Farmers Advocate and Home Journal

WESTERN CANADA'S AGRICULTURAL WEEKLY

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Vol. XLV.

Winnipeg, Canada, December 21, 1910

No. 952

We Want To Send This Book To Little Every Larges In Whose Neighbor- Little Large Is No Rural Telephone System!

WE want every farmer in Canada to know how to build Rural Telephone Lines. We want to put the whole story of Rural Telephones before you so that you will have all the details at your fingers' ends and so that

you can go out among your own neighbors and organize a telephone system in your own community.



and we will be pleased to send this book to you absolutely free. On account of the clear manner in which it has been written, we believe that after having gone over this book carefully, you will know enough about the construction of Rural Telephone Lines to enable you to approach your neighbors with every vital fact in detail, to command their attention and to secure their interest and support on a telephone system for your own community.

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is the set with the famous No. 48 type generator, the most powerful and efficient generator on the market to-day; with a ringer having 3-inch gongs, the loudest ringing gongs ever put on any telephone set; with the standard long distance type transmitter and receiver. This set, which was specially designed for Rural Telephone work, by the most expert telephone engineers on this continent, is told about fully in the book.

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TO BUILD RURAL

is a story that is full of interest and of vital importance to every farmer in Canada. We believe that every farmer realizes the advantages of a Farm Telephone; but we also believe that few farmers realize the simplicity of organizing and constructing a Rural Telephone System of their own. The details of organization are simple, the costs of installing the system are low and the only reason that a greater number of communities have no rural system of their own, is due to a lack of accurate knowledge on the question of the Rural Telephone.

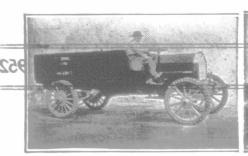
We offer you this book that you may possess this knowledge; for, sooner or fater, a Rural Telephone System is going to be started by you or somebody else in your own neighborhood. Now is the time for you to get busy. Write to-day for Bulletin No. 120. REMEMBER WE SEND IT FREE.

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The Alagow Complany teenthing been reported on TUR Director of the Alagow Complany teenthing been reported on Turn of the Alagow Complany teenthing been reported to the track of the Alagow Complany teenthing the track of the track the problem of designing a machine that would take the place of horses and is now able to offer the first UDV William Sources inch places backers blod Dios successful mathine to do the work of horses on the do so Dis SDID STEEL WORK OV 18 STEELS D

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Permanent Agriculture," read before N.B. Library Association discussion and it is well that the author tunately iron has never been found taking it from the air below the ground recently by Prof. J. H. Sheppard. It is has done so, for the amateur and the lacking in any agricultural soil, and The chemist has never, in recent

man and is now professor of in translating a foreign language. You these essential substances commonly well knew that a crop of clover removed agronomy in the University of may or may not know that soil surveys, run short from cropping. These three a large quantity of nitrogen from a rather than by its imate features. Dr. forty acres of land and the soil areas of agriculture. Temporary systems with the belief that the subsoil had have been followed by some of the New supplied the nitrogen to the clover thirds of the farmers of the Northwest into a discussion and explanation of a paniphlet a few years ago, describing and Canada is very small compared would not comprehend his discussion, the difference between available plant abandoned farms and inviting the with that at the south. In travelling

SOIL FERTILITY AND PERMANENT tility Factors." The composition andby leaving one out, and no matter which AGRICULTURE
formation of the earth's surface or one it is fatal to the plant. If no iron symposium of Dr. Cyril G. Hopkins' work soil Pertility and the basis of soil classification. All of be without chlorophyl—the green colorwas the above is given in preparation for the ing matter—and will soon die. For-

by simple explanations of the elemental The volume under discussion takes England states, and to-day they are and that the clover had left it in the compounds which constitute soil. Such up the classifications and designates in advertising abandoned farms as a state surface soil. an explanation seems tedibus, but it is map form all of the soil areas in the propaganda. necessary; for strange to relate two- United States. The author next goes Cornecticut, I think it was, sent out and weathering in these northern states

would not comprehend his discussion, the difference between available plant if he had not made these simple expload and similar material which is not clitzens of America to occupy and replanatory paragraphs in the opening available. If plant food is not soluble chapters. These explanations are for the plant cannot take it up. If it is lowed by a statement of the nature of two readily soluble, it may be lost by plant food and of plant growth.

The first portion of the book is discussed under the topical heading, "Science and Soil;" the second, "Systems of Permanent Agriculture;" the third, "Soil Investigation by Cultural Experiments;" fourth, "Various Fersian et al. Essential. This has been proven to the same of these farms and inviting the citizens of America to occupy and reducem them. They used hold tone illustrations from photographs. I reduce them. They used hold tone illustrations from photographs. I reduce the same of these farms of America to occupy and reducem them. They used hold tone illustrations from photographs. I reduce them. They used hold tone illustrations from photographs. I reduce them. They used hold tone illustrations from photographs. I reduce them. They used hold tone illustrations from photographs. I reduce them. They used hold tone illustrations from photographs. I reduce them. They used hold tone illustrations from photographs. I reduce them. They used hold tone illustrations from photographs. I reduce them. They used hold tone illustrations from photographs. I reduce them. They used hold tone illustrations from photographs. I reduce them. They used hold tone illustrations from photographs. I reduce them. They used hold tone illustrations from photographs. I reduce them. They used hold tone illustrations from photographs. I reduce the tone illustrations from photographs. I reduce them. They used hold tone illustrations from photographs. I reduce them. They used hold tone illustrations from photographs. I reduce them. They used hold tone illustrations from photographs. I reduce the fact

be replaced before a crop e grown on the land.

addition of limestone is disthat is whether it should be which is the farmer in the cheap way, by the mainfacturer on a large and the raive cal. Dime in itself is of no value to the crop, but among chemical substances there is frequently a cona common substance exactly like that which occurs between dogs when one has a bre which the other thinks he can tak away from him. Duris the first which ensues frequency that cannot gathers up the In some soils morsel and devours. lime will, in this way, free a substance which the crop will use promptly and to great advantage. Organic matter, humus—and nitrogen can be supplied by growing certain crops.

Dr. Hopkins is accused of being in part responsible for the high cost of meats in this country. He worked out two methods of cropping Illinois and on a basis of maintaining the soil fertility. One plan is grain and clover seed growing and the return of all the straw and clover hay—after the seed is removed—to the land, thus retaining the fertility of the soil. Except for the purchase of some rock phosphate which can be bought rather cheaply in the corn belt, this method of cropping retains the soil fertility without the addition of commercial fertilizers. The other plan of maintainence brought in live stock and by that means retained the fertility.

He shows how erroneous conclusions have frequently been drawn by experiments. For example, 300 years ago Van Helmont, a Flemish alchemist, planted a willow tree five feet high in 200 pounds of soil. In five years the tree had gained 164 pounds in weight and the soil had lost but two ounces. He drew the conclusion that plants live on oir and min water, not realizing that the tree would be removing a large per acre amount on the same basis and that the soil supplied very necessary ingredients to it.

Among the recent discoveries is that of the taking up of nitrogen from the air by the leguminous plants well presented by clover and the garden pea. I remember well that this was announced when I was a student in college, and that after spending three months in study of agricultural chemistry our teacher, an excitable Irishman, came into class one morning and said:
"Boys it is all bowled over! Hellreigle
has discovered that leguminous plants take their nitrogen from the air direct. We had spent the greater part of the term in a study of nitrogen supply and conservation because it was the expensive element to buy, twice as costly as either of the other two. Hellreigle had discovered that clover plants and a little bacterium had formed a copartnership, known to botanists as symbiosis, by which the clover plant down on its roots in the form of little warts called tubercles and the bacteria live in them. They are pretty thick in these tenements, too, İ can tell you—regular Rooseveltian families of them, and in some way not well understood. By this co-operation nitrogen is taken from the air either by the clover getting it from the air above the ground or the bacterium

The chemist has never, in recent average practical farmer needs it as hence causes no trouble to the husband- years at least, agreed for a minute that The author is South Dakota badly as the student needs his lexicon man. The fact is that only three of something has come from nothing. He Illinois. Soil at first thought seems more or less complete, have been made are nitrogen, potash and phosphoric field and still left the soil richer than sordid and uninteresting; in fact, or are under way in every state in the acid. A system of cropping, therefore, it was before the crop was removed. it attracts us by its production, by the union, where a sample of the soil and which will keep up the supply of these It had been observed that clover was life and beauty which it supports, subsoil is inspected on at least each three materials is a permanent system deep-rooted and he had been satisfied

The loss of fertility from leaching



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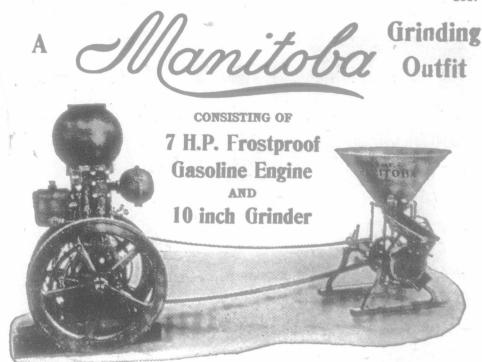
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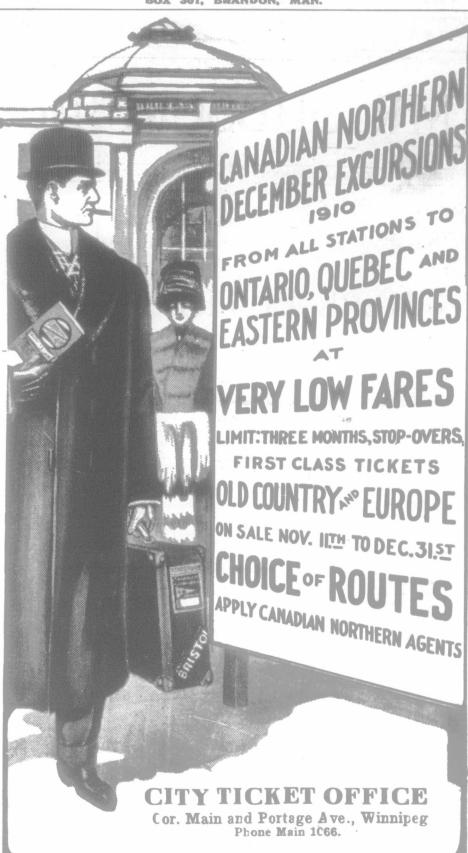
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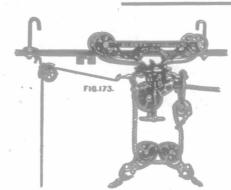
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FARMER'S ADVOCATE

AND HOME JOURNAL

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Editorial

Our Fat Stock Shows

is sounded for the fat-stock shows at Brandon, such source is helpful. reckon on finding shows that have over-individual. as they have now, but more of the others, readers of The Farmer's Advocate. particularly heavier fat classes.

Lacombe Farm Report

The farmers of Western Canada, and esare much interested in the work carried on at the Lacombe Experimental Farm. G. H. Hutton, the superintendent of the farm, is an enthusiastic agriculturist, and the work accomplished by him is of great import; thus any report he gives out usually is received with telling effect. In this issue will be found more or less friction seems to have led to some a complete summary of many of the experi- dissatisfaction among stockmen of Alberta, try do not hesitate to speak with no uncertain ments conducted in the fields and the results with the result that an attempt has been made sound in favor of it. Frequently extracts from obtained at the farm during the season of to organize apart from the livestock associa- books and bulletins give interesting particulars.

of the various varieties of grain and the dates new association. of seeding, much information is given as to That there should be but one set of livestock tion and methods that are advisable. Farmthe amount of seed to sow per acre and also associations in Alberta, known and recognized ers of this part will do well to study all that apthe results obtained from frequent cultivation as being of provincial character, should be pears in our columns from time to time, and and the use of the soil packer. Such informa- favored by all well thinking livestock men. make use of what applies to local conditions.

tion in promoting Western agriculture.

Pioneer Series

be one of the most interesting and most instructive features of The Farmer's Advocate endeavor to give a review of progress made by individuals who for twenty years or more have been in touch with farming operations on the prairies of Canada. A relation of personal experiences and advancement under difficulties It is three months yet before the final call is interesting; advice for future action from

Regina and Calgary, but quite early enough Every industrious man of integrity and for intending exhibitors to get started in the sound principle, who for twenty years or over fitting and training of their exhibits for the has been identified with agriculture in Canada ring. The fitting, in fact, already should be west of the Great Lakes, is entitled to a place under way. Livestock men interested in the in this department. It matters not whether progress of the industry in Western Cana la, of he had \$10,000 with which to make a start, or which progress our winter shows are a fair in- came with only enough to provide food and dex, should direct their efforts to the getting fodder for a month. Perhaps an honest start out of larger cattle, sheep and swine entries. was made as hired man with a prosperous In horses and in poultry one can generally farmer, or with a more or less unscrupulous

flowed any accommodation yet provided for The series is opened by a review of what a them, but in the other livestock branches present member of the provincial legislature exhibits could be largely increased to the bet- of Manitoba has experienced. At one time terment of the shows and to the advantage of he was a hard-working hired man. All cannot those engaged in these lines of animal husbandry. be members of parliament. However, there Our fat-stock shows need more fat cattle, fat are hundreds scattered over the prairies whose sheep and bacon hogs, as many horses and hens experiences will be of interest and benefit to

If you have a friend or a neighbor whom you know would do credit to such a department let us have his name and address, as well as some details of his career. We will write him for his photograph and further particupecially those of Alberta and Saskatchewan, lars, or if at all possible we will pay him a visit. Our object is to cover every district in the West gradually. Half a hundred can be handled in a year.

Common Interests in Livestock

A combination of circumstances entailing their farms.

tion is timely, considering that Western Can- If the cld associations at Calgary have not ada is subject to seasons of drouth and any been fulfilling the function ssatisfactorily to all system of procedure that aids in the conserva- concerned it is not likely that a remedy will tion of moisture and consequently larger yields be found in the formation of other associations is of valued consequence. The Lacombe Ex- in another part of the province and in opposiperimental Farm, judging from this and pre-tion to the one in existence. Disunion and ceding reports, is performing a valuable func-rivalry and retarded progress are bound to follow. What the livestock interests of Alberta need is one united set of livestock associations, supported by the most capable men in the With this issue we start what is intended to livestock business in the province. If it is feasible to have two associations why not have an organization in every district that desires -a pioneer series. Realizing that those who one? The more sets of associations the more have had a wide range of experience are in best local in character they become. What is position to talk on farm topics, as they pertain wanted is a united front and provincial asto the Canadian West, we have decided to sociations that will command support from the government to carry on the good work. The government at Edmonton undoubtedly has recognized this fact and are to be commended in giving this year's grant to the old established Alberta Livestock Associations. The common interests of the livestock men of Alberta should not allow for any lack of unity.

The Alfalfa Crop

Many have concluded that it is wise to consider alfalfa as one of the crops that demand careful attention next year. However, even more farmers of the Canadian West can profit by adopting this legume and giving it liberal space on their prairie farms. Too many are more or less skeptical about new crop introductions. They prefer to allow a neighbor or a government experiment station to

In the case of alfalfa the man who delays until some other person has done the pioneering is wasting just so many years. There is big money in wheat, and perhaps just as much profit in oat-growing; but for the man who has even a few head of live stock, neither of these standard cereal crops will give the return that is easily possible from alfalfa. It is an ideal feeding crop, and, like other legumes such as clovers and peas, materially benefits the soil on which it is grown.

During recent years considerable attention has been given to alfalfa growing in the columns of The Farmer's Advocate. We will continue to devote space to it until ninety per cent. of the prairie farmers know its worth. and show that they know it by growing it on

Men who have had experience in this countions with headquarters at Calgary. We will The superintendents of sub-experiment sta-Aside from the data given as to the yield not argue the point of provocation to form a tions in North Dakota are now contributing valuable information as to suitable soil condi-

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NEY ery home. lurners fit t a lamp ANTLE

DA.

What They Represent

Agriculture is not alone in its demands for substantial tariff reduction, nor is farm im- the manufacturers. However, the tendency is municipalities under the direction of a public plements the only line of human necessity in to freer trade and tariff reform that at least works inspector. But the principle of day labor which a reduced tariff would be marked in will provide for the farmer getting his farm ma- is still adhered to largely throughout the West, the interests of the Canadian people. We chinery and implements at lower rates. Along if not altogether, and the day labor of farmers want cheaper houses, cheaper fuel and cheaper that will help the bulk of the common people. of the present system of building our roads, clothing, free lumber, free coal, free cloth. We want to raise our revenues not by taxing ments. What effect will it have on Parliament being the most expensive method of getting any what the masses have to live on but what the Hill? Will those in power consider that the work done. More than that, it is at a loss that spoilers for the past thirty years in Canada, under our protective tariff system, have been just to catch votes when election day again comes present rate of construction by the day labor purloining from the public and the people. round? Will they refuse to consider anything system Western roads over wide areas through-The farmers of the West went to Ottawa with suggested? The future will show the results of out the three prairie provinces will not be built the whole country from Lake Superior to the the delegation's visit. Perhaps the organized within the present generation, to say nothing of mountains behind them. They spoke primar- farmers often will be heard to advantage. ily for what the farming community most urgently demands, but they spoke for the whole Canadian West. The West is for tariff reform and is determined to have it. The American Editor Farmer's Advocate: West and Middle West obliterated party lines to force their opinions upon a government in urging the necessity of good roads and in that believed it existed first of all to "protect" stimulating interest in maintaining the best the giant infant industries of the New England possible roads, is doing a great deal more than states. The farmers of the Canadian West we generally realize for the permanent proshide-bound to party are destined to make perity of the Canadian West. Without good the same break and produce the same results. One of the most hopeful signs for the future his animals, but no way of getting them off. missioner in Western Canada during the past of the "common" people is the fact that they Everyone realizes the necessity of good roads. summer, and he has written a series of articles on have reached that stage where they dare to believe their interests are worth protecting, not by tariffs but from tariffs imposed for the whole West is handicapped for lack of good benefit of the few.

MY OPINION ON SOME MATTERS NUMBER 26

CANADIAN FARMERS BID FAIR TO SHOW THAT THEY MUST BE CONSIDERED

parts of Canada to the capital city, filled with a often the loss of the team can be directly laid at determination to show the Dominion govern- the door of the hard draws over bad roads. We in doing so a great deal of hard work has to be ment that certain matters must be attended to, can't shut our eyes to the conditions. We must performed for a living profit. The commissioner is unique in Canadian history. To the present face them and overcome them. cabinet it will be strong evidence that the agricul- I propose to deal with the present conditions tural class will not be denied. When men will in the supply of this fundamental need of the journey over half way across the American con-farmer—good roads—pointing out where the tinent in order to prove that they really want present system of making roads is entirely inadethe government to do things, there is little danger quate. In an article later I intend dealing with of them being turned down.

anyone interested in agriculture to note the en- tract. If it is fair to judge systems by results, is said to be exceptional, the writer claims that thusiasm that prevailed among the half thousand it seems clear that in all three prairie provinces or more that went from Manitoba, Saskatchewan there is need for a decided advance if there are into 35 bushels of wheat." With all due reand Alberta. They were set on three things: to be adequate transportation arteries for our spect one must protest against 35 bushels being Government ownership of terminal elevators, produce to flow at the least possible cost from adduced as an average crop of wheat in the West. the construction of the Hudson Bay Railway the farm to the railways. and tariff revision. Surely no one will question First, then, let us look at the present methods the government crop reports give the average of the advisability of these requests being granted— of meeting the need for roads. at least no one who wishes to give the farmer In Saskatchewan, the central authority has of 13 bushels in the United States, but is a far a fair chance in the business world. The only been grappling with its big task of building the different figure to a claimed average of 35 bushels. question on which there is room for doubt, it thousands of miles of road urgently needed to Why the carefully rotated wheat lands of Great seems to me, is the one relating to the Hudson supply the demands of settlement. In the first Britain do not reach this high figure, and here operation for a number of years. I'll not say fair salary, to oversee the most difficult road

provinces will object to government ownership tion was done in this way, but the expensive this acreage ought to have produced over 140 of terminal elevators. However, if they listen principle of day labor was applied throughout. million bushels, instead of 90 millions. to what delegates from the West can tell them. The old man was right when he said that when a few speeches will convince them that we are he heard a bucksaw he could always tell whether for twenty years in the West will endorse this justified in asking for government ownership, the man using it was working by the day or by statement: "That the men on the prairie, a It seems to me the move would be a boon to the the job. The department of public works for thousand miles or so away (from Fort William) grain grower on the prairies.

ally leads to difficulties in discussion and in the it, having adopted the plan of making appro-

* AIRCHIE McCLURE."

Day Labor Expensive System

It seems to me that The FARMER'S ADVOCATE, deal in a following paper. roads to our railways we are like Robinson Crusoe on his desert island, with his crops and rapidly that it has seemed impossible to supply roads adequate to the needs of the settlers. The roads, all the way from Eastern Manitoba to Western Alberta. We lose money every year on account of bad roads. Our wagons and buggies are knocked to pieces over them; our bones are jolted till it is a wonder our joints don't part; as the wagon jolts over the little unevennesses, and they have the life drawn out of them climbing steep grades, and getting through the soft places. How many a man is ham-strung in his A pilgrimage of organized farmers from all farm work by the loss of a good team, and how year with another over, say, a decade, that

the advantages and disadvantages of having It was interesting and very encouraging to road work done on a larger scale, and by con-

Bay Railway. There always will be a difference year or two after autonomy foremen were enof opinion on this until it is constructed and in gaged by the department of public works, at a what I think about whether or not it should be construction, under the direction of an able civil government-owned and operated. I might sug- engineer. Where the roads were most urgently gest, however, that in the rush for government needed thither a foreman was sent, with a small aid there is a danger of going too far. We need permanent gang of men and teams to form the help from our governments, but we should con-nucleus of a larger gang formed by hiring farm-ern wheat crop of that year was exceptionally sider what they best can afford to go after first. ers' teams near the place of work, whenever good) "4,085,000 acres produced 90,215,000 Perhaps some of the farmers of the eastern these were available. Much good road construc-Saskatchewan adopted this system only tem- are piling up large fortunes? The tariff question being so complicated natur- porarily and, I believe, has largely abandoned

working out of details. There surely will be priations for road work to rural municipalities, strong opposition to the army of farmers from the money so allotted being spent by the rural with such changes naturally will come revisions is relied on. In my judgment this is the weakness It will be interesting further to watch develop- for day labor is recognized the world over as demands should be granted in all fairness and most farmers take their men and teams from justice? Will they grant one or more of them their fields to do road work. Further, at the the exacting work of keeping them in repair.

We are like a man running to catch a railway train that has got nicely started, and is increasing speed rapidly, for every step the man runs the train travels five times the distance. The only way for the man to catch the train is to take a special. It is with this special that I propose to

D. R.

Western Wheat Growing

OUR ENGLISH CORRESPONDENCE

The London "World's Work" has had a com-But population has scattered over the West so Western development which have been very readable and interesting. In the November issue there is a glowing account of wheat farming, which is in many respects admirable. However, he gives but one side of the picture, and that the bright one. A Britisher reading the article would conclude that this was a typical pictureknowing the general reliability of the World's Work—and imagine that all the farmers of the our horses are fretted by the ever-swinging tongue
West were rapidly turning the golden grain into golden sovereigns, and that fortunes came quite easily to wheat growers.

Those on the spot well know that taking one wheat growing pays fairly well for a time, and says nothing of what has followed continuous grain growing in the older sections of the West; how the depletion of fertility has been followed by an ever-increasing area of weed-choked lands which necessitate a long, stern fight to overcome not to speak of profit.

Mention is made in the article of yields as high as 60 bushels of wheat to the acre, and while this "to take it all round an average crop will run Good as Western Canadian land is on the whole, wheat in the West at about 20 bushels to the we only take one crop in four of wheat!

The truth is good enough for Canada, and no good purpose is served by sensational figures, which can easily be proved to be exaggerated. The commissioner confutes his own figures by stating that in 1909 (and we know that the Westbushels of wheat." At his average of 35 bushels.

How many Western farmers who have farmed

F. DEWHIRST.

Horse

A movement is being started by the horse breeders to have the stallion laws amended so can be legally collected.

Scottish Clydesdale exportations up to date have been in the neighborhood of 1500 head. The bulk of them came to the Dominion.

Enforce Them

EDITOR FARMER'S ADVOCATE:

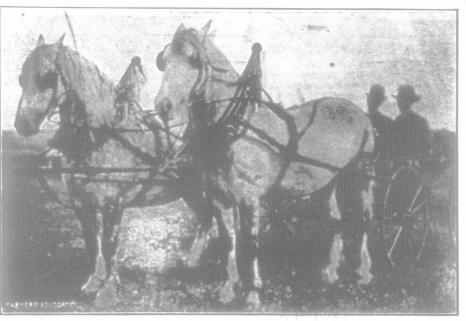
vent and in encouraging what they were enacted tricts.

to encourage, viz., the elimination of unregistered stallions and of unsound stallions, whether purebred or not, and the promotion of sound practices in horse breeding.

The first requisite in a stallion law is that it shall make a definite distinction between stallions that are sound and unsound, and between stallions that are purebred and those that are of no particular breeding. The laws of the three provinces named aim to do this, but because of certain conditions that are a part of them what

is free from the diseases and hereditary unsoundgrade stallions. Altogether too large a proportion of the stallions travelling in Manitoba, better than the other two, but none of them have a very enviable record. No stallion law offers efficient protection to horse breeders that does not guarantee, in so far as inspection by competent men can guarantee, the soundness of the to the travelling of grade stallions. The great- objections to the proposal overcome. est check to progress in horse breeding is the too unwise determination to do so.

petent to judge whether or not their stallions Man. are effected by one or more of the disqualifying unsoundnesses named by our Horse Breeders Acts and Ordinances; and, not knowing, they err on the safe side by making the usual declaration as to provide that no fees for grade stallions that to the best of their knowledge the animal in question is sound. In fact, they would not be considering their interests if they didn't. Not only should stallions be examined by competent men, but they should be examined each year before license is granted them. A stallion may be sound this year and be effected with the most Enact Effective Stallion Laws and serious unsoundness next, and the only way in which the certificate of the provincial department of agriculture can be made to correctly describe the condition of the animal it is licensed for is Regulating the offering for service of stallions to make it issuable annually as at present, but is a matter of some difficulty. Stallion laws do only under the condition that the animal's soundnot prevent all unsound sires from being en- ness is attested for by a qualified veterinarian, rolled and licensed, or prohibit entirely the who in no way, shape or form is interested in the travelling of unregistered stallions, whether sound stallion examined, or under any obligations to or not, but they go a long way towards doing its owner. No veterinary surgeon should be rethis, providing they are good laws. The Horse quired to pass judgment upon the stallions in his us as feeling hard, sot, full, quick, small, wiry, Breeders' Act of Manitoba and the Horse Breed- own locality, on the owners of which he is deers' Ordinances of Saskatchewan and Alberta pending in some measure for his living. Veterdo not go far enough, and to that end they are inary inspectors should be appointed by the ineffective in preventing what they aim to pre- province and employed outside their own dis-



Grays are Found in Every Locality

they accomplish falls short of what is required. There are practical difficulties, of course, in Mare owners have no guarantee other than the the way of carrying out a stallion licensing law word of the owner that the stallion used by them along the line above suggested. Veterinary ness named as disqualifying by the acts. The surgeons in this country are none too plentiful, acts have not materially reduced the number of and the work of inspection would require to be done at a season that is not exactly the slackest in the veterinarian's year; but the system has been adopted in states to the south, where coning. Manitoba in respect to the proportion of ditions as regards the area to be covered and the with entries to the number of several hundred, grades to purebreds, seems to have fared rather number of veterinarians available is very similar running back for ten years. He claimed that only to our own, and it seems to be working out satisfactorily. By requiring the stallions in each tice of paying for the service. Boar money district to be assembled at a central point each seems to be about the last thing the average man spring before the breeding season opens, where thinks of paying. the horses of an entire district could be looked stallions licensed under it as sound, and that does over in one day, the work of inspection could not effectively check and ultimately put an end be greatly facilitated and one of the most serious

Inspection and certification of this kind would actually free from the diseases and unsoundness it. Not because it would give a few veterinarians when you are sure of hitting him on the nose.

that disqualify them from license under the government jobs, but because such legislation terms of the acts. Few stallion owners are com- is in the interests of the horse-breeding industry.

How to Take a Horse's Pulse

The pulse is due to an automatic expansion and relaxation in the wall of an elastic the artery, chased by the jets of blood pumped into those vessels by means of a force pump, the heart. Each stroke of the heart is equal to one pulsation, viz., a rising and falling of the arterial wall. In health, the average number of pulse beats per minute is about 36 to 40. The larger the horse the slower or fewer the number of beats per minute.

A very good place to take the pulse is at the underside of the jaw. By rolling the tips of the fingers about a little, they can be brought on to the blood vessel. Don't press too firmly, nor yet too lightly. The animal must be kept still and quiet. In point of importance the 'character' of the pulse must be the best guide. That is to say, the blood vessel may impress regular or irregular.

These are niceties which require practice before they can be fully appreciated. In pleurisy, the pulse will be found beating about 80 times per minute (depending upon the stage of the disease), hard, wiry and irregular. In pulmonary apoplexy, it may be beating 120 times per minute. When properly taken, it forms a valuable means of assistance in ascertaining the nature and progress of disease.

The report of the Department of Agriculture of Manitoba for 1909 contains the following information regarding the stallions in use in the province: Total number, 724, made up of 324 Clydesdales, 194 Grades, 71 Percherons, 49 Standardbreds, 34 Shire, 23 Hackneys, 8 Suffolks, 7 Coach, 7 Thoroughbreds and 6 "drafts." Of the 530 purebred stallions enrolled 521, or 98.3 per cent., are certified as free from the diseases and unsoundnesses named as disqualifying under the terms of Manitoba Horse Breeders' Ordinance.

Stock

The Boar

The prizes in the contributors' competition this week are given in the order in which the letters appear. One of the serious difficulties in keeping a boar for public service is to collect the service fees. A farmer, who kept a boar to oblige his neighbors, once showed us his service book

Thirty-Five Years' Experience With Boars

EDITOR FARMER'S ADVOCATE:

The plan laid down here is the one I have folgeneral use of stallions of no particular breeding. cost more than no inspection and haphazard lowed for thirty-five years, both in Ontario and A grade stallion bred to a grade mare can produce licensing does under the present. But it would Manitoba, and found it to work satisfactorily. nothing but a mongrel foal. The foal stands to be worth it. Owners of sound, purebred sires First procure from a reliable dealer the best hog be a worse specimen than either of his parents. would not object seriously to paying a higher money will buy, and raise him yourself. Put Such breeding is exactly the reverse of grading, registration fee than they do under the prevailing him in a roomy enclosure, with pasture and shade and in the general interests of horse breeding acts, providing the certificate issued under the in summer, and feed him all he will eat of shorts, needs most to be suppressed. Stallion laws proposed system meant something to them, and milk and house scraps. It depends all on the should prevent unsound stallions from being gave them the advantage it should give in com- first six or eight months how he will behave in enrolled as sound, and should so definitely desig- peting for business. It would not be the owners after years. In this time he gets his growth and nate impurely-bred stallions that mare owners of the kind of stallions that we need more of, training. Have the enclosure made in such a would have no excuse for using such sires, save who would kick against a reasonable charge for way that it is impossible for him to get out. Then, the excuse of their own careless methods and expert inspection. Owners of the other kind in feeding, train him so that he never comes to might raise some objection, but that wouldn't the trough until he is told to. For training Veterinary inspection is the first step towards make much difference. By all means let us have I used a piece of board made in the shape of a ensuring that stallions registered as sound by a clearer notion of what an efficient stallion paddle, about two feet long, and never strike at our provincial departments of agriculture are licensing law should be, enact one and enforce him unless his head is towards you, and only then

With this training, in after years, the boar will be handled with pleasure instead of danger.

If kept for public service have a good, warm pen; mine was 10 by 30 feet, divided into three compartments. The two end compartments opened into separate yards. The middle one wif 1 wide door opened into the stable yard, where a team could back in for loading and unloading, with a movable shoot. The boar being in his own compartment the sow is placed in the middle pen, the door shut, and the hog is then let out with the sow through a sliding door. If she has to remain, she is put through a sliding door into the other end of pen. I never allow more than one service.

The boar is fed from a hopper on good, sound, clean, whole oats with a shallow trough underneath, so placed as to catch all waste. In this lower trough is placed charcoal and ashes, and he gets all he can drink three times a day, house slop, or water with a handful of any fine meal that is handy, and a raw cabbage when I think of it.

As to fees, first there is the keep of the visiting sows. This is supplied by the owners and left to their discretion. Some bring too much and some not enough, so this evens out all right. The feed is all dumped into a bin and fed in an open trough with water. For the service of boar I get a young pig at weaning time. If no pigs, no pay. If litter is lost, it is more loss to owner than me. And you get a pig next time sure. In the case of pedigreed sows being served I leave it to the owner of sow whether he pays \$5 for service with certificate of same, or the usual young pig. I take it for granted that every pig owner, whether he has one or one hundred, knows that they must sleep in warm, perfectly dry quarters with lots of bedding, that large or small litters can be controlled to a great extent by the sow being starved or well fed for the first week after service. If starved, she will pay you your deserts at farrowing time. If you do not believe this, try it. W. M. CHAMPION.

Caring for the Boar

EDITOR FARMER'S ADVOCATE :

Man.

Sask

The boar is one of the easiest animals to care for, if ordinary conveniences are provided. If not, he can be a great nuisance. We keep ours in an enclosure of stout wire hog fencing, provided with a small house for shelter, adjoining the hog yards. These yards are all well sheltered by poplar bluffs, and, though not large enough for pasture, are sufficiently roomy to allow plenty of exercise.

During summer the boar is fed a little grain (ground) plenty of water, and plenty of stuff thrown in from the garden, which is distant only a few yards through the bluff. In winter his rations are grain and slops, with one or two turnips now and then and an occasional green cut oatsheaf. It is surprising how pigs relish this last feed if they can get it. A heavy, shallow box should be provided and wood ashes, to which a little salt has been added, should be put into it occasionally. Pigs will lick at it a little every day, and it does them good. Plenty of bedding is necessary in the house during

All boars, whether kept for public service or not, should be purebred. It doesn't pay to breed scrubs. Charges for services should be reasonable, but should be net cash. I reckon that one dollar at time of service is better than a dollar and a half some time next summer, or perhaps

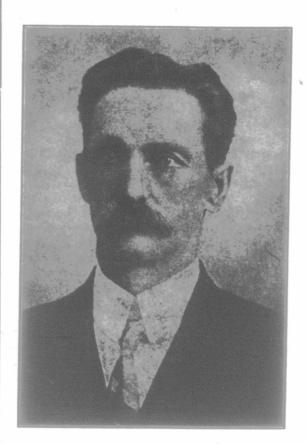
JOHN HUBBARD.

Observations at the International

Exposition is the greatest show of its kind on this of the judges was carried out among the types were placed practically on the condition and continent leads one to believe that there he will which the several breeders were endeavoring to covering of the fleece on all parts of the body. find the highest class of livestock exhibited in produce. the best form possible, and criticized by the best livestock judges of the world. This should be low-set, deep-bodied, well-muscled animal won, question often appeared to be the one and only true, and the lessons learned should be a splendid. This was most noticeable among the Percherons. "loop hole" for the judge to hinge his decision criterion for the livestock enthusiast to follow, where eighty to one hundred animals appeared upon.

national of 1910, the writer, a Canadian specta- small animals and those with either short rib or stars and stripes a splendid school for knowledge tor, will endeavor in this article to emphasize a few lack of muscular development without giving along livestock lines, one comes home feeling

WHO'S WHO IN LIVE STOCK



R. W. CASWELL

Robert W. Caswell was born on a farm in Middlesex County, Ontario, about fifty years ago. His first serious business was washing bottles and beakers and doing other jobs incidental to learning the drug business. That was at Palmerston, Ont., where also he learned to handle the telegraph key. In April, 1882, aged 21 years, master of two professions and filled with the wanderlust that for ages has drawn men towards the setting sun, he struck for the Red River country and took a job with the C. P. R. as telegraph operator and agent. Two years later he quit railroading, and squatted on a homestead at the point where the C. N. R. now crosses the South Saskatchewan. The fall of 1887 found him again railroading, working as operator for the C. P. R. in Alberta. Then in 1893 he returned to where the railroad crosses the South Saskatchewan, Saskatcon, now called, entered a second homestead and settled down to make a home.

The choice of that second homestead was a fortunate one. It and a purchased quarter section form a part of the city of Saskatchey he to the settle of saskatch

The choice of that second homestead was a fortunate one. It and a purchased quarter section form a part of the city of Saskatoon, the town that sprung into being a few years ago and seems to have got everything it ever asked for since. The Caswell half section went into it and most of it has sold since by the foot. It's a safe bet that the man lucky enough to own a large part of the ground floor of one of Saskatchewan's leading cities didn't part with his claim just to give the real estate agents something to subdivide. The inference is that he made something out of it.

Six years ago Mr. Caswell purchased the foundation

s that he made something out of it.

Six years ago Mr. Caswell purchased the foundation of his present Shorthorn herd, buying the entire herd of J. S. Grant, whose herd had been established some ten years before, the start of it being two cows, purchased respectively from the late Hons. Thos. Greenway and John Dryden. This start was augmented by importations from Scotland and purchases in Ontario. The herd now numbers some seventy head and comprises some well known winners at Western and Eastern experts. ne well known winners at Western and Eastern ex-

Mr Caswell has always aimed to be at the top in livestock and has made purchases and bred with an eye single of the country. In addition to Shorthorns he has a number of purebred Clydes and purposes extending operations in the breeding of both these favored kinds of Scotch livestock.

of Scotch livestock.

Mr. Caswell farms several hundred acres in the district about Saskatoon, making grain growing his chief interest and feed for the purebred herd and stud. He takes an optimistic outlook on the cattle industry and figures that the cattle breeders of the West are just beginning to come into their own. He is one of those who believes in government assistance to our livestock industry, believing that aid should be extended towards the building up of the chilled meat industry, and not in fighting for the removal of the embargo.

R. W. Caswell has been an alderman of Saskatoon.

fighting for the removal of the embargo.

R. W. Caswell has been an alderman of Saskatoon, and a member of the city's school board. He has been president of the local branch of the Grain Growers' Association, director and vice-president of the Central Saskatchewan Agricultural Society, and at present is on the executive of the Livestock Breeders' Association of the province. At the municipal elections the other day has was aleated again to the City Council of Saskatoon. he was elected again to the City Council of Saskatoon.

Allowing that the above is true of the Inter- in one class. Here the judges discarded the In summing up, while we find the land of the

them a chance to perform. The larger, better balanced animals were shown for action, and unless they proved themselves above the average were immediately sent to the stables.

Feet and legs now made the basis of a third selection, until, finally, the five or six top animals possessed the ideal type and conformation almost identical. The decision now was based on the strength of the body rather than the feet and legs as it is in Canada. The animal that possessed the wide, deep, chest, well sprung, long rib, strong coupling with reasonable quality of bone carried off the coveted ribbon.

Among the Clydesdales the same body conformation was sought for, and, providing quality was coupled with it, was given due consideration. The general impression, however, was that while in Canada we dwell so strongly on legs, pasterns and feet, there they lay more emphasis on the body conformation, which, with less quality, they claim, is more desirable in a draft horse than quality without the strong, deep chest and heavy body.

Among the fat cattle classes the competition was so keen that decisions had to be based on some very minor points, but in general the deciding question was that of "smoothness" and "firmness" of fleshing. This probably accounts for the success of the Aberdeen-Angus breed at Chicago, where year after year they win highest honors. Several of the animals carried an equally heavy covering of flesh, and were more desirable types, but the ability of the Angus to carry their flesh so evenly and firmly without signs of patchiness brought them to the top, but many believe that the good points of the breed were exaggerated by the judge when placing his awards in the championship classes.

Among the breeding classes of cattle the ideal of the exhibitor and judge appeared more in unison than in any other classes of stock. Here the greatest stress was laid on breed characteristics, and an animal was obliged to be not far from ideal to hold a place among the winners. The low-set, uniform, smoothly-fleshed, strong-constitutioned animal attracted the judge, while the masculine character in the males was very essen-

tial to become a prize winner. The type of hog that attracts the American judge appeals most strangely to a Canadian. Here we want the long, trim, quality, bacon hog, and will permit of a rather lean, narrow body carried fairly high from the ground. Such a type is a decided loser in the United States, where they breed for the low-down, short, thick, chubby hog, too often lacking in quality. A striking feature, however, is the stress laid on smoothness. Some very typical hogs carrying an extra amount of flesh and fat were placed down on account of a few wrinkles on the sides or hams, or a lack of smoothness on the back, while others having this smoothness of fleshing, with perhaps a coarser bone, were awarded the ribbons. The few bacon hogs exhibited were, speaking generally, a poorer class as found at our best Canadian shows, but due to the unpopularity and lack of competition among these breeds, the condition is not surprising.

Lasting impressions are to be gained in the sheep barns and showring. Sheep appear to be one of the strongest branches of the American livestock industry, and the success attained by some breeders in the production of size and body conformation is nothing short of marvellous. The judge did not fail to state that almost every prize winner was well worthy of a blue ribbon, and the breeder who could excel in the fine points of sheep breeding was the one who points which appeared to be the deciding point carried off the coveted honors. Several breedin the minds of the several judges when placing ers had so succeeded in breeding animals of ideal The fact that the International Livestock awards, and to show to what extent the ideal type and body conformation that the awards Breed characteristics played their part, but this Speaking of horses in general, the massive, factor had been so carefully bred that the fleece

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that we also have something in Canada and the scrubby and rather rough, and it is thought best threading old bolts or making new ones. Dur-Canadian West, and also that with our present adapted for sheep rearing.

Winter Work at Brandon Farm

Few farmers think of visiting any of the the winter's work at the Brandon farm. Dominion experimental farms during the fall or winter seasons. Perhaps many imagine there is little to see, but those who think thus are mistaken. While the principal function of those farms situated in Western Canada may be the experimental work carried on in the fields, plots and gardens, yet none the less important is the livestock and feeding experiments conducted in the stall or in the corral.

agriculturalist, and even a few minutes con- Not only do we wish our readers to discuss the sharpen up when the team is feeding. versation with him in his office will convince topics announced for the various issues, but also field experiments are those found about the which it would be well to have discussion.

items that should appeal to every husbandman to contributors. pounds of meal each per day on a broad elevated "old men" at 18 or 20 years. table. Their roughage, such as straw and coarse January 4.—What should be the attitude of the increase their concentrated feed supply, giving farmers and the industry at large? them more meal as the season advances.

but three pounds of meal per day. Part of the the breeding season. lot of the fourteen stall-fed steers were given January 18.-Why is it that so many young

horns and they are being bred with the purpose and boys on the same jarm? of establishing a dual-purpose herd. Some of these animals come from high record milking

In the piggery several lots of hogs are seen. velopment on an average amount of feed.

barn is being built for their accommodation, south. The cost of the building was about \$20, loops, B. C.; Abittibi, Ont., and Scott, Sask. These ewes are grade Oxfords and they are being The tools comprise forge, anvil, vise, drill, the keep of the sheep. Much of this land is The stocks and dies are of good service for re- £51.

and all interested agriculturists should carefully in less time. watch the tabulated results when published of Sharpening plow shares is the item which is

Farm

Topics for Discussion

A visitor to the Brandon Experimental Farm farm work The FARMER'S ADVOCATE has adopted shares and also weld. at this season of the year is met with the com- the "Topics for Discussion" column, in order

a wheat-producing country yet a certain and ment, but the questions dealt with cover all \$75 in plow shares and sundry work, and then be sure diversification is already pressing its im- branches of the farming industry. Letters should ahead in his work, having lost no time runportance upon the tillers of the soil; thus the not exceed 600 words and should reach this office ning for repairs, which are often not ready. need and value of practical information coming 10 days previous to the date of issue. They are from demonstration work along diversified agri- read carefully and a first prize of \$3.00 and a part of the board bill, because when a small part second prize of \$2.00 awarded each week, breaks the men are generally able to fix it up At the Brandon farm is found many interesting Other letters used will be paid for at regular rates on the farm, and get to work again sooner.

The animals that run in the open are fed three and make more money. Too many farm boys are year.

hay, is provided them in loose form. This they farmer toward farmers' organizations? To how leisurely eat, and from every appearance they many can he afford to lend his best services and Canada for the fiscal year, ending March 31,

roots and silage. At the beginning their meal discuss this question fully, especially the relation operation: ration was a light one, being started off with between winter exercise and feed and his use in

2 or 3 pounds of alfalfa to take the place of part men whose fathers are interested in purebred of the meal ration. It will be interesting to note livestock seem to have a wholesome distaste for the final results of these steer-feeding experi- the business, and will have nothing to do with it? What's the matter with livestock, or the In the stables is found the herd of utility Short- boys we are raising, that it is hard to keep stock

Farmers' Blacksmith Shop

EDITOR FARMER'S ADVOCATE:

It is practically impossible to blacksmith suc-A number of crossbreds fed for pork purposes cessfully in the open, so I built a 12 x 12 shop present a favorable appearance. Those, a cross with 6 foot walls and pitch roof. The smoke finds of the Yorkshire and Berkshire breeds, were re- its way out through the roof pipe easier with this ported to show favorable gains and quick de kind of roof than with a car roof, and prevents the objectionable feeling of being nearly choked. A new line of livestock on the Brandon farm The walls are shiplap, the roof one ply of half-inch is a flock of sheep. A small bunch of grade boards laid crossways with a two-inch lap. I range-bred ewes were purchased, similar to what This is a good, cheap roof. There's a small winan ordinary farmer would buy and keep on his dow in the north. In the summer I use a storm farm. These were running outside in late No- window in front of the bench, which gives no vember, although a large and spacious sheep enough lights on the east side. Then the door is following points Fort Vermilion, Alta.; Kam-

bred to a purebred Oxford ram, with the object stock and dies, hammers, tongs, chisels, etc. A

rapid development we will soon reach the stage There are many notable features of the work breaks on the seeder or binder. With the tools a of perfection, and, in all probability, surpass the on the Brandon farm that should commend itself person can nearly always fix the breakdown at present livestock status in the United States. to many of our Western farmers. The experi- home, thus saving a trip to town, the cost of rements carried on are of a very practical nature, pairing, and is often able to get back on the land

> most important. Consider the time wasted by hundreds taking plowshares to town, when with very little practice the work can be done at home. There are always old shares lying around to practice on. When tempering shares, it is advisable not to harden them too much, especially if in stony land, as they chip so easily. Beginners should temper a little on the soft In recognition of the fact that valuable hints side. All I know of this work I learned by exalways are obtained from men engaged in actual perience, but am now able to sharpen and point

I used to pay 70 cents for sharpening a pair of plete arrangements that have been made to in- that our readers may see an open channel through 12 inch shares, and 75 cents each for pointing. sure comfort and a subsistence for all stock which they may inform their brother farmers As I use a sharp pair every day, it would keep a throughout the winter months. James Murray, as to practices that are worth adopting and warn horse running to town often. In place of this the superintendent of the farm, is a popular them against methods that prove unprofitable. I can keep that horse on the plow, as I always

The tools come in handy for repairs of every you with the fact that quite as important as the we desire that they suggest practical subjects on implement on the farm. So, an outfit earns its price and compensates the owner the first sumanimal dormitories. While Western Canada is This notice appears under the "Farm" depart- mer. I reckon a person can save from \$50 to

When the thresher is around, the shop saves

All the tools mentioned are of great service, possessing ideas of progressiveness. Prominent December 28.—Should the boy who proposes but in any case every farmer ought to have a among them is the experiment regarding steer to be a farmer be trained as an up-to-date farmer forge and anvil. The buggy oftens needs a feeding. Fourteen steers, averaging about 1,100 capable of taking part in discussions at public little smith work. A stitch in time would often pounds each, are being stall-fed. These animals meetings and holding positions in public life? save a lot of wear, but as town prices for repairare two-year-olds that were purchased on the What can be done to overcome the scarcity of labor ing are so high, the farmers' buggy is generally ranges. Eight others of similar weight are en- on the farm that makes it necessary for him to left until it is completely spoiled. Bolts and closed in a large corral and sheltered only from work from early morning until late night when clamps of any size can be made at home for the blasts of winter by the shaggy coats with he is too tired to read or study, or do anything to hay racks, floats, stone boats, etc. The amount which nature has so beneficently provided them. remove the picture of hard work to get more land of coal I've used has cost me only \$1.00 for the

Cost of Experimental Farms

From the report of the auditor-general for are thriving well. It is the intention to steadily how can he be of greatest service to his fellow 1910, the following data is taken relative to the cost for maintenance and operation of Canada's January 11.—What feed and exercise do you nine experimental farms. Included in the charges The fourteen animals fed in the stall are pro- givs the stallion in winter, and what preparations is an item of \$7,184.05 for new farms to be estabvided for somewhat differently. They are given do you make for the breeding season? Kindly lished, which is not chargeable to the farms in

Farm.	Expenditure.
Central Experimental Farm. Ottawa	\$52 70E 69
Dialich Experimental Farm, Nappa	77
Nova Scotia	8 579 08
Branch Experimental Farm, Brando	n.
Manitoba	19 479 79
Dranch Experimental Farm, Indian	1
Head, Sask	10 314 70
Branch Experimental Farm, Agassi	9
British Columbia.	6 917 17
Branch Experimental Farm, Lacombo	е. (
Alta.	. 6,993.72
Branch Experimental Farm, Lethbrid	pyp
Alta	9,821.76
Branch Experimental Farm, Rosthern	1.
Sask.	. 14,934.57
Branch Experimental Farm, Charlotte	town,
P. E. I.	. 10,552.85
New farms	7,184.05
Detailed in 1908-9.	. 8,671. 56
FD 2" a	

The new branch stations are located at the * * *

One of the best sales of Hereford cattle of late of improving the flock. The purpose is to demon- useful outfit can be bought in Winnipeg for years was that of the well known herd of Jas. strate what improvement can be made on an about \$40. In buying a forge it is necessary Edwards, Leominster, Eng. The two-year-old bull, ordinary flock by the careful selection of purebred to have a wide pan, which is a saving in coal, and Broadwood Gambler, was sold for 230 gs., the sires. The sheep are fed only on clover hay is more convenient to work on. My forge is purchaser being the King, for the Windsor herd. at present, little grain being given them. Some homemade and works on the fan principle. It His Majesty also bought the heifer, Broadwood sixty acres of the farm is being set apart for cost me \$1.50 to make, and is second to none. Gem, for 130 gs. Seventy-four head averaged

Good Work on Lacombe Experimental Farm

Supt. G. H. Hutton sends the following synopsis of experimental work carried on at Lacombe during the year:

yields secured at Lacombe do not indicate that about fifteen years, experiments have been conthe crops felt the lack of rain to any great degree. ducted covering this point for the last two years. The soil of Central Alberta demonstrated its The results given below, while indicating that moisture-holding power this year, and when different combinations of fertilizers will increase given a fair chance has produced a fair return the yield, the increase is not sufficient to pay even under adverse conditions. From April 1st for the cost of fertilizer the first year except in to August 15th this year we had 8.34 inches, one instance. Following is the result: which, while considerably more than some sections enjoyed, is away below the average rainfall for this period.

All through the district good yields are recorded, particularly on breaking of 1909 or summerfallow of that year, which were handled with a view of conserving soil moisture. The soil packer on fall plowing proved its value in many instances, in that moisture was available for prompt germination and subsequent growth, while that on similar soil not so handled was lost through

EXPERIMENTS WITH SPRING WHEAT

All yields of spring wheat are high, though some varieties (notably Marquis and Chelsea) do not occupy as high a position in the list as usual. We consider Marquis, however, to be the different varieties tested:

		Days	Yie	ld in 19	10
	200	aturing	bus.	lbs.	OZ.
1.	Huron	156	69	35	10
2.	Pringle's Champlain	156	65	54	6
3.	Preston	156	65	50	10
4.	Riga	151	65	18	12
5.	Red Fife	160	64		
6.	White Fife	165	63	56	4
7.	Stanley	156	63	13	2
8.	Bishop		60	50	10
	Marquis		59	28	2
10.	Chelsea		53	5	10
x11.	Century	141	47	45	
	"Regenerated" Red				
	Fife	139	47	30	
"X	"-Sown on April 21s	st.			
	QUANTITIES OF SE	ED PER	ACR	E	

This is in opposition to the theories of certain Golden Chaff: writers who have been dealing with dry land conditions in the western states, but these figures are supported in the main by the results of previous years, and in consequence we advise to test out the results of thin and heavy seeding before going to the extreme in reducing the quantity of seed per acre. I would draw attention to the effect of increasing the quantity of seed per acre upon the length of time required to mature the crop as well as to the increased yield from the heavier sowing.

			0	Days	Weight	Yie	ld in 19	10
			ľ	naturing	of straw	bus.	lbs.	OZ
Marquis,	3	bus.		156	5670	45	30	
Marquis,	11	bus.		. 148	5645	49	54	(
Marquis,					5769	58	50	1(
Marquis,					5872	62	7	6
Marquis,					6018	63	41	

March 31st to April 28th. The season was favor-bushels, 41 pounds per acre sown on August 2 able for maturing late-sown grain, for the delayed 16th. The sowings of Dawson's Golden Chaff rains helped the late-sown plots to fill out. The made August 9th and 16th tied with a yield of grain sown April 14th was ready for harvesting 31 bushels, 30 pounds. six days earlier than that sown April 28th, and while the last sown gave a yield of 63 bushels, 41 pounds per acre being ten bushels more than that sown two weeks before, yet I consider the though not heading the list, is one of our best early maturity quite as desirable as a heavy varieties. Abundance also stands well up. The 10 yield. It is not likely that this order would hold past season did not appear to be as favorable 11 on average seasons, for as a rule the first sowings for oats as for wheat. Twenty-six varieties were 12 of wheat not only mature first but give the tested. The following table shows the standing 13 largest yield.

COMMERCIAL FERTILIZERS FOR SPRING WHEAT

With a view to determining the value of commercial fertilizers when applied to grain crops While the season of 1910 has been dry the on old land which has been growing grain for

Name of	Amt. applied per	Cost	Yie per a	acre	fertilizer when valued at 85c	
fertiliser	acre	fertilizer	bus.	lbs.	per bus.	ľ
Check plot		-	49	5	\$41.72	C
Acid phosphate	. 300	\$6.18	61	41	37.29	h
Muriate of Potash	120	4.33				ŀ
Nitrate of Soda .	. 120	4.63				8
Nitrate of Soda.	. 120	4.63	61	46	41.69	9,0
Acid phosphate.	. 300	6.18				C
Acid phosphate .	. 300	6.18	61	16	41.36	
Muriate of Potash	120	4.33]
Muriate of Potash	120	4:33	60	22	42.35]
Nitrate of Soda.	. 120	4.63]

EXPERIMENTS WITH WINTER WHEAT

The last two springs the snow has gone quite one of the best varieties for this soil, having re- early and the nights following have been cold gard to quality of flour produced coupled with and the days warm. We have had, therefore, quite early maturity. Following is the standing of a period of alternate thawing and freezing. Under these conditions winter wheat has always come through much better on breaking or on land reached its maximum at one and one-quarter which the variety tests of oats were carried on. bushels of seed per acre. The increase from onequarter of a bushel to two bushels of seed reduced The test of different quantities of seed has the length of time required to mature by ten resulted in favor of what might be considered days. The following tables show the results heavy seeding with wheat, oats and barley. with the two varieties, Alberta Red and Dawson's

Qu	of seed	yiel	d per ac	n Chaff cre oz.	yiel	d per ac lbs.	
1	Bushel	 0			15	5	10
	Bushel			10	27	33	12
	Bushel				29	26	4
1	Bushel	 31	30		45	41	4
11	Bushel	 49	3.5	10	49	18	12
11	Bushel	 43	43	2	50	48	12
13	Bushel	 28	43	2	52	30	
2	Bushel	 25	15		53	11	4

As in previous years winter wheat sown about the middle of August has given larger yields than 6 when sown either earlier or later. The first sow-0 ing was made on August 2nd, 1909, and sowings 8 were made of both Dawson's Golden Chaff and ⁴ Alberta Red one week apart up to September Spring wheat was sown at different dates from 12th. The highest yield of Alberta Red was 45

EXPERIMENTS WITH OATS

Among the varieties of oats tested Banner. of the best ten:

1. 2. 3. 4. 5. 6. 7.	White Giant	133 133 140 140 140 140	Yield bus. 88 82 80 79 78 77 75	8 2 10 14 18 22 22 30
9.	"Regenerated" Ban-			00
10.	ner Improved American.		75 73	30 8

QUANTITIES OF SEED

With different quantities of seed per acre a range from one bushel to four and one-half decreased the number of days required to mature by ten and increased the yield by twenty-nine bushels per acre. From two and one-half to three and one-half bushels of seed per acre usually gives the largest yields here.

ives the largest,	yicias	, IICIC.				
		Days matur-	Weight	191	0	
		ing	straw	bus-	lbs.	
Banner, 1 bus.		141	4680	91	26	
Banner, 1½ bus.		140	5595	100	5	
Banner, 2 bus.		139	5550	99	24	
Banner, 2½ bus.		138	6135	137	6	
Banner, 3 bus.		133	4410	110	10	
Banner, 3½ bus.		131	5010	129	24	
Banner, 4 bus.		131	4860	134	4	
Banner, 4½ bus.		131	4980	128	28	,

DATES OF SOWING

Banner oats were sown one week apart from plowed out of timothy than on summerfallow. March 31st to May 12th. The earliest sown oats Our varieties for this year were all sown on required one hundred and fifty-one days to masummerfallow and were not considered worth ture, while the last sown matured in one hundred while leaving this spring. Experiments in quan- and eighteen days. The heaviest yield was tities of seed and dates of sowing were sown on secured from the plot sown April 28th, which land plowed out of timothy sod after the hay was made 157 bushels 2 lbs. per acre. The question cut in 1909. The results in the quantities of may arise as to the reason the oats on these plots seed test bear out the work of previous years, yielded at a higher rate than the oats sown in except that formerly there has been a slight the test of varieties. The explanation is that falling off in yield past the one bushel and a half the land on which these tests were conducted seed per acre. This year the Alberta Red gave was plowed earlier in the season of 1909, and the largest yield when sown at the rate of two being well-worked down had a chance to store bushels per acre, while Dawson's Golden Chaff more moisture than the later plowed land on

	DAT	ES OF	SEE	DING OATS		
			***	Days aturing	Yi€ bus.	eld lbs
Banner,	March	31st		151	125	10
Banner,	April	7th		144	116	
Banner,					122	22
Banner,	April	21st		123	135	
Banner,	April	28th		123	157	.)
Banner,	May	5th		118	145	.)
Banner,	May	12th		118	141	6

EXPERIMENTS WITH BARLEY

Thirteen varieties of six-rowed barley and ten varieties of two-rowed were tested at Lacombe in 1910. The barley, Guy Mayle received from Montana, stands well, as does also the O. A. C. No. 21. Mensury is this year eleventh in the list of six-rowed varieties. The largest yield of six-rowed varieties is 80 bushels per acre. being reached by Stella and Guy Mayle, while Nugent stood last with 53 bushels 36 lbs. per acre. Following is the standing of the six-rowed varieties:

			T ACCTIO	orco.
	Stella	Days maturing . 123	Yield in bus- 80	1910 lbs
	Guy Mayle	. 114	80	
	Claude	128	79	3
	O. A. C. No. 21	. 119	77	39
,	Odessa	119	77	24
	Yale	124	77	24
	Albert	. 128	73	6
١.	Trooper	. 123	71	12
· .	riulless	1.08	67	24
).	Mensury.	110	63	36
l.	Mansfield	. 119	63	16
3	Oderbrucher	110	58	6
).	Augent	. 119	53	36
	(Continued on p	age 1866)		

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Aids to Agricultural Research

OUR ENGLISH CORRESPONDENCE

The meagreness of the help given by the British government to agricultural research work is strongly commented upon in a recent memorial to the Prime Minister by leading scientists and societies connected with agriculture.

The memorial strongly urges that systematic work should be done in livestock breeding, and towards more intensive methods in agriculture. The direct government grant for such investigation in the last few years has averaged only between £400 and £500 per annum, and this is a pitiful sum compared to the £750,000 of the United States; to Hungary's £55,000; to Denmark's £30,000; with other great countries in proportion.

The oversea Dominions are infinitely more liberal than the home government in providing for agricultural research. For instance, Canada provides £17,500 for experimental farms, and the Transvaal, £39,000.

It is but fair to state that the new British Development Board will be endowed with large funds, and that in future agricultural research in Britain will be endowed in better fashion than is the case now.

It is comforting to find that the memorial states that in spite of our deficiencies in investigation that the production per acre of crops and the better quality of our stock is higher than in any other country, with the possible exception of Belgian and the Netherlands. Whatever we may lack from a government standpoint the common sense of British farmers has brought agriculture to a high average standing.

CROPS AND LIVESTOCK

The autumn has been admirable from a weather standpoint, and farm work of all descriptions is well advanced, in marked contrast to the condition of affairs a year ago. The wheat is nicely above ground, and looks strong and healthy. The catch crops are flourishing.

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From a livestock point of view conditions are favorable, as hay and roots are plentiful, and the open weather has enabled a long use to be made of the pastures to the great saving of fodder. One disappointment is the lower average yield of wheat from threshing than expected. The grain has not turned out so heavily as its appearance promised. The average quality, however, is good. The government estimate of this year's wheat crop is 7,064,904 qrs., an average of 31.25 bushels per acre, which is about a half a bushel below the ten years' average, and excellent, considering the kind of a season.

Barley as well is slightly below the decade average, about a third of a bushel. The yield was 7,275,191 qrs., and the average 33.67 bushels an acre.

Oats have proved the cereal crop of the year. The yield was 15,484,241 qrs., 41 bushels to the acre and one bushel above the decade average.

It was along the east coast of Britain that the conditions proved less favorable for the three great cereal crops.

Potatoes have been lifted in good shape, and disease is less prevalent than expected, though severe in places. There exists a big demand from France for potatoes, and fortunes are being made by merchants, and farmers are getting better prices. In the Fen district one man bought 12,000 tons and cleared £10,000, and in many cases a profit of a pound a ton has been made in smaller transactions.

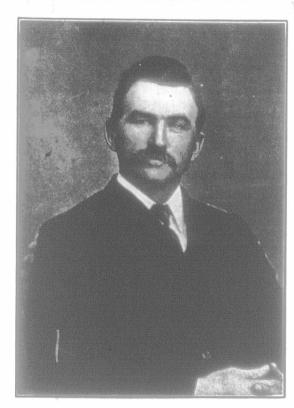
The government reports that store cattle and ewes are thriving everywhere, with disease occasionally noted.

GOOD MILK RECORDS

An instructive milk record is published each year of the Jersey and Shorthorn herds owned by Lord Rothschild, at Tring Park. In the year just ended, September 24th, the Jerseys seem to have been subject to many changes, only six continuing throughout the year. The highest individual Jersey yield was 7,821 lbs., and the average for eight which completed the lactation period at Tring, was 5,513¼ lbs.

There were 62 Shorthorns in the herd for the entire year, and their average was the fine one of 5,871 lbs. The highest yield was 11,262 lbs..

PIONEER SERIES No. 1



SAMUEL HUGHES

Born on a farm in Durham county, Ontario, in the early seventies; came to the Canadian West in 1890, with little or no cash; now a prosperous farmer and a member of the provincial legislature of Manitoba. This, in brief, shows how Samuel Hughes, of Grand View, has prospered. Common public school education and a course in business college gave him some equipment for going about his work in a businesslike way. Being born and raised on a farm he naturally turned his attentions to agriculture. several years after arriving on the prairies he was handicapped because of lack of money. The lot of the hired man was chosen in preference to homesteading. For seven years he experienced what only hired men are acquainted with. However, he was on the Carberry plains—that helped some to make his lot easy. Besides, he was rather fortunate in being employed with men, not slave-drivers. These years found his services in demand by farmers on these well known flains. Then Neepawa farmers knew him for three years, and for a like term he did his best to raise good crops in the Arden district.

In these years of apprenticeship he learned considerable about farming in the Canadian West. More than this he had saved some money, and feeling that he could farm about as well as those who had "bossed" him, a purchase was made at Grand View. At present Mr. Hughes farms a section of land with clay subsoil and 18 to 24 inches of black loam on top. It was pretty well treed with poplar and willow scrub. In addition to the main farm he has a quarter-section of land not yet under cultivation.

What this man has done others can do. How has he done it? By honest and intelligent effort. Experiences have told him that mixed farming is what is needed—even in this country noted as being primarily a grain producer. A crop rotation, comprising wheat, oats, barley, wheat and timothy is being worked out. The summerfallow is largely discarded, more attention being paid to timothy as the seasons pass. On summerfallowed land grains are sown to give pasture in late season. No doubt lessons on timothy growing instead of summerfallows were learned in the Necpawa district.

In livestock, special attention is paid to horses and hogs. He has nine purebred Clydesdales. A start was made four years ago with four mares. On these he used the best Clydesdale stallion within reach. Now he has six brood mares, three of which are purebred. No difficulty has been experienced in getting the mares to breed, and he seldom loses a foal. In 1909 and 1910, five foals were raised, and in 1908, six. Some have been disposed of when weaned at \$200. However, he does not advise selling at this age, unless financial circumstances or lack of food supply compel it. Mixed feeds are used, and not too much grain.

Hog-raising is relied upon as a very profitable feature of farming. Speaking about hogs Mr. Hughes says there is too great a tendency for men to go out of this line when prices fall a little. They should stay with it. His experience has shown that on the average a farmer has good profit at $5\frac{1}{2}$ or 6 cents a pound at point of shipment. The chief trouble is in getting satisfactory help—and it requires careful hands to look after pigs and get best results.

In recent years Mr. Hughes has been placed in public offices. In 1903 he was councillor of Langford Municipality. Grand View elected him to the council board in 1906. He has served two terms as reeve of the same municipality. East-summer when the Conservatives of Gilbert Plains wanted a man to carry their standards in the provincial contest they selected Hughes—and he won. When the house opens again, agriculturists can depend on him for support of measures that are in the interests of this great industry.

[NOTE. -Next week's issue will contain a review of experiences of A. B. Bompas, of Wolseley, Sask.]

given by the 14-year-old cow, "Fuebelow Countess 2nd." She has averaged 9,104½ lbs. for six years.

The famous cow, "Dorothy," has produced 11,130 lbs. this year, and has a six-year average of 9,275 and five-sevenths lbs. As she was dry for 106 days this year her daily average of 43.13 lbs. of milk is the best in the herd. It is to be regretted that no butterfat figures are given, as they would prove most interesting.

Very great interest has been caused to farmers and fruit growers in recent years by experimental work on the influence of electricity on plant growth, and probably the most eminent scientist engaged in the work has been Sir Oliver Lodge, the principal of Birmingham University. Sir Oliver has just given his first public discourse on the investigations that he has been conducting for some years on various soil problems. He states that of the problems that are receiving, and yet await intelligence, the absorption of nitrogenly plant life is one of the chiefest. But there are other factors that are coming to the front, of probably equal importance in regard to the reclamation of barren soils; the influence of strong sunshine and of heat upon soil in preparing it for seed; and the curious effect not only of burning but of poisoning or disinfecting the soil, and thereby increasing its fertility. The last process destroys opponents and devourers of healthful bacteria so that these bacteria multiply at a prodigious rate.

In addition to all this is the problem of the electrification of the air above the growing plant. Such electrification always exists, and the pointed character of leaves show that it is made use of. By artificial means the electricity can be greatly intensified, and for years investigations have been made by various scientists. Prof. Lodge has conducted experiments on a large scale near Evesham for the last five years. Wheat has shown an increase of as much as 30 per cent. when electrical stimulus is applied. A practical apparatus has been devised, which is inexpensive. A two-horse power engine is sufficient for a 20acre plot. Wires are stretched at a height of several feet above the ground, on which crops are grown, and these are connected with a machine producing a suitable continuous current of positive electricity.

It has been found that sugar beet seems to contain more sugar under electrical treatment, strawberries mature earlier and are sweeter. The tops of the plants rather than the roots appear to be beneficially affected, although leguminous plants are an exception. Similar apparatus has been installed in various parts of the world, some for commercial use, and the new process looks like being a great aid to agriculture and horticulture.

OVERSEAS TRADE INCREASE

British oversea trade established a new record for October, of commercial progress. The imports and exports reached the great total of £103,700,000. No other nation has a foreign trade approaching ours in magnitude. The imports reached £58,000,000, the greater part of which was made up of food and raw materials. Exports reached £45,700,000, principally manufactured goods.

It is of interest to note the direction of the British export trade. For the first nine months of 1910, exports to foreign countries were of the value of £210,842,000, and to British possessions the total was £107,735,000. While colonial trade is very satisfactory the bulk of exports still go to foreign countries. In the last ten years our population has increased by about 10 per cent., and external trade by 30 per cent. These relative figures are hardly a sign of decadence in British enterprise, and are a speaking tribute to the buoyancy of an untrammelled commerce.

The Liverpool show of the Royal Agricultural Society resulted in a profit of £5,400, according to the figures presented at a council meeting of the society. Bristol is to have the show of 1912. At the meeting a resolution was passed after

of skins and feeding stuffs in the same ship.

F. DEWHIRST.

amend the Inspection and Sale Act, making it ulating the udder we can make the milk richer. compulsory where potatoes are sold by the Their system of manipulation is called the barrel, the barrel shall contain one hundred and Hegelund method. The university of Wisconsixty pounds.

Dairy

Drying Off Cows

With some cows it is quite difficult to get them dry; yet it is quite necessary to do this, not only for the sake of the cow during the next lactation period, but also for the welfare of the future calf. Put the cow in a stall and feed her only hay for a time, until she is dry. Look after her udder during the time of drying off, and milk enough of the milk to keep the udder from becoming inflamed. Cows freshening in September and October should be dried off in July and August, when flies are bad, and at a time when the heaviest part of the farm work is to be done. As soon as the cow is entirely dry she may be fed a light grain ration, to get her in good condition, though not fat, for freshening.

It is poor economy to keep dry cows on a starvation ration, as they will not be in condition to do a good year's work when freshening. A organized grain growers of the Canadian West stopped fat for a time, to produce dairy products; but, the parliament buildings before the members of as self-preservation is one of nature's first laws, the Dominion House. No one could listen to the she cannot be expected to continue to draw on her own supply unless she has a little extra laid up.

When Should You Milk?

Much has been said on the differences in milk tests and the causes of variation in the percentage of butterfat in milk from the same cow. The following article appeared in a recent issue of American Agriculturist

Some farmers claim that the fat contest of milk can be increased through methods of feeding, while others claim that it cannot. This is an old question, which has been much discussed. Whether we can increase the fat content by feeding or not, there are other causes of variations which are sometimes overlooked. Thus, changes in quality are often attributed to feeding when they are due to something else. The nervous system of a cow has much to do with the secretion of milk, both as regards quality and quantity.

The time between milking also affects the test. Milk a cow late in the evening and the udder will be unusually full and hard. Many of the glands will not be in a free and normal condition. The milk will be rather blue and low in fat content. During the night, however, the fat secreting cells have more freedom and the morning's milk will be richer. It is not uncommon for the difference to be as great as 2 per cent., and sometimes it is over 3 per cent. Upon the average farm, where the cows are now milked at 7 p. m. and 5 a. m., the morning's milk will be much

In one case a farmer decided to test his cows. His good wife washed a few bottles for him. He Ontario and other provinces of the East, it can easily numbered them and then, just as they began to be concluded that the big deputation was capable neglected, and if the neglect is continued it will soon milk, stripped a little into the bottles at the very of leaving an impression not soon to be forgotten, result in impoverished farms, and the live-stock start. In the morning, however, the milk was strangely blue. It tested 2 per cent. Why was memorials dealing with matters that the main body of furnish more and better stock, and, 5 per cent, while the last strippings will some-should be considered and amended were placed be-factory market going out of the meat producing times test about 12 per cent.? In the first place fore the government on Friday. The strongest new business and will not again take it up until the marin the udder there is a sort of milk reservoir. Provinces were chosen to present the memorials and under the present system of exporting, there is al-Frequently this is of such a size as to allow the call attention with due force to the chief reasons for ways a danger of the markets of the world being cream to rise. Then, again, many of the fat presenting the same. Their parts were well done, closed to us, which would result in ruin to many; and,

discussion on anthrax and foot and mouth disease, milk will naturally test higher than the strippings, urging the importance of disinfecting all ships and the very process of milking is a factor which and wagons that have carried foreign skins controls the test. Allow a careless man to milk before using then to carry feedstuffs, and also the old cow a week, and then watch for a change on the desirability of preventing the carrying in the test. A change in test might be due to the hired man or the children who do the milking instead of the supposed pasture grass.

Again, the fair-haired and blue-eyed milk-F. B. Carvell, M. P., is introducing a bill to maids of Denmark are teaching us that by manipsin has found that by such a system the quantity after the reply of the Premier had been concluded as of fat from a herd of cows was increased 9.2 per they did months ago about what action would be the higher than the Huden Bay Railway the cent., while the quantity of milk was increased

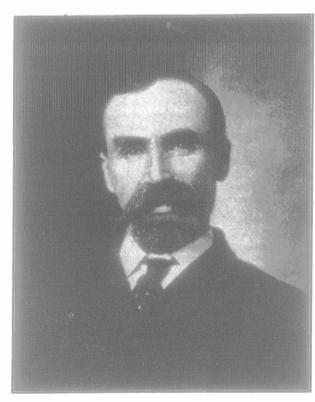
only 4.5 per cent.

Everyone admits that the test varies with the age of the cow, with the individual, with the breed and with the time since the cow freshened. The fact that a cow's milk is usually richer in the fall and winter than during the spring and summer has led many people to believe that the test can be regulated largely through the feed. Possibly it can. It depends for one thing upon fuel, illuminating and lubricating oils, cement, fish the previous condition of the cow. It is entirely possible and probable, however, that many changes in the test have been due to the time and manner of milking rather than to the supposed effects of the feed.

Field Notes

Farmer Delegation at Ottawa

When the delegation of tarmers representing the relations. cow of the dairy type will draw upon her body- off at Winnipeg on their way to Ottawa, few doubted that some strong memorials would be presented in



D. W. McCUAIG President of the Canadian National Council of Agriculture, who presided over the farmer delegation in the presentation of memorials before the Dominion House

speeches at the banquet in Manitoba Hall without feeling that this body of men formed a force that of Canada that prompt government action be taken to action. When it is considered, also, that these on a sound and permanent basis, with the interests of 500 westerners were strengthened by hundreds from the producer adequately protected, and,

questions on the part of this army of farmers, several it is made worth the farmers' while to produce and it? Why will the fore milk sometimes test about agriculturists in all parts of the Dominion deem representing the interests of farmers in each of the ket is placed upon a stable basis, and further that

Hill, Ont., as secretary. It was to be expected that their campaign, so well planned and so ably executed, would bear fruit that would please the men

Sir Wilfrid Laurier, Mr. R. L. Borden and their followers listened carefully to the arguments of the deputation. Every one expected something definite on at least a few of the suggestions offered. The Premier, while on his trip through the West last summer, was in position to know the feeling of the great prairie country. He was therefore in possession of sufficient facts to enable him to answer the delegation in words that would satisfy them. It can safely be said, however, that few found a grain of satisfaction. The farmers of Canada knew as little taken in regard to the Hudson Bay Railway, the terminal elevators, or the tariff.

RESOLUTIONS ADOPTED BY DELEGATES

When the farmer delegates from the various parts of the Dominion met on Thursday, the following resolutions were adopted after thorough discussion

TARIFF PROPOSALS

1. Reciprocal free trade between the United States and Canada in all horticultural, agricultural and animal products, spraying mater als, fertilizers, and lumber.

Reciprocal free trade between the two countries in all agricultural implements, machinery, vehicles

and parts thereof

3. An immediate lowering of the duties on all British imports to one-half the rates charged under the general tariff, whatever these may be; that any trade advantage given to the United States in reciprocal trade relations extend to Great Britain.

4. Such further reductions of the remaining pre-

ferential tariff as will ensure the establishment of complete free trade between the Dominion and the Mother Country within ten years.

That the farmers of this country are willing to face direct taxation in such form as may be advisable to make up the revenue lost by the new tariff

HUDSON'S BAY RAILWAY

Whereas the necessity of the Hudson's Bay Railway as the natural and most economic outlet for placing the products of the Western prairies on the European market has been emphasized by the Western people for the past generation and whereas the Dominion government has recognized the need and importance of the Hudson's Bay Railway and has pledged itself to its immediate construction and has provided the necessary funds entirely from the sale of Western lands;

And, whereas, the chief benefit to be derived from the Hudson Bay Railway will be a reduction in the freight rates in Eastern Canada, due to actual competition, which could be secured only through government ownership and the operation of the Hudson

Bay Railway

And, whereas, anything short of absolute public ownership and operation of the Hudson Bay Railway will defeat the purpose for which the road was advocated, and without which it would be in the interests of Western Canada that the building of the road should be deferred;

Therefore, be it resolved, that it is the opinion of this convention that the Hudson Bay Railway and all the terminal facilities connected therewith should be constructed, owned and operated by the Dominion government under an independent commission.

TERMINAL ELEVATORS

Whereas we are convinced that the terminal elevators, as now operated, are detrimental to the in terests of both producer and consumer, as proved by the recent investigation and the testimony of the important interested bodies, we, therefore, request that the Dominion government acquire and operate, as a public utility, under an independent commission, the terminal elevators of Fort William and Port Arthur, and immediately establish similar terminal facilities and conditions at the Pacific coast and provide the same at the Hudson Bay when necessary.

Also, such transfer and other elevators necessary to safeguard the quality of the export grain.

CHILLED MEAT AND EXPORT BUSINESS

Whereas, it is of very great importance to the whole would move even the slowest of parliamentarians toward establishing a complete chilled meat system

Whereas, the live-stock industry of Canada has been After a day's close and careful consideration of industry of the country will make no headway until

Whereas, the farmers are on account of an unsatis-

globules are as large as the small milk duets. They pass through these duets with difficulty, and they never come out first. Thus, the fore the fore the fore the fore the first really big undertaking of the Can—whereas, on account of the danger of encouraging monopolies, farmers cannot be satisfied with any-and they never come out first. Thus, the fore the fore the first really big undertaking of the Can—whereas, on account of the danger of encouraging monopolies, farmers cannot be satisfied with any-and they never come out first. Thus, the fore the first really big undertaking of the Can—whereas, on account of the danger of encouraging monopolies, farmers cannot be satisfied with any-and they never come out first. Thus, the fore the first really big undertaking of the Can—whereas, on account of the danger of encouraging about a year ago with D. W. McCuaig, of Portage thing short of a meat curing and chilling process, inaugurated by the Dominion government and oper-This is the first really big undertaking of the Can— Whereas, on account of the danger of encouraging

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ated in such a way that will guarantee to producers were said to be essential to the solution of the prob- would be profitable. As for cold storage, the minister the value of the animals they produce

Therefore be it resolved that the government be

We suggest that a system owned and operated by representations made. the government as a public utility, or a system of co-operation by producers through the government in which the government would supply the funds necessary to first install the system and provide for the gradual repayment of these funds and interest by a charge on product passing through the system, would give the relief needed, and make Canada one tors. of the most prosperous meat producing countries in the world.

OTHER RESOLUTIONS

After taking up the banking system, the following resolution was carried

Whereas it is generally believed that the bank account, forming as it does the charter of all Canadian banks for a ten-year term by its present phrasing prevents any amendment involving the curtailment of their powers, enjoyed by virtue of the provisions of such charter, be it resolved that this convention desire that the new bank act be so worded as to permit the act to be amended at any time and in any particular.

It was also resolved that it was desirable that cheap and efficient machinery for the incorporation of co-operative societies should be provided by federal legislation during the present session of parliament.

SIR WILFRID'S REPLY

presented their case. On rising to reply, the Premier and a good one. acknowledged the profit all had had from listening to the expression of views from such a representative delegation, even though they did not share these views in their entirety. He stated that although the eastern provinces were represented, it was evident best Canadian-bred mare in this class was Roselva, that the feeling of the West, which was more radical, owned by Alex. Graham, of Oro. pervaded the memorials presented. He opined that The Hackney championship so far. Referring to government ownership and

referred to the great agricultural wealth of the West— was case some \$300,000,000. Sir Wilfrid used this as an Princess. argument that the farmers had little cause for complaint. It was possible things are not in as good condition as they might be, but perfection was not found on this planet. Commercial trade relations with the United States, he said, could be improved the third time. His majority is 1717. in accordance with their recommendations by treaty or by concurrent legislation. He assured them that regarding the United States would impair or affect water. the British preference.

Discussing the resolution on terminal elevators, the Premier showed that he had a fair grasp of the situation in connection with the shipment and trans-fer of grain enroute from the Canadian West to Great resulted in the death of thirty-one men. This is one of Britain. He considered that something should be done to control matters at points in the East as well of coal mining in Alberta. asiat Port Arthur and Fort William. Improvement of grain routes via Ottawa, down the St. Lawrence,

W. J. TREGILLUS Vice-President of the United Farmers of Alberta, who took a prominent part in proceedings with which the farmer delegation dealt at Ottawa

to government operation he promised to consider the 111 to 66.

FARMERS NOT SATISFIED

Even months will not put an end to the expressions of opinion in regard to the Premier's reply. No one United Farmers of Alberta convention at Calally expected that something definite would be Manitoba Grain Growers' convention, Brandon granted at least in regard to the terminal grain eleve granted at least in regard to the terminal grain eleva-

But the delegation will go ahead undaunted. visits among friends in the East. The executive of the Canadian National Council of Agriculture, however, have pressed for further hearings. No doubt there will be more to announce in next week's issue.

Horse Championships at Guelph Show

The horse championships made at the close of the Guelph Winter Show evoked much enthusisam at the time the awards were being made. The champion Clydesdale stallion, any age, was Sailor King, owned by the Graham-Renfrew Company, of Bedford Park, Ontario. This animal, which is three years old, possesses fine Clydesdale characteristics.

Baroness Insch, owned by Smith & Richardson, of It was well past noon when the delegation had Clydesdale mares. She was an imported mare

The Canadian-bred class of Clydesdale or Shire stallions was represented by a large field, and Fascination, only a year and a half old, owned by Smith & Richardson, of Columbus, captured first prize. The

The Hackney championship prize was awarded farmers of the East were not prepared to go quite to Derwent Performer, shown by G. H. Pickering, of Brampton. Chocolate King was the name of the control of public utilities, he was a man of the East. During the presentation of the case, F. W. Green referred to the great agricultural wealth of the West— was easily taken by J. F. Husband's Warwick gation into the distribution of the inconvenience of a close second. The Hackney mare championship to run the cars, because of the outcome of an investigation into the distribution of their cases.

Events of the Week

Sanford Evans is elected mayor of Winnipeg for

Jos. Parker, a farmer near Brandon, broke through negotiations were under way that promised to give the planking at the top of a well and lay at the bottom some remedy. Difficulties that are met were re- for several hours before he was found. Death referred to. Assurance was given that nothing done sulted from the fall, and remaining in the ice-cold

> Explosion of gas in a coal mine of the Western Cathe most serious mining disasters in the history

The legislature of Saskatchewan opened on December 15, and adjourned till January 17, when it will assemble in the new parliament buildings. The speech from the throne foreshadows bills dealing with grain elevators and workmen's compensation and insurance

The Massey-Harris Company have purchased a large implement manufacturing plant in the United States, and will extend their business in the neighboring republic. It is believed that the expectation of closer trade relations with the United States is the chief reason for the company's move in this direction. Up to the present, Canadian manufacturers have not maintained branches in the Repubilc.

The Northwestern Miller, the organ of the flour milling interests of the Northwestern States, has come out with a strong demand for the removal of the duty on Canadian wheat. This journal declares that the United States are on the verge of a wheat shortage and that unless provision is made for the importation of foreign wheat the American farmers will soon have the bread consumer at his mercy.

Amendments to the Hail Insurance Act were introduced in the Alberta legislature by Premier Sifton. The bill provides for a flat rate premium of 25 cents an acre, with a flat rate of indemnity of \$4 per acre. At present the indemnity is \$4, \$6 and \$8, with premiums at the rate of 20 cents, 30 cents and 40 cents per acre, respectively. A loss of over \$300,000 was incurred under the hail insurance ordinance during the past year.

* * *

Dr. Sproule, East Grey, introduced a resolution in the House of Commons last week, calling for the establishment of a system of abattoirs and cold storage under government supervision to encourage trade in chilled meats. The position of the government, as explained by Hon. Sydney Fisher, was that they would take any practical steps that would be of real benefit to farmers, but that it was doubtful president of Manitoba Grain Growers Association, who lent aid whether a government owned system of abattoirs in presenting the case of the farmers at Ottawa

of agriculture pointed out that there was already a Dealing with Hudson Bay Railway resolution he very effective system in operation while the work urgently requested to erect the necessary works and operate a modern and up-to-date method of exporting our meat animals.

Dealing with riudson bay Kallway resolution he very effective system in operation has a said that government ownership was not altogether of the department generally, had been in the interior our meat animals.

Dates to Keep in Mind

Manitoba Agricultural Societies' convention, Agricultural College, Winnipeg. February 13 to 17 Most of them left Ottawa for their homes, or for Dairymen's Association convention, Agricultural College.February 14 to 15 Manitoba Horticultural Society's convention, Agricultural College February 18 to 19March 11 to 17 Brandon Winter Fair. Saskathewan Winter Fair. March 20 to 24

> Professors F. T. Shutt and J. H. Grisdale, of the Central Experiment Farm, have returned East after a six weeks' trip of inspection to the farms in the West. Professor Grisdale intends starting new work in crop rotation and soil cultivation at the various farms in Manitoba, Saskatchewan and Alberta. Cattle feeding also is to receive more attention than formerly.

> The National Grange of the United States was in session last week. The president, in his annual address, attributed the high price of farm products to the consumer to bad roads, excessive freight charges and to extortionate profits of commission houses. He advocated co-operative methods among farmers in buying and selling, as a remedy for the abuses that have sprung up under the present sys-

> Winnipeg citizens suffer the inconvenience of a months ago for drinking while in uniform. With the assistance of college students cars have been run irregularly, and the men have been given until Tuesday noon to return to their work.

> For the first time since Manitoba and North Dakota began annual international debating, Manitoba Agricultural College will be represented on the Canadian team. At a meeting last week the literary society at the agricultural college selected J. H. Evans, a fourth-year man, to assist in putting up a fight for Manitoba. The other two debaters are Messrs Gardiner, representing Manitoba College, and McCool, representing Wesley. The question of de-bate reads as follows: "Resolved that the Combine Investigation's Act, May, 1910, offers proper remedy for the evils of trusts, monopolies, combines and mergers, in both the United States and Canada." Manitoba debaters will uphold the negative some time in February in Winnipeg.



R. C. HENDERS



WEEKLY



3.50 3.40 3.25 3.85 4.55 4.40 3.85 3.25

5.50

23.00

13.00 11.00

10.00

15.00

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16.00 .. : - 70c

Grain ran through the week at almost a dead level. Dec. 98
Fluctuations were only fractional, and oats, barley Mar. 100½
and flax closed on Saturday practically where they May 101 and flax closed on Saturday practically where they started Monday, without enough change in the daily level to leave anything even for scalpers to take off. The markets all over the world were dull, and there seemed nothing in the situation to send even a ripple over the dead serenity of wheat prices. Europe was satisfied with her own and the outlook abroad. America hasn't got to that stage yet where figuring can be done on the winter crop, so in the absence of anything to speculate on the market went dead. Live stock are selling slowly. All markets were rather dull, considering the Christmas trade was being done. Poultry promise to sell at high prices during the holiday season. There is a shortage both east and west.

GRAIN Wheat lagged through the week without much change in price. Export demand was fairly good, and a reasonable business done selling abroad. World's shipments continue heavy, Russia showing a sur-prising ability to deliver the grain. Reports from fo Argentina are all favorable, and the work of harvesting and threshing is proceeding in that quarter under almost ideal weather conditions. Reports from N Europe generally are good. Latest estimates of the exportable surplus of Argentina are 112,000,000 bushels; for Australia, 50,000,000 bushels.

	VISIBLE SU	PPLV	
Canada— Last			Last year.
Wheat.	15,120,920	13,141,547	10,084,287
Oats	7,834,910	7,037,403	3,273,576
Barley	403,665	393,971	991,651
United States—			
Wheat	42,666,000	42,989,000	28,400,000
Oats	15,349,000	15,758,000	12,228,000
Corn	1,510,000	1,545,000	5,663,000
Europe—			
Wheat	119,280,000	120,240,000	78,000,000
W	ORLD'S SHIP	MENTS	
American	3,568,000	3,448,000	4,312,000
Russian	5,827,000	4,072,000	3,912,000
Danube	2,016,000	1,600,000	800,100
India	680,000	856,000	88,000
Argentina	504,000	952,000	200,000
Australia	328,000	464,000	136,000
Chili	232,000	176,000	200,000
		13,328,000	9,648,000
Corn		4,395,000	3,129,000
Wheat on Passage	35,904,000	38,768,000	26,968,000

Corn		20,03	5,000	20,256,0	000 10.	786,00
	W	INNIPE	G OPTI	IONS		
Wheat-	Mon.	Tues.	Wed.	Thurs.	Fri.	Sa
Dec	901	89	90	897 941 953	901	9(
May	941	94	94	941	943	94
July	$95\frac{1}{2}$	95	95	95	$95\frac{1}{2}$	95
Oats-						
Dec	325	32	32	323	323	32
May	$36\frac{1}{2}$	36	36	$\frac{323}{361}$	$36\frac{1}{2}$	36
Flax—				V		
Dec	206		210		-00	207
May	215	218			217	217
7771		CASH	GRAIN			
Wheat-	000	00.1				
No. 1 Nor.	893	891		891		90
No. 2 Nor.	863	861			87	87
No. 3 Nor.	833	831				84
No. 4	793	$79\frac{1}{2}$	80	$79\frac{1}{2}$	80	80
Rej. 1, 1 Nor		83		831	831	83
Rej. 1, 2 Nor	$80\frac{1}{2}$	$80\frac{1}{2}$	81	814	811	81
Rej. 2, 1 Nor.	$80\frac{1}{2}$	$80\frac{1}{2}$	81	811		81
Rej. 2, 2 Nor.	$78\frac{1}{2}$	$78\frac{1}{2}$	79	$79\frac{1}{2}$	$79\frac{7}{2}$	79
Rej. 1 Nor.,					_	
for seeds	$82\frac{1}{2}$	$82\frac{1}{2}$	83	83	83	83
Rej. 2 Nor.,						
for seeds	807	$80\frac{1}{2}$	81	81	81	81
Oats—						
No. 2 C. W.	$32\frac{1}{2}$	$32\frac{1}{2}$	321	$32\frac{5}{8}$	324	32
Barley-						
No. 3	47	$46\frac{1}{2}$	and and		47	47
No. 4	4 4 5	38	$38\frac{1}{2}$	$38\frac{1}{2}$	381	38
Rejected	* * *	$36\frac{1}{2}$	$36\frac{1}{2}$			36
Feed		$34\frac{1}{2}$	$34\frac{1}{2}$	$35\frac{1}{2}$	341	34
Flax—						
No. 1 N.W.	205	$208\frac{1}{2}$	209		208	-207
Ch:	AMERIC.	AN WI	HEAT O	PTIONS		
Chicago-	0.1.1	0.11	0.22			
Dec	918	914	928	$92\frac{1}{8}$	$91\frac{3}{4}$	
May	$95\frac{5}{8}$ $93\frac{1}{8}$	951	963	$96\frac{1}{2}$ $93\frac{1}{2}$	953	95
July	938	93	938	$93\frac{1}{2}$	$93\frac{1}{8}$	93
Minneapolis	1001	1003	1011	1004		
Dec	1005	100%	1014	$100\frac{7}{8}$	$100\frac{3}{8}$	$100\frac{1}{8}$
May	1038	1038	1048	$103\frac{1}{2}$	$103\frac{1}{8}$	$103\frac{1}{8}$
Dec	1045	1041	104 g	1041	$104\frac{1}{8}$	1045
Dulutii						
		101	101		$100\frac{3}{4}$	$100^{\frac{3}{4}}$
May			$105\frac{5}{8}$	$105\frac{1}{8}$	$104\frac{3}{4}$	$104\frac{5}{8}$
)aux			FLAX	000	200	
	238		2403		233	232
Iay		249	$246\frac{1}{2}$	245	238	237
	I.	IVERP	OOL			
Xo. 1 Nor . Xo. 2 Nor	1065	1061	$106\frac{1}{8}$	$106\frac{1}{8}$ $102\frac{5}{8}$	$106\frac{7}{8}$	$106\frac{7}{8}$
o. 2 Nor	1028 1	025	1025	$102\frac{5}{8}$	$103\frac{2}{8}$	$103\frac{2}{5}$

Dec 98 97\\ 97\\ 98 98\\ 98\\ 98\\ 98\\ 98\			REPRESENTATIVE	PURCH	ASES	
Mar $100\frac{1}{2}$ 100 $100\frac{1}{3}$ $100\frac{5}{8}$ $100\frac{7}{8}$ $100\frac{7}{8}$	440.]	Hogs	Avg.	Weight	Price
May $101 100\frac{5}{8} 100\frac{7}{8} 100\frac{1}{8} 101\frac{3}{4} 101\frac{3}{4}$	35	Hogs			193	\$8.00
FOREIGN CROPS	474	- 8	·		183	7.50
United Kingdom—Outlook for the new sown wheat	1.5	/			311	7.25
is fair. Unofficial reports state that the condition	150	4.6			50	6.00
offseeding is very unfavorable.	3	4.4			392	7.00
France—The new sown wheat, with the exception		Cattle				
of that seeded on upland, is very unfavorable, as	20	Cattle			1100	4.50
the result of continued wet weather. There are	8	Cattle				4.25
heavy purchases of foreign wheat being made.	1.1	4.4			1061	4.00
Germany.—Condition of the new wheat plant is	0.5	4.4			948	3.85
avorable. Supplies of native wheat are larger.		4.4			873	3.75
Local and export demand continues on liberal scale.	20	4.4			842	3.50
Russia.—Weather conditions favorable for the	1.4	4.4			671	3.40
growing crops. Interior reserves of wheat are very	32	Come			113	4.55
arge and increased arrivals are expected.	25	Cows			192	4.00
STOCKS IN TERMINALS	20	4.4			145	3.75
Total wheat in store, Fort William and Port	- 7	4.4	************		019	3.50
Arthur, on Dec. 9, was 6,101,143, as against 5,296,855	2	4.4			125	3.35
ast week, and 3,586,161 last year. Total shipments	0	4.4			825	3.25
or the week were 2,054,243, last year 3,747,088.	11	6.6			998	3.10
Amount of each grade was:	122	4.4			905	3.00
/ 1910. 1909.	7	4.4			900	2.75
Vo. 1 hard	1	6.6			000	2.25
No. 1 northern	2	Bulls			600	3.35
Vo. 2 northern 1,437,474.30 1,105,722.30	5	Dulis			105	3.25
No. 3 northern 1,260,426.10 511,867.00	8	6.6	******		- 0 0	3.10
Vo. 4	5	6.6	************		732	3.00
Vo. 5	1	6.6			575	2.75
Other grades	4	Calves	******		270	5.00
021,001.00 110,011.10	7	11			399	4.50
5 101 145 50 3 586 161 10	12	4.4			380	4.00

No. 1 northern	971 FOF 10	001 544 00	0	D., 11.
No. 1 northern	871,565.10			Bulls
No. 2 northern	. 1,437,474.30		5	
No. 3 northern	1,260,426.10	511,867.00	8	6.4
No. 4	440,439.10			6.6
No. 5	253,297,30	45,913.00	1	6.6
Other grades	824,367.50	716,047.10	4	Calves
			7	4.4
	5,101,145.50	3,586,161.10	12	4.4
Stocks of Oats—		, ,	12	4.4
No. 1 white	224,023.11	117,036.01	4	44
No. 2	2,456,129,12	602,572.07	7	
No. 3 white	302,107,29	169,198.21	3	6.6
Mixed	4.040.50	9,551.12	1	1.4
Other grades	520,058.18	139,052.32	95	Steers
			4	4.4
	3,506,359.00	1,037,718.05	6	4.4
Barley	252,718.00	286,051.00	1	4.4
Flax	453,650.00	497,123.00	203	Sheep
SHIP	MENTS			
Oats		356,073.00		
Barley		1.814.00	Ex	nort ste

												E						
Oats								,			,	,	,	٠	,			356,073.00
Danley.																		1.814.00
Flax.	*		*					,		٠		*	*	٠	,			58,267.00

ARGENTINE SHIPMENTS

Argentine estimates wheat shipments at 960,000, hogs. \$6.75. last week 504,000, last year 376,000. Corn 2,100,000, last week 4,395,000, last year 1,340,000.

The weather continues favorable and threshing of

The United States department of agriculture has issued final figures for the crop of 1910, giving the total yield of wheat as 695,437,000, as against 737,189,000 bushels in 1909, and 664,000,000 bushels in 1908.

The yield of corn was 3,125,713,000, against 2,772,376,000 bushels. Oats, 1,135,763,000 bushels, and the corresponding to the correspondin

against 1,007,353,000 bushels in 1909.

WANT FREE WHEAT

The Northwest Miller came out last week with a strong editorial demanding removal of the United Cream, sour, per lb. butterfat States duty on foreign wheat, citing as reason the fact that the United States is rapidly approaching that stage where they must either import wheat from the Dominion or place their ninety odd million bread consumers at the mercy of the American wheat producer. According to the Miller, which, by the way, is the official organ of the milling interests of the Northwest, the American farmer is not producing enough wheat because other crops pay better.

LIVESTOCK

Receipts at the Winnipeg yards are ught, particularly light in choice beef stuff. For the season there has been a fair-sized run of butcher cattle, and a heavier than usual run of hogs. Cattle prices are dry, salted, sides, per lb. Receipts at the Winnipeg yards are light, particstuff in the yards, brought satisfactory prices, but the average run sold low. Hogs have been coming in heavily, and prices are lower. Around \$7.30 have been the best figures quoted, and it is altogether probable that this price will be lowered in the next fortnight. Sheep and lambs are slow at unchanged figures. Prices for stock of all grades are as follows:

S are as follows	
Choice export steers, freight assumed \$4.50 to \$4.75 Good export steers, freight assumed 4.25 to 4.50 Choice export heifers, freight assumed 4.25 to 4.50 Choice butcher steers and heifers, de-)
Good butcher cows and heifers 3.75 to 4.25 Medium Mixed butcher cattle 3.00 to 3.25	
Choice hogs 7.25 Choice lambs 5.50 to 6.00 Choice sheep 5.00 to 5.25	

Medium calves

 $100^{\frac{1}{2}}$ $100^{\frac{1}{2}}$ $100^{\frac{1}{2}}$ $100^{\frac{1}{2}}$ $101^{\frac{3}{2}}$ 102 Choice light calves

TORONTO

Export steers, \$5.25 to \$6.25; cows and bulls, \$4.75 to \$5.25; butcher cattle, \$3.50 to \$7.10; calves, \$3.50 to \$7.50; feeders, \$5.00 to \$5.40; store cattle, \$4.00 to \$5.00; sheep, \$4.25 to \$4.60; lambs, \$5.25 to \$6.10;

BRITISH

The weather continues favorable and threshing of Sat. wheat in the north shows good results. Acreage planted to corn is 9,250,000. This compares with 7,349,000 in 1908–09. This total crop in 1909–10 is officially placed at 164,000,000 bushels.

London: ranchers, 10c. to 11½c.; Canadian steers, 13c. to 13½c. Liverpool: Fed ranchers, 11c. to 13c.; Canadian steers, 12c. to 13½c.; bulls, 10½c. to 11c. Canadian bacon, 13 3-7 to 14 2-7 cents.

Beef steers, \$5.50 to \$6.75, butcher cattle, \$3.50 to \$6.00; stockers and feeders, \$4.25 to \$5.50; calves,

PRODUCE MARKETS Following were the quotations last week for farm

products in Winnipeg: 29 to 30c. sweet. 34 to 35c. Butter, creamery, fresh, in boxes 30 to 31c. bricks 32 to 33c. No.1 dairy 25 to 26c. No. 2 dairy 20 to 22c Cheese, Eastern 13a to 13gc Manitoba make Eggs, fresh, subject to candling 11 to 11gc 27 to 28c Live poultry, turkey, per lb. 15 to 16c. chickens, per lb. 12 to 13c. boiling fowl, per lb. 8 to 10c ducks, per lb. 11 to 12c. 10 to 11c. 18gc. .20gc beef, hind quarters, per lb. . 15gc. . 9gc beef, front quarters, per lb. . 6gc mutton, per lb. 12c pork, per lb. veal, per lb. llgc Hides, frozen, per lb. country cured, per lb. Lamb and sheep skins 7g to 8c 25 to 50c Unwashed wool 9 to 11c. Feed, bran, per ton shorts. per ten \$18.00 19.0022.0024.00



.. No. 2 No. 3

Timothy, No.

4.50 to 5.00 Potatoes, per bu

4.00 to 4.50

No. 2

HOME JOURNAL

PEOPLE AND THINGS THE WORLD OVER

be held early next year, 150 ministers of Cleveland trial elsewhere. announced their intention of donning jumpers and doing the carpenter work necessary themselves. school work it is only reasonable that some ex-

Logberg, Winnipeg's Icelandic organ, publishes a list of 45 names of Icelandic students registered at Wesley College. Of these four are in the fourth year; five in the third, eight in the second, eleven in the first, and seventeen in the preparatory department, nine in the second division and eight in the first.

Mrs. Julia Wyatt, famous in her day as an actress, and creator of the part of "Topsy" in the original "Uncle Tom's Cabin" company, is dead at her home in New Haven at the age of 87 years. She played the part for years. Included in the Wyatt Company in later years were her two daughters, Helen, now dead, and Mrs. Warren, now of Bridgeport. Her husband, George H. Wyatt, also an actor, died in 1855.

A manufacturing firm in New York, which has made it a practice to give turkeys and chickens to its employees on Thanksgiving Day for several years told the forewoman that on account of poor business and a backward season there would be "nothing doing" in the poultry line this year. The girls decided to show that they were not concerned because of the decision, which some of them thought was prompted more by the recollections of recent labor movements than hard times, made up a purse and sent to each of the two proprietors a big turkey with notes containing their Thanksgiving greetings.

Memory handed down through thirty generations is one of the perplexing facts of science. The beaver flourished along French rivers until killed off for its fur, but is known only in about a dozen of its villages on the Rhone near Avignon. For three centuries these villages have had no trees to cut for dams. The animals were compelled to adopt a new mode of life, and have burrowed in the banks, shaping mud with their tails as usual. Recently some of them were taken by a Polish count to forests on his estates. Very strangely, they resumed the habits dropped three centuries before they were born, and at once began cutting trees and building dams.

Dr. Neff, Philadelphia's director of health, is out with a circular warning the dangers of pneumonia passing out and is being replaced by the new, and telling how to prevent it. "Ventilation is the in every department of life. Radical industrial keynote to prevention from pneumonia, whether and social conditions have taken place, and an hand the most industrially efficient race the world in office, public building, sitting-room or bed- equally radical change in education will only room," says Dr. Neff. "Day and night pure suffice. air should be breathed. The old superstition that the breathing of night air is conducive to much a product of the changed social conditions, disease has been eliminated from the minds of and as much an effort to meet the needs of our nearly all by public education, with the exception new society, as are the changes in modes of indusof a few of our foreign population, who still be- try and commerce. lieve that some diseases are spread by the breathing of night air. As a matter of fact, the night fact that our schools are meeting the demands of of the deadliest enemies of the white man in West air is purer than the day air, as there is less black the professional class, only; a training of the Africa. The plan adopted is to bar the way motives and less dust in the air, owing to re- lected. duced street traffic; so windows should be opened Old England realized this fact twenty years ings, windows, skylights, ventilators and pasboth top and bottom in every sleeping room." ago. It is dawning on us. We are beginning sages with close copper gauze coverings.

Training Children's Hands

The following paper on the purpose and advantages of manual training as taught in the schools was prepared by the principal of the public schools of Dauphin, Manitoba, and is well worth pondering. This work of training the In order to have a new tabernacle big enough hand as well as the mind has already reached the to seat 5,000 people for union revival services to experimental stage in Dauphin, and is worthy of

As manual training has become a phase of our training so essential to the life-work of the latter?

GOD BLESS US EVERY ONE

"God bless us every one," prayed Tiny

Crippled, and dwarfed of body, yet so

Of soul, we tiptoe earth to look on him, High towering over all.

He loved the loveless world, nor dreamed, indeed,

That it, at best, could give to him, the while,

But pitying glances, when his only need Was but a cheery smile.

And thus he prayed, "God bless us every one!

Enfolding all the creeds within the span Of his child-heart; and so, despising

Was nearer saint than man.

I like to fancy God, in Paradise, Lifting a finger o'er the rhythmic swing

Of chiming harp and song, with eager

The Anthem stilled—the angels leaning

Above the golden walls-the morn-

ing sun Of Christmas bursting flower-like with the prayer,

"God bless us every one." -James Whitcomb P.ILEY.

Turned earthward, listening—

pression of our aims along this line should be given to the public.

The question naturally arises: Why introduce this at all? And the answer is that the old is daily

This modification in our school work is as

to see that the aim of the school is attained only where the curriculum makes provision for the trades, as well as the professions.

Is that unfair, seeing that ninety-five per cent. of our boys enter the trade life; whether it be on the farm, railroad, or in town? Is it fair that our public schools should aim to give the complete rudiments of an education to the five per cent., and deal out the same dose to the ninetyfive per cent., and at the same time neglect a

The lawyer's is a mental training, and our public schools make provision for it. But farming, railroading, mechanics and motherhood are something more; and yet they receive no instruction in agriculture, mechanics, or domestic science; no hand work to fit them for their duties.

If it is necessary to give the rudiments of the professional man's training in the public schools, it is also necessary to give the same to the tradesman. The hand must be trained to skilful work, and, like the mind, the training must begin in youth. Where are we going to reach the ninetyfive per cent.? Only in public schools.

Handiwork, or manual training, must first find its place in our programme of studies, the same as any other subject; whether it be in the rural, or urban school, it applies to all.

Now, do not let us get away with the idea that the manual training work is intended to produce finished workmen. As the public school gives the rudiments of professional training, so will it, in the future, give the rudiments of industrial training.

The aim is to make the children handy with tools, so that they may some day become good workmen. The collegiate and university will finish the professional man; the technical and industrial schools the tradesman. The ninetyfive per cent. will have equal chances with the five per cent.

There is another phase of this work which appeals to us very strongly, viz., the opportunity for character building; and in this connection I cannot do better than quote the words of Mr. Thos. Speed, pardon attorney to the governor of Missouri, who is quoted in the Western School

Journal, as saying : "About 75 per cent. of felons are untrained in any honest or useful trade; most criminals are thieves; men, for the most part, try to get a living dishonestly because they have not learned to get it honestly. They steal, who have not learned to work. An hour's hand work a day in every schoolroom in the land, running through all the grades from the kindergarten to and including the high school, would give every man, woman and child of the rising generation at least the rudiments of an honest, useful and profitable occupation, and would make of the next generation of Americans the most productive will agree with me when I say that for every dollar so expended two dollars will be saved in the lessened cost of crime."

A mosquito-proof steamer named the Thomas Holt has left the Mersey for West Africa. The In school life there is an awakening to the vessel is proof against the mosquito, which is one smoke belching from chimney stacks and loco- mind, while hand, which earns our bread, is neg- of the mosquito into all the living apartments on board by providing all doorways, side port openlives.



and said, How long halt ye between two opinions? If the Lord be God, follow to his Master.

Him: but if Baal, then follow him. And "Ah, if He were here! perhaps our cold the people answered him not a word.-1 Kings, xviii.: 21.

Of course, they could not answer Elijah. They knew that Jehovah was God, and yet they were drifting care-lessly along with the tide of public opinion, worshiping Baal, like the nations around them.

How is it with us? Are we quite convinced that right is right and wrong is wrong? Do we know that love and holiness are infinitely more precious than riches or fame or pleasure? Then let us see to it that we don't allow our daily life to be a flat contradiction to our convictions. If we believe in God, and then act as if public opinion were our God, or devote these valuable years to the pursuit of money as the one great good worth having, then we are halting between two opinions—serving God with our lips and false gods with our

Christ says that those who confess Him before men will be confessed by Him before His Father in heaven; but those who deny Him before men will be disowned by Him before His Father in heaven. These are words of solemn warning-how do they affect us? We can't help joining one party or the other. If-in our lives-we are not confessing Christ to be our Master, then we are certainly disowning Him. It is so easy to accuse St. Peter of disloyalty and cowardice because he denied any connection with the despised Nazarene. Are we always bold and decided in our loyalty to Him? Have we never laughed uncomfortably at a joke of which we really disapproved, just because we really disapproved, just because we afraid of being considered "overstand." Those who stand before God family prayer—that most wonderful men do not agree with them. bond of family love and unity—because of people who dare to come before God do.

HALTING BETWEEN TWO OPINIONS Christ? If we often play the coward And Elijah came unto all the people, ourselves, then we have no right to look down on another disciple for disloyalty

hearts

Would then be as nerveless as now; For the pestilent Pilates are ever the

E'er ready to falter, e'er shifting the blame, In fawning e'er ready to bow."

"If He were here!" Well, is He not here? He looks at us sometimes as He looked at that other disciple who denied Him, when by word or look or cowardly silence we pretend that we own allegiance only to the world. That loving look should always bring us back to our wronged Master. It is every Christian's business to witness for Christ wherever he may be, using the marvellous power of personal influence for Him, first at home, then in the neighborhood, reaching out steadily farther and farther by prayer, work and sympathetic fellowship unto the uttermost parts of the earth.

The shifting, undecided people, are always weak; the people who have strong convictions, and are not swayed by the opinion of everyone they meet, are strong. And, if they have ranged themselves on the side of God and righteousness, they can stand like Athanasius "against the world," and come out victorious. Elijah stood alone against 450 prophets of Baal, and he was easily able to conquer them, and to show the undecided people the folly of trusting in any God but the Lord. If he had been facing a million more, the result would have been the same. He was alone, and yet not alone-hear Are we ashamed to have and know it—need not feel troubled if

But those who are continually haltit is not considered quite "the thing"? ing between two opinions—half-hearted, to one who really loves God. Are we ashamed to kneel in prayer luke-warm disciples—do more harm to possible to serve God in cool weather, you are one of the most honest persons when we find ourselves in the company Christianity than any open infidel can and Baal (the world or self) in July and I ever met. do. A faith which evidently is only August. If the Lord be God, follow Landla half believed by those who profess it, Him—always. An old guide once dethat, sir. Do we stand up loyally for our faith must seem to outsiders a hollow sham scribed a pleasant surprise that he had Boarder: Yes; your honesty is conwhen it is attacked or slightingly men- and mockery—simply a fashionable with a fishing party of rich men. They spicuous on the very front of your estioned? Have we always the courage to pretence. Those who name the Name were very jolly, and told lots of funny tablishment. Your sign says, "Boarddeclare ourselves boldly on the side of Christ, should have that Name writ- stories, but there was not a swear-word ers taken in!

is not a hidden, but an open badge of service. Keble says:

"When soldiers take their sovereign's

And swear his own to be, The royal badge on forehead bold They show to young and old. Nor may we hide for fear or shame The persecuted Name,

Only with downcast eyes we go At thought of sin that God and angels know.'

still His invitation, "Do this in remembrance of Me," falls on deaf ears apparently. It must be that many who "call themselves Christians," are halting be-tween two opinions. They say they believe Christ's words, and then act as though they either disbelieved them, or did not care for His offered indwelling Presence.

This is a vital matter. Make up your mind one way or the other, and then act on your convictions. Do you believe the direct statement of our Lord Jesus Christ? He says, with the solemn preface of "Verily" verily, I say unto

"Except ye eat the flesh of the Son of man, and drink His blood, ye have no life in you. Whoso eateth My flesh and drinketh My blood, have eternal life; and I will raise him up at the last day. For My flesh is meat indeed, and My blood is drink indeed."—St. John vi.:

48-58.

Do you say "I believe!" and then act as if you did not believe? Then cerure the between two Until it's time to say 'Good-night!" tainly you are halting between two opinions, growing weaker the longer you hesitate.

Do you go away for a summer holiday and leave your religion, "like a bundle to be called for, in the family pew?" you are camping, but religion is not a luxury. It is a daily, hourly necessity It is not

ten plainly on their lives, so that all nor a doubtful joke. At bedtime, Mr. the world can take knowledge of them Crandall—a big banker or railroad man that they belong to Him. He seals—suggested to his son that he should His servants on their foreheads. It repeat a psalm. Then the whole party is not a hidden, but an open badge of said the Shepherd Psalm together. After a fortnight with these men, who were not ashamed of their religion, the guide expressed his opinion as follows: "They made me feel, somehow, that I'd like to have more religion myself. I take it that a good test of having religion is to make men who see you, want some like it.

Men of that stamp are respected by everybody, even by those who fancy they have no faith in "religious people." They may not gush about their feelings, Last Sunday I met a young English- or "talk religion" to every chance acman who had only been two weeks in quaintance. But if the subject should this country. He soon showed which come up naturally in the course of side he was on, turning up at the early conversation, no one can have a mocelebration of the Lord's Supper, kneelment's doubt as to which side they being in prayer, joining heartily in the long to. A man like that will resent service, expressing great surprise that a slighting word about Christ as he so few availed themselves of the priv- would resent a word against his mother ilege of meeting God in His own ap- or his wife. Such men are not halting pointed way. I could not explain to between two opinions, and they haven't him why Christians, who own their the least idea how they strengthen weakness, and really wish to become the weak faith of others. Elijah's bold strong, should refuse to hold out their stand for Jehovah had a tremendous hands for food when God's power is effect. The people at first "answered freely offered. Though Christ says: him not a word," but, before many 'He that eateth My flesh, and drinketh hours had passed, they fell on their My blood, dwelleth in Me, and I in faces, saying: "The Lord, He is the him," and we, who are so weak and God." Which side are you on? Do cowardly, need Divine strength in us, you know? Do all your neighbors DORA FARNCOMB. know? WILLIE'S PENCIL

"Most every day from nine till three, spend in school with Willie Lee He keeps me moving smooth and free O'er pad and pages steadily. And this is what we write:

Geography, dictation, Spelling, equation, Fractions, multiplication, Until we're worn out, quite.

But when at home the lamp is lit, Near grandma's easy chair we sit; While Willie gaily makes me flit Across the paper, filling it From end to end, and bit by bit,

With objects of delight: Giraffes, cats, Acrobats ; Fancy stars, Trains of cars, Trees, bouquets, Suns with rays,

-KATE HUDSON, in the Eagle.

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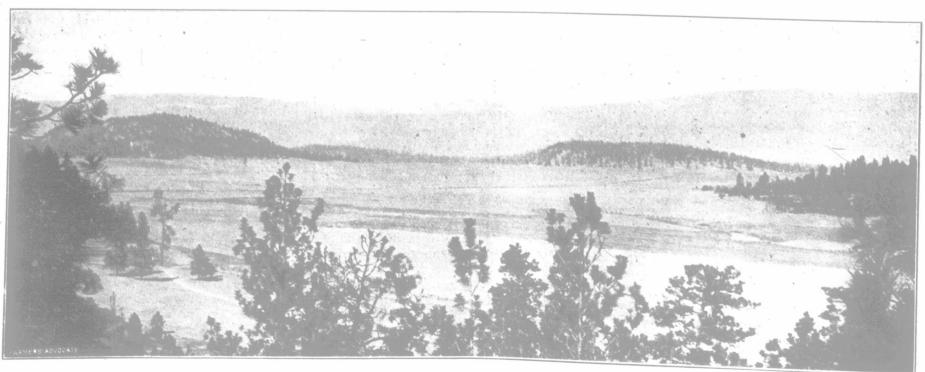
m:

The Visitor: Yes, my 'usband is very 'andy. 'E mended the cuckoo clock the other day, but it ain't quite You can do without many luxuries when right yet. It oos before it cucks! -Punch.

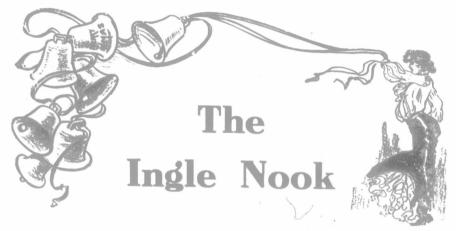
Boarder (on leaving): Madame,

Landlady

Your sign says, "Board-



Beautiful Scene in Okanagan Valley, B. C



GIVING AND RECEIVING HELP

► Dear Dame Durden,—I am coming to your most helpful of Nook's and self

and given me by an old lady friend of mine. I find it the best I have ever eaten and hope it will be of use to her and that she will write soon to our Nook. I enjoy her letters very much. I often think of "Heather Hills," I think it was, who in writing said something of her troubles and have wondered if the rough path is growing any easier. She can at least think of the dozens of Nook readers who sympathize with her, if that helps any. If In the Depths will send her address I will write to her. Has she no children? They are some bother, I'll admit, but O, the joy and comfort! I have to stay alone a great deal, which I never could do were it not for my little fellows.

Now, for the help:
1. I should like a Turkish Delight recipe.
2. To know what the newest belts

3. What to use in stenciling designs

on muslin curtains, and if it is fast. Suet Pudding.—One cup suet chopped fine, one cup raisins, one-half cup currants, one cup sour milk and one cup molasses or syrup, two level teaspoonfuls soda, any spices desired. Dredge suet, raisins and currants well with flour after mixing. Add other ingredients and stir until it foams. Add flour to form a stiff batter and steam one and a half hours. Serve with a

sauce or dip. Kind friend, forgive this lengthy letter, but you seem so near to me. am (as a pen-name).

NO-BEAUTY. (We are all glad to have a visit from

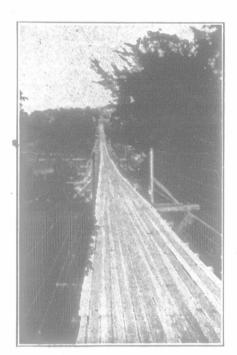
other trimming on the dress. The regular belting ribbon of a heavy corded quality, has stripes or spots or a paisley of some one or two of Mrs Howe's pattern in contrasting colors, while conclusions, but with the majority, inmany of the beltings show gold and cluding the last, they will fully agree. silver threads in their designs.

For stencilling wash goods use either the ordinary oil paints or else the dyes Editor Farmer's Advocate: that are used for dyeing clothes. The articles stencilled should not be boiled the columns of your valuable paper, when being laundered. Come again, what is the best and cheapest way of ened and closed, and come again.—D. D.)

TWELVE BENEFITS

last important published article on wo-wan suffrage, said: "The question of 2. What is the best way (and cheap-pipe, connecting this suffrage for women has passed out of est) to lath and plaster a frame house, the academic stage and has become a the inside walls of which are of tongued down into, the space bematter of practical observation and experience in an evergrowing number of and has been built for about twenty-states and countries. Experience has five years.—E. B. states and countries. Experience has five years.—E. B. shattered, like a house of cards, all the old predictions that it would destroy heating equipment provided it is more fresh air in-takes indithe home, subvert the foundations of difficult to install a ventilation system cated in the figure and both on womanly delicacy and on pub-he affairs. The fundamental argu-furnace could be installed specially pro-sleeping room or, if ment for women suffrage, of course, viding for the introduction of fresh air the heater below is

ly and with less labor. 4. It often desystem of ventilation in itself. tilation of houses already built, but feats bad candidates. 5. It broadens A good plan to remove air from a enough has been said to permit such



The Lovers' Promenade

ou, particularly the lonely and sad a more intelligent interest in public folk whom you have specially mention- affairs. 6. It makes elections and polit-I am sorry that I have no "depending ical meetings more orderly. 7. It makes it easier to secure liberal appropriations for educational and humani-The newest belts—well, there is a because they are not electors. 9. It great variety of them. Black patent increases the number of women chosen great variety of them. Black patent increases the number of women chosen leathers about three inches wide are to such offices as are already open to terially warm the room. very popular to wear with dark skirts them. 10. It raises the average of po-and improve its ventilaand shirtwaists, light or dark. For litical honesty among the voters. 11 dresses all of one material, cloth like It tends to modify a too exclusively the garment is used for the belt, or a commercial view of public affairs. 12. as indicated at E. In belt made of folds of silk to match any Last, but not least, it binds the family as indicated at E. In this case we have asmore closely together.

Not all suffragists will see the force

VENTILATING A DWELLING

Will you kindly inform me, through or, better still, a regisventilating a house in the winter? The house is heated by means of a small the attic, or, what would furnace, and a kitchen stove; also in be much better, extend Mrs. Julia Ward Howe, in almost her very cold weather a small box stove is up through the roof a

society and have a ruinous influence that will work satisfactorily than it is with the radiator as

into the dwelling and vents or outlets of some kind placed in the chimney or walls to take the foul air out. We presume you have a hot-air furnace, also that provision has not been made for its drawing a portion of its cold "air" heated with hot water by means of from the outside. Hot air furnaces are frequently installed in dwellings and the hot and cold air pipes so arranged that the cool air is drawn from the living rooms, heated in the furnace and kept revolving thus, with only such fresh air getting in as leaks through er for air to enter nor leave the room, the wall or passes through open doors dependence being wholly upon leakage or windows.

is its justice; and this would be enough the other is to ventilate somewhat after than the plan suggested for the second were there no other. But a powerful the system provided for horse and cattle floor in the illustration at C. Fresh argument can also be made for it from barns, having inlets for fresh air and air intakes should also be provided, the standpoint of expediency. It has vents properly located for the removal and if possible these should be so placed for some help, and to send a suet pud- the standpoint of expediency. It has vents properly located for the removal and if possible these should be so placed ding recipe which Lonesome One asked now been proved to demonstration, of the foul air from the house. A stove that the air may be admitted at the for so long ago.

This is taken from a cook book published by a Friends Society (Quaker) somewhere in the eastern United States, and given me by an old lady friend of the foundation, of the foundation, of the foundation of the f Mrs. Howe then enumerates twelve practical benefits of equal suffrage as not, ventilates excellently, a hot air currents of warm air rising from the follows: 1. It gives women a position of increased dignity and influence. 2. It air from without, heats it and disleads to improvements in the laws. 3. tributes it through pipes and registers and directly tempered. Of course very It enables women to bring their influence to bear on legislation more quick- for the air within, is a satisfactory the necessary provisions for the ven-

> women's minds, and leads them to take house, whether heated by furnace or adaptations as may be called for.
>
> stoves, is to have the stovepipe arranged Nail strips on the wall and lath and the hole in the heater, extending down an air space between the lining and to within a few inches of the floor and plaster and the house will be warmer to within a few inches of the floor and plaster and the house will be warmer provided with a damper as shown in the in winter and probably cooler in sumillustration. If a complete system for mer. If the house is not very warm the interchange of air through all the we would advise lining with building house is wanted this plan can be elaborated, especially may such a system be readily installed where the chimney extends upward from the hasement through the center of the basement through the center of the

> > may be cut in the siding as represented at A, between pairs of studding, covering them with one-eighth inch mesh of use. galvanized wire netting, and make Prot corresponding openings just under the ceiling at the same pair of studding, covering these with white enameled after the ground has frozen solid.
> >
> > 4 by 12 inch register faces. These Where snow is deep and lies all winter registers may be opened or closed as without melting it will usually be required, or those on the windy side sufficient protection for such hardy kept closed all the time in case too much outside air is forced in.

such a ventilation system is to modify the heater so that air may be removed as good a thing as can be used. It is from the floor level as already described.

If it is then found that an air change of If it is then found that an air change of time, when days are warm and nights sufficient rapidity takes place, this being made possible through unintenant and plants frozen till this changeable tional openings in the wall, the desired result has been attained and the intakes

I am beginning to think I did write I am sorry that I have no "dependable" recipe for Turkish Delight, but some of our girl readers will likely have some of our girl readers will likely have important positions now closed to them stovepipe passes. If so it is a simple I must write you a good long letter, matter to attach a radiator to the pipe and make up for long silence.

as indicated at E. In sumed that there is a partition and that the space between a pair of studding may be opened just above the baseboard and covered with a white enameled register face: ter which may be opthen open this space into with, or extending it

into the dwelling and vents or outlets large and the room above small and

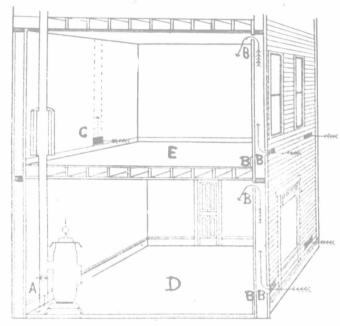
the wall or passes through open doors dependence being wholly upon leakage through the walls or upon the openings There are two general methods of of windows and doors. In houses thus ventilating farm houses. One is to heated some means should be adopted introduce and distribute the fresh air for drawing the air out of the rooms by means of the heating arrangement, at the floor level, even if nothing better tilation of houses already built, but

so that a section of it will extend below plaster on these. You will thus have

Dear Dame Durden,-Sorry I could Intakes, of course, have to be pro- not respond sooner to your request vided. To make such intakes openings for information re-protection of current for information re protection of currant bushes. I hope I am not too late to be

Protection may be given any time bushes as currants. Wheat straw piled The proper course to take in installing all around the bushes, deep and loose,

BRENDA E. Dow.



Ventilation System for an Ordinary Dwelling Already Built

A. Outlet flue connected with stove pipe and provided with damper. BB, Inlet for fresh air. B. Inlet at ceiling for fresh air. C. Outlet, from upper room, provided with a register to open or close, and opening into attic. D, Lower room. E, Bedoom heated from stove and ventilated by inlets BB, B and outlet C.



A CHANGE OF SUBJECT

Editor Boys' Club,—I hope we boys are not getting tired of writing to the club. I for one, make the excuse of being too busy to write oftener.

We have plenty of snow around here and by the looks of things we will have an extra supply this year, and we certainly need it. I have four steel traps this year but have not caught anything vet. Say, how do you boys bait your traps for muskrats, weasels, minks, badgers? Badgers and weasels are numerous around here this year, but muskrats and mink are scarce, because there is so very little water. I did not know anything about trapping until last year and it really is not very much I know about it yet.

Some boys in this district make an inverted L and put the one end through the ring of the trap and the bait on the other end, they then stick the trap end in the ground and set the trap under there will be gathered a great com- the animals through both arms of a the bait. Others peg their traps to the ground and put the bait under the snow and set their trap on top of the bait.

essay writing, for it gets a kind of tire-

have not answered them yet.

A SASKATCHEWAN COYOTE. and debates have not been given out in the club is that the editor wanted to be sure that the boys talked about what For the sheep-dog trials at Tring have moves slowly forward. The sheep beinterested them most and not about what interested the editor most. It

WHAT EDUCATION DOES THE FARMER NEED?

In the ADVOCATE for August 24th, this question is raised in the Boys' Club. Though by no means a boy, I have very strong opinions on this matter, which I regard as of the utmost importance to the future of our country.

really profitable. Whether stock raising, wheat growing, dairying, mixed farming, fruit fect tactics of the dogs when at their the pen, the dog played a highly in- lieve in killing song birds. My two older growing, or poultry raising, the farmer work. Frequently a dog under a year teresting part. He was at first crouch-brothers and two older sisters can skate, growing, or poultry raising, the faither and old gives an excellent display on the ing about ten feet away from the ani- but I am not able to skate. Yours sinscientific knowledge sufficient to raise show course, and he may not have in- mals, and his master stood with arms cerely. his business to the rank of a professionthat is if he is properly equipped to doubtedly do) a sense of what is remake all the money out of it that there

doubtedly do) a sense of what is remake all the money out of it that there

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doubtedly do) a sense of what is remake all the money out of it that there

doubtedly do) a sense of what is remake all the money out of it that there is in it.

teriology, botany, biology from a interpret contectly every varied note the sneep moved a little nearer the practical standpoint are all of the ut- and modification. And if he have pen and stopped, looking back at the most value. A sufficient knowledge of to work according to shouted com- dog. Again, "Come on a foot." entomology to understand his insect mands or movements of his master's the same performance was repeated friends and enemies and how to encour- hands and arms he must have a per- all around. When it had been repeated friends and enemies and how to encour-age or defeat them will often make all fect understanding of the code emeight times, and the sheep were at age or defeat them will often make all ployed. the difference between success and ployed. failure.

often save the life of a valuable animal, code he does not easily forget it. Some of the shepherds have very besides saving annually many dollars. "Some of my dogs have taught me," powerful and far-reaching voices, and Carpentering, blacksmithing and prac- once said a shepherd to me. "When command their dogs throughout by tical engine management are also in- I've got hold of dogs already broken shouting, to which, if the wind be dispensable. In fact, I might increase and found they answered a certain favorable, the dogs, as keen as can the list indefinitely, but I have, I think, whistle. I've stuck to that whistle, be to hear their orders, respond imthe list indefinitely, but I have, I think, whistle. Eve stuck to that whistle, said enough to show that a greater although maybe I've never used it berange of knowledge is called for in fore." The tricks of the sheep-dog farming than in most professions, and are manifold. Perhaps there is nothing the sooner it is raised to this rank the of its kind better to see than a test which the dogs, one on either side of the consists of marking a few sheep in a spirally work through the state of the sooner will good farming become gen-consists of marking a few sheep, in a animals, work them through the ob-eral. When this time does come the flock and setting the dog to separate stacles and eventually secure three in

wherewith to gull the public.

Furthermore, the uneducated man does not get one-tenth the pleasure out best sheep-dogs will be witnessed at of life that the educated man obtains, Tring. Each dog will be given three and he is a much less useful member of wild mountain sheep to bring to his society, though drudges will, I suppose, master from a point half a mile away, be always in demand.

Again, the uneducated farmer has cart. not a clear enough outlook to stand up from his position; but he must send sides, no matter how smart he may to his own methods by shouting, whistthink himself; he is jealous of his neightling, or waving his arms and stick. operation, the keynote of success, and sheep to a hillside on the left, then

SHEEP DOG TRIALS

NOT A SHOW DOG

From the fancier's viewpoint the sheep-dog as a rule is beneath consideration. Farming nowadays calls for some although it requires some patience, is ing as directed. In the same way the road is full of snow. thing more than hard work to make it not necessarily the protracted business final penning will be effected. At a herited (as many of the animals un-extended as far away on the other side, Geology, agricultural chemistry, bac- orders he must have a fine ear to shepherd also came forward a foot. botany, biology from a interpret correctly every varied note The sheep moved a little nearer the

A GREAT MEMORY

A knowledge of veterinary work will When a dog has once learned the

clever tactics and without undue extraordinary performance the selected animals are secured. in due course the flock is observed com- here!"

WHAT THEY DO

Something of the capabilities of our where they will be slipped from a The shepherd may not move for his rights. He is swindled on all his dog off and direct him according bor, and this deals a death blow to co- The dog will first have to drive his politically, he is the tool of every bring them through two sets of false smooth-spoken politician, who often fences, across a valley, through a narsways him both to his own detriment row opening in another false fence, and and to that of the country in which he by a circuitous route to a fourth false lives.

W. J. L. Hamilton. fence, which, having been negotiated fence, which, having been negotiated successfully, the sheep will be in a position close to the shepherd, who will In Lord Rothschild's Park at Tring, then be allowed to assist his dog to put pany of shepherds and flockmasters. Maltese cross constructed of hurdles, They will have come from the northern and to complete the test by securing d set their trap on top of the bait. fells and dales, the grassy plains of the sheep in a small pen. A wave of Would it not be good if the editor the west, the hills of Wales, and the the shepherd's arm, and off goes his would get up debates and contests in populous sheep country beyond the dog in a semicircle on the side indicated, Cheviots. Some of them will give finally bringing up close to his sheep, some writing about trapping all the evidence of astonishing lung power; which his sharp eyes have quickly destime?

the evidence of astonishing lung power; which his sharp eyes have quickly destime?

The sheep are nibbling unsus-I received a letter from John David- art of whistling. A few will carry pectingly, and just as they become son and one from Henry Veldhuis, but shepherd's crooks, and most of them aware of the dog's approach the will be experts in a silent language shepherd gives a shrill, slurred whistle, of signs made with the hands and the signal for the dog to lie down. The (The reason that subjects for essays this pastoral company will be, the have thrown up their heads and are to our school. We are going to have dogs which the men will bring with making away from the dog. A short, them will be the greater attraction, sharp whistle, and the dog rises and four miles from town, and we have a a fame wherever in Great Britain gin to run. A prolonged whistle, and had not a very good crop this year. sheep are moved about difficult coun- the dog drops again, only to get on his is your page and you can do what you try, and the dog, in his highest state feet a moment later when the sheep like with it. Hope we shall get the of mental development, takes compinion of others on this subject.—Ed.) mand of things as the real flockmaster. first false fence.

A WONDERFUL PERFORMANCE be to direct him with a series of whistled near twelve inches as could be, while the almost within the pen themselves.

TWO LANGUAGES eral. When this time does come the nock and setting the dog to separate uncludated farmer will be regarded by and pen the marked animals. The his educated neighbors as the quack latter, with a daub of some pigment on is now regarded by the M.D. but he their backs to distinguish them, are will not have the quack's chance of indicated by the shepherd, and, by

hustling, the dog will get them away amid a bewildering babel of shouts. from the main body and hold them up "Cerdd ffwrdd"—Get off!" and both while his master deals with the flock; dogs start together to circumvent their or he will keep the flock together while sheep. Perhaps the latter breaks away In on one side, and the other bursts forth, the wilder parts of the country a dog "Gorwedd lawr"; or they show signs is often sent out to collect and bring of stampeding on the other side, and in a flock so widely scattered over the out goes the same order in English, hillsides or the rolling downs that many "Lie down!" "Gyrr nhw ffwrdd"—of the sheep cannot be seen at all. Yet "Drive them on"; "Tyrd yma"—"Come And so this astonishing dising slowly forward — and not a sheep play of sheep-dog sagacity continues unmaking money, since he has nothing wherewith to gull the public London Daily Mail.

CLUB CHIPS

Jonannes Tatz says he wants to be a member of the club. He can do it by writing a letter about anything in which boys are interested. He says he is going to trap this winter.

Here's a good experiment to try on Christmas night when everybody wants to be amused. It must be prepared beforehand. Pour a pint of clear water over two or three leaves of red cabbage and let it stand for an hour, then pour the liquid off into a china pitcher or any pitcher not transparent. For the actual exhibition have four apparently empty glasses. Fill them from the pitcher and everyone will be surprised to see the liquid in one become a fine green, in another blue and in another vellow, while the fourth remains red. The secret is that though the glasses appeared empty only one really was. Of the others one had six drops of strong vinegar in the bottom, another six drops of a strong solution of baking soda, and another six drops of strong solution of alum. Try it.

NOT A VERY GOOD CROP Dear Editor,—This is my first letter to the club, and I would like to join it. go to Fairmount school. I am in the fifth grade. There are quite a lot going a Christmas tree this year. We live section and a quarter of land, but we Wishing your club a success

FRANK PROVEN. FOX TERRIER FUN

Dear Editor,-This is the first time I have written to your club, but I have read and enjoyed it. We had to kill a Fence after fence the dog will ne- horse this fall and one died. I have a His breed is often non- gotiate in this manner, getting his fox terrier pup that is about eight weeks descript, and, if it be pure, some es- sheep through the gaps either by stealth old and he will play with one cat and sential show-point is usually lacking, or, when they are standing close to the barks and teases the others. He will The show bench is not his place, for openings, by relying on his speed and sit down on his haunches and eat bread all his superfine intelligence and valua- suddenly dodging them through. Hav- from your hand. He bothered our ortance to the future of our country, able service. His show is the sheep- ing brought the sheep to the Maltese collie when he had a bone and got bitCompetition is increasing yearly, and dog trial, and there he may shine and cross the dog will crouch on one side ten in the cheek. I caught forty-seven Competition is increasing yearly, and very soon the ignorant farmer, who cannot adapt himself to changing conditions, since he cannot understand them, will find that he is losing money.

Competition is increasing yearly, and dog trial, and there he may some and cross the dog will crouch on one side ten in the cheek. I caught for them, while his master, advancing gophers last summer. On Arbor Day on the other side, will, with arms outstretched, gradually work them through the cross, the dog crouching or advance not been to school for a week, for the cross, the dog crouching or advance not been to school for a week, for the cross, the dog crouching or advance not been to school for a week, for the cross, the dog crouching or advance not been to school for a week, for the cross, the dog crouching or advance not been to school for a week, for the cross, the dog crouching or advance not been to school for a week, for the cross, the dog crouching or advance not been to school for a week, for the cross, the dog crouching or advance not been to school for a week, for the cross the dog will crouch on one side ten in the cheek. I caught in the cross the dog will crouch on one side ten in the cheek. I caught in the cross the dog will crouch on one side ten in the cheek. I caught in the cross the dog will crouch on one side ten in the cheek. I caught in the cross the dog will crouch on one side ten in the cheek. I caught in the cross the dog will crouch on one side ten in the cheek. I caught in the cross the dog will crouch on one side ten in the cheek. I caught in the ch

I do not agree with Defender of which one might be led to think from recent sheep-dog trial, when the sheep Nature. I have not a gun, but have watching the clan methods and per-were exceedingly chary of entering caught many gophers, but do not be-JOHN BLAIR, JR.



All Good Canadians Now.

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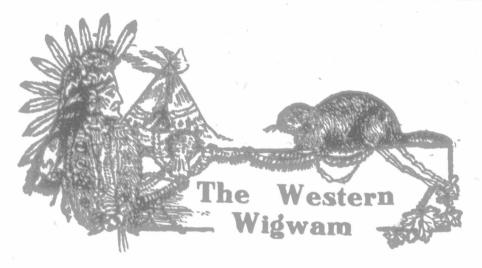
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A COYOTE FOR A PET

first letter to your club, and I hope that that I ride to church every Sunday; arithmetic, spelling, dictation, history, you will put it in print. I don't go to her name is Lady June. We have a writing and drawing. I go to school school as it is too cold. We had a yearly school, and I go all the time. every day.

Gertrude Beyer school as it is too cold. We had a yearly school, and I go all the time. little coyote for our pet. My brother I am in the fifth book, and my studies caught two and one got away and the are reading, arithmetic, geometry, agriother died. My birthday was the culture, grammar, history, dictation,

GONE DEER HUNTING

first letter to your club. I did not go wishing the club success. to school today because it was so cold, and I have one mile to go to school. I like to go, and I am in grade three. I go every day, and my sister goes, too. My papa has gone hunting deer, and my brother went to help him get a deer. My brother is going to get a deer, too. I like to play with the girls at school and with my little sister. I like to read the letters in THE FARMER'S Advocate. Now, I must close, sending love to the club.

LITTLE PEARL.

NEW ARRIVALS IN CANADA

Dear Cousin Dorothy :- I was reading some of the letters, and thought they were very nice, so I am writing one, too. We came from the state of Minnesota on the 25th of November. I went to school, but have not got started up here yet. We have a car coming up and papa is in town looking for it. There are six of us, and we are staying at my grandmother's till the car comes in.

A NEW COUSIN.

A NICE SEATMATE

have five sisters and two brothers. girl. I like the letters in The FARMER'S AD-VOCATE. I would like to have a button very much. I hope I will see this leter CURLY HEAD.

FIVE MILES FROM TOWN

first letter to the Western Wigwam. and have a very good teacher. My father has taken THE ADVOCATE quite a long time, and I always read brothers, my sister and I go to school. C. D.) I am in standard III., and I am ten years old. My studies are reading, writing, drawing, arithmetic, history, grammar, and geography, spelling, first letter to the Western Wigwam. are only about five miles from town. am inclosing a two-cent stamp for a every day I can, and am in grade IV. button. Wishing your club every suc- have three miles to go to school, and HAZEL MELICK. cess.

HOME ALL ALONE

Dear Cousin Dorothy :- I have been We live in Alberta, and have been here Lake Superior on a lake steamer, but some time, and I have been quite inter- 'Tis the Birthday of Him who died to twelve years. We like the country came home through the United States, ested in the club, so I have taken my tine. We came from the United States We were away almost two months, courage in my hands and am going to The world from sin and death. o Canada. My brother's and sisters

A COYOTE FOR A PET are all married now, and I am at home second year that I am going to school. Dear Cousin Dorothy:—This is my all alone. I have a lovely little pony My studies are reading, composition, are all married now, and I am at home

HOPEDALE QUEEN.

TWENTY-TWO AT SCHOOL

letters in the Advocate every week. I button. am ten years old and in grade four at

A VERY SHORT SECOND LETTER

Dear Cousin Dorothy: -This is my second letter to the Western Wigwam. I am seven years old, and this is the

FROM TIMBER COUNTRY

Dear Cousin Dorothy :- I am writing 28th of November. I was twelve spelling. We like our teacher fine; a letter to your club, and hope to see it years old. Dear Cousin Dorothy, I her name is Miss L—. I have been in print as this is my first attempt. I saw one of my friend's had a button. to quite a few skating parties this winWould you please send me one if I will send a two-cent stamp?

Selma Geisler.

We will just be a mile from town. My lonesome at first. I didn't like the papa is an auctioneer. I am sending wind, for I have not been used to it, as a two-cent stamp; would the editor I came from Parry Sound district Dear Cousin Dorothy:—This is my please send me a button? I will close in Ontario, and it is a great timber rest letter to your club. I did not go wishing the club success. in that district. My brother takes THE

escape the waste-paper basket. I have Dear Cousin Dorothy:—This is my sent a stamped and addressed envelope, first letter to your club, but I read the as I would like very much to get a

We live on a farm, ten miles from school. There are twenty-two chil- town and in the summer time I go for dren going to school. I have two the cows on horseback. Some nights sisters and one brother; his name is it takes me about two hours to find Harvey, and he is five years old. My them. I like riding fine. We had a sister's names are Marie and Marjorie, heavy snow storm yesterday, and there and mine is Ina. We have seven horses, is lots of snow on the ground. We did three calves and two colts, two dogs, not have much of a garden last summer, two cats and twenty pigs. My letter for a lot of the seeds never grew. I am is getting long, so I guess I will close very fond of flowers, and I have about for this time. I am sending two cents eight different sorts of window plants. for a button. INA WHALEY. I think I must close for my letter is getting long. PURPLE PANSY.

BACK ON THE FARM

Dear Cousin Dorothy,-I have not written to you for ever so long, When I last wrote I lived in Winnipeg, but now, thank goodness, I am on a farm again. I live on the wooded banks of the Red River, nine miles from Winnipeg, on the east side. There are magnificent trees around here. In the summer we often saw the boats, the Winnitoba and Alberta, go down to the lake.

The nearest school is three miles away, and we have stopped going since the cold weather came on. A new tworoomed school a mile from here will be open by New Year's.

The river froze over splendidly, and we had fine skating until this heavy snow fell. The ice will hardly bear horse yet to clear a large rink, so we have stopped for awhile. Where we live we cannot tell what the weather is like in the open, as we are surrounded and sheltered by the thick bush. suppose the other Wigs are full of Christmas plans. I am. We all are glad that sleighing has begun.

I am twelve years old and in grade eight, and take up arithmetic, literature, spelling, drawing, composition, British and Canadian history, geography, grammar and writing.

BOOKWORM.

CHRISTMAS

Christmas comes but once a year, Bringing every kind of cheer, Christmas trees and dolls and toys All beloved by girls and boys.

We hang our stockings up at night And dream of Santa Claus' sights, What must his work shop look like now. What smiles light up his cheery brow!

On Christmas morning when we wake, We rush downstairs our stockings to

take, And see what Santa Claus did bring. He's children's Christmas fairy king.

He comes with magic reindeer fleet, Far from that land of snow and sleet, Called the North Pole, and quickly comes To bring us children sugar plums.

And toys and every kind of gift, His pack I'm sure I couldn't lift When full of things for every child,

On Christmas Eve he goes to each house, And comes down each chimney as quiet as a mouse,

And fills up each stocking in half an eye-wink. You never find Santa Claus leaving a chink.

But perhaps the dinner is best of all, When we congregate in the dining hall, Such a feast was never spread, Since Thanksgiving came and fled

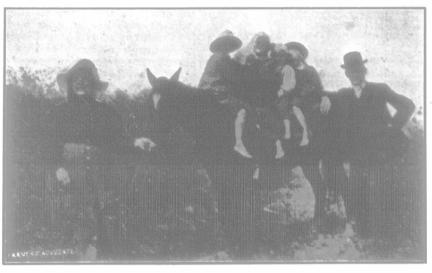
Then an afternoon of merry fun-Christmas Day is nearly done, We've presents given and presents got, Oh, Christmas Day will not soon be torgot.

We say good-bye to friends and guests, Who part with wishes the very best, And some very tired children go off to their beds.

With merry remembrances fresh in their heads.

save

BOOK WORM.



Canvassing for a School.

BAD NEWS

MARIE WHALEY.

we could hardly pull it. I am nine Dear Cousin Dorothy: This is my years old. I am in the second grade,

ORREN WILCOX.

A VISIT TO ONTARIO

Dear Cousin Dorothy: - This is my

my studies are arithmetic, spelling, Prosperous New Year. composition, reading and writing. My teacher's name is Miss C-

Last summer, my mother, sister and very interested reading the little Wig's I took a trip to Ontario. On our way Dear Cousin Dorothy:—My father But in the midst of all our fun letters in The Farmer's Advocate down we went over Lake Huron and has taken The Farmer's Advocate for We never should forget, NORMA SCHAFER.

ADVOCATE and likes it very much, and I Dear Cousin Dorothy:—This is my second letter to your club. I do not go to school every day. I like my teacher fine. Her name is Miss N—. The girl that I sit with is very nice; her name is P.—. I am nine years old. My birthday is the first of August. I have dead, so she went home. There is no school to school this country as yet. I always take my fabirthday is the first of August. I have dead, so she went home. There is no school this country as yet. I always take my fabirthday is the first of August. I have dead, so she went home. There is no vorite. Well, I am sending a two-cent of the club very much, and I was on I went to school for about two years, and like going, but we have no school in this country as yet. I always take my fabirthday is the first of August. I have dead, so she went home. There is no vorite. Well, I am sending a two-cent worlden. one pony. I milk one cow; her name school now till after New Year's Day. stamp for a button, so I think I will is Polly, and she is a very nice cow. I would like to correspond with any close for the first letter, but will write a longer one next time if I see this in HARD PULLING

Dear Editor:—I arrived from the ates to Canada. It is nice sleighing. He travels swiftly far and wide. in the paper. I am going to join the states to Canada. It is nice sleighing. velope? Ans.—One you lick with a We slide down the hill. We went after stick, and the other you stick with a a load of wood, and when we came up lick.

MARTHA JANE BATEMA.

FINE SLEIGH RIDING

Dear Wigs:—I am glad to say I received my button and think it is very (You are a little too young for Boy's nice. Well, I am in Saskatoon visiting the letters every week. We have six Club yet, as boys have to be twelve to I arrived here tonight. I was at a horses and one colt. I have got three join that, but it won't be long, and in brothers and one sister. My two the meantime you can be a good Wig.—

week, Van II arrived here tonight. I was at a horses and one sister. My two the meantime you can be a good Wig.—

when I arrived at the station I happened to look out of the window, and I saw a large ox hitched onto a little hand sleigh, with two little boys on the my sleigh. I suppose the Wigs are get-I ting ready for Christmas. We are gocomposition, dictation. Our teacher's read the letters every week, and they ing to have a Christmas tree in our name is Mr. K and he is a nice are very interesting. My father has school, and each scholar will have to teacher. I have only got to go to taken The FARMER'S ADVOCATE for two say a recitation. Last year we did school about a hundred yards. We years.

The school about a hundred yards. The school about a hundred yards are school about a hundred yards. The school about a hundred yards are school about a hundred yards. I am ten years old. I go to school being ill. Well, I will close now, glad to be in your club, and wishing you and the Wigs a Happy Christmas and A VIOLET LYTZ.

FOND OF FLOWERS

write a few lines, which I hope will

It Pays To Buy Blue Ribbon Goods





When you buy Blue Ribbon Tea, Blue Ribbon Baking Powder or Blue Ribbon Coffee you find their prices are no higher, yet they are guaranteed superior to all others. If you buy any article bearing this trade mark your money will be refunded if you are not



A Money Saving Offer Is This



T. EATON CSIMITED CANADA

ounce, pure wool, imported English black Melton. This material wears like iron, and is guaranteed to retain its color under all condi-The body is lined tions. with a heavy pure wool, fancy, twilled Italian cloth that will wear as long as the coat itself. The sleeve lining is of durable silk mohair.

The coat is made of 28-

The workmanship on the coat is strictly in keeping with the materials that enter into its construction; found on much high-priced custom-made clothing that would cost more than double what we are asking. The collar is made of superior quality silk velvet, and is sewn on by hand. The lapels are felled by hand, and are finished with no stitching on the edge in exactly the same style as the very highest grades of ordered clothing; and the buttonholes, too, are all handmade.

The materials used in this coat were all bought in a very special way, with the intention of selling a thoroughly high-grade coat at a popular price, and it sold well.

We had, however, an opportunity to purchase a few hundred of an overrun from our own workrooms at a price that enables us to sell our regular \$18.00 coat at almost a

OUR VERY SPECIAL PRICE IS . \$10.45 Made in all 36 to 44 inches chest mea-Order early, as our stock

How the Fates Lead the Blind

(Continued from last week)

Everything might have gone on well Eleanor knew all that he was thinking but for a letter which came from his old A cold shiver ran down his back at the partner in the mountains. He had thought. What a cad she would construck it rich again and would be on sider him if she knew that he thought of

It amounted to nothing but an idle dream till a few days before Christmas, when the thought crossed his mind that as he was one of the bachelors of veterate poker player with a tendency to drink a little more than was good for him on special occasions, he might copper mine without seriously injuring him, as he was an older man, well established in a lucrative business. It hurt his conscience or pride or honor, or something or another inside, to think of doing such a thing as that, yet he their carriage was roll argued with himself that as he would ment, he said to her: not cheat it was Gardner's own lookout if he drank too much, and besides what could that amount of money mean to Gardner, especially if it was won in a fair game. The temptation got the You are wrong. Neither of those better of him so far that he wrote his partner that he would let him know nothing more: You are contemplating partner that he would let him know funds for opening the mine.

How odd that Eleanor should ask him to help her with a Christmas tree entertainment which she was to give to her class at the college settlement on Christmas eve? She had never before asked a favor of him since he had known her. "Why, yes, certainly!" he had answered. "It will be no end of a jolly diversion, but" - at the but a startled look had come into her eyes, which gave him a start quite as realistic as it would if she had pricked him with a needle. Had she after all some occult way of knowing just what was passing in his mind? Did she know that he was planning to beat Gardner out of a nice little amount of money while he was a little the worse for liquor, but too proud to acknowledge it or to account for his he asked, when they were inside, under loss on that score! The objection got to assure her that no other way of spending Christmas eve could possibly afford him greater pleasure. When he had left her he began to upbraid himself What could for an imaginative fool. Eleanor know about his schemes? Then it occurred to him that she had said that she did not believe in keeping her youngsters up late; that the entertainment would begin early and end promptly. He would probably be able to get to the club in time for dinner or for the game after dinner, if he missed

with Eleanor, and with his affable, easy he was gone without a word. manner was soon a favorite among the children, and he was so efficient in the to the upper floor. How long she sat the Christmas tree and its accessories that Eleanor wondered what she could have done without him; but it was as received he added fun enough to make up for many a funless day; but the enhoped that it would. When it was over had won. he must see Eleanor home safely, and distances in Chicago are great. There was danger of his being too late at the when he connecte the parting of the ways. couldn't get it out of his mind that of the home she would make for Weldon.

the royal road to sudden wealth if he playing Gardner for the money he could raise the capital to work the new wanted while Gardner was drunk. Of mine, but it would take more money course she would not consider the fact than they had required for their first that he did not intend to win enough attempt, as in this case an expensive to in any way inconvenience Gardner, road would need to be built for hauling and that he intended to get into a friendthe ore down the mountain to the ly game with him after the mine got smelter, or they would be compelled to under way and let him win it back. build their own smelter. It was copper this time instead of gold. An older and there was one thing he despised above wiser man would have dropped the another it was just that. Then he matter out of mind at once, but Weldon's jerked himself together and told himself imagination kept playing with the possibility of a short cut to wealth, without going through the long, tiresome process mapped out by his father.

Jerked minisent together and told himself what kind of a fool he was to believe such stuff. How was it possible that Eleanor should know anything about it. He had himself somewhat re-assured by the time the children were taking their leave. As he came near to Eleanor she was saying good-night to a crippled boy, who clung to her longer than the rest his club who had planned a stag dinner for Christmas eve, and that as Gardner dropped into his fluffy yellow hair. There was no imagination about that. He saw it as plainly as he ever saw any thing, and he knew that while she would do what she could to help him she was win enough from Gardner to start the not the sort that would shed tears over a child's misfortunes, and when Weldon spoke to her there was an evident unsteadiness in her voice which she struggled to control.

When the last child was gone and their carriage was rolling along the pave-

Eleanor, one of two things must be true, either you read my mind like an open book or I am the most imaginative, superstitious fool alive.

within a week what could be done in something rash again, and of all your the matter of raising the necessary fits of rashness this is the worst I have fits of rashness this is the worst I have ever seen you in; but just what you intend to do I have no more idea than one of the horses hitched to this car-

"I would give my head to know how

you know that much."
"It isn't what I know. It's what I feel, and somehow when anything is going wrong with you I feel it more quickly than when you are happy and cheerful.

A long silence fell over them which lasted till the carriage stopped before her door. As they started up the broad stone steps which raised the main floor of the house above the street she trembled as though from great fatigue. He put his arm about her and almost

the night lamp. played out like this before.'

"I feel as though I had been running a race against a horse and had to run fast enough to win or lose my life," and she looked up into his face and smiled. When their eyes met he read the secret which she had successfully concealed from him and from everyone else ever since the evening when she first met him at the first Bata social function of their freshman year at the university. A flood of emotion swept over him, and brought the first tears to his eyes that had moistened them since he was a child. He held her close till it passed, He was punctual in his appointment and then leaving a kiss on her forehead

She sank down upon the stairs leading assistance he rendered in manipulating there she did not know, for a mighty song of triumph was ringing in her ears. From the first time their eyes met she Santa Claus that he most distinguished had known that two men of mighty himself. To the gifts which the children strength struggled within him for the mastery, and she had resolved that the tertainment lasted longer than he had brave and good man should win, and he

club to have any chance to win enough when he came to the parting of the ways. to open the new mine. Though he A great peace had come to her, for a imagined that he concealed it thoroughhe haven to be previous and shortly. ly he began to be nervous, and shortly afterward began to belabor himself inwardly for a superstitious fool; for he Already visions were floating before her

calv July

held the The whic being of da tion the s

gram

GOSSIP

ERRORS IN PRIZE LIST

A letter from the secretary of Saskatchewan live-stock associations states that slight inaccuracies crept into the prize list of the Saskatchewan Provincial Winter Fair, which will be held at Regina, March 20 to 24, 1911. The inaccuracies all relate to the cattle classes. In section 4, in classes, 9, 10 and 11, "spayed heifer, calved previous to 1908," should read "spayed heifer calved previous to July 1st, 1907." In class 13, section 3, "steer, calved previous to July 1st, 1910," should read "steer, calved between July 1st, 1909, and July 1st, 1910." In view of the fact that several thousands of prize lists have been distributed, it is not possible to give publicity to these corrections in any other way than through the press.

DO YOU RECEIVE THE FARM-ER'S ADVOCATE AND HOME JOURNAL REGU-LARLY?

From time to time subscribers write us stating that they do not receive THE FARMER'S ADVOCATE regularly.

In nearly every instance we find this due to the subscriber's address having been changed and no notification sent us. When the copies are sent to the former address from our office and then re-mailed by the postmaster it is almost certain that some will go astray.

Now, we are just as anxious as our readers to have everyone receive every copy, and if you miss receiving one we would appreciate it if you notify us promptly so that we may rectify any error in addressing.

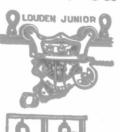
In notifying us as to a change of address please give both the name of the postoffice to which we are at present mailing our publication and the new address so that we may be able to make immediate alterations.

the excellence of the programmes. addition of a women's department, prevous records seem likely to be completely

Every person a vous records seem likely to be completely retired. W. A. Wilson, superintendent of dairying, is also arranging a conven- Buy a one-way ticket, and (2) obtain last season, a decrease of 21,759 head. tion for Saskatchewan dairymen on a standard certificate from the agent Shipments of United States cattle via the same dates as the agricultural so- when purchasing ticket. F. Hedley Montreal amounted to only 179 head, of the breeding of plants and animals. cieties' convention.

grammes is such that they will conflict tion to any person interested.

Free Catalogue of Prize Winners -



OUDEN'S goods again indicate their superi-

UTCLASSING all competitors. According to the best judges

NIFORM excellence won us three medals, all highest awards, at Halifax, N. S.; St. John, N B., and The Royal Cornwall Show, England. ON'T think there was no competition.

VERY medal was awarded in open competi-

OTHING but the best goods properly dis-played could win these medals. This our

tion with our strongest opponents.

The superiority they show in the show ring is equally in evidence in actual operation. Our free catalogue is full of information on Hay Tools for Barn or Field use, Litter Carriers, Steel Stalls and Stanchions, Barn Door Hangers, Pumps, etc., etc. BE SURE YOU WRITE FOR IT TO-DAY.

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with each other but slightly. The dairymen will hold their sessions at tend. The night sessions designed for total for any previous six-months period. the entertainment of the joint conven- A striking feature of this trade is

DAIRY CONVENTION ALSO

One of the praiseworthy features of the according to the praiseworthy features of the praiseworthy features o The programme of the convention, Persons travelling by two railway lines creased. which will be held at Regina, January to the convention will buy a ticket to 31 to February 3, gives promise of the nearest junction point and another being up to the high standard set at pre- from that point to Regina, in each vious conventions. In fact, with the case taking a standard certificate from in Canada's export cattle trade for the tion have very accommodatingly turned

person attending the convention should observe two points: (1) The arrangement of the three pro- will be glad to supply further informaINCREASE OF FLOUR EXPORT

A recent issue of the Trade and Comtimes when agricultural societies' dele- merce Report says that the milling of gates are discussing matters relating Canadian wheat in Canada for the exparticularly to their own work. The port trade is rapidly increasing. The main sessions of the women's depart- exports of Canadian ground flour show ment will be held during the after- a continuous and rapid expansion. ment will be held during the arter- a continuous and rapid expansion, noons. Agricultural societies' representatives will hold sessions for the September, 1908, 1909 and 1910, the discussion of agricultural societies' values of Canadian flour exported were affairs during the forenoons, and on respectively, \$2,520,655, \$4,414,332. Thursday afternoon, and the other and \$5,606,485. The last two periods the second with shows a greater export than in 1907. afternoon sessions will be arranged with show a greater export than in 1907, a view to making them both interesting the total in that year being \$4,285,634, and instructive for the farmers who at- an amount which greatly exceeded the

tions will consist of illustrated addresses, the growing popularity of Canadian interspersed with vocal and instru-flour in the British West Indies. After mental music. In a few days a copy of some years of uncertain fluctuations, the programmes will appear in these this trade now appears to be on a sure basis. For three years the increase Convention rates on the certificate has been steady, though not great, but plan will be in force from all stations for the first six months of the current in the West. That is, every person who fiscal year it totals \$888,539 as com-

the agricultural societies' conventions, convention, this certificate, when count-business may be expected during the held in Regina during recent years, was ersigned at Regina by F. Hedley Auld, ensuing year when the aggregate capacity will entitle the bearer to a free return. of Canadian mills will be largely in-

EXPORT OF CANADIAN CATTLE

Considerable decrease was shown season, which closed on Saturday. over to the use of the association as The total exports for the season were hall in which to hold its general meet-Auld, College of Agriculture, Saskatoon, as against 7,227 last year, due to high will be glad to supply further informaprices at Chicago for export stock. A very interesting program is being pre-The large decrease is partly accounted tion shortly.

for by the fact that United States exporters had to come to Canada to secure cattle to fill their contracts at Unite States ports, which sent large numbers of Canadian cattle abroad by United States ports.—Canadian Journal of Commerce.

FARM NEWS

A creamery company has been organized at Elkhorn, Man., The directors appointed are: President, A. Swan; vice-president, Geo. Lidster; secretary-treasurer, C. W. Crosby. It is the intention of the company to at once apply for a charter, sell stock and select a site for the creamery, the plant to be in operation next season.

Kimball, Alberta, claims a record yield for fall wheat. From 271 acres measured on the field of R. A. Pilling, there was a yield of 1,423 bushels of Alberta Red wheat.

A farmer, not far from High River, is said to have cleared about \$1,500 on hogs this year.

SPECIAL RENEWAL OFFER

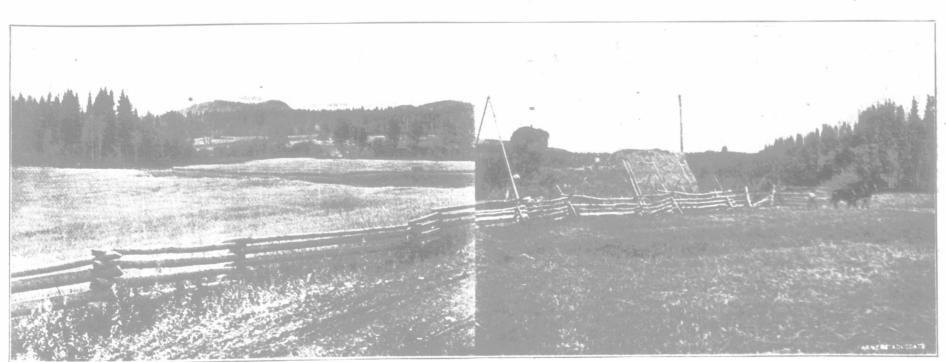
We want you to take advantage of the following offer. By so doing you will not only effect a saving for yourself but also enable us to give you even better value in The Farmer's Advocate, in 1911.

Send us your renewal and one NEW subscription and we will accept \$2.00 as payment for both for one full year. We will also send a copy of our Christmas number free to the new subscriber.

Tell your neighbor what the paper means to you; you'll obtain his subscription without trouble. Remember no matter when your subscription expires we will credit you with one full year and send The Farmer's Advocate for one year to the new subscriber for \$2.00. This offer is open to January 31, 1911.

Salmon Arm blacksmiths have raised the prices for horseshoeing, to take effect as follows: New shoes, single, 65c.; all round, \$2.50; setting shoes, single, 35c.; all round, \$1.25.

A notice from the secretary, Hon. W. M. Hays, announces that the next meeting of the American Breeders' Association will be held at Columbus, Ohio, February 1, 2 and 3, 1911. The officers of the National Corn Exposiover to the use of the association a 72,555 head, as compared with 94,314 ings; also a lecture room in which it is planned to daily hold a series of il-lustrated lectures on various phases



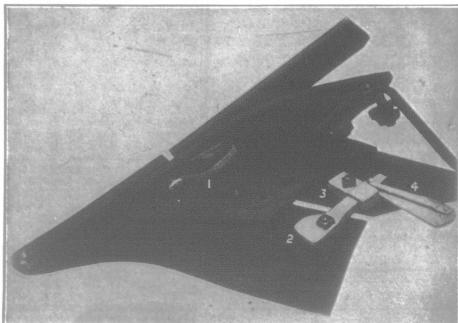
Oat Cutting and Hay Stacking in Bulkley Valley, B. C.

Photo by Courtesy G.T.P

Plow-Share Fastener

THE PARKS-COUGHLIN PLOW-SHARE FASTENER (Patented)

ELIMINATES PLOW-SHARE TROUBLES



1, Spring Bolt; 2, Coupler; 3, Lock Bar; 4, Wedge Key IT SAVES YOUR TIME. IT SAVES YOUR MONEY.

The expense for fastener is the first cost. The expense for bolts is continuous, with all the extra troubles thrown in.

It has stood every test in every soil The Wedge Key draws the share on, and holds it on—in spite of rocks, stumps and gumbo—until you release it.

Change shares in forty seconds. Your boy can do it.

Simply lift the plow out of the ground, loosen the wedge key by tapping it at the point with your wrench, remove it, unsnap the spring bolt and lift the share off. Place the new share in position, secure the spring bolt, insert the wedge key, and drive it in with your wrench. Easy? Well, yes. No burrs to loosen, or bolts to remove.

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Brandon MARCH 11, 13, 14, 15, 16, 17, 1911

\$7,000.00 IN PREMIUMS \$7,000.00

HORSES, CATTLE, SHEEP, SWINE, POULTRY and GRAIN

Annual Meetings of Manitoba Live Stock Associations
Lectures and Demonstrations by Eminent Experts. Judging Competitions

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PRIZE LIST WILL BE READY FOR DISTRIBUTION JAN. 10th ANDREW GRAHAM, Pomeroy, Vice-President W. I. SMALE, Brandon, Secretary J. D. McGREGOR. Brandon, President

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FREE UPON REQUEST

FARMER'S ADVOCATE AND HOME JOURNAL WINNIPEG, MAN.

WORK ON LACOMBE EXPERI-MENTAL FARM

(Continued from page 1854)

TWO-ROWED BARLEY

farm, two-rowed varieties of barley have Mensury, packed 114 outyielded the six-rowed. Among the Mensury, unp'k'd 119 3690 varieties which we are recommending are Invincible and Standwell. The factory this year. The following are objections raised to the two-rowed var- the first seven varieties in the list of ieties are, first, that they are more in- four clined to lodge, and, second, that as a rule they require a greater length of time to mature. The highest yielding 2 variety was this year Swedish Chevalier, with 85 bushels per acre, and the lowest, Beaver, with 44 bushels 18 pounds per

Experiments with both six-rowed and two-rowed barley with different creasing the quantity of seed from one sorts bushel up to three bushels per acre with both two-rowed and six-rowed barley we did not reach that point where the yields began to decline, except in the case of the Invincible barley where two and one-half bushels of seed gave a yield of 81 bushels, 12 pounds, while three bushels made 80 bushels. 30 pounds. Mensury barley sown at the rate of two bushels of seed per acre gave a yield of 83 bushels, 6 pounds, while one bushel more of seed increased the yield by 5 bushels, 30 pounds.

These same two varieties of barley represented the two and six-rowed types in the dates of sowing test. Seeding was made on March 31st, continuing at intervals of one week up to May 12th. Owing, no doubt to the late rains following hard on the dry weather, which promoted a large root development, the late-sown barley gave phenominal yields. The plot of Invincible sown May 12th yielded at the rate of 85 bushels per acre, while Mensury, sown on the same date, yielded at the rate of 103 bushels, 36 pounds per acre. Speaking generally, the order in which spring grains should be sown, judging from the average of our results, is: Wheat, barley and oats seedings of wheat to commence as early as the land is in con-

SOIL PACKING

The differences are quite sufficient to Ashleaf Kidney and Rochester Rose.

Yield in Days Weight 1910 straw bus. lbs. Chelsea, packed 141 5898 Chelsea, unp'k'd 135 4785 50 15 Banner, packed 123 4890 For the first time in the history of this Banner, unp'k'd 123 4110 131 16 5130

PEAS SATISFACTORY The yield of peas has been quite satis-

urteen testeu.	Yield in 1910	
	bus. lbs.	
Prussian Blue	43	
MacKay	38	
Early Harvest	37 11	
Chancellor	37	
Prince	36 30	
Picton	35	
Arthur	$33 22\frac{1}{2}$	
CORN VARIETIES	TESTED	

Eleven varieties of corn were tested quantities of seed and different dates this year. None of these came to full of sowing have been carried on this maturity, but made sufficient growth year, and the results with barley in- to provide a large amount of fodder dicate that the heavier seeding increased per acre. The weights given below are the yield and reduced the length of time for the total green crop on the date of necessary to mature, as was the case cutting, September 9th. Following is with the wheat and oats. Though in- the standing and yield of the first six

90	1 03.		
		Yield	in 1910
		tons	lbs.
1.	Longfellow	21	1327
2.	White-Capped Yel-		
	low Dent		938
3.	Golden Dent	17	1196
4.	Selected Learning	17	848
	Angel of Midnight .		
6.	Northwestern Dent	16	1686
	ROOTS YIELDED	WELL	
	0 1 1 1		3 /

Owing to the dry spring seed of mangels and sugar beets did not germinate very well. The yield of turnips is good. Hall's Westbury turnip stands first with 31 tons, 1096 lbs. per acre. Of the twelve varieties tested Hall's Westbury, Rennie's Prize, Mammoth Clyde, Jumbo, Hartley's Bronze and Derby Bronze Top occupy the first six places in the order named.

Comparison in the varieties of mangels is scarcely fair, on account of lack of uniformity in germination of seed. Half Sugar White, with 12 tons, 948

lbs., stands first. The Improved Short White leads the list of five varieties of carrots, with 6 tons, 804 lbs.

Of three varieties of sugar beets French Very Rich, yielded 6 tons, 728 lbs. per acre, while Vilmorin's Improved showed the highest sugar content, with

POTATOES ALSO TESTED

The land on which the soil packing Twenty-seven varieties of potatoes tests was conducted this year was were tested, of which the three leading plowed out of timothy sod in the sum-varieties are Table Talk, 577 bushels. mer of 1909. The packer followed the 37 lbs., with 85 per cent. marketable plow immediately and the land was Holborn's Abundance, 534 bushels, 36 disced and thoroughly fall-worked lbs., with 90 per cent. marketable; Simply the use of the packer after the British Queer, 524 bushels, 42 lbs., drill is responsible for the increased with 85 per cent. marketable. Other yields shown in the following table good varieties are Country Gentleman,

warrant the use of the packer, particularly when it is remembered that all obtained from the use of various comthe land was packed in 1909, and judg- binations of fertilizer with potatoes:

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	Per	Cost of	Yie	ld	Value min fertilizer w at 50c	hen valued
M	acre	fertilizer	bus.		per bus.	
Nitrate of Soda		\$7.72	477	24	\$213.78	\$142.11
Acid phosphate	400	8.24				
Muriate of Potash	250	9.02				
Acid Phosphate		8.24	501	36		159.60
Nitrate of Soda	200	7.72				
Muriate of Potash	250	9°.02	484		225.74	152.14
Acid phosphate	400	8.24				102.11
Muriate of Potash	250	9.02	371	48	169.16	113.38
Nitrate of Soda	200	7.72				110.00
Sulphate of Potash	250	9.27	536	48	259.13	178.61
Muriate of Potash	250	9.02	402	36	192.28	131.88
Check Plot			330		165.00	115.00

ing from our experience the use of the packer on fall plowing by conserving

type of packer).

GRASSES AND CLOVERS

Western Rye grass and timothy have soil moisture will bring about as great given the largest yields among the an increase as is shown here by the use grasses, while alfalfa continues to do of this implement following the grain well. Turkestan alfalfa yielded this drill. In 1909, the use of the packer, year two tons, and Russian alfalfa 2 as compared with land where it was not tons, 256 lbs. per acre. Letters were used at all increased the yield 11.9 per written in June to one hundred and cent., and in 1908, by 23.25 per cent. fifty farmers living north of Calgary, The use of the packer is advised to whom inoculated soil was sent in immediately after the breaker, the plow 1909, inquiring as to their success with (whether fall or spring), and after the alfalfa. Of all these reporting, only one reports a failure. We feel fairly (The make referred to is the surface safe in saying that alfalfa will succeed whenever intelligently handled.



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It Depends Upon The Kind

The average life of the common "peddler's" type of cream separator is one year; many of them barely hold out for three months; others for six; but this gives the "peddleg" plenty of time to get his money before the buyer discovers his mistake

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ARE GUARANTEED FOREVER, and thousands of them, sold ten years ago, are giving perfect service to-day. Tubulars are built day. Tubulars are built right, by a manufacturer whoknowshow; who has had thirty years' experi-ence. That's why they last.

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Large English Berkshire We are offering a choice lot of youngsters, two months old, at \$10. Pairs and trios supplied not akin. We have a number of older ones to dispose of (ready to breed) at \$20.

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Rugby Stock Farm FORREST - - - MAN.

SPEAR GRASS

1. Mare, weighing about 1,000, six years old, is in good flesh and spirited. Bred her three times, but don't think distemper about six weeks ago. Had a on top (as long as it is bubbling up and she is in foal. Stallion owner said her womb was closed up; called it a "dead

better; then gathered and broke again. Experienced cattlemen told me it was not lump jaw, but caused by Ans.—Horses sometimes suffer from Spear graces and would be all rights. And a day, and oat straw, and seems to be a bage and then let stand in this condition about 2 hours. The air draws the bitterness out of the cabbage. Then apply the Land Department of the let stand in this condition about 2 hours. The air draws the bitterness out of the cabbage. Then air or the cabbage and the let stand in this condition about 2 hours. The air draws the bitterness out of the cabbage. Then air or the cabbage and then let stand in this condition about 2 hours. The air draws the bitterness out of the cabbage. Then air or the cabbage and the bitterness out of the cabbage. Then are the bitterness out of the cabbage and the bitterness out of the cabbage. Then air or the cabbage are the bitterness out of the cabbage. Then are the bitterness out of the cabbage and the bitterness out of the cabbage. Then are the bitterness out of the cabbage are the bitterness out of the cabbage. Then are the bitterness out of the cabbage are the bitterness out of the cabbage. spear grass, and would be all right. a chronic discharge from the nostrils, What can I do to heal it up? Cow is after an attack of distemper. Treat-

womb is common in mares, and is a tablespoonful of the following mix-sometimes easily remedied by dialatature in his feed three times a day: sultion with the fingers. This should be phate of iron, one and a half ounces; done just before the mare is served by sulphate of copper, one and a half the horse. The hand smeared with ounces; pulverized gentian, four ounces, vaseline, with the fingers drawn in the and common salt, six ounces. form of a cone, is passed into the passage until the neck of the womb is felt.

picked out.

ENLARGED JOINT

How can I remove the lump, as the three days. colt is a valuable one?—B. R. W.

Ans.—Wounds of any size over a joint usually leave a thickening of the tissues. This thickening is absorbed **QUESTIONS** to a greater or less extent through Your colt only being recently injured would advise leaving the enlargement alone for a short time, when, if it does not show signs of diminishing

ally she chokes, which causes her to necessari required cough. Appears worse under excite-necessari ment or when cold, as she breathes normally when in a warm room or by a stove. Is she liable to transmit any disease to stock, and is she all right for breeding purposes?—X. Z.

Ans.—Your dog is suffering from to transmit the disease to her young, but frequently bitches suffering from asthma will not breed. She should be kept in a warm, dry place, well ventilated; should not be fed bulky foods, nor allowed to become fat. You may administer medicinal vapors by putting a teaspoonful of turpentine in a quart of boiling water and hold it so the animal will inhale the steam. If the cough becomes severe, give half a teaspoonful of the syrup of tolu and heroin compound every three or four hours.

SCOURS IN MARE

I have a mare four years old, and her passage seems to keep too soft all the in poor condition, although she has life enough. What shall I give her? What is best to build up heavy horses that are run down from too much hard a clean flour sack, put oaken boards on a clean flour sack, put oaken boards on

lump between his jawbones, and, after making more foam, it is not done ferpoulticing it with ground flaxseed, womb." Is it possible to get her in broke open, and healed up in good foal, and, if so, how?

| broke open, and healed up in good shape, but still has a whitish discharge 2. Cow, three years old, last spring had bunch come on jaw, which broke and discharged pus. Seemed to get better: then gathered and broke again. shape, but still has a whitish discharge

in good flesh, and gave a good flow of ment consists of the following: Fremilk all summer.—H. A. C. quent inhalations of steam to the nos- for use. Ans.—1. Closure of the neck of the trils, feed the horse from the floor, give

RINGBONE TREATMENT

have passed through the constricted you recommend me to use ?-S. J. A cook or fry.

neck into the womb. This should be Ans.—There is no certainty as to the done with a gentle, rotatory motion, cure of ringbone, as the cure depends and no force used. There are patent upon the extent of the disease and the dilators and impregnators on the mar-structures involved. Firing and blisterket for breeding such mares.

2. Spear grass often causes a wound such as you describe. A wound of such not advise you to fire this horse yourlong standing is not likely to heal self. Only a qualified veterinary surwithout surgical metlock being used, as geon is competent to perform such the old abscess walls and dead tissue operations. The enlargements should will have to be removed. You might be blistered immediately after firing, try washing out the wound several times and repeated in two weeks, if the new daily with a solution of burnt alum, hairs have commenced to grow, but not half an ounce to the pint. Be sure to until then. The following makes a keep all particles of food, etc., well good blister: Powdered cantharides, 4 drams; biniodide of mercury, 4 drams; lard, 6 ounces; Mix. Clip off the A colt, seven months old, was cut across the fetlock. The cut is healed then wash off with warm water and hair from the part to be blistered; up, but an enlargement is on the joint. soap, and smear with vaseline every

and ANSWERS

in size, a light blister might be applied.

ASTHMA IN DOG

Water Spaniel bitch, ten months old, has difficulty in breathing, accompanied by a rattling in the throat. Occasionally she chokes, which causes her to cough. Appears worse under excite-

DUTY ON CORN

Is there any duty on corn from the United States? If there is, how much ?-P. K.

Ans.—Corn for feeding purposes enasthma, probably the result of a neglected attack of catarrh. She is not liable distillation pays a duty of 7 1-2 per

MAKING SAUERKRAUT

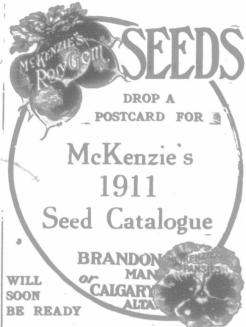
How can I make sauerkraut by the

Ans.—There are different ways of making sauerkraut. Following is a method that is recommended. Take a wine, vinegar or rum barrel and clean Slice white cabbage as fine as possible until you have a wash tub full (a wash tub that holds from 3 to 4 pails), and then put that into the barrel and a handful of salt on top. Take a pounder and pound it down as solid as you can. A cordwood stick about the size of a man's arm with a flat end, or an axe will do, only when using an axe the passage seems to deep the seem Enquiries dealing with matters of a veterinary nature are answered through our columns by a competent veterinarian free of charge to bonafide subscribers. Details and symptoms must be clearly stated and on only one side of the paper. Full name and address of the writer must accompany each query, as a guarantee of good faith, but not necessarily for publication. When a reply is required by mail one dollar (\$1.00) must be enclosed.

CLOSURE OF NECK OF in layers like above till the barrel is menting, unless it is standing in too cool

When it is done fermenting, which Gelding coming four years old had you can tell by looking at the foam menting), you may take the weight off, also the boards and cloth, and take a LEASING OF LANDS clean broom stick and drive the broom cover again with cloth, boards and weight, and clean off the scum every week and inside a month it will be ready

This is the way we have been putting sauerkraut down for many years, and never knew it to spoil. We never put carraway seeds or any kind of seeds in. I've known an odd family here and there put them in, but it's nicer without them. And if the sauerkraut should, in after weeks or months, get too sour all you need to do is wash it a little in This is opened by careful insertion of one finger at a time until the fingers. It is getting worse lately. What would water on it) and then press it out and





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BRANDON, MAN.

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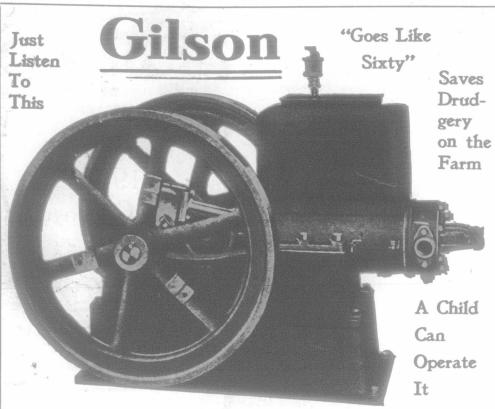
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speak
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too; From shore to shore the word

goes round Sings "Goes Like Sixty," oh, so true.

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its sleep; The benefits of modern power to

steeped,
Sings "Goes Like Sixty" my
fame has leaped,

The Flying Machine away did

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shore; In all the glory and power of

Sings "Goes Like Sixty," yes you can.

The Gilson Engine is sure the

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the test;
Canada, with its great and glorious West,
Sings "Goes Like Sixty," learn the rest.

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WRITE FOR CATALOGUE GIVING FULL PARTICULARS mpire Cream Separator Co., of Canada Ltd.

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Sole Agents for Western Canada

every breed of poultry was included in the entries. There were exhibits in the entries. from all over Alberta: from Edmonton in the north to Cardston and

Lethbridge in the south.

Dr. A. W. Bell, of Winnipeg, and N.
Barker, of Cardston, made the awards. In the Wyandotte classes, over 90 entries were received. H. A. Ross, of Calgary, won first and second in the cockerel class for white Wyandottes. For White Wyandotte cock, the winners were: 1, B. T. Gray, Calgary; 2, Belmont Poultry Farm, Edmonton; 3, B. T. Gray, Calgary; 4, H. C. Richards, Calgary.

Forty birds made up the total as far as Barred Rocks were concerned, and sixty-six Buff Orpingtons. There was also a good showing of Leghorns, the birds numbering over forty. J. H. Wilson and Mrs. W. H. R. Gardiner, both of Calgary, were Brahma

Langshan winners were: E. J. Dewey, of Calgary, and R. Suitor, Calgary. The display of turkeys, ducks and geese was one of the best in the entire exhibition. The showing of pigeons was also exceeding creditable, over twenty pairs being entered in

the various classes. The exhibiton was

well patronized by poultry fanciers. RED DEER HOLSTEIN SALES

Michener Bros., importers and breed ers of Holstein-Friesian cattle, write to state that they have received a host of enquiries from their advertisement in The Farmer's Advocate. They report business as being exceedingly good and they have sold all of their surplus stock and more. Already they are contemplating making more shipments from the east, and intend bringing out a number of notable animals of the Holstein breed this winter.

Michener Bros. handle a high-class line of dairy stock of the producing quality. They report the sales of their two-year-old and yearling females averaging about \$200, and their cows with record performance averaged about

J. D. McGregor, of Brandon, and his son, Kenneth, returned last week from Eastern Canada, where they journeyed Colquhoun & Beattie, Brandon, have after the Chicago International Exposijust returned from Chicago with a fine tion. In speaking of the winnings of string of imported horses, including his stock at the big Chicago show, Mr. McGregor, Jr., stated they encountered not only strong competition but also strong American sentiment. However, they went to Chicago expecting this. While they did not receive all awards that they considered were due them, the situation is accepted with an air of satisfaction, though they still feel that their animals stand second to none in America, and that many competent judges would have made different placings at Chicago.

visiting Scotland next year, with the purpose of purchasing more prize animals to add to his herd. Last season he purchased many good females, and now it is his intention to buy a stock

Lord Scott, the champion Clydesdale stallion at Brandon Summer Exmates of the recently burned asylum, hibition in 1909, has been returned to A number of farmers in this district arrangements are under way that will Scotland by his owner, W. J. McCallum, judging arena is being prepared, and ring record before being brought to the stables will be steam heated Canada, being second as a two-year-Nothing will be left undone that has to old at the Highland Show at Edinburgh. do with providing ample accommoda- He has now a substantial list of Cana-

UPPERS' SALES

W. E. and R. C. Upper report as follows: We have sold to C. A. Browning, The annual meetings of the live-stock of Lumsden, Sask., the Percheron stalbreeders' associations will be held dur- lion, Marquis, age two years, weight 1,825 lbs., girth 8 feet 1 inch; and to F. E. Williams, of Rouleau, two stallions and one mare, which includes a The third annual Calgary Poultry grey two-year-old imported from France Exhibition, held at Calgary, Decem- in May, of extra quality and action, Jas. Bray, Portage, is advertising success of former exhibitions. Alto-bred year-old stallion, Castillet, and a

FARM BOOKKEEPING A NECESSITY

It is true that farmers have been able to make fortunes out of the soil of the prairie provinces by the simple process of putting in seed and reaping the harvest. Because these operawith the inevitable change of conditions there must also come a state of the special of the spec tions there must also come a change in the relation of the farmer as a the introduction of modern machinery, of Stony Mountain, was omitted. a farmer is forced to consider the cost of producing every product offered for To do this by haphazard, guess work methods is ruinous, if continued from year to year. Moreover, the in-known imported Clydesdale stallion, Four of their nine stallions are American-bred and five of them imported. but by department. If each depart-

system of farm bookkeeping is absolutely necessary. A theoretical, elaborate, retail mercantile set of books the farmer to the system. It must where the animals had access. duction and completeness of records, dead on one farm. -Moosomin World. and at the same time be so compiled as to do away with cumbersome routine or unnecessary detail, and be compilable during the farmer's spare time. Such a system is taught by F. E. Werry's School of Farm Accounting, Brandon, Man. Their system, devised by the founder of the school, F. E. West for some time, and is recognized of July. as the most unique in use. The school teaches this system by correspondence, through their thorough

STOCK GOSSIP

In giving the list of purchasers of business man to the business of sheep at the sales concluded by the With the increased cost of live-stock associations of Manitoba labor, the scarcity of laborers and recently the name of J. C. Wiederhold,

houn & Beattie, Brandon, their well of extremely promising young horses.

Roy Wilkes, 2.06 1-2, foaled twentyment pays there is no need to worry about the profits shown by the whole business.

Seven years ago, sire Adrian Wilkes, for four years champion pacing stallion and the sire of nearly 50 standard perus that despite the fact that the comuse the profits are the profits and the sire of nearly 50 standard perus that despite the fact that the comuse the profits are the profits and the sire of nearly 50 standard perus that despite the fact that the com-

are absolutely useless, worse than use- have met with serious loss in horses ensure a most successful show. Men and will travel the Wigton district in less to a farmer. He has no time to getting an overfeed of wheat, either are at work fitting up the buildings on Cumberland for the next three years. operate such a system. The system from carelessness in not clearing up at a the summer fair grounds. A large Lord Scott had a successful showmust be fitted to the farmer, and not setting, or being stored in buildings contain the essentials of cost of pro- many as three horses have been found

Killarney Agricultural Society at the hibitors and the public. recent annual meeting elected G. B. Monteith to the office of president, in all of last year's features, with a numplace of Geo. Lawrence, who resigned ber of additions of sections and classes. after being president of some years. Jas. Miller was appointed secretarytreasurer and manager. It was de- ing fair week in the city hall. Werry, has been used by a number cided to hold next year's show some of prominent farmers throughout the time in the latter part of June or first

and practical course, written specially a Spanish Jack for sale. Mr. Bray gether, the exhibits numbered 970, or four-year-old black mare, bred to a for farmers. It deals with farm busi-recently, in conversation with a representation of the property of th ness exclusively, so that from the first ative of this paper, intimated that he shown at any previous exhibition of all be shown in the ring at Regina

to analyze and classify his farm business.

near future, in which case he would be disposing of his herd of Galloways and flock of Oxfords, not to mention a subject of bookkeeping, should receive ready quit farming several times, but the patronage of every progressive young farmer and farmer's son.

dozen Angora goats. Mr. Bray has alsumption and severaged about \$250. Michener Bros.' stock won many honors at leading Alberta fairs.

MCGREGOD AND SON DETIEM as we know him, he will probably do so again.

just returned from Chicago with a fine tion. Shire Horse Society, for the best American-bred mare any age. From the three-year-old Shire stallion class they have brought the third prize winner which secured this standing in a class of twelve, and in addition another handsome three-year-old that was not shown. Among the nine Percheron stallions Miami horsemen at a meeting recent-ly decided to purchase from Colqu-American-bred two-year-olds, a couple

BRANDON WINTER FAIR

modious winter fair buildings are given over to housing the unfortunate intion, comfort and convenience for ex- dian winnings to his credit.

This year's premium list includes

CALGARY POULTRY SHOW

lesson the student begins to learn how would probably quit farming in the the poultry association. Practically spring show.

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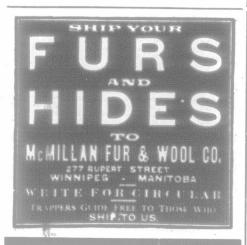
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CALF REARING

The Holstein-Friesian Association of the United States sends out some suggestions on calf rearing and the care of

the dam about gestation period.

They state if strong, healthy calves are expected, the cows must be well fed and cared for; for if a cow be so scantily ted, either at pasture or in the stable, that in her generosity to you she has to turn needed fat and flesh into milk, growing so thin that her hips and ribs are the most prominent features in her make-up, how can you expect her to give you a strong calf? Remember that the calf well born is half reared. Try to be always with your cows during parturition, ready, if necessary, to assist at the proper time; as you will find this extra care the cheapest sort of insurance against loss. Give the cow a well bedded stall, and see that all is dry and clean.

Some breeders remove the calf to its pen as soon as born; but I consider it better for both cow and calf to leave the calf with the cow for 36 to 48 hours as the cow will be contented at the time when she needs to be quiet, and the calf will suck little and often and so get its digestive organs properly working These organs of the newborn calf are very delicate, and very subject to disorders if the milk fed be not right in quality, quantity and temperature, or if harmful germs are introduced into the stomach and intestines by feeding from unclean pails. The calf pens should be well lighted and ventilated, be reasonably warm and be kept clean and dry. For the first two or three weeks, the calf should receive only its dam's milk; and it should be fed not less than three times per day with milk warm from the cow. A good Holstein-Friesian cow or heifer will need milking at 5.00 a. m., 1.00 p.m. and 8.30 p.m.; and if the baby calf be fed two quarts at each milking, it is likely to be enough.

By the time the calf is three weeks old, it will be able to dispose of five pints at each of the three feeds; and after it reaches four weeks, it may be fed but twice a day the new milk gradually being replaced with skim milk, till at six weeks the calf is taking four to five quarts of skim milk twice per day. From the time one begins to use skim milk, till the calf is two months old the thermometer should be used so as to be sure the milk is above 90 degrees, but after that age, the hand is a sufficient guide. At about four weeks, the calf will begin to chew bits of hay; and if a little wheat middlings is placed in its mouth after feeding it will quickly learn to eat ground feed. Up to about twelve weeks old the calf should have ground oats or wheat middlings, as well as bright clover hay, before it at all times, all being kept sweet and fresh; and after three months it should have its grain feed as regularly as the cows. While it is better to feed skim milk if one can till a calf is 20 weeks old, warmed water should be offered every day after about the tenth week; but one should be careful that at first the calf does not take it for a new kind of milk, and load up too heavily with it.

PERCHERON REGISTRATION IN UNITED STATES

At the annual meeting of the Percheron Society of America the president, H. G. McMillan, delivered a comprehensive address in which he reviewed fully the whole question of Percheron registry in the United States and established the claim of the Percheron society as the only registration organization worth consideration by breeders of the Percheron horse. From President McMillan's address, the excerpts are taken, which bring down to the organizations doing business in the country.

The first Percheron society ever

organized was organized in the United States in 1876. The original Percheron stud books were turned over to this society. The name given to these stud books was the "Percheron-Norman." In 1883 the Percheron Society

of France was organized. An attempt was made, after the establishment of the Percheron Stud Book of France, in 1883, to have the horses that had been imported prior to that date, and subsequent to the date of the organization of the society in the

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Sans Peur (Imp.) for sale. Has stood for seven years on Portage Plains. A sure foal getter, and producer of first-class stock. Sell cheap. R. J. Caskey, Longburn, Man.

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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. Over this two cents per word.

LOST, on November 18th, from T 36 R 3, one Grey Gelding, aged, film on off eye, weight about 1250—H. Connolly, Rutana, P.O. Sask

STRAYED on the 11th November from 5-21 TRAYED on the 11th November from 5-21 1W 3 between Eyebrow and Brownlee, Sask., 1 half-bred Clyde gelding, rising seven years dark brown, white stripe on face, two white hind legs, branded L on left shoulder; 1 dark bay filly rising three years, blaze on face, one white hind foot, one white front foot; 1 bay filly rising two years, white star on forehead; 1 dark grey filly, rising two years, one white foot; 1 bay gelding, rising two years, two white hind legs and white face. \$25.00 reward for their return. Walter Simpson, Box 94 Brownlee, Sask.

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RATES-Two cents per word each insertion each with order. No advertisement taken less than fifty cents.

TOUNTAIN VIEW POULTRY FARM, breeders of Barred Plymouth Rocks, Buff Orpingtons, S.-C. Brown Leghorns, winners of four championships. Largest and best stock in the West. Prices, single birds, Leghorns, \$2.00 each upwards; Rocks and Orpingtons \$3.00 each upwards. Joseph Shackleton, Box 268, Olds, Alberta. MOUNTAIN

Special Male Matings. \$5.00 for Cockerels and a Pullets. From three birds shown at Winnipeg Fair I took second cock and second and third hen.—Lakeside Poultry Grove, W. J. Saunders, proprietor, Killarney, Man.

BARRED ROCKS—Thompson strain. Free range. Fine healthy cockerels, \$2.00; one-year-old hens, \$1.00. Elam H. Smith, Box 1193, Brandon.

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GUS WIGHT, Evergreen Stock Farm, Napinka, Man. Clydesdales, Shorthorns and Berks. Man. Clydesdale Write for prices.

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HOLSTEINS, HEREFORDS, SHETLAND. J. E. Marples, Poplar Park Farm, Hartney Man.

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Farmer's Advocate WINNIPEG

United States given place in the French stud book, so that the two books would correspond; but after much effort in this direction it was found to be impracticable. Finally a rule was adopted by the American Society known as the "85" rule. This provided that any animal that had been imported prior to or in the year 1885, regardless of whether it was recorded in the Percheron Stud Book of France or not, if the fact could be shown that the animal was really imported prior to that date the horse was accepted for record in the American stud book. This rule was necessary in order to harmonize the records of the two countries.

Then about 1893 came the depression in horse breeding. Horses could hardly be sold for market, let alone for breeding purposes. In consequence of this concondition of affairs, interest seemed to be entirely lost in the Percheron organization, and the new idea of recording, and the establishment of stud books was neglected and almost forgotten. Finally, meetings were no longer held by the society. Nobody paid any attention to the records; and finally, gentlemen, the condition became so serious that the secretary then in charge of the records, who endeavored to maintain them and keep them up, became so hard pressed for the necessary means to maintain the records, and an office to keep them in, that all the books of record were finally sold on execution, to pay the debts that were against the institution. S. D. Thompson, the last secretary elected, and who had charge of the records, bought the books and records at execution sale and became owner of all the property of the old organization.

The Percheron Society of America was organized in 1892 at the suggestion of the Secretary of agriculture. It was at once assailed by Mr. Thompson and his adherents who claimed it had no rights of existence or authority to register Percheron horses. Cases were brought against the society in the courts and finally the society established its rights to continue as an organization. But the litigation caused many breeders to hold back and not record their horses either in the records of the society or those of Mr. Thompson. Finally the society purchased from Mr. Thompson the original records and

books of the old society. During all these years of depression in the draft horse industry, no stud books had been published in this country or France. No stud books was published by Mr. Thompson for a period of about ten years, and when he did publish his volume, in 1898, he only gave the name of the horse recorded, with its number, and the name and number of the sire and dam. There was no extended pedigree, so that it could be traced and compared with any published record.

From 1894 until 1906, a period of twelve years, the Percheron Society of France did not publish a book, so that during this period of twelve years (in the last six of which, large importations were made, and distributed all over the United States) there was absolutely no means of verifying the pedigrees, and knowing whether they were accurate or not.

The only thing was the certificate that was furnished our secretary, when the importer recorded his horse in this country. We could not tell whether that corresponded to the records of the French Society or not, because there were no published volumes during this period.

It is a matter of history that the Percheron Society of France had three different secretaries during this time, all of whom are now dead, the last one dying prior to the publication of the volume in 1906. The manner, too, in which French records are kept makes mistakes probable, and renders it difficult to trace records.

A year ago the Department of Agriculture at Washington called on the Percheron society to explain discrepancies that arose between the certificates issued by the society of France and those of the Percheron socie America. The Department culture wished the Percharan to harmonize its records with cords of the society or Pransociety undertook to me various points involved cases it was found in

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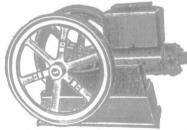
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horses had been recorded by the organization of 15 or 20 years ago, to secure original certificates of registration Effort also was made to have the Percheron society of France recognize certificates that had been omitted from their volumes.

When we went to Washington the last time we felt that this frequent raising of question as to the genuineness or correctness of pedigrees of horses—many of them imported 10, 15 or 20 years ago, the pedigrees of which had been relied upon by the breeders of the country all this time, and which a very large number of the breeders of the country were interested in—was damaging to the breeding business; and that no good could be accomplished in raising these questions at this late day, for the reason that it would be impossible to find the evidence that would throw full light upon these transactions of 15 or 20 years ago.

We felt that in a large sense the principle of the statute of limitations should apply, and that the breeders and farmers of the country, interested in the Percheron horse, should not be constantly harassed with doubt and uncertainty in their breeding operations.

The action of the Percheron Society of America, in registering imported horses, is necessarily based upon the French certificate, and when the importer presenting such certificate has complied with the rules of the Percheron Society of America, and has received his certificate of registration from this association, we believe it to be the imperative duty of our society to stand behind every pedigree so issued, upon which it has set its seal and the signature of its proper officers. A certificate of pedigree issued in this manner, as provided by the bylaws of the society should be absolute and conclusive on all parties concerned, and no doubt should ever be entertained afterwards as to the genuineness or reliability of such certificate of pedigree and the registration thereof.

So the Percheron Society of America recommended that the Department of Agriculture establish a system of inspection for all imported horses: That it may be accurately determined whether or not such horses have authentic certificates of pedigree from a reliable pedigree association in the country from which they come.

2. "That such horses be inspected as

2. "That such horses be inspected as to their identity, for the purpose of ascertaining whether or not they are correctly described in the pedigree submitted with them, and represented to be the pedigree of the said horse, and also for the purpose of determining whether or not said pedigrees are genuine and duly authenticated.

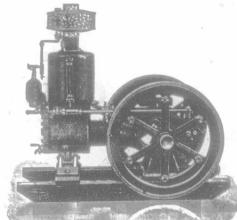
3. "That it may be determined whether or not such horses are free from dangerous, infectious and contagious diseases, and suitable for improving purposes in this country.

"We further recommend that when inspection has been made, as herein provided, that an accurate and careful report of such inspection be transmitted to the Department of Agriculture immediately, and that a complete record of all imported horses, with the results of the inspection, be kept and made a matter of record in the Agricultural Department of the United States, for the information of all American Record Associations interested in the breed of horses; and that when information concerning such record and inspection of horses is requested by this society or any other having an interest in the same, it be furnished with as little delay as possible.
"We further recommend that the

Department of Agriculture communicate with the Department of Agriculture of the Republic of France, or the Percheron Society of France, for the purpose of impressing upon said Percheron Society the importance of having authentic pedigrees, and a correct record—made in the Percheron Stud book of France, of all horses imported to this country, in order that no conflict may hereafter arise in the published records of the stud book of the Percheron Society of America and the stud book of the Percheron Society of France."

The government have now stationed at the port of entry an official whose duty it is to inspect the horses, pass upon their pedigrees, thus relieving the

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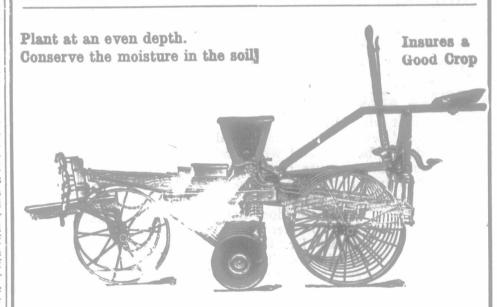
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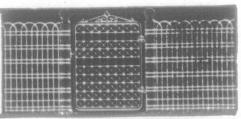
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in sizes from 320 to 960 acres. One of these is a clean seed farm of virgin soil, as good clay loam as can be found in the world.

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society of the work it undertook in that direction last September.

With regard to the registration of American bred Percherons in the society's stud book the original rules were exceedingly liberal. Encouragement was given the breeder to record his certificates of pedigree and finally much of the stock that had been neglected during the years of depression and litigation were recorded in the volumes. Later transfers were required of the mares, and from time to time the rules were made more rigid, until now a man has to have all the transfers before he can record his colts. In addition there is a rule that every colt is to be recorded before September first of the year after he is foaled. So far as the recording of American-bred horses is concerned, and we believe it is practically impossible for any wrongful or irregular registrations to occur in the future conduct of the affairs of the society, and the pedigrees issued by this society will be so safeguarded that they will be as reliable and trustworthy as those of any breed association in the world.

PROVINCIAL FAT - STOCK SHOWS (OUR ENGLISH CORRESPONDENCE)

Once more the flight of time has brought us to the season of the fatstock shows. The Norwich and Birmingham shows are the two chief provincial fixtures in England, and are only surpassed in importance by the Smithfield show. This year's Norwich show was a good one, though the cattle were not of exceptional merit. Entries were slightly fewer than last year.

The King was a prominent exhibitor, taking two firsts and seven seconds. To an Aberdeen-Angus heifer went the champion prize. This was J. J. Cridlan's splendid Clasp 2nd, by the famous bull, Everwise. She is broad, level, of good depth, and at two years eleven months weighs 14 cwt. 1 qr. 11 lbs., and was in every way a worthy champion. Another Angus heifer was reserve for championship, W. H. Brown & Sons' Staysail of Crimplesham.

Red Poll steers were a fine class. G. H. Wilson won in both senior and junior classes with steers by Starson Emperor. Shorthorns were unfortunately few in numbers. R. J. Balston's Duke of Kent was first in the senior steer class, and the King took second place. steers of certain classes the competition was very close. The Angus Mower of the Burn, owned by H. Hubble, was first; and another Angus, M. Gurry's Edgell Surprise, was second. Altogether Norwich was a great triumph for the Aberdeen-Angus breed.

a winner for Southdown wethers, second going to the King. In Southdown lambs, C. R. W. Adeane was first. H. E. Smith, for a trio of Suffolk lambs. you. The pig prizes were fairly evenly distributed amongst a number of known breeders.

This was the 34th show, and the amount offered in prizes was £765. The number of cattle entered was 112, sheep numbered 96, and pigs 34. Fine and keeps the bowels regular. frosty weather favored the show, and the attendance of the public was excellent.

SHOW AT BIRMINGHAM the largest and most important of the multitude of annoying symptoms which provincial shows, and has a successful accompany indigestion and constiparecord extending over 62 years. This tion. year the total number of entries was considerably in advance of recent years. There were 166 cattle entered, 56 sheep and 100 pigs. King George entered eleven head of cattle from the Windsor herds; four Herefords, three Shorthorns, and four Devons, and was very success- bowels, and cleanses the whole digesand four Devons, and was very successful in winning premier awards. Some tive and excretory system.

Mr. Theo. Bedard, Lac aux Sables, from the Royal flock

voted to Herefords, and this is fitting Liver Pills the best treatment obtainin view of their importance amongst able for indigestion and impure blood. midland breeders. Some excellent They cured me of indigestion, from beasts were forward in the two-year- which I suffered for four years. old steer class, and the King's Prince, a fine, evenly-fleshed animal, was placed solicitation, so that others may not first. At two years and ten and a half waste their money buying medicines months he weighed 16 1-2 cwt. A close competitor was the winner in last year's yearling class, shown by Sir J. G. R. Cotterell. The King's Prince

J. G. R. Cotterell. The King's Prince

Dr. A. W. Chase's Kidney and Liver

Pills one pill a dose 25 cents and Liver was good enough to afterwards win the breed championship. The yearling steer class was a much larger one, and

Was Troubled With Liver Complaint For Three Years.

Milburn's Laxa-Liver Pills will regolate the flow of bile to act properly upon the bowels, and will tone, renovate and purify the liver, removing every result of liver trouble from the temporary but disagreeable headache to the severest forms of liver complaint.

Mr. S. Nelson, North Sydney, N.S., writes:—"I have used your Lixa-Liver Pills. I was troubled with liver complaint for three years, and could get no relief. I was persuaded by a friend to try your remedy, and after taking one vial I got relief. After I had taken three more I was cured completely, and I have not been troubled since, thanks to your valuable medicine."

Milburn's Laxa-Liver Pills are 25 cents per vial, or 5 vials for \$1.00, at all dealers or mailed direct on receipt of price by The T. Milburn Co., Limited, Toronto, Ont.

the beasts were of very uneven quality but above the average as a whole. There was little choice between the first and second class, but eventually a son of Royal Ranger was placed first, and F. G. Wynn's Buan, second. Both were deep, level and finely fleshed.

Only five heifers were entered, but the quality was good. The winner, F. de Pennefather's Ony Lima, was weighty, but somewhat unevenly flesh-Second place went to Lord Coventry's Galoche, a somewhat lighter beast

The Shorthorns numbered 20, and were the best seen at Birmingham

When You Feel Cross

And are easily worried and irritated, chances are that the liver is not right and you need

Dr. Chase's In the sheep classes D. McCalmont was Kidney - Liver Pills

Life is too short to be cross and lambs, C. R. W. Adeane was first. grouchy. You not only make your-The championship for sheep went to self miserable, but also those about

Don't blame others. Blame yourself for not keeping the liver right. When healthy and active the liver filters the poisonous bile from the blood and passes it into the intestines, where it aids the process of digestion

But when the liver balks the whole system becomes clogged with a mass of fermenting food, which gives rise to gas on the stomach, belching of The Birmingham fat-stock show is wind, pains about the heart, and a

There is nothing in the world which will more promptly afford you relief than Dr. Chase's Kidney and Liver Pills. This statement is true. A trial will convince you. This medicine acts definitely and directly on the liver and

om the Royal flock.

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champion boar at Cal gary, 1910. Young sows of breeding age sow which won first prize in 1909, and second in 1910 at Calgary. Her last three litters totalled 53 robust pigs. Bargains to prompt buyers. Glen Bros., Didsbury, Alta.

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steers were grand, and seven were in competition. So closely matched were the first two that an umpire was necessary to a decision. A well fleshed, massive roan, owned by J. J. Cridlan, Gloucester, was given first place. This was Crown Prince, bred by Messrs. Ross, Millcraig, weighing 17 1-4 cwt. at two years eleven months, and a winner at Smithfield last year. Second place

went to the King for Fearless, a well topped beast, but slightly deficient

in flank. The yearling steers also numbered seven, but were not of such high quality as the senior class. A good white, the King's Stanley, was first, and was closely followed by Capt. Behren's red and white Swinton Harlequin. The heifer class was of high quality, and produced the breed winner, the King's symmetrical and handsome red, Mys-There was no question as to her superiority, and she won first and breed championship quite easily. Second in class was a fine white, meaty heifer, Sir O. Mosley's Rolleston Marathon

The Devon cattle classes were poorly filled, and this is strange when one considers how many might easily be shown at Birmingham. There were only eleven entries in the three classes. In the senior steer class a referee was necessary, and he placed C. Morris' steer, by Musician, first, and the King's Lancer, second. There was little between them in merit. The winner was excellently topped, and weighed 17 cwt. at two years, ten and a quarter months, and took the Devon championship.

Only three yearlings were forward. First place went to Viscount Portman, and second to the King. In a class of but two Devon heifers, C. Morris' Capton Lily, was preferred to the King's Nita.

Aberdeen-Angus were few in number, but high in quality. There were three two-year-old steers. Sir R. Cooper easily took first place with his fine, square, deep-bodied President of Dalmeny, from the Rosebery herd. At two years eleven months he weighed 15 1-2 cwt. Second honors went to T. B. Earle's Pride of Aldbro. Six were forward in the yearling steer class, and a referee was necessary before a decision was given. J. H. Bridge's Sirdar, a steer of fine type was placed first, and Jas. McWilliam's Rodger of the Dell, second. The Norwich champion, J. J. Cridlan's Clasp 2nd, was in the heifer class taking first place and Appear

heifer class, taking first place and Angus championship. Second place in class went to J. McWilliam's Flora 3rd of

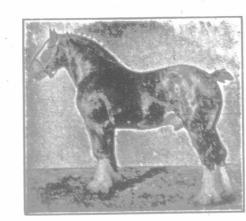
Galloway entries numbered two. A heavy, well fleshed steer took first for H. S. Leon, Bletchley. In West High-land cattle the premier honor for steers was awarded to Lord Durham's yellow, Andrew, and the same exhibitor's heifer, Peggie, was unopposed in the

Some grand black Welsh cattle were shown. In the two-year steer class Hon. F. G. Wynn won first and breed prize with a bullock of good length and depth. In yearling steers and heifers, Robt. Hughes was the winner. Crossbreds were a big section, and some prime butcher's beasts faced the judges. Miss de Rothschild owned the winning twoyear-old steer, a red roan Shorthorn-Angus cross. In the yearling class, Lord Fitzhardinge took first with a roan, three parts Shorthorn and one part Angus. His top, loin and quarters were excellent, and when championships were awarded he was placed as best animal under two years old.

In the two-year-old heifer class T. B. Earle's red Shorthorn-Angus cross was first, and amongst yearling heifers Sir O. Mosley's blue grey Angus Shorthorn took premier place.

For the cattle championship awards a large crowd assembled and evinced keen interest in the proceedings. The first award was the junior championship and this fell to Lord Fitzhardinge's crossbred, Snowdrift, with the King's Shorthorn steer, Stanley, reserve. This was a popular decision. Then the breed winners came forward for the championship of the show. The King's Shorthorn heifer, Mystery, was declared champion. She was two years ten and a quarter months old, and weighed 16 cwts. 2 lbs. Considerable difficulty was

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A. & G. MUTCH, Lumsden, Sask.

experienced in deciding the reserve for championship, and an umpire was necessary. He had to decide between Mr. Cridlan's Aberdeen-Angus heifer, Clasp 2nd, and the King's Heretord steer, Prince, and eventually he gave the award to the Aberdeen-Angus. Although the King's Shorthorn was champion, he could not claim several of the prizes, as King George was not the breeder, but the late King Edward, so all the awards, except the Thorley Cup, went to the reserve. If the Royal shorthorn had been out of the way Mr. Cridlan would have won all the trophies.

The number of sheep entries was the largest for several years, and the section well represented Midland sheep breeders. The purebreds were excellent, but there was some falling off in the crossbreds. The first class in the catalogue was for Southdown wethers. In a close contest Mrs. Montefiore's pen was given first place. The pen was beautifully formed, compact, and of high quality. They weighed 4 cwt. 3 qrs. 12 lbs. Second place fell to a slightly heavier trio, owned by D. B. McCalmont; third to the King. The high quality of Frank Bibby's pen of Shropshire wethers easily brought first place. They scaled 7 cwt. 2 qrs. 8 lbs. at twenty-one months. Both second and third places went to Sir Richard James Horlick took first Cooper. place for trio of Oxford Down wethers with a pen which was very good in The second pen, shown by J. T. Hobbs, were heavier, but lacking in

A heavy pen of Hampshire Down wethers won first place for John Joyce. At twenty months they weighed 8 cwt. 11 lbs. Second and third went to H. J. Hulse. In the Southdown lamb class A. C. Hall was successful, with F. H. Jenning's pen in second place. a small class of Shropshire lambs was shown. Sir R. Cooper took first, and Mrs. F. W. Inge, second place. A. E. Blackwell's Hampshire Down lambs were easily first. At 10 months they scaled 5 cwt. 19 lbs. Second place went to H. J. Hulse. For crossbreds, Mrs. Montefiore's Southdown-Hampshires were the winning lambs. The Cooper Cup for best pen of sheep in the show was awarded to Mr. Blackwell's Hampshire lambs.

The collection of pigs was the best ever brought together at Birmingham. For Berkshires under nine months, two splendid pairs shown by J. A. Fricker, took first and second places. The premier pair weighed 6 cwt. 1 qr. 5 lbs. at eight months. In Tamworths, D. W. Phillips' pair took first in the young class, and Sir O. Mosley took second place. For Large Whites Lord Ellesmere, as usual, was first, but the second pair, J. Neaverson's, gave a close contest. In Middle Whites, A. Hiscock took first place. In the older classes L. Currie scored a victory for a grand pair of Berkshires. J. A. Fricker took second place with a good pair. D. W. Philip was easily supreme in the senior Tamworth class, taking both first and second places. At eleven and a half months they weighed 8 cwt. 1 qr 27 lbs.

In the senior Large White class a fine pen, owned by Lord Ellesmere, and weighing 9 cwt. 1 qr. 20 lbs. at ten and three-quarters months, were first, and afterwards took the championship. They have previously won at county shows, and were commended at the Royal. Second place in the class fell to J. Neaverson. In the older Middle Whites, A. Hiscock and A. Brown took first and second places. An unusually heavy pair took the first place for A. Hiscock in a big class. At just under twelve months they weighed 9 cwt. 1 qr.

In the new classes devoted to single igs there were numerous entries. Berkshires, L. Currie was successful. D. W. Phillips took first for Tamworths, and the Earl of Ellesmere for a Large White.

Space will not allow of any detailed description of the fine exhibits of poultry and pigeons, but they were fully up to the usual high standard. A magnificent collection of cereals and roots was staged in the large balcony, and the favorable season has brought about high quality and size in the latter.

Trade exhibits were a prominent feature, and most of the leading firms were represented.

The attendance of the public was ex-

Horse Owners! Usa GOMBAULTS



The safest, Beat BLINTER ever used. Tale the place of all linaments for mild or severe astin femoves all Bunches or Blemishes from Horse and Cattle, SUPERSEDES ALL CAUTERS DE FILE OF THE DESTALL
Large English Berkshires



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PERCHERONS

For forty-six years renowned as the best of the breed. Six large importations since February 1, 1910 (the last arrived October 12th), insure fine selection, as each animal was individually selected for size, bone quality and excellence. If you want choice stallions or mares, write for catalogue, illustrated from life.

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HIDES AND FURS

Write me for prices on Green Hides, Dry Hides, Sheepskins and Furs. We pay 25 cents per pound for shipments of fifty pounds or more, of Horsehair, F.O.B. any station in Alberta

J. E. LOVE, 407 4th St. E., Galgary



Cleveland, Ohio, March 18, In the fall of 1908, at Le

everyone and has been a matter of comment on the part of everyone that has seen it. The hock is today absolutely clean and there is no indication of thoroughpin, and I shall be glad to show this horse to show that there is no trace of the trouble.

Very truly,

Prop. Murray Stock Farm, West Mentor, Ohio.

For filteen years our contract has been the foundation on which every customer based his confidence in making his first purchase, and it has never been misplaced or hetrayed. The marvelous power alone of "Save-The-Horse" permits of such an iron-clad contract. Send for copy. Write to-day for proofs.

\$5.00 a Bottle With Signed CONTRACT This is a binding CONTRACT and protects purchaser abcolutely in treating and curing any case of Buse and Bug Sporis,
Bring-buse, (except low), Cork, Spitet, Capped Bust,
Bringhoff, Shoubell, Injured Fandess and all Lameness. No scar or
loss of hair. Horse works as usual. Send for copy of contract,
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man, bankers, farmers and horse owners the world over on
very kind of case. At all druggists and dealers, or express path.

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Mr. M. C. Weightwran, Moubeith, Man. writes April 3, 1907:
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MRS She Will T The re there is no She wants irunkennes

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to her hom 196 Home Motor (Write

> Used by t ovad I" It the gree Br. B. J

cellent, in tendant (will be re of the ser YOU WANT TO STOP A MAN

Cured Her Husband, Her Brother and

e Cured Her Husband, her Erocher an inversi of Her Neighbors and Prompted by Her Restored Happiness, she Generously Offers to Tell You of the Simple, Inexpensive Rem-edy that she so Success-fully Used.

For over 20 years the husband of Mrs. ngaret Anderson was a hard drinker, but he years ago, by using a simple remedy, she apped his drinking entirely. He has not

MRS. MARGARET ANDERSON

She Will Tell You How To Step a Man From Drink The remedy can be given secretly, so there is no publicity of your private affairs.

She wants every man or woman who has drunkenness in their home to write to her so

there are still hundreds of others who need

and should have it, so we earnestly advise every one of our readers who have a dear one who drinks, to drop her a line to-day.

The proofs of the hundreds of really re-markable cures are too strong to be doubted

help, (she asks for no money and accepts none) so there is no reason why you should not

write her at once. She only requests that you are personally interested in curing one who drinks. Send your letter with confidence

196 Home Avenue, Hillburn, New York.
White (Write your full name and address plainly—denot delay.)

RENDALL'S Spavin Cure
Good by thousands for 40 years. One man writes:

Biddle Hainseville, R. B., June 21, 2900
'T have used your Spavin Cure for 10 years and find is the greatest remedy on earth for man and beast."
Sherman Jones,
Ro telling when your horse will have itself. Get
Rendall a today and keep it handy. Our book—"A
Treatise Our The Horse" tells how to cure all horse troubles, Free—at dealers or write us.

38
P. R. J. Hendall Co. Encohurer Palls. W.

Br. B. J. Kendall Co., Enosburg Falls, W.

cellent, in spite of the excitement attendant on the elections, and the show

will be remembered as one of the best

F. DEWHIRST.

Mrs. Margaret Anderson, me Avenue, Hillburn, New York.

to her home. Here is her address:

Yet she makes no charge for her

e can tell them just what remedy she us Hundreds have freed their homes from drink by using the information she gave them, but

FROM DRINK

r used. Table sovere action from Horse CAUTEET scar or blank ve satisfaction ggista, or sun directions in

shires ling stock, related to i's greatest owned by ss of Devon-For sale, ad Sows, all rigs. Pairs and safe ar-ALTA.

ERONS renowned reed. Six ons since

ber 12th), lection, as is individne quality int choice for cata-UNHAM

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MENTS ngnatore) r award i, Louis. atalogue. Chicago.

n Joints, joils, Fisquickly; blistor the hair, jo. \$2 per elivered.

3, 1907: NE with ings, ıld, Mass. Winnipeg; Calgary:

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on the part of notately clean shall be glad of the trouble. IRRAY. ntor, Ohio. numdation on king his first trayed. The mits of such of for proofs.

Toronto.

of the series.

IE

Now is the time to get catalogs and bulletins referring to seeds, plants, shrubs, trees, etc. During the winter to advantage, so that intelligent purbut give a few general rules for new bechasing and planting can be done in ginners. the spring.

writes:

"Grass we recognize as being the choke out all grass and weeds."

will hold ferns, palms, asparagus fern and oleanders and can be scattered around the room.

For hanging plants the fern ball, ornamental asparagus, or the more common musk will do.

Cinerarias make handsome window plants, with their masses of velvety foliage, and are easily started from seed

I have tried several roses and find the tea roses and the "Champion," a large, pink, ever-blooming rose, the best house roses. I have more beautiful

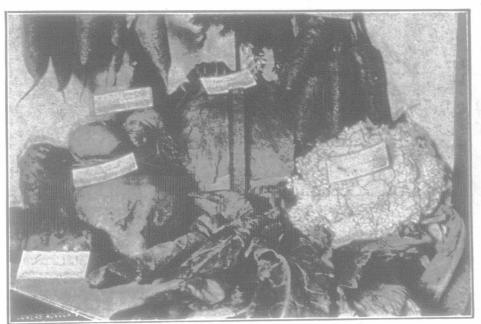
roses which only bloom once a year.
Bulbs, especially the hyacinths and lilies, make nice window or table plants but are not ever-bloomers.

This is an inexhaustible subject so months they can be read and studied I shall not mention any more plants,

A good soil can be obtained by STRAW AMONG YOUNG TREES

Asked for his opinion regarding or a good rotten leaf mould is good and the use of straw or manure among can be found in damy bluffs. The pots trees to keep down grass and weeds, should not be too large or they will be A. P. Stevenson, one of the most prac-inconvenient, but the roots must not tical forestry men in the Canadian West, touch the rusty sides of a tin can or it will kill them.

Geraniums, petunias, foliages and greatest enemy to the growth of young the sultana are easily started from slips trees. If the grass and weeds have got in water or place right in earth. I start a firm hold among one and two-year mine in quart cans and they do not have trees, so that a one-horse cultivator to be moved for a year. Begonias I cannot be used, it would be advisable find better started in water. Some to take up the young trees and trans-start from a feal, as the rex. Do not plant in clean land. If three and four change water. Fuchsias and roses I year trees are fairly thrifty mulch place directly in earth and insert a glass heavily with rough manure, or par-tumbler over to exclude air and keep in tially rotted straw, so as to thoroughly moisture. Oleander slips can be started by making holes in a cock of a pickle



VEGETABLES WERE GOOD IN THE VICINITY OF HIGH RIVER, ALBERTA

PLANTS

EDITOR FARMER'S ADVOCATE:

vote to their care and then take our own this way. individual choice. It is much better to Most of these plants can be started more than can be well taken care of.

For those who prefer the most blos- variety. soms with the least care, geraniums are the most hardy of house plants. There are several varieties, the best being almost always in blossom. I prefer the double but not the very double, which do not open in large bunches. A choice of colors are scarlet, pink, apple blossom, salmon, white and dark red. The pansy geraniums are hand-some, but only blossom once a year.

Petunias are hardy and easily grown. The white, pink and variegated are very

free blossomers. Foliages and colens, fuchsias, be-gonias and the brilliant and ever beautiful sultana with its glossy green leaves and rose-colored blossoms are easily grown but will not stand any Foliages need to be in sunny frost. windows

For those who have flower gardens, benas, stocks or asters, which have a plant diseases or insects, but oleanders geraniums, carnations, petunias, vernice start, and even in blossom if care-

little sun. For large rooms jardineirs stands

CHOICE AND CULTURE OF HOUSE or olive bottle putting stems through until they reach water and wrap cotton around bottle to exclude light. They We must first consider what space we will root in from three weeks to one have for plants, the time we have to de- month. Fuchsias may also be started

have a few well kept plants than to have from seed, but slipping is a much quicker process and you are sure of your

I find plants blessom better if not watered too frequently, two or three times a week, according to dryness of the air being sufficient. They should be sprayed or washed whenever dusty. In summer they may be placed out in a shower or they may be placed in a tub and sprayed by dipping whisk broom in water and shaking over plants. Or each leaf may be washed with a rag or hand dipped in water. If we think the plant needs more nourishment than soil in pot gives and it is not convenient to change plant into a larger pot, water with a fertilizer. A good fertilizer may be had by filling a box with cow manure and pouring water over it, catch drop that drips through. This is better than dipping from puddles in cow yard, as urine will kill the plants.

Geraniums are remarkably free from cineraries and roses are not. To kill fully potted so as not to disturb the roots, may be taken indoors and make nice window plants or supply cut flowers.

Primroses and primulas are pretty and make nice table plants. These start from the root. Asparagus form start from the root. Asparagus fern tobacco water. Roses are very susis also a pretty table plant and requires ceptible and should be kept by themselves or beside healthy plants.

J. W. CHASE.

THERE ARE FEW PEOPLE Who Have Never Experienced A HEADACHE.

Headaches effect all ages and both nexes alike, but the female sex is naturally the more effected through the higher nervous development and more delicate organization of the system.

Burdock Blood Bitters has, for years, been curing all kinds of headaches, and if you will only give it a trial we feel sure it will do for you what it has done for thousands of others during the past thirty-five years.

Mrs. C. Meadows, Clarksburg, Oat., writes:—"For years I was troubled with sick headache and dizziness, and was also constipated. I was advised to try Burdock Blood Bitters. I only took three bottles of the medicine; now I feel like a new woman. I find I am completely cured, and I can truthfully testify that it is the best medicine I have ever used.

Burdock Blood Bitters is manufactured only by The T. Milburn Co., Limited, Toronto, Ont



STUDY AT HOME

The only Strictly Farmers' Course

BRANDON, MANITOBA

CHEW SUGAR **TOBACCO**

Mild, Sweet, Mellow and Juicy

Manufactured by

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WINNIPEG



call has been issued Dominion forestry convention to be held in the city of Quebec, January 18, 19, 1911, the work of preparation has been going forward rapidly. The convention is to be held under the auspices of the Canadian Forestry Association, of which His Excellency Earl Grey is the Patron, Sir Wilfrid Laurier honorary president, and Hon. W. C. Edwards, the great Ottawa lumberman, president. The ministers of crown lands in the various provinces are territorial vicepresidents, and Mr. R. L. Borden, M.P., is on the board of directors, which includes leading lumbermen, forest administrators and forestry educationists.

The commission of conservation, of which Hon. Clifford Sifton is chairman, will hold its annual meeting in the city of Quebec on January 17, so that the ancient capital will that week be the mecca of all interested in the preservation of forests and all that depends upon them, such as navigation, waterpowers, agriculture, fish and game, recreation, health and tourist travel. The absolute dependence of the miner upon the forest for pit props will also be fully dealt with. The commission of conservation, which has been all year gathering information about all of Canada's natural resources, will, through its experts, indicate the present state of each. The forestry convention will discuss and make clear the duty of the public, the press and the governments to Canada's forests

The premier of Quebec, Sir Lomer quiries about the programme, etc., may held in Canada. The legislature of Que-Gouin, and the members of the govern- be addressed, will visit Quebec frement are enthusiastically taking up the quently between now and the date of Railways have granted special rates, project, the details of which will come the convention to confer with Mr. and a strong programme is being preunder the direction of Hon. Jules Allard, Allard and the committee of the associapared, the details of which will be anthe minister of lands and forests. James tion, there to see that no detail of the Lawler, the secretary of the Canadian work is left undone. Forestry Association, whose headquar- Everything points to the largest and

ters are in Ottawa, and to whom en- most practical forestry convention ever

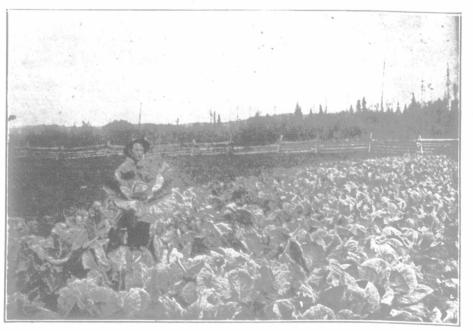
secretary.



Interesting work is being carried on at Wolseley, Sask., where the Canadian Pacific Railway has 40 acres on which they grow planting material for the right-of-way from Winnipeg to the Rocky Mountains, as well as flowers, plants and shrubs for station agents and others. Every foot of the 40 acres is being put to good use. Before winter came trees were heeled in to have them in readiness for spring shipping.

Speaking of the work done, G. A. B. Krook, who is in charge, referred to an interesting tamarack plantation. An endeavor is being made to find out whether or not this tree will thrive on high, dry land. In 1908 trees 4 or 5 years old were taken from a slough near Molson, east of Winnipeg. They have been well cultivated, and so far have done well. It has been found, however, that spring frosts after fine weather has a damaging effect.

On the farm, also, there are many varieties of trees commonly planted in the West and also evergreen seedlings of about a dozen varieties, including pines (jack, Scotch and bull) and



Cabbage Patch at Aldermere

[Photo by courtesy G.T.Fx

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LIMBER NECK IN POULTRY

What are the cause, symptoms and cure for what is known as limber neck among fowls? We have lost some the past summer and fall. It was hard to tell what was the cause. Some would mope around for some days, then die. Others would be all right seemingly one day, and the next day would not have the power to lift their heads any more than if there were no bone in their necks. They have had the run of the stable and stack yards all summer and fall; are in good condition, and have had milk and vegetables almost every day.-

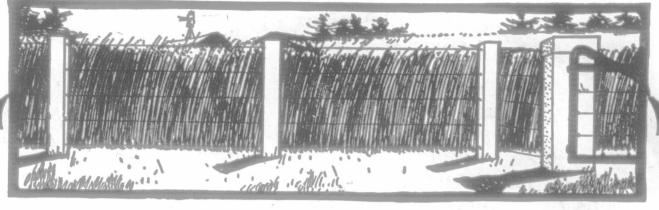
Ans. - Limber neck is a condition, or disease, of poultry brought about usually from overfeeding, or the long continued feeding on some particular kind of grain, or other indigestible food. The symptoms have been very well depicted by you in your query. The reason the neck becomes so placid is the poisons resulting from indigestion are absorbed and produce paralysis of the brain, from which they seldom, if ever, recover. The treatment is rarely successful, but, as a preventative, they should have a change of grain, or mixed grains should be fed not too abundantly with fresh vegetables and plenty of clean pure water and exercise. In your case the cause may be found in feeding milk too freely. It is generally advisable to kill those affected, and change the feed of those not yet showing any symptoms. Isolate the sick birds from the healthy

EGGS BOUGHT ON GRADE In eastern America the authorities are worked up over the frequency with which bad eggs are supplied to the un-suspecting consumer. As usual, various means of putting an end to such imposition are suggested. At the National Poultry, Butter and Egg convention held in Chicago recently, practical means of eliminating the circulation of eggs unfit for food were discussed

by Henry Brownell, as follows It is impossible for any man long to continue successful in supplying food for the people, unless that food be furnished in the best, purest and most wholesome form. This general statement applies with multiplied force to There is only one way to stop the circulation of eggs unfit for food and that is to fill up the markets with eggs that are fit for food. It is possible to so gather eggs and to so grade,

liver a perfectly good egg. Let us consider for a moment what and where an egg is when first produced. Unlike some other articles of food, an egg is at its very best when it is first laid. Man has never discovered any way of improving an egg. The fresh laid egg is perfect. Eggs are laid in the country, frequently far from market. Many farmers produce eggs several miles from the nearest market. A peddling wagon may call once a week or the farmer may go to market with his eggs. It has been my experience that the worst carelessness in handling eggs is always that which comes first. More eggs are spoiled and more eggs are tainted in the hands of the farmers, the country storekeeper and the peddler than are ever spoiled or tainted after they are received by the shipper. All shippers should be prepared to keep their eggs cool, clean and dry, and if the shipper receives good eggs, it is not very difficult to get the eggs to market and to get them to the consumer while still good. The difficulty has been to keep the eggs good until they get into the hands of the shipper.

The producing of eggs is a business. Eggs are produced for profit. The only way to get the producer of eggs to take care of his eggs is to make it profitable for him to do so. We can educate the producer, we can tell him that a large percentage of his eggs are spoiled, but until we show him that it is money in his pocket to take care of his eggs,



Fence Posts oncrete

are sightly, strong, permanent.

Concrete is, in many localities, cheaper than wood, for fence posts, and more durable than stone, brick or iron. Our book,

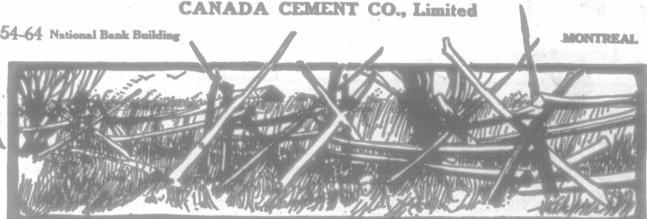
"What The Farmer Can Do With Concrete" is sent FREE.

It tells how to make, not only fence posts, but walks, curbs, horse blocks, barn foundations, feeding floors, well curbs, drinking troughs, silos, dairies, and many other farm utilities where cleanliness, strength and durability are required. Many of these things are simple and inexpen-

sive to make, and may easily be put together in

your spare time. The book carefully and simply & tells all. The regular price of the book is 50c. 3 We are distributing free, a limited number, however, and charging up the cost to advertising. That's why you get your copy free, if you sign the coupon and send it to-day. Do it now.

You may send me a copy of "What the Farmer Can Do With Concrete." Address



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Careful farmers judge the cost of a machine by its value. They know that a cheap price means nothing if quality is lacking. And they know that it is genuine economy to pay a little more for a machine that is worth double.

A high standard of values has been set by I H C Cream Harvesters. No one without I H C facilities can ever reach that standard. Today an I H C Cream Harvester simply means the utmost for your money—the biggest value you can get at any price.

If you investigate all cream separators you will appreciate I H C features and advantages all the more.

Comparison proves I H C superiority in materials, construction, and efficiency. For instance, you will find that I H C Cream Harvesters are the only separators with gears which are dust and milk proof and at the same time easily accessible; I H C Cream Harvesters are protected against wear at all points by phosphor bronze bushings; I H C Cream Harvesters are constructed with larger spindles, shafts, and bearings than any other separator, insuring greater efficiency and durability; the I H C bowl is free from slots or minute crevices-that is why it is so remarkably easy to clean.

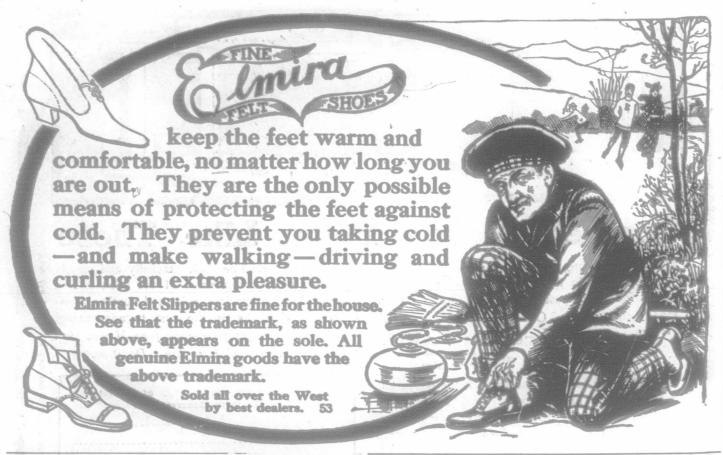
You will find an I H C in a style and size to meet your needs. Dairymaid is chain drive—Bluebell is gear drive. Each is made in four sizes, from 350 to 850 pounds capacity. The I H C local dealer will be glad to explain the above I H C Cream Harvester advantages and many others, all of which have much to do with your dairy profits. Ask him for catalogues and all information, or, write nearest branch house for the information desired.

CANADIAN BRANCHES—International Harvester Company of America at Brandon, Calgary, Edmonton, Hamilton, London, Montreal, Ottawa, Regina, Saskatoon, St. John, Winnipeg, Yorkton. INTERNATIONAL HARVESTER COMPANY OF AMERICA Chicago U S A (Incorporated)

I H C Service Bureau

The purpose of this Bureau is to furnish armers with information on better farming. If you have any worthy question concerning soils. crops, pests, fertilizer, stock, etc., write to the I H C Service Bureau, and learn what our experts and others have found out concerning those subjects.





Health Means Power!

Power Spells Success!



No matter what may be your work; whether you are a teamster, a blacksmith, a salesman or a college professor, it's the man with the greatest Vitality in any walk in life that wins I It's the man who jumps out of bed in the morning after eight hours' refreshing sleep, the man with a clear head, a strong heart and warm, red blood dancing through his veins, who makes

Give me a man who crawls around, "Packing" a load of Dyspepsia, dullness of eye, a drowsy brain, a lame back, tired legs and a woeful look in his face, and I can transform him into a man of brawn and brain with my Electric Belt—a man full of life and action, able to face the world,

It's a grand thing to meet a healthy, hearty, cheery man. He gives your hand a grip that's an inspiration—the very tones of his voice proclaim his power; he radiates cordiality like a depot stove radiates heat. What is the secret of his success? Energy Magnetism, a body full of animal vitality.

This Magnet force is within reach of all of us. Thousands and thousands of men—force-ful men, successful men, today—came to me wrecked in mind and body, and I have restored them to health and happiness with my Electric Belt. These men are shouting the praises of my Belt, and they'll gladly tell you what my great appliance has done for them.

Electricity is life! It's the greatest curative force in the world to-day. I have developed a method of applying this force to the body by means of my Belt that has resulted in more actual cures than any system of applying Electricity yet devised by man.

It restores the Vital Powers to men and women. It makes strong and healthy men and women out of mental and physical wrecks, It is a positive and lasting cure for Indigestion (Dyspepsia). Constipation, Headache, Drowsiness, Rheumatism, Neuralgia, Lumbago. Sciatica, Weakness of the Back, Weakness of the Nervous System, Sleeplessness (Inso mia). It overcomes the terrible results of early indiscretions, It restores the vitality that is lost. It corrects every sign of mental and physical breakdown. Here I give you a few samples of the kind of letters I receive every day by the score from people who have found Health, Strength and Happiness through the use of my Belt:

MR. G. PRATT, TREHERNE, MAN., MR. SAMUEL QUINN, EDMONTON, MR. B. H. DOHERTY, FROBISHER

writes:—
"Dear Sir:—I have worn your Belt as I ALTA., expresses himself in these words:— SASK., has this to say:—should for over a month now, and I feel as if should for over a month now, and I feel as if life was worth living. I now spring at everything and never quit until it is done. I now have no pains if I bend my back, and no racking headaches. People say, "Is that the young fellow that used to walk around like an old man? What has come over him?" If they ask me the question I will tell them My ambitions have risen sky-high; before, they were in the grave. I cannot thank you enough"

"Dear Sir:—I am getting along nicely now. My nervous system is getting stronger and I feel better in every way. I can recommend it very highly to any one suffering fro n these troubles, as I was a living it to any one who may wish to use one. I would not be without it now for far more than it cost me. You may use this as you wish."

If you come to me and I tell you that I can cure you. I've got confidence enough in my treatment to take all the chances. I am curing hundreds of weak men and women every day, and I know what I can cure and what I can't. If you will secure me you may

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The Dr. McLaughlin Electric Belt is a cure for all signs of Breakdown in Men and Women. The Vitality of the body is tricity—the force in the Nerve Cells. My Electric Belt will give you back this power and enable you to fight on in the Battle of Life!

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there are very few producers who will use sufficient care.

I see samples of sugar in a retail grocery, marked at various prices, each grade of sugar marked a different price. There are half a dozen different grades of sugar and the difference between cheapest and the highest is only two cents per pound. This sugar is all sweet and fit to eat. Would you count it good business if the grocerman instead of offering his sugar at different prices for each grade, would simply say: It is too much bother. I am going to dump the sugar all in one pile; it is all sweet and all good to eat, and I am going to sell all my sugar at six cents per pound. If our grocerman should do that, he would immediately become the laughing stock of his neighbors, and perhaps he would be sent to an insane

Turn from the sugar a moment to eggs. In most primary egg markets, you will In most primary egg markets, you will find only one price paid for eggs, good eggs, bad eggs, little eggs, big eggs, dirty eggs all thrown together all count at one price. Practically all of the farmers of this country sell eggs in a market that does not distinguish between values. There is no incentive for the farmer to keep his eggs good. There the farmer to keep his eggs good. There is no incentive for him to get them to market. The difference in the value of different grades of eggs is very much greater than the difference in the value of sugar. For twelve years I have been buying eggs on a graded basis. At present we are paying 32, 26 and 22c. for the three grades of eggs, which we make, that are good to eat. not paying anything at all for the rotten. which is the fourth grade. So far as we know, we have no competitors who buy eggs in this way. So far as we know all of our competitors pay a straight price for mixed grades of eggs. During the twelve years we have been buying eggs graded, we have seen the average quality of the stock in our territory raised until our second grade is now a better egg than any first grade that we could possibly make under the old system of buying.

There is nothing hard or nothing difficult in buying eggs graded. The first thing necessary to do is to get a man who has had proper training in a microscopical laboratory, so that he can make a careful study of eggs in order to get the data from which to train the men who do the egg grading. After this data is secured, it is only necessary to train a bunch of intelligent men to grade eggs the way you want it done, then pay for each grade exactly what it is worth. This hangs up a premium for good stock. It pays the man who produces the good eggs good money, and it pays the man who produces the rotten eggs nothing at all. It puts each producer of eggs on his mettle. Each producer starts out to give you the best possible egg he can. They tention when cate them how to handle their eggs They will read everything they can find on the proper handling of eggs. They will watch the result obtained by their neighbors and will watch the result of their own efforts.

This system of paying for eggs insures a constant supply of good stock to the shipper. I am well aware of the fact that each shipper must watch his expense account, and I am well aware of the fact that this way of handling eggs increase expenses. If, however, this system of buying eggs increases the value of the eggs faster than it increases expense accounts it becomes a profitable system. It has been our experience that the grading of eggs has enabled us to put on the market stock of a higher value than we could ever make under the old system. We meet very little competition. are enabled to get a satisfactory price for our good stock and have never been able to get a surplus. Because of the fact that we pay a high price for our good eggs, we can lower our price for cheap stock to a point where they will show us a profit.

This system of handling eggs is simply an application of common sense to the egg business. We appeal to you, who have not tried it, to make an effort to encourage the farmers of this fertile land to help us to furnish our people with the best supply of eggs that any of the peoples of the earth receive.

The Peerless W ne reeriess way jests, industry in Canada,—is this busines

s, higher prices, assured

Main Line, Port Arthur to Vancouver and intermedia a branch lines

22nd, 1910, to January 2, 1911

1911 astinct at highest prices-and Pos for sportation is another is another for amy tant paribhah Selevina Tot Peer est had As yand es awife a wife in the leave to put you in touch with

SOIL FERTILITY AND PERMANENT crowned kings, money kings and land **AGRICULTURE**

(Continued from page 1846)

and Dr. Cameron. The theory in brief commerce are its brief that each plant throws of a toxic branches break as betance into the soil which is posson. Chapter thilosophy. branches break, and the trediding as absurd and says that there are no "Let us never forget that the culf facts to support it. Also that it is only tivation of the earth is the most in the position which Prof. Whitney occupies as the head of the bureau of futuritoria country which has lost it. soils, which makes it necessary to con-taste for agric lture. If there is one sider the theory in a discussion of the lesson of history that is unmistakable, subject. Right down through the central is that national strength lies very near turies man has recognized the importance of maintaining the productiveness 2019 The farm is the basis of all industrial of the soil as assuming the productiveness 2019 The farm is the basis of all industrial of the soil as assuring the progress of objet more roany years this country has Varre (B. C. 116 to 28), rote: "T

Cull not each year the largest and the

made the mistake of unduly assisting manufacture commerce and other activities that inter in cities, at the expense 11 ff m." is sines J. Hill

thoughtful palers and the people t car libration and per-Still will the collaboration bough chosen with soil, and the permanent agriculture is ains indu is in

The Peerless Way is more than merely a tasten for raising guident of the Peerless Way is more than merely a tasten for raising guident the Large that a call the Large that are the large than the large llan ye did os son the land Grad Grade eggs has put probits being your fina returnilimitan Jahuary 5,000 Columella insthusiev centuris A.D.t. luogas moderal calves are wont to fly

eye, The Peerless Way will show you how to "make good" in hatching and brooding-in rearing your chicks-in feeding them right-and bringing them most quickly to market size or to egg luction to the profit sh

Watering Place on J. Williamson's Farm, Near Indian Head

persuaded that our earth has grown. We used to skin him, sell or buy, old, as a man grows old. The sterility Today he's come into his own. of our fields is to be imputed to out the hen that laid the golden egg. doings, because we hand over the cultivation of them to the unreasoning Just now is taken down a peg management of ignorant and unskillful. By hens of ordinary lay. slaves." Columella also recommended. The farmer smiles and taken the growing of alfalfa and vetches, commending their virtues in the highest

Baron Von Liebig wrote in 1859, relative to these sayings and quoted from Golumella. He says: "All these rules had, as history tells us, only a temporary effect. They hastened the decay of Roman agriculture, and the The straw when he had threshed the farmer ultimately found that he had exhausted all his expedients to keep his fields fruitful and reap remunerative grove from them. Even in Columella's time, the produce of the land was only four-fold."

He quotes Abraham Lincoln as follows: "The thought recurs that education, cultivated thought, can best be combined with agricultural labor, or any labor, on the principle of thorough work, that careless, half performed, slovenly work makes no place for such combination; and thorough work, again renders sufficient the smallest quantity of ground to each man; and this, again, conforms to what must occur in a world less inclined to wars and more devoted ation must increase rapidly, more rapidly than in former times, and ere long the most valuable of all arts will be the Money to Loan at Current Rates art of deriving a comfortable subsistence from the smallest area of soil. No community whose every member possesses this art can ever be the victim of oppression in any of its forms. Such community will be alike independent of

sense will ever permit himself to be When at the price we moan and groan

The farmer smiles and takes away Our money like a bold brigand.
We used to own him once to day,

Alas ! we're eating from his hand. The farmer has an eye for biz, Full well he knows all flesh is grass, Also that all the grass is his.

He used to be a docile ass. To whom, in pity, we could pass

grain. To-day he's in another class He's come into his own again. He's smiling at the price of wheat, He's tickled at the price of hay He's laughing at the price of meat,

The cost of living makes him gay. For things are coming fast his way, He isn't buying gold bricks now And mortgaging the farm to pay; At last the farmer's learning how. His ox, his ass, his swine, his sheep. And all his stocks are over par, No more on sore backed mules he'll

creep, He's riding in a touring car, His wagon's hitched onto a star. His lean and fallow years are passed, He's going fast, he's going far, He's laughing best, he's laughing last.

L'Envoi The farmer's garnering the dust
And adding shekels to his hoard, For board with him the whole world must.

And he can fix the price of board.

-New York Sun.

kings."
"Public prosperity is like a tree industry and CRAND agriculture is its roots; industry and commerce are its branches and leaves. If the root suffers, the leaver fall, the And Othing Thomas Rhilly THE DOUBLE SON (SON OF THE PERSON NAMED OF THE Por Steamship Passarers Nevember 11 to December at AGENCY FOR ALL LINES of the full par cular Order Purp

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For further particulars apply to the state of the state o

it rectify information that income to the control of the control o SYNOPSIS OF CANADIAN NORTHWEST LAND REGULATIONS

ANY person who is sole hear of a family or any male over eighteen years old, may homestead a quarter-section of available of inion land in Manitoba, Saskatchewanter be tax. The applicant must appear in person at the Dominion Lands Agency or Sub-agency for the district. Entry by procy may be under a tany agency, on certain conditions by lather, mother, son, daughter; brother be latter of intending homesteader.

Luting Six months residence from and cultivation of the land in each of three years. A homesteader may live within mine miles of his homestead on a farm of all case at actes solely owned and occupied by him at the solely owned and occupied by him at the solely owned and occupied by him as the action alongside of his floritestead. The \$3.00 per acre Duties.—Must reside six months in each of six rears from date of homestead entry (including the time required to earn homestead patent) and cultivate fifty acres extra.

A homesteader who has exhausted his homestead right and cannot obtain a pre-emption may take a purchased homestead in certain districts. Price \$3.00, per, acre... Duties.—Must winded six months in each of three years, cultivate fifty acres and erect a house worth \$300.00.

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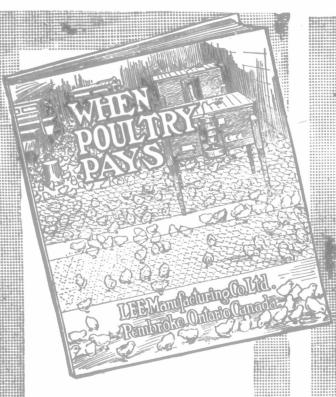
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The Peerless Way is more than merely a system for raising poultry—it is a system that is complete from the moment the chick is hatched until either the fowl or its eggs has put profits into your pocket. The Peerless Way is both a poultry-raising system and a co-operative marketing method.

The Peerless Way will show you how to "make good" in hatching and brooding-in rearing your chicks-in feeding them right—and bringing them most quickly to market size or to egg production - to the profit stage. hands every cent's worth of your en-The Peerless Way will find you a tire output at topnotch figures.

market at highest prices-and for spot cash! That is an important part of the service. The Peerless Way guarantees absolutely to put you in touch with buyers who will take off your

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Canada, with all her nat- 15,000 Canadian poultryural advantages and her men to the possibilities of special adaptability to the the industry - and CAN show you. The Peerless Way will show you the unequalled opportunity for extension that exists in the poultry business how its numerous and varied branches are capable of rhythmic combination and unison; it will illustrate how the business may be adapted to your locality, either as an individual business of considerable size or as a work secondary to some other, either upon enlarged or confined limits.

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When you stop to consider how the prices of both poultry and eggs to the consumer have doubled within the last ten years, you can readily see that the market must be a tremendous money-maker for someone. Why should not you be among those who are taking the easy profits? You can be as successful as any poultry-raiser in Canada if you will only let The Peerless Way show you how — if you will only follow out our methods, and devote just a little time and more or less common-sense to the work. Poultry-raising is a long way from being over-done. One user of The Peerless Way sold nearly a quarter of a million fowl last year over twenty-five carloads. And he started just as YOU can start—with practically no investment at all. Do not put this off—it only costs a two-cent stamp to know—write now for the book and the proof. Put the burden of proof up to us and make us prove our case—we can. Merely send the coupon.

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