiply themselves with such rapidity, is a method known to scientists as "parthogenisis," which means virgin birth. That is to throw out unnatural growths or galls, in which say individuals are born alive from a single female, and these in turn go on generation after generation, producing living young, not from the egg as insects are usually produced, but by actually giving birth to living individuals. This continues in most cases until well into August, when a generation is produced that contains both males and females, that is winged and that reproduces itself through the egg. This is the stage in which the winter is passed. In the spring the return of warmth hatches the egg which has been laid on some convenient twig, and the sexless "stem-mother" which it produces, brings forth her sexless generations of living lice, and these in their turn bring forth theirs in inestimable numbers until the return of fall brings round again the brood of sexed and winged forms by which perpetuation and dispersion of the species is ensured. The winged forms may appear once or twice during the summer but true males are produced but once. The fact too that this last generation has wings provides not only for the dispersal of the pest but for the return to some perennial plant of the summer broods that have been feeding upon grasses and other annual plants.

enjoyed by ants, and these creatures in a surprisingly intelligent way care for the plant lice, 'the milch cow of the ant.'

There are a number of predaceous and parasitic during the summer season, or the trees may be stage of their existence, and are the means two named, in winter to destroy the eggs. Sumwhich nature provides of holding them in check. mer treatment is the most effective and kerosene One of the most common of the predaceous forms the best remedy. Insects of the same species

typical gall former. It differs from the species entire absence of such tissue just described in that it causes the plant to the lice develop and reproduce themselves. These galls form right at the base of the leaf, are found most abundantly on poplar, are gen- ing Station, Bowmanville, Ontario, are given: erally spherical in shape and about half an inch in diameter. They are so common this year on the poplar that a casual observer might readily mistake them for a natural growth, nearly every leaf is infected. If one of them is cut open any time after mid-summer it will be found full of plant lice, the progeny of a single specimen that laid an egg here earlier in the season and with the egg excreted a minute drop of poison which irritated the plant and produced the gall. There are hardly any of these gall making species abundant enough to be seriously troublesome. Should they become so, however, the remedies

POULTRY

advised will be found as effective as any.

The Fattening of Farm Chickens.

"Advanced Methods of Poultry Farming," by Another remarkably peculiar thing about insects of these species is the relationship that Government, came to hand some little time ago. Most of the plant lice excrete a honey like sub- the whole business of poultry farming. Attention stance called "honey dew", which is greatly building of a poultry farming the plant lice excrete a honey like sub- the whole business of poultry farming. Attention stance called "honey dew", which is greatly building of a poultry farming the property of the industry from the building of a poultry house and establishing a flock to the fattening of the chickens and the marketing prisingly intelligent way care for the plant lice, of them or their products at home or in the British drive awa, their natural enemies carry them market. The advice given all through is thoroughly bodily to better feeding grounds and when practical in its nature, it is given by a practical man necessity arises they assist in migrations from and is based largely on work actually done in the place to place and actually prepare locations in chicken business in Alberta. As such it appeals advance of transportation. To the ants these particularly to poultry men of the west. It is the insects bear about the same relation as the milch cow does to man. In fact they are called "the milch cow of the ant."

given, makes its apearance in July and the first poultry offered for sale is poorly fleshed and equally tionally good showing a profit of over 100 per cent, signs of its presence is a slight curling up of the leaf edge. If this little fold is opened up a number of very small, wingless, greenish blue mites will be seen within. This is one of the sexless generations, it has been produced by a winged "stem-mother." and each individual of the brood stem-mother," and each individual of the brood strated that poultry should be specially fattened flesh in the fattening crate. is now producing sexless generations of its own. in much the same way as beef, mutton or pork, in It is not an unusual thing to find from one to a order to produce the best results. It is just as readozen lady beetles within this enclosure too, as sonable to confine poultry when being fattened busily engaged in devouring the lice as the lice as the larger animals. The simplest method of doing are in reproducing themselves. About the middle of August, males and winged females are the birds intended for sale were only confined in a produced. The males may or may not be suitable shed with a clean floor, good ventilation, winged, but the females are always thus pro- and such foods as would be fed were the birds being vided. They emerge from the leaf and are fattened in crates. The crate system is much the

a mass of organic matter equivalent to the ready to migrate to other locations where the better plan, however, and it is advisable to adopt

to be the most satisfactory means of preparing poultry for market. The work of fattening is readily conducted in the crates. The gain in live weight insects that prey upon or infest them at every treated with washes or solutions similar to the made by the birds ranges from on to three pounds per chicken during the fattening period.

Crated chickens command an increased price per is the lady beetles, an insect that feeds upon as this attack nearly all deciduous trees, maple, plant lice and such forms continually, and from oak, cottonwood, poplar and willow. The treatthese habits makes itself one of the most benement in all cases is the same species pound because they supply a much larger percentage of meat than when lean. The flesh is also more tender and palatable because it is produced by the wholesome food that is of necessity feed during the fatten-The other figure in the illustration represents ing period. The confining of birds in crates also tends to render the muscular tissue less tough, and a very common pest of the poplar. This is a tends to render the muscular tissue less tough, and in properly fattened birds there should be an almost typical gall former. It differs from the species

> Cost of Food and Grain in Weight by Crate Feeding.—To illustrate the grains which can be obtained by crate feeding, the following figures taken from the results obtained at the Dominion Government Breed-

	REC	RECORD OF FATTENING RESULTS.	FAT	FENIN	G RESI	JLTS.			
No. of Chicks	Weight of Chicks	Cost of Chicks	Cost of Meal	Cost of Milk	Total Cost	No. Ibs. Grain	Dressed Weight	Am't rec'd at 15c.	Profit over Cost
90	lbs.	0 1 0 1	O (° °	0 1	o	Ibs.	° ° °	.C.
2 4	164	11.48	I. 60	000	9.77 I3.93	.76	194	29.10	15.17
200	105	11.55	2.10	I.IO	14.75	00	194	29.10	14.35
× 4	140	10.22	I.90	I.00	13.18	04	174	25.95	12.77
00	195	13.05	2.10		16,62	105	220	33.00	16,38
00	185	12.95	I.70		15.35	00	210	31.50	10,15
02	200	14.00	I.80		16.67	00	205	30.75	14.08
72	166	11.62	3.75	- 1	16.62	000	23I	34.65	18.03
434	1332		16.31		116,89	594	I 573	235.95	119.00

The elm leaf louse, illustration of which is demonstrate that a large amount of the dressed type and the results, as will be observed, were excep-

In order to have the chickens plump and well fleshed for the market when they are at the most profitable age, they should be placed in the fattening crates when they are between three and four months It is not meant by this that the chickens cannot be fattened profitably when they are more than four months old. Suitable market chickens will show grains in the crate at any age, but the most profitable grains are made by birds weighing 31 lbs. to 4 lbs.

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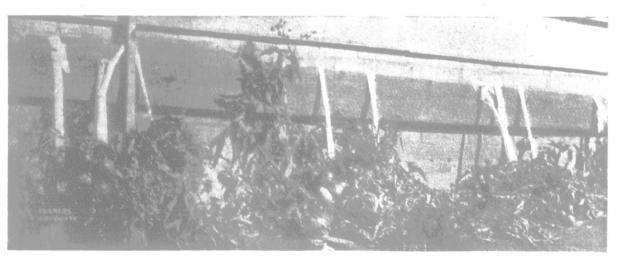
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Construction of Fattening Crates.—The fattening crates are 6 feet long, 16 inches wide and 20 inches high, inside measurements. Each crate is divided by two tight wooden partitions into three compartments, and each compartment holds four birds. The frame pieces are two inches wide and \(\frac{7}{8} \) inches thick. This frame, see Fig. 38, is covered with slats placed lengthwise on three sides,—bottom, back and top,—and perpendicular in front. The slats for the bottom are 7 inches wide and 5 inches thick; the back, top and front slats are the same width but only 3 of an inch thick. The space between the slats in front are two inches wide to enable the chicken to feed from the trough. The bottom slats are 11 inches apart, with the exception of the space at the back of the crate, which is 21 inches wide. The bottom slats are always placed upon the top of the cross pieces of the frame. This is done to prevent any injury to the chickens' feet should crate be moved and placed on the ground when full of birds. The back slats are placed lengthwise 11 inches apart, and the top slats are also placed lengthwise 2 inche apart. Two strips should be nailed under the top slats near the ends of each division and hinged to



TOMATOES AND TOMATO VINES AT EDMONTON

g the past few or market has has made subit has proved of preparing ming is readily in live weight three pounds

ased price per ger percentage so more tender by the wholeng the fattenin crates also ss tough, and be an almost

y Crate Feedi be obtained aken from the nment Breede given:

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a desirable rere excepper cent

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rill show profitable to 4 lbs. fattening 20 inches ; divided compartir birds. 7 inches rith slats m, back slats for s thick; ie width between able the om slats he space es wide e top of to precrate be

of birds.

s apart.

2 inche the top nged to

the ends of the crate. The bottom of the trough should be 4 inches above the bottom of the crate Twenty-Ninth Canadian National Exhibition. and the upper inside edge 2 inches from the crate.

the frame work. When the slats are sawn above

the partitions, doors are formed for putting in birds.

ground and the droppings from the chickens received

on sand or other absorbent material. A light "V" shaped trough 21 inches inside is placed in front of

each crate, and is carried on two brackets nailed to

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doors in a sheltered place.

In unsettled weather it is advisable to construct a rough board shelter above the crate so as to shed the rain; or the fattening should be carried on inside 'a shed or barn.

During cold weather the crates should be placed in a warm building. Abundant ventilation 1S required at all times.

Killing Lice.—Before the birds are put into crates they should be well dusted with sulphur, or any

This habit is caused by irritation at the roots of the feathers, and results either from over-heated blood the fattening ration.

If the trouble is caused by parasites, they will be found in the white powdery matter at the base of the quill. A sulphur and lard ointment should be applied to the affected parts.

Feeding.—It is necessary to feed the birds lightly the first few days they are in crates, not feeding all they will consume. The food should be given twice a day, and after the birds have eaten what they troughs turned over. Fresh water should be supplied daily, and grit two or three times a week.

the coarser hulls sifted out, have proved the best prepared. grain for fattening and should form the basis of all the grain mixtures. The most suitable meals for fattening are ground oats, buckwheat, barley and low grade flour.

Satisfactory mixtures of meal:

(1). Ground Oats (course hulls removed). (2). Siftings from rolled oats (no hulling dust should be included).

Two parts ground oats, two parts ground buckwheat, one part corn. (4) Equal parts of ground oats, ground barley

and ground buckwheat (5) Two parts of ground barley, two parts of low grade flour and one part of wheat bran.

The meal should be mixed to a thin porridge with sour milk, skim milk, or buttermilk. On the average, 10 pounds of meal require from 12 to 15 pounds of

When sufficient skim milk or buttermilk cannot be obtained for mixing the mashes, a quantity of meat meal, blood meal, or beef scraps and raw vegetables should be added to the fattening ration. A good the spending of every afternoon for a week in the proportion is one part of the meat meal to fifteen ring. On account of the way in which the judging

of oatmeal. for a period not exceeding 24 days Some birds will fatten more readily than others and should therefore, be removed from the crate and killed as soon as they are ready. During the last week it is well to feed a little beef tallow, shaved into the trough or melted and mixed in the mash. About one pound of tallow to 50 or 60 chickens per day is a fair allow-

Marking Eggs.

The suggestion is made that poultry raisers or rather all those engaged in the production and date upon which they were layed. The sugges- had been judged, of several horses previously passed tion is a good one. It would tend to add a greater by the vets who subsequently threw them out. The value to fresh eggs and increase confidence in prevailing trouble or excuse appeared to be sidehonest producers. In winter a fresh egg that is honestly stamped with its age would bring fifty per cent, more than if the consumer had to take the risk of its age. Stamps are easily procured an as one of his business practices.

FIELD NOTES The crates are placed on stands 16 inches from the

Three new buildings costing over \$400,000 are In fattening for the market it is always advisable the past year's monument to the enterprise of the ham & Renfrew; 2, Boreland Chief, Graham Bros; to use the fattening crate described in this bulletin. Canadian National Exhibition management and the If only a small number of chickens are to be fattened municipal council of the city of Toronto. Last fall packing boxes of suitable dimensions can be adapted on Thanksgiving eve, the grand stand and main for the purpose. The open top of the box should building on the exhibition grounds at Toronto went become the bottom of the crate, and one side should up in smoke. With push that would do credit to be removed for the front. Laths should be nailed any Western city the directorate and the city council up and down the front and lengthwise on the bottom got to work, and today there stands on the scene to form the floor. The laths should be placed the of the conflagration a magnificent quarter-millionsame distance apart as recommended in the con-dollar grand stand, built of steel, brick and concrete, 3, struction of the regular fattening crate. A board and provided with 15,000 chairs, also a superb struction of the regular lattering crate. A board and provided with 15,000 chairs, also a superb should be loosened in the top of the box to remove the architectural achievement in the form of an agrible warm weather the crate should be placed out. One hundred thousand dollars and devoted to the Davies; 3, Marietta, Robt. Davies. In warm weather the crate should be placed out- one hundred thousand dollars, and devoted to the housing and display of farm and garden products. It also is of steel, brick and concrete construction, dimensions 254 feet long by 58 wide, with three wings each 58 feet wide, and extending back 156 In the basement is ample temperature, regulated storage for plants and shrubs. The other new structure is the railway exhibits' building, erected by the railway companies for the housing Gunn & Son; 2, Lady Lockfergus, Robt. Davies. of their annual exhibits.

Toronto's exhibition is a wonder. Year by year good louse killer, to kill any lice on them. They it has grown vastly in excellence and popularity, should be treated again three days before they are and 1907 simply eclipsed all previous records. Conceived on broad lines, backed by the city of Toronto Feather Plucking.—Birds that are fattening in and its individual moneyed men, and pushed forward crates sometimes pluck the feathers from one another. with bold and daring enterprise, begotten of civic with bold and daring enterprise, begotten of civic pride and the stimulation of success, it has now in the eighth year of its majority attained proportions & Tisdale, Beaverton, Br. Cherry Blossom 4, W. E. or parasites. The remedy is to remove the chickens and been evolved to a perfection of organization that do the plucking and feed the others more skim and management, that fairly beggar superlatives. To Brood mare, we coal of the second mare we coal of the second mare we coal of the second mare. milk, or add animal food and vegetable matter to these encomiums the attendance testifies. Though continuing for two whole weeks it drew this year day after day, crowds ranging from sixty to a hundred and twenty-five thousand people, and as for the grandstand it is already quite too small. Night after night it was packed long before the performance began and throngs of four. five and six thousand filled the space between the stand and the track rail. The evening attractions were hippodrome and pantomime followed by band music, tattoo and pyrotechnic exhibitions, all of a high order. The require, the balance should be removed and the midway was relegated to a remote corner of the grounds and was unusually free from objectionable features. The display of manufactured goods was Fattening Rations. — A satisfactory fattening infinite and the process building afforded instructive ration is one that is palatable and that will produce entertainment for multitudes interested in seeing Marigold Sailor. a white-colored flesh. Oats, finely ground, or with how the things we daily eat and wear and use ar

But from an agricultural point of view the crownnig glory of Toronto Exhibition is the live stock, and the usual high-class aggregation was on hand. horses the most noteworthy and encouraging fact bull, senior yearlings, calved before January 1, was the continued improvement in the class for Canadian-bred draft, (the Clydesdale or Shire). Guelph, Rose Victor; 2, Geo. Amos & Son, Moffat, Thoroughbreds, Standardbreds and Roadsters were Hero. Coach horses were entered at all in the breeding classes. A departure this year was in judging all the horses, breeding classes as well as harness and saddle exhibits, in front of the grand stand. few classes of every breed being pulled off each day. Formerly, it has been customary to show the breedclasses in a small separate ring where they could be watched by horsemen and others interested. without any charge. The old plan is preferred by the horsemen, for under the present system, few farmers see the judging done, as to see at all would necessitate the payment of six admission fees and crest. was spun out it was inconvenient for some of the The birds should remain in the fattening crates judges to be present long enough to dispose of their particular breeds, hence some substitution was resorted to. The following men decided the honors Sons, Scottish Knight. in the respective breeds. Throroughbreds, 1 r. J. in the respective breeds. Throroughbreds, 1 r. J. Bull, senior champion, over two years—1, W. G. Rutherford, Ottawa, and J. S. Bratton, St. Louis, Pettit & Son, 2, R. A. E. Meadows. Mo. Standardbreds and Roadsters, Dr. Rutledge, Lambeth, Ont. Hackneys, W. H. Gibson, Beaconsfield, Que., and J. S. Bratton, Clydesdales, Shires and Canadian Draught's, Capt. T. E. Robson, London, Ont., Alex Russell, Corville, Ont., Alex Gal- R. Kyle Bros. braith, Janesville, Wis., and Prof. Curtis, Ames, Iowa. For the most part the wor was well done, Iowa. For the most part the wor was well done, Pine Grove Clipper; 2, J. A. Watt, Tiny Maud; 3, J. A. though there were cases of course, where the rail Watt, Olga Samford-4, W. G. Pettit & Sons, Warden talent differed from the dispensations of the ermine Blossom. wearers. One practice, however, that must not pass sale of eggs, stamp each day's gathering with the unmentioned was the disqualification, after they istration of the show.

Clydesdale awards.—Stallion 4 years or over, Sir Marcus, Graham & Renfrew, Bedford Park

Stallion, 4 years and over, importers excluded— 1, Royal Baron, Hodgkinson & Tisdale, Beaverton; 2, Durbar, Orangeville Association; 3, Cairngaan, David Graham, Pickering; 4, Caleph, John Raymer Ringwood.

Stallion 3 years old—1, Buteman, Graham Renfrew; 2, Royal Choice, Graham Bros.; 3, Buchlyvie Laird, Smith & Richards n; 4, Kilfillan Chief, Thos. Mercer, Markdale; 5, Vanderbilt, Robt. Ness.

3, Bullseye, Dalgety Bros., London; Baron Columbus, Smith & Richardson.

Stallion 1 year old—1, Royal Benedict, Robt. Ness; 2, King o' the Barons, Graham Bros.; 3, Gay Sprig, Graham & Renfrew.

Champion geld mare—1, Flora of Ardyne, Robt. Davis; 2, Pearl, Donald Gunn & Son, Beaverton Lady Macraith, Wm. Edwards, Claremont.

Filly 2 years old-1, Margherita, Donald Gunn & Son; 2, Crissa Princess, Hodgkinson & Tisdale; 3, Strawberry Bloom, Robt. Ness.

Yearling filly-1, Hilda 2nd, Graham Bros; 2 Cragie Belle, Hodgkinson & Tisdale; 3, Belle of Dildawn, Robt. Ness.

Brood mare and foal-1, Dunrobin Mabel, Donald

Stallion, three years old—1, T. A. Cox, Brantford, Crayke Mikado; 2, A. E. Yeager, Nottington Squire; 3, Graham & Renfrew Co., Bedford Park (imp.) Cliff Royalist.

Brood mare, w : oal of the same breed by her sido—1, Grah ros., Claremont, Ch. Minerva 2, Hodgkinso isdale, Br. Wild Cherry 3, H. J. Spencely Boxgrove, bay, Rosalee 4, Graham Bros., Claremont, Missire.

Foal of 1907-1, Graham Bros., Claremont, Gondolier 2, Graham Bros., Toggeny 3, Graham Bros., Madonna 4, Hodgkinson & Tisdale, Beaverton, Dictator.

SHORT HORNS.

Bull, three years old and upwards-I. W. G. Pettit & Sons, Freeman, Prime Favorite; 2, J. A. Watt, Salem, Jilt Victor; 3, W. C. Edwards & Co., Rockland, Ont., Bertie's Hero; 4, Peter White, Pembroke,

Bull, two years old and under three-1, A. E. Meadows, Port Hope, Challenge Plate; 2, John Guardhouse & Sons, Highfield, Prince of Archers; 3, John Miller, jun., Ashburn, Lancaster Champion; 4, James Cowan, Seaforth, Golden Emir.

The open classes of Clydesdales as well as Hackneys, Bud's Emblem; 3, Hastings Bros., Crosshill, Snowball

Bull, junior yearlings, calved on or after January 1 -1, Kyle Bros., Ayr, Clipper Chief; 2, J. A Watt, The Dreamer; 3, W. R. Elliot & Son, Victor of Maple Hill; 4, John Guardhouse & Sons, Prince Victor.

Bull calf, senior, calved before January 1, 1907, and under one year—1, Thomas Redmond, Millbrook, Gallant Sailor; 2, Geo. Amos & Son, Lancaster Victor; 3, Daniel Talbot & Son, Everton, Hillcrest Granger; 4, John Miller, jun., Choice Merchantman; 5, John Fairbairn, Spring Creek Archer; 6, H. Smith, Exeter, Jealous Lord; 7, Daniel Talbot & Son, Pride of Hill-

Bull calf, junior, calved on and after January 1, 1907—1, H. Smith, Baron's Pride; 2, Kyle Bros., Jessie's Chancellor; 3, Kyle Bros., Vice-Chancellor; 4, W. G. Pettit & Son, Tillbouries Favorite; 5, W. R. Elliot & Sons, Golden Star; 6, John Guardhouse &

Bull, junior champion, under two years -1, Kyle Bros. 2. R. W. R. Elliot & Son.

Bull, grand champion-1, W. G. Pettit & Son; 2, Cow, three years old and over-1, W. C. Edwards,

Cow, under four years, in milk-1, H. Smith, Golden Lovely.

Heifer, two years old and under three-1, Geo. Amos & Son, Flora 90th; 2, W. C. Edwards, Butterfly Girl; 3, W. G. Pettit & Sons, Rosetta 12th; 4, J. A. Watt, Fanny B. 38th; 5, W. G. Pettit & Sons, Jilt's Lady; 6, John Guardhouse & Son.

Heifer, senior yearling, calved before January 1st, the risk of its age. Stamps are easily procured and the egg producer who is anxious to develop amprove a first-class trade will adopt this an as one of his business practices.

1, Sir Marcus, Oraham Bros. Claremont 3, 1906, and under two years—1, Peter White, Pemarkan Bros. Claremont 3, 1906, and under two years—1, Peter White, Pemarkan Bros. Claremont 3, 1906, and under two years—1, Peter White, Pemarkan Bros. Claremont 3, 1906, and under two years—1, Peter White, Pemarkan Bros. Claremont 3, 1906, and under two years—1, Peter White, Pemarkan Bros. Claremont 3, 1906, and under two years—1, Peter White, Pemarkan Bros. Claremont 3, 1906, and under two years—1, Peter White, Pemarkan Bros. Claremont 3, 1906, and under two years—1, Peter White, Pemarkan Bros. Claremont 3, 1906, and under two years—1, Peter White, Pemarkan Bros. Claremont 3, 1906, and under two years—1, Peter White, Pemarkan Bros. Claremont 3, 1906, and under two years—1, Peter White, Pemarkan Bros. Claremont 3, 1906, and under two years—1, Peter White, Pemarkan Bros. Claremont 3, 1906, and under two years—1, Peter White, Pemarkan Bros. Claremont 3, 1906, and under two years—1, Peter White, Pemarkan Bros. Claremont 3, 1906, and under two years—1, Peter White, Pemarkan Bros. Claremont 3, 1906, and under two years—1, Peter White, Pemarkan Bros. Claremont 3, 1906, and under two years—1, Peter White, Pemarkan Bros. Claremont 3, 1906, and under two years—1, Peter White, Pemarkan Bros. Claremont 3, 1906, and under two years—1, Peter White, Pemarkan Bros. Claremont 3, 1906, and under two years—1, Peter White, Pemarkan Bros. Claremont 3, 1906, and under two years—1, Peter White, Pemarkan Bros. Claremont 3, 1906, and under two years—1, Peter White, Pemarkan Bros. Claremont 3, 1906, and under two years—1, Peter White, Pemarkan Bros. Claremont 3, 1906, and under two years—1, Peter White, Pemarkan Bros. Claremont 3, 1906, and under two years—1, Peter White, Pemarkan Bros. Claremont 3, 1906, and under two years—1, Peter White, Pemarkan Bros. Claremont 3, 1906, an

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Peter White, Glo'cester Queen 5th; 6, H. Smith, Village Rose.

Heifer, junior yearling, calved on or after January 1st, 1906-1, Peter White, Belvedere Lily 9th; 2, John Currie, Eramosa, Ont., Roan Beauty; 3, H. Lee & Sons. Smith, Beauty Rose; 4, Thos. Redmond, Marigold
44th; 5, Geo. Amos & Son, Lady Mysie; 6, Kyle Bros., G. W. Clemons. Lady of the Valley.

1007—1, John Dryden & Son, Golden Heroine; 2, 5, A. C. Hallman. J. A. Watt, Salem, Mildred 30th; 3, Peter White, Bedford Bessie; 4, Geo. Amos & Sons, Victoria 75th; W. P. Pettit & Sons, Averne 13th; 6, Goodfellow

Female Senior champion—Geo. Amos & Sons, Flora 90th, Reserve, W. C. Edwards, Pine Grove Clipper.

Junior female champion-Peter White, Mina Lass 14th.

Grand female champion—Geo. Amos & Sons. Graded herd: bell, two years old and over, cow, three years or over; heifer, two years and under three heifer, one year and under two, and heifer under one year—1, W. C. Edwards; 2, J. A. Watt; 3, W. G.

Pettit & Sons. two heifers one year old and under two, and two heifers under one year-1, Peter White; 2, H. Smith; 3, Kyle Bros.; 4, J. A. Watt.

Breeder's herd: one bull under two years, two yearling heifers, and two heifer calves, all bred and owned by exhibitor-1, Jno. Dryden & Son; 2, H, Smith; 3, J. A. Watt; 4, Geo. Amos & Son.

JERSEYS (120 ENTRIES).

Bull, three years and upward—1, Wm. McKenzie, Kirkfield; 2, 3, and 4, R. H. Bull & Son; Brampton. Bull, two years old—1 and 2, R. H. Bull & Son 3, David Duncan, Don; 4, E. Wicks & Son, Bedford

. Carlton West

Bull calf, under one year—1 and 3, B. II. Bull & 5, Harold M. Morgan. Son; 2, E. Wicks & Son; 4, E. P. Ball. Rock Island, Bull calf, calved Que.

Bull calf, calved since January 1st, 1907—1, David Duncan; 2,3,4, B. H. Bull & Sons.

Bull, senior champion-1, Wm. McKenzie, Pearl Bull, junior Champion-T. Porter, Golden Fox of

Dentonia. Grand champion bull—1, Wm. McKenzie, Pearl of King's Own.

Kirkfield. Cow, four years old and over—1 and 3, B. H. Bull

& Son; 2 and 4, David Duncan. Cow, three years old-1, B. H. Bull & Son; 2, Wm. McKenzie; 3, David Duncan; 4, E. Wicks & Son.

Cow of any age with two of her progeny—1 and 2, B. H. Bull & Sons. Heifer, two years old—1, 3, 4, B. H. Bull & Son; 2,

David Duncan. Heifer, one year old—1, David Duncan; 2, 3, 4, B. H. Bull & Son.

Heifer, one year old, out of milk-1, 2, David Duncan; 3, B. H. Bull & Son; 4, T. Porter.

Heifer calf, under one year-1, 2, 4, B. H. Bull & Son; 3, David Duncan.

Heifer calf, calved since January 1st, 1907—1, T. Porter; 2, 3, 4, B. H. Bull. Four animals, the progeny of one bull, all bred and owned by one exhibitor—1 and 3, David Duncan;

2, B. H. Bull & Son. Herd, one bull and three heifers under two years

old; heifers bred and owned by one exhibitor—I and

female under one year, owned by exhibitor—1, 2, and 3, B. H. Bull & Sons.

Female senior champion—B. H. Bull & Sons, Sweet Eyes. Female Junior champion—B. H. Bull & Son, his wheat on Sept. 4th.

Brampton Henrietta. Grand Female champion = R. H. Bull & Son.

HOLSTEINS.

Bull, three years old and upwards-1, Logan Bros., 3, G. W. Clemons, St. George.

Bull, two years old—1, Logan Bros., N. Bull, one year old-1, Logan Bros., Jacob Clark; 2, G. W. Clemons; 3, J. W. Lee & Son, Simcoe.

G. W. Clemons, Count Posch de Boer. Bull calf, calved after January 1, 1907—1, Logan

Bros.; 2, Logan Bros.; 3, A. C. Hallman Bull, senior champion—Logan Bros.

Bull, junior champion-A. C. Hallman. Bull, grand champion-Logan Bros.

Cow, four years old and upwards—1, Logan Bros.; 2, Logan Bros.; 3, G. W. Clemons, St. George, 3rd; 4, A. C. Hallman, 2nd; 5, A. C. Hallman.

Lee & Sons; 3, Logan Bros.; 4, Logan Bros.; 5, J. W.

Heifer, one year old, in milk—1, Logan Bros.; 2,

Heifer calf, under one year—1, Logan Bros.; 2, the company. Logan Bros.; 3, Logan Bros.; 4, Logan Bros.; 5, G. W. Clemons, Julia Arthur 3rd.

Heifer calf, calved after January 1, 1907—1, Logan Bros.; 2, G. W. Clemons; 3, G. W. Clemons; 4, J. W. Lee & Sons.

Four animals, the progeny of one bull, under two years, owned and bred by exhibitors—1, Logan Chicago are seeking other employment. Bros., 2, A. C. Hallman, 3, G. W. Clemons, 4, Logan Bros.; 5, J. W. Lee & Son.

Herd of one bull and four females over one year old, owned by exhibitor-1, Logan Bros.; 2, G. W. Clemons; 3, A. C. Hallman; 4, J. W. Lee & Sons. Young herd, consisting of one bull and four females,

Female, junior champion—Logan Bros.

Female, grand champion—Logan Bros.

AYRSHIRES (100 ENTRIES). Bull, three years old and upwards—1, R. R. Ness, Howick, Que.; 2, Wm. Stewart & Sons, Menie, Ont., at Minneapolis for the purpose of forming a big 3, P. H. Gouin, Three Rivers, Que.

Bull, two years old-1, Harold M. Morgan, St. Anne de Bellevue, Que.; 2, Alex Hume & Co.; 3, Hector Gordon, Howick, Que.; 4, Harold M. Morgan.

Alex Hume & Co. Bull calf, under one year—1, Hector Gordon; 2, W Stewart & Sons; 3, Alex Hume & Co.; 4, P. H. Gouin;

Hume & Co.; 4, Wm. Stewart & Sons. Bull, senior champion—R. R. Ness, Barcheski have been fired by the mob. King's Own.

Bull, junior champion-R. R. Ness, Netherhall Goodtime. Bull, grand champion—R. R. Ness, Barcheski

Cow, four years old and upwards—1, Alex Hume& Co; 2, R. R. Ness; 3, P. H. Gouin; 4, Wm. Stewart & Sons; 5, P. H. Gouin.

Cow, three years old—1, Alex Hume & Co; 2, R. R. Ness; 3, P. H. Gouin; 4, R. R. Ness. Cow, dry in calf—1, Harold M. Morgan; 2, Alex Hume & Co.; 3, Hector Gordon; 4, R. R. Ness.

Heifer, two years old—1, R. R. Ness; 2, Hector car loads to England on Sept. 20th. Gordon; 3, Wm. Stewart & Sons; 4, Hector Gordon. Heifer, one year old out of milk-1, R. R. Ness; Harold M. Morgan; 3, Wm. Stewart & Sons; 4, Alex Hume & Co.; 5, Hector Gordon.

Heifer calf, under one year old—1, 2, and 3, R. R. heifer calf, under old year ol

Female senior champion, two years and over-1 Alex Hume & Co., Eva of Menie.

Female junior champion, under two years—R. R. Ness, Buchan Flora. Grand female champion—Alex Hume & Co., Eva

of Menie.

Events of the Week.

CANADIAN.

Five hundred miles of government telephone lines will be completed at Alberta by the end of the year.

* * * Bull, three years old and upwards—I, Logan Bros., The Winnipeg Maroons are Champions in the Amherst Point, N. S.; 2, A. C. Hallman, Breslau; Northern Copper Country Baseball League, winning seventy games and losing twenty-seven.

F. Webster, an expert from Ohio, believes that Northern Alberta has a large store of natural gas, body and ought to be so conducted as to be free of Bull calf, under one year—1, C. H. Hallman; 2, and that in two years Edmonton will be using it Logan Bros.; 3, A. C. Hallman; 4, Logan Bros.; 5, as fuel.

An excursion train from Markdale, Ont., to the Toronto exhibition, jumped the track when going round the horseshoe curve below Orangeville. Seven persons were killed and more than twenty injured.

College at Ste. Anne de Bellevue, P. Q., were struck to double their yields. Yet the teaching of the by lightning and totally destroyed. The less is farmers who are themselves now tilling the ear. about \$35 000 but is covered by insurance.

Cow, three years old—1, G. W. Clemons; 2, A. C. A new trade agreement between Canada and Hallman; 3, J. W. Lee & Sons, 4th, Flower 2nd; France allows certain French goods to enter this Heifer, two years old—1, G. W. Clemons; 2, L. W. country at lower rates in return for the granting of the minimum tariff to a number of exclusively Canadian products.

The chief engineer of the Quebec bridge company gave evidence at the inquest that a flaw had been Heifer, one year old, out of milk-1, Logan Bros.; found in the construction. It was thought to be Heifer calf, senior, calved before January 1st, 2, Logan Bros.; 3, A. C. Hallman; 4, G. W. Clemons; unimportant, but an inspector was sent to New York to discuss the question with the engineers of

BRITISH AND FOREIGN.

Revolution is said to be imminent in the Argentine Republic.

The telegraphers' strike does not seem to be likely to end soon, for the operators in New York and

Louis Glass, vice-president of the Pacific States Telephone company, was sentenced in San Francisco to five years in San Quentin prison, for bribery.

A new law making it possible for a professional ettit & Sons.

one year old and under three—1, Logan Bros.; 2, thief who has been convicted more than once, to be Exhibitor's herd: one bull under two years old, G. W. Clemons; 3, A. C. Hallman. arrested when found loitering in a public place, or riding on a public vehicle, and who can be sentenced to six months in prison, has gone into effect.

> A meeting of the presidents and managers of several elevator companies throughout Minnesota was held merger of farmers' elevators. There are two hundred companies in the organization.

The Persian premier, who was also minister of the Bull, one year old—1, R. R. Ness; 2, Alex Hume interior, was assassinated on the last day of August & Co.; 3, Wm. Stewart & Son; 4, P. H. Gouin; 5, The murder is thought to be the work of the more of the murder is thought to be the work of the murder is the murder is thought to be the work of the murder is the murd The murder is thought to be the work of a secret society.

The dock laborers of Antwerp, Belgium went on strike and were locked out. In sympathy with them Bull calf, calved after January 1st, 1907—1, the porters went out and riots have occurred between Harold M. Morgan; 2, Wm. Stewart & Sons; 3, Alex them and the Englishmen who had been brought over to handle the cargoes. Buildings of great value

Calgary Notes.

The Government Poultry Fattening Station sent 1900 pounds of dressed poultry to Calgary recently which fetched 20 cents per pound. The demand all round for good table poultry seems to be considerably in excess of the supply.

Cattle shipments will soon be in full swing now. Already a few consignments have left Medicine Hat. D. McGregor sent 220 head, A. Brown 3 car loads, P. Day 108 head, L. C. Brown 3 car loads. M. D. Mitchell of Medicine Hat will be shipping fifteen

The Direction of the Greatest Progress.

The direction in which the surest and most helpful

progress lies for the betterment of mankind, is not Heifer calf, calved since January 1st, 1907-1, Alex training of youth in a conventional set of studies Hume & Co.; 2, Harold M. Morgan; 3, Wm. Stewart & The most rapid and certain progress would be made by the application. by the application to daily life of the scientific knowledge that has been accumulated. Some discoveries and inventions do find practical application quickly and easily, such as electric lighting, the telephone, the gas-engine inoculation for diphtheria, and many more. Others, and many very much simpler, remain unapplied or are slow in finding practical use. Graded herd, one bull any age; two females over three years, one female over two years and under three; one female over one and under two years; one female under one and under two years; one female over one and under two years; one female under one and under two years are two years. household uses. In the great field of preserving health-preventive medicine, we sometimes call it—we are criminaly slow. The quack and vendor of drugs, even of unknown drugs, do as thriving a Agnus Grant of High Bluff, Man., finished cutting business as they ever did. In those tasks that require more compact social and political organization, such as the conquest of tuberculosis, the prevention of diseases conveyed by milk and water, the extermination of mosquitoes and the like, we go forward hesitatingly. The adoption of healthful methods of eating, even the eating of less food in middle life, is a slow progress. Real health-resorts, or sanitaria places where men and women may learn before disease attacks how to live so as to avoid the ailments that wrong system of life will surely bring, ought to be within the reach of ever-'fads'' and above the suspicion of mere private gain. Along with this conception of right living and of guarding against disease, we ought to develop practitioners of prevention, prescribers of modes of life according to individual needs.

Again, the application to agriculture of the facts that have been demonstrated over and over again, and that are not yet in general use would enable The extensive barns of the Macdonald Agricultural many men, perhaps most men, who now till the soil, has been hardly begun. These facts, for example,

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have been proved time and again: By the expen- Export demand for western wheat shows some volume of business was done. The quality of the

SEPTEMBER 11, 1907

to find a greater public service that it could do.

practical betterment of groups or communities of supply is serious enough to keep prices up above the to \$6. people either to the commercial interests of inventors last few year's average no matter how bountiful \$5.75. (a perfectly good method as far as it goes) or to the the harvest is that is now being gathered in Northbuilders of Utopias or of "colonies," who have largely in 1908 than she has for the past few years. builders of Otopias of of Colonies, who have largely in 1900 than she has for the past lew years, burdened the real work of betterment with a lot of Despite all rumors and reports to the contrary, in a theories and doctrines. There is an indefinate field good many European States, the wheat crop is far of work in furthering the practical application of below normal. The feverish anxiety with which scientific knowledge for all sorts of organizations. Germany snapped up American offerings early in the If a great association of merchants in New York week goes to show that a serious shortage is anticithink it worth their while to attack flies, any prac-pated in the supply there. It is just possible too, tical organization of men or women may find similar that the second half of the season of 1907-08, will tasks near at hand.-World's Work.

Things to Remember.

Nelson Fair September 13-18	
The biblishing Control of the contro	
Victoria Exhibition September 24 28	
New West Minster Exhibition . October 1, 2, 3, 4 and5	
Manitoba Fairs.	

MANIJOBA L'AIRS.
WoodlandsSeptember a
Kildonan September 25 and 26
Gilbert Plains October
PlumasOctober S
Meadow Lea October
MacgregorOctober
Beausejour October 4 and 9
Selkirk October 9 and 10
SASKATCHEWAN FAIRS.
LloydminsterSeptember 19 and 20
Radisson September 24
Quill Lake September 26
Watson September 27
N. Battleford October 1 and 2
Duck Lake October 4

ALBERIA LAU	No.
Didsbury	September 13
Olds	September 16 and 17
Magrath Se	eptember 19 and 20
RaymondS	September 24 and 25
Cardston	September 26 and 27
Medicine Hat	.October 1 and 2
Vermillion	.October 1 and 2
Vegreville	October 3 and 4
Lacombe	October 3 and 4
Ponoka	October 7 and 8
Wetaskiwin	.October 9 and 10
Nanton	October 15
Pincher Creek	October 16
Priddis	October 18
Viking	October 7 and 8
St. Albert	October 8 and 9

MARKETS

came when weather conditions all over the wheat prices strong. belt were unusually propitious, but as the high the close of the week there was a general desire than was anticipated a fortnight ago in many dis- \$4.50. tricts in Saskatchewan, Manitoba, and the Dakotas, caused prices to drop two or three cents as rapidly as they had advanced.

Most of these tasks require community of action. in European demand have not been as heavy as they They require a degree of co-operation that we have should. Importers do not care to buy very heavily eliminate an enormous number of economic wastes countries require wheat, or will require it as soon that we endure only by reason of habit.

It will become one of the evidences of public spirit ing in any volume will be delayed until values here lacon hogs \$6.25; fats and lights \$6.00. in men and in bodies of men that they turn their right themselves more on the basis of supply and attention to such tasks. The Merchants' Associa- demand than they are at present. It is not in probtion of New York had not the slightest idea, when able that present prices will shade off considerably it was organized, that it would ever consider it a during the next three weeks. It is doubtful if any part of its business to set about the possible exter- October wheat will be delivered at prices now current mination of house flies; and yet it would be hard in this option. At the same time there is little find a greater public service that it could do.

We have hitherto left comprehensive plans for the a week ago. The shortage in the world's wheat impractical and badly managed experiments of the western America. Europe is going to import more be more sensational in the matter of prices than this. The play hinges to a arge extent on the forthcoming Argentina crop and the available surplus for export from India. The later country has on former occasions made good deficiencies in supplies, but this year reports from there have so far been disappointing As it stands at present it looks as if nearly all the available wheat of Canada, United States and Russia will be required in the season just opening, so that if Argentina should fail to reap in as great abundance as is now promised, wheat prices about next May will reach a point they haven't touched for some time. But this is largely speculative. With the advance in wheat, oats went up a cent and have maintained the higher level. The general prospects are for steady values for this cereal, though no one can foretell what will happen when the new

crop comes in. Prices are for grain in store at the lakes, wheat, No. 1 Hard, \$1.02, No. 1 Nor. \$1, No. 2 Nor. 98c. No. 3 Nor. 94c. Futures, Oct. 102c, Dec 102c.,

Tisdale.......October 15 and 16

ALBERTA FAIRS.

October 8 Oats per bushel, 43c. Futures, Oct. 42c, Dec.
Barley 51 cents.

PRODUCE AND MEDIAN PRODUCE PRODUCE

PRODUCE AND MILLFEED (WI	HOL	ESA	LE).
Bran, per ton\$17	.50			
Shorts, per ton	50			
Barley and Oat Chop, per ton 25	00			
Oats, chopped, per ton 27	00			
Barley, chopped, per ton 22	00			
HAY, (baled) in car lots, per ton,				
Prairie.† 11	00	(a)	13	00
Timothy				
BUTTER-				
Fancy, fresh made creamery				
prints	26			
Creamery, 56 lb. boxes	24			
Creamery, 14 and 28 lb. boxes	24			
Dairy prints, extra fancy	22	(a)		24
Dairy, in tubs	19	(a)		20
CHEESE, Manitoban at Winnipeg .	10			
Eggs, fresh, f. o. b. Winnipeg sub-				
ject to candling	17	(a)		18

LIVE STOCK. There is a good demand for export cattle and few of quality coming forward. Just at present ocean October wheat reached the dollar mark on Sept. space is plentiful and cheap and shippers are anxious 3th, the highest point touched by this option this to take advantage of it, but export stuff seems hard season. The advance came on the strength of to find just yet. A few train loads went East last unfavorable European reports. Wheat in Berlin week, large consignments being received from the jumped ten cents in less than two days. It was Knight Sugar Company, Raymond, Alta., Eldridge reported that stocks in that country were exhausted, Bros., and J. Peters, Carston. About 350 head of that the continued unfavorable weather was inter- exporters came in on Friday, but the bulk of the fering seriously with harvesting and injuring the stock coming in is poor quality, butchers' old bulls, quality of the crop as well. The demand abroad fleshless cows and so on. The supply of this kind of for American wheat became more active and the stock is too heavy, demand has fallen off and offerings local market established new high price records in unless of pretty good quality go begging. Despite all futures, this too in the face of a continually increas- the activity of export demand prices for this class ing visible world's supply. The advance came show little advance if any over a week ago. A few unexpectedly. Wheat in every market in America lots last week may have been handled at 41c or for the past month has slumped or soared as the 41c, but the bulk went at around 4c with some less. weather in the Northwestern portion of the con- These prices mean of course freight assumed. Sheep tinent was reported favorable to or likely to injure and lambs are scarce, and prices a little firmer, the growing crop This time, however, the jump Hogs average around the same as a week ago with

Export steers, off cars \$3.75 to \$4.50; butchers' values reached were largely speculative in character, cattle (choice), 1,000 to 1,100 lbs. \$3.50; 900 to the advance could not be maintained. Towards 1,000 lbs. \$2.25 to \$3.00; common stuff \$2.00 to \$2.25; bulls and cows \$2.00 to \$3.00. Sheep \$6.00; among the larger operators to sell, and this coupled lambs \$7.00. Bacon hogs 150 to 200 lbs. \$6.75; with reports that indicated a much greater yield heavier \$6.25; roughs, stags and old sows \$4.00 to

> TORONTO LIVE STOCK MARKET. At the Junction stock yards this week an average

diture of one per cent. more of \$101 where \$100 is imp ovement but there is upwards of seven millions stock generally was below the average. Ontario now spent—the dairyman who has common cows of old wheat to go out before navigation closes, could get a breed of cows that would yield from 10 per cent. The supply of old wheat seems to be holding to good of wheat—common wheat as ing out well, deliveries for the week averaging around 10 purchased at good 10 purchased 10 purchased at good 10 purchased 10 against wheat of a good variety. The labor is the forty cars per day, but shipments from Canadian prices, the sale of others is slow. The tendency is same in each case.

One load of export steers sold toward higher prices. One load of export steers sold this week at \$5.50. Export steers \$4.75 to \$5 25; bulls for export, \$3.50 to \$4.50; butchers' cattle not developed yet. A sufficiently compact organiza- on prices so purely speculative as they have been in \$4.25 to \$4.60; medium butchers' \$3.75 to \$4.10; tion and co-operation of society would enable us to America of late. Hence, while a good many of these common and scrubs \$2.50 to \$3.50; cows and common and scrubs \$2.50 to \$3.50; cows and second quality bulls \$2.00 to \$4.00. Sheep \$4.40; lambs \$5.85. Calves \$5.00 to \$6.00 per cwt.

CHICAGO LIVE STOCK MARKET.

Prime steers \$4.15 to \$7,30; cows and heifers \$1.20 to \$5.35; Texas steers \$3.50 to \$5.00; stockers and feeders \$2.60 to \$5.10; Western \$4.20 to \$6.00. Sheep, natives \$3.00 to \$5.45; Western \$3.00 to \$3.40; lamb \$5.00 to \$5.75; westerns \$5.00 to \$7.25. Hog, light \$6.00 to \$6.50; heavy \$5.35 to \$6.10; mixed \$5.60 to \$6.45; average hog price

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