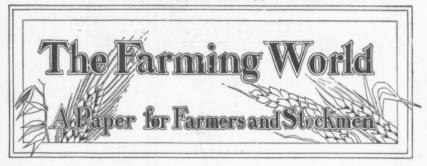
TORONTO, CANADA

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THE FARMING WORLD

16 October, 1905



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Stump Pulling has been reduced to a science by the Smith Grubber Co., La Cross, Wis., U.S.A., in their im-proved machine. It makes the clear-ing of land a pleasure and not a drudgery. Parties having stumpy land should write for their lates: cata-land should write for their lates: cata-tion that Fasaura Wongs when do-ing so. ing so.

Shrieking and Shooting It is a comfort to realize when we hear people talking about "the good old times that used to be," that in some respects, at least, we show more common sense today. One in-stance is in our attitude toward wo.

men. There was a time when a woman was expected to shriek and faint in almost any emergency. It was even

There was a time when a woman was expected to shrick kan faint in almost any emergency. It was even considered an attractive exhibition of dependence. Today we pardon lack of nerve and self-possession on a woman's partaimost as little as in a many. The girl who rides and shoots has to shrick and faint. No small factor in bringing this welcome change about has been the campaign carried on by the J. Ste-vens Arms & Tool Company, 300 High street. Chicopee Falls, Mass., makers of the famous Stevens fre-arms, who have introduced our girls to the healthy, up-building sport of outload have introduced our girls to the healthy, up-building sport of outload a bounding. The torgany have rieties of lightweight rifles, shorquns and pistols, which girls all over the country are using today. It contains much useful and interesting informa-tion on such points as the selection, care and testing of fraerms, besides notes on ammunition, targets, etc.

cents in stamps, to cover postage.

AND CANADIAN FARM AND HOME

763

Eatons Prepay Charges

No matter where you live—in Ontario, Quebec, New Brunswick, Nova Scotia, or Prince Edward Island—**we will deliver free** to your nearest railway station goods ordered to the amount of \$25.00 and over, with the exception of Furniture, Springs, Mattresses, Refrigerators, Organs, Stoves, Baby Carriages, Salt, Sugar and Flour.

If you cannot make your order large enough to take advantage of this offer **join with your neighbors** and send the orders together and we will forward the goods in one shipment, but wrapped separately, so that there will be no trouble in distributing them.

To order properly it is necessary to have a copy of our catalogue. Our Fall and Winter Catalogue has just been issued and it is sent free on request. It is an interesting publication, containing as it does, a list of the goods we sell and the prices we charge. The garments described and illustrated, both for men and women, represent the latest creations in European and American centres of fashion. They are made in our own factories, and for style, fit and finish are equal to much custom work costing double the money.

The prices are only possible when middlemen's profits are eliminated.

Ready-to-wear garments are but few of the lines we sell, and the savings made in these through buying from us, illustrate the savings that may be effected in every department of our gigantic institution.

Our efforts have always been to extend **the benefit of the city store**. By prepaying charges we deliver goods to your nearest station at exactly the same prices as are paid in our Toronto store, and through the medium of our Catalogue, you have the same splendid variety.

Write for the Catalogue without delay.



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16 October, 1905

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Quebec In the article on Quebec, publish-stated that the Provincial Govern-ment grants a premum to assist in the construction of cheese factories and creameries to the extent of from one to two hundred dollars, accord-ing to the dimensions of the build-ing. We have learned since then that this is not wholly correct. A prem-imm is granted in certain cases as when the first factory is built in a newly settled locality, where the quantity of milk is not large to start with.

The Farming World

And Canadian Farm and Home

Vor. XXIV

TORONTO, 16 OCTOBER, 1005

No. 20

Flour-Mill By-Products

I N the marketing of Canada's big wheat crop it might be well to consider the advantages that would accrue to the country if all or nearly all of this year's crop were converted into flour at home. As is usual, the great balk of the western crop of upwards of 90,000,000 bushels and the eastern crop of one-third of that amount will be exported as wheat, which means that it will be converted into flour abroad, and other countries, instead of our own, will reap the benefits to be derived from the by-products resulting from the milling process.

Years ago the by-products of the mills were thrown away as useless. Today they are the most profitable part of the output. Wheat by-products are of more economic importance as feed for live stock than the grain itself. Fully twenty-five per cent. of all the wheat ground into flour every year is put on the market in the form of bran and shorts or middlings. We have no figures showing the value of the bran produced in Canada, even under our somewhat limited milling facilities, but it is estimated that the annual value of the bran produced in the United States, both from grinding homegrown and foreign Canadian wheats is \$25,000,000. Some mills have reduced the business to a science and are producing standard grades of bran the same as standard grades of flour.

The feeding value of wheat bran is beyond question. Average wheat bran contains from 14 to 18 per cent. of protein, a most valuable and expensive nutrient of foods, 4 to 5 per cent. of fat, and 55 per cent. of carbohydrates. It contains about 8 per cent. of fibre, from one-third to onehalf of which is capable of being digested and utilized by farm animals. Compared with other grains and farm products, wheat bran contains a larger amount of protein and fat than corn, oats, rye, barley, spelt or the various varieties of wheat. These grains usually contain from 10 to 14 per cent. of protein and from 2 to 5 per cent. of fat. Under favorable conditions animals can digest about 75 per cent, of the nutrients of wheat bran. Bran is an excellent food, when judiciously fed, for horses, cattle, sheep and swine. As a condiment, it has exceptional value.

While the chief value of wheat brau or middlings is as a food for stock, yet it has a large value as a fertilizer for the land. There is no farm grain which produces as valuable manure as bran. A ton of wheat

bran contains 55 pounds of nitrogen, 52 pounds of phosphoric acid and 30 pounds of potash. If purchased in the form of a commercial fertilizer, the nitrogen would cost 15 cents per lb., the phosphoric acid and potash each 5 cents per lb, making the manuring value of a ton of wheat bran worth \$12.90. As about 80 per cent. of the fertility of the foods consumed by live stock is returned to the soil, \$10.32 would be the value of the fertility of bran returned to the soil when fed to live stock.

Therefore, if we consider only the value of bran as a food and a fertilizer we have a very strong argument in favor of grinding the bulk of our wheat in Canada. If this were done the farmer would have more choice feeding material for his horses, cattle, sheep and swine, and during the feeding process would greatly in-

RENEWAL TIME

Do not forget your old friend, THE FARMING WORLD, when renewal time comes round. A

glance at your subscription label will show if your year is up. If it is an early remittance of your subscription for another year will give us the greatest of pleasure.

If you can secure your neighbor as a subscriber we will make the two subscriptions to you for \$1.00. Look up the other special offers in this issue. You cannot afford to be without THE FARM-ING WORLD.

To dalla dalla dalla dalla

crease the productive power of his land. On the virgin prairies of the west the soil may be rich enough to produce paying crops for many years. But the time will come, if it has not already arrived on the older farms of Manitoba, when the soil must be nourished, and that right well, if anything like paying crops of wheat are to be produced.

It would be well, therefore, to begin laying the foundation early. If every grain elevator in the west or in the east for that matter, had milling facilities, and all or nearly all the wheat delivered were ground into flour on the spot, the farmer would have a market at his own door and there would be fewer complaints regarding the grain standard. The by-products could be utilized for feeding stock and maintaining the fertility of the land. In addition, there would be a new industry in every town or village worth having. When wheat is exported the land gives of its fertility to produce the crop. If this is not restored by some means the land's power to produce will soon deteriorate. .52

Bacon Hogs Scarce: Good and Bad Bring Same Price

Competition among the packers for hogs appears to be unusually keen and prices rule steady and high for this season. At this date a year ago select bacon hogs sold on Toronto market for \$5.35, and lights and fats for \$5.10 per cwt., or at about \$5.00 per cwt. at country points. Prices today are nearly \$1.00 per cwt. higher and if the keen competition of the past few months among the packers continues, are likely to remain high for a time. We are approaching the season, if, indeed, we have not already entered upon it, when prices drop to the lowest level of the year, due, so the packer claims, to large arrivals of poultry and game on the English market, lessening the de-mand for bacon. Whether the usual drop will come this season remains to be seen. At the moment it looks as if it would not be as serious as in the past.

As we have stated, the usual fall slump is due to the lessening of the demand for bacon in the English market; there may be another reason. It is during the fall months that our farmers have more hogs to sell and it may be that this has some influence in lowering prices. This fall hogs seem to be very scarce and the packer is compelled to keep up the price in order to get a supply sufficient to keep his packing plant running. And many of them are not doing this at the present time and are bringing in American hogs in bond in order to keep their contracts for the British market

While the large increase in the number of packing plants in recent years and the keen competition for hogs is of the greatest benefit to the farmer, it tends to injure and not to improve the quality of the product. In order to get hogs the packer, or rather the drover, does not discriminate but pays one price per lb. for selects, fats or lights, consequently there is no incentive to the farmer to produce selects as he can get as much for the badly bred, ill-fed hog as for the select bacon hog. The situation is, therefore, not without cause for alarm. As was shown in the discussion on this topic in these columns the past summer, there is very great danger of our export bacon trade falling behind unless some greater inducement is given the farmer to produce the select bacon hog. If this type of hog is worth more to the packer than either lights or fats, then he ought to pay the farmer a higher price for it. This in our opinion is the only way of keeping up and improving the quality of our bacon products.

Government sales of Yorkshire swine are announced for points in Lambton and Kent counties this morth, with a view to disseminating the bacon breed among the farmers of these districts. While these sales will, no doubt, aid very materially in attaining this object, we cannot but think that much more would be accomplished in this direction if by education or otherwise, the packer could be induced to pay a higher premium than he is now doing for select bacon hogs.

M The Farmer's Orchard

It is all too true that the average Ontario farmer pays little or no attention to his orchard. He usually reasons that if the crop is a good one the price will not be high enough to pay for the cost of picking and marketing. On the other hand, if the price is high, as is the case this season, the crop will be so poor as not to be worth while bothering with.

While this process of reasoning may have some foundation, in fact, it might apply to any other branch of farming. If there is a big wheat crop prices will not be as high as when the crop all over the country is a poor one, and yet farmers grow wheat year after year as a money-making proposition. The same is true of other farm crops. Whether the price is high or low especial attention is given to their cultivation and harvesting. But with the orchard it is different. It is in the majority of cases left to shift for itself. Unpruned, unsprayed and neglected it soon becomes an eyesore in the community. If a few apples are grown, sufficient for family use, the farmer is satisfied. As a moneymaking concern, year in and year out, it is never considered.

This should not be. Given the same care and treatment that the other branches of the farm get, the orchard will pay and pay well. If a few acres are given up for the orchard and money expended in planting trees, then it will pay to give some attention to realizing a profit on the investment. Of course, the average farmer is handicapped in managing his orchard as compared with the fruit specialist. Particularly is this true in connection with spraying, a very necessary operation these days, if clean fruit is desired. The marketing is also a difficult task and often the small grower is at the mercy of the packer and shipper and where the deal is completed, feels that he has little to pay for his trouble.

But there is a remedy for all this. The co-operative Fruit Growers' Association is essentially a farmers' organization. While it will prove advantageous to the large grower, it is the small grower of fruit who will benefit most by it. It will aid him materially in the picking, packing, and marketing of his fruit. We do not know whether spraying has been taken up in a general way by the cooperative society or not. But if not, it should be. A co-operative society with a power sprayer can do a great deal to improve the fruit crop of its members, and thus encourage the farmer to take better care of his orchard.

38

Test Your Cows

During a year when the milk flow is large and prices high, dairymen are apt to run away with the idea that everything is lovely, that all cows are good cows and are returning them a profit. But do not be too sure about it. A poor cow certainly has a better chance to pay for her keep when cheese and butter are selling at a high figure than when the market is at a low ebb. But does she do so? That is the question that every dairyman should answer for himself.

The only sure and safe way to ans, wer this question is to test each individual cow. It is not too late now to make a test. In fact the farmer has more time just now for conducting a test than during any other part of the season, and every dairyman owes it to himself and to his pocketbook to make it. Besides, it is not fair to the good cow to have her making up the shortage of the poor cow each month.

A testing outfit does not cost much and will pay for itself in one test. On page 724 of last issue a complete outfit, that we can recommend, was advertised for \$5.00. With an outfit of this kind a dairyman can test his cows individually for a week and know exactly whether a cow is paying for her keep or not. A cow that cannot pay for her keep during 1905 should he relegated to oblivion in short order, as she will be a burden to her owner for all time to come.

Test your cows; find out what each one is doing and dairying will become both pleasant and profitable.

.48

New Ontario Institute

On October 24 a meeting will be held at New Liskeard to organize a Farmers' Institute for the Temiskaming district. The Hon. Mr. Monteith, Minister of Agriculture, will be present and give an address.

.52

This is a good time to clean up around the fences. What is more unsightly than dirty fence corners, Clean fields and clean fence corners add greatly to the value of the farm.

EDITORIAL NOTES

This is delightful weather for fall work on the farm. Under these favorable conditions the farmer who is not up with his work will have no good excuse to make.

The packers are bringing in more American hogs. It is a "hoggish" kind of a thing to do. If they would play fair all the year round the farmers in Canada would produce all the hogs required.

Mr. A. W. Donly, Canadian Commercial Agent in Mexico, reports that the wheat market there has sudden. ly become very stringent, and if samples of Canadian wheat are forwarded good business may be done.

The farmer who raises good horses is having his innings just now. Never, perhaps, in the history of this country have prices for good horses been as high as at the present time. It is to be hoped they will continue so.

How the price of cheese keeps up! The old brindle cow is in a good way this season to earn the price of her winter's keep. If she does not do so she should be relegated to oblivion, and placed among the "has beens" of the dairy.

Is it not about time for the horse breeders to get a move on, if they desire the Minister of Avericulture to carry out their wishes regarding the advancement of the business rext season. This matter has been delayed long enough. Prompt action is necessary.

Annual agricultural shows are held at Rosebank and Port Elizabeth, South Africa, in February and April, respectively. Commercial Agent Kittson suggests that animals sent from Canada for sale should be exhibited at these shows. There is no use in sending animals of poor quality. Only the best is wanted.

At a meeting of the British Dairy Farmers Association regrets were expressed that the government had failed to pass the butter bill preventing the sale of water-logged butter or the adding of water to butter. It was claimed that most of this came from the colonies. They should have add. ed, "with the exception of Camada."

Dairy Commissioner Ruddick returned last week from Great Britain, Canadian cheese is steadily gaining ground there, and with a little more attention to the details in making will meet all competition. Butter is not so favorably situated. It has to meet competition from all parts of the world. Owing to scarcify this season, Canadian butter has been more asked for, and as the merchants have found it satisfactory, Mr. Ruddick thinks the future for our butter in the British market is very bright.

Managing Brood Mares

Too little attention is given to the proper management of brood mares durproper management of broad mares dur-ing the winter season, or to be more exact, during the entire season when they are carrying their young. The total loss of foals is far more frequent than it ought to be, both before the proper time when they should be born one frequent cause of loss is contagoins abortion usually following from debili-tating diseases such as pneumonia or tating diseases such as pneumonia or

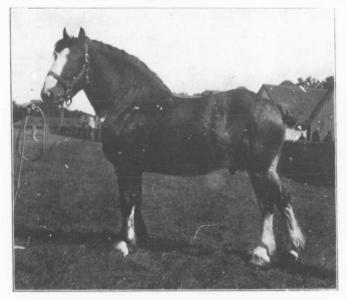
influenza. Abortion, however, is frequently caus-ed by one or the other of the following conditions: (1) Slipping wilde the ground is icy in the winter season and more particularly when such slipping is accompanied by a fall; (2) injury

abused when they are not obstinate, for no other reason than that the at-tendant is possessed of an unbridled temper which he does not try to curb

In addition to the above causes may be added improper food, that is fodder or grain that is moldy or too constipat-ing in its nature. If brood mares are given a good quality of fodder, it is not so very important that it shall be nutritive, provided sufficient grain is given along with such fodder to maingiven along with such folder to main-tain a sufficient degree of flesh. Some field roots, as carrots and a bran nash occasionally, and now and then a hitle oil cake will exercise a salutary influ-ence upon the health of the mare. It is greatly important that every rea-

city. Carriage horse, highstepper, or city. Carriage horse, highstepper, or whatever he may show indications of turning out suitable for, there is us-ually a strong desire on the part of the owner that his early training should be of a character calculated to still further fit him for the pur-

Indeed, it is the rule, rather than the exception, to find, wherever a colt shows some indications of aptitude, that the owner has given at least some superficial study to the matter, and has proceeded to put into prac-tion as cell owner property as he contice as well or as poorly as he can, the results of his investigation. The the results of his investigation. The result is that the flash-going colt is never put to work, but his feet are loaded down with heavy iron, for this is used by trainers to increase the knee action. When he is driven he is very apt to be seen struggling



The Clydesda's Stallion Lord Mac, a get of the McGregor stallion Montrose Mac, imported by G. G. Stewart, Howick, Que

from other vicious horses with whom they may be running at large in a yard they may be running at large in a yard or paddock; (3) getting into snow drifts or into marshy places fall and spring and straining themselves in the effort to get out; (4) injuring them-selves in going in and out of the doors of box stalls where these swing on hinges; (5) in other instances, they receive injury from trying to crush through places where the openings are too narrow for them.

too narrow for them. It may not be an easy matter in all instances to prevent brood mares from injury in the cases named, but there is another cause, which it is possible to protect them from. We refer to the abuse they frequently receive from at-tendants. Brood mares differ in the ease with which they are managed. Some are obstinate and will not comply readily with all the plans of the atten-dant. Such obstinate is followed with abuse. In other instances, they are

sonable effort should be made to prevent loss of foals either before or after birth. Getting them is a somewhat costly process, hence the aim should be to reduce the instances of loss to the lowest possible minimum. That such reduction is possible is clearly shown by the great difference in the relative amount of loss in breeding studs .- Prof. Shaw

.12 Training the Hackney Colt

The breeding of the Hackney colt is to a very large extent a new phase of the live stock business with Can-adian farmers. It has proved a move for the better and it is now not un-common to meet with colts through-out the country which show fine con-formation, combined with useful size and very often, too, a promise of meeting within the next year or two, the requirements of one or another of the fancy leather purposes of the and fighting with a heavy curb bit, for that is the way it is done by the fancy leather man in the showring in the city, and so the curb bit is put on and kept on, though the colt hights it all the time. Of course, the curb bit, with the line loose and the bit shack, is just the same as any other bit, so the line is of a far not so very uncommon a thing to see a promising colt driven with a curb bit, against which he is boring with blackened tongue, and instead curb bif, against which he is boring with blackened tongue, and instead of learning the nice carriage which a proper use of the curb bit imparts. he is learning only one thing, and that is to hate and to fight, the curb bit. The preparatory training of this class of horse is far better left to the skill and judgment of the ex-perienced trainer, for on the care and attention with which the first few lessons are given, depend to a large extent, the value of the future educated horse. Many, in fact, all our farcy horsemen, would rather get the colt to hand with no more training than is necessary to use him to drive on the road and work on is here. This way have the outer of the second and work on the here that have the second and work of the second and work on it here. This way have any detrimental. The following de-scription of how the colt is given his first lessons with the curb bit will show the fallaxy of trying to use it in the ordinary way: The colt is itted with a bridle hav-ing a curb bit, and a sure of the second is a heavy girth, in which, set at each side of the withers, are two strong sticks about two feet long, set at an angle of about sixty degrees. These are supported, with Draces to the all educated horse. Many, in fact,

sticks about two feet long, set at an angle of about sixty degrees. These are supported with braces to the crupper, and from the top of each the lines are loosely connected to each side of the bit. Thus arranged, the colt is turned into a paddock alone, the lesson to be learned being that, as long as he does not bore against the bit he will be comfort-able. This is the great lesson, and as soon as well learned, the lines are shortened until the head is held in a nice jaunty manner, with chin well in to the breast. This is also a deli-cate piece of business and requires in to the breast. This is also a deli-cate piece of business and requires the greatest care, for only long ex-perience can show exactly how well the colt can be brought to carry him-

the greatest catc, for only long exi-the colt can be brought to carry him-self. These lessons learned, he is then taught to drive, and this again requires great patience, skill, and trained delicacy of touch. He must drive with his head held wicely in position with a loose rein, for con-tinuous pressure on the bit is not to be thought of. He must be trained to move freely and to proughly re-spond to the delicate 'witch' of the inc't to turn, to st' unit be seen that the control to turn, to st' unit be seen that the trained deline such should at-tempt is use, as only harm can re-sult from it. Perhaps in a less mea-sure, but just as surely it is a mis-take to attempt by any artificial means to enhance the natural adapt-ability of the highsterping colt in the eye of the experienced fancy leather man. He sees too much of that kind micety what the situation is. It will never make him pay more money for the colt, and may result in his reject-ing along the server of the sec-ting along the sec-

38 The Vanner

The Vanner Writing of the horses used on the vans in Great Britain, a correspondent of the English Live Stock Journal asys: "It may be asked, in view of the Whit-suntide removals, Who breeds the van-ner? Take him in a flower delivery van. bent on wall room decorations for a Mayfair ball, shifting a piano, the hiring period of which has elapsed, or taking up his side in one of the big superhorses the seems always equal to taking up his side in one of the big pantechnicons, he seems always equal to his work—work which he does not seem in any way specially bred for. There is withal a look of resignation about him which says, 'The owner of my mother meant me for the barouche or the hunting field, but things somehow went wrong.' That vanners were never specing field, but things somehow went wrong.' That vanners were never spec-ially bred seems certain; at least, we never yet met a man who put horse to mare with the avowed object of get-ting a vanner. Van horses, parcel cart-ers, old-time 'bussers and cavalty re-mounts are all in their way the minor tickets of the lottery lag of the travel-ing hazar, the little bits of pasteboard that entitle one to something of small value. When these animals grow up a bit, being timeously castrated, they widen out, thicken and amplify them-

selves in every direction, and when they arrive at six years old would astonish their breeders, who parted with them at two years old. All these van horses are wearers, and with fairly good treatment will stand the stones on the average a year more than heavy cart horses of the same age. A great deal depends of the same age. A great deal depends upon the breeding and the early treat-nient, but if the conformation and ac-tion is all right blood tells. It would be a pity if the vanner, though undoubt-edly a misfit so far as breeding is con-It would cerned, should have his future entirely neglected."

38 A Cattle Shipper's View on the Embargo Question

The following by Mr. Donald The following by Mr. Donald Munro, a prominent agent in the ex-port cattle trade of Montreal, shows how some of the shipping trade view the cattle embargo question: "When the embargo was imposed in 1892, it was considered unjust, and was at that time a hardship to the

majority of our farmers, as there was only a small number of them equipped to feed their cattle to a finish. Prior to feed their cattle to a finish. Prior to that time, Canada did a large ex-port business in stockers, and as the port business in stockers, and as the expenses for transportation, etc., were heavy, we had to ship the very best kinds that the country prodaced, con-sequently the Scotch feeders were able to stock their farms, with the best at prices that nearly put every ex-porter in this country into bankruptey. These cattie were fed by them for periods ranging from three to eight periods ranging from three to eight

periods ranging from three to eight months, and were generally marketed about the time our first shipments from Montreal began to arrive in the British markets. "As all our choice stockers were exported, our own, feeders had to buy the cuport, and try the impossibility of making choice exporters out of them; but when they reached the marof making choice exporters out of them; but when they reached the mar-kets on the other side, the owners had to face the competition of our own Scotch-fed Canadians, with the result that our cattle were always rated a second class article, and sold at fully one cent per pound less than either home-fed or States cattle. The imposition of the embargo, however, changed these conditions very ma-terially, and instead of being a perchanged these conditions very ma-terially, and instead of being a per-manent injury, it turned out to be a blessing in disguise to Canada. It compelled our farmers to change their methods of farming. They now do compelled our tarmers to the series of the s profits that the other fellows got prior to 1892. At that time, we had no winter steamship service from any of our own ports, and when naviga-tion closed here, about the end of November, we had little else to do than keep our toes warm around the stove, waiting patiently for the ships to return in the spring, when we would again get into communication with the outside world.

with the outside world. "During the period that we had the privilege of free entrance into the interior markets of Great Britain, we had to keep up a barrier between our-selves and the United States, with the result that no United States cattle could be shipped from Canadian ports. After this privilege was withdrawn, we removed the barrier, and now a very large and profitable business is done from our summer and winter ports with United States cattle.

"Shortly after the imposition of the embargo, the old Beaver Line Steamship Company opened up a fort-nightly service from the port of St. John, with what success all Canada

now knows. To-day there are three to four steamers weekly sailing from that port, and nearly all of them fully loaded with cattle, not stockers, but the inished article, shipped from our own farms in the west and from Chicago.

own larms in the west and from Chicago. "We are also shipping to-day nearly double the numbers that we did prior to bby, all fed to a finish in this to the star ship werricerid development is largely due to the cattle grade, as all the steamship men admit that they could not run their steamers if they had no cattle; therefore, if the em-bargo was removed before we could participate in the so-catle benefit of shipping our cattle to the interior markets of Great Britain, we would be compelled to take a step backward and again raise the barrier between ourselves and the biggest cattle mar-ket in the world. The nevitable re-salt would be that we could not more than half supply the ships now com-ing to our ports, with their cattle cargoes, which is so indispensable to ing to our ports, with their cat cargoes, which is so indispensable them; and i steamers could not cargoes, which is so indispensable to them; and 's teamers could not get cargoes here, they would be compelled to head for some other port. There-fore, before we in Canada should raise any further cry about the in-justice of the present embargo, we should stop to environ the benefits. bargo, which was, and in some quar-ters is still, considered to be a source of loss and injustice to our country.

COUNT THE LOSS

"If, on the other hand, we count the loss that the stoppage of ship-ment of American cattle via Canadian ports would mean to our railroads. steamships, and farmers, who supply all the feed consumed by them, and and all the feed consumed by them, and contrast this with the very precarious business of being permitted to supply the British farmers with stockers, I consider that in a very few years we would be back to the conditions pre-vailing prior to 1892. "In this country we require protec-

tion in farming, as well as in manu facturing; and the Imperial Govern acturing, and the imperial Govern-ment, by imposing the embargo against our cattle, unknowingly gave our farmers the best measure of protection that it was possible for them

tection that it was possible for them to get. The Scotch feeders miss our cattle much more than we miss them as buyeff, but they certainly descree cleavoring to get he-scribtans in nen-edy but Canada will be serving her own interests best by letting well enough alone."

Clydesdale Stud Book

The new Clydesdale Stud Book is to hand containing registrations made up to the end of the year 1903. There are 609 stallions and 1904 mares re-corded within its pages, in all a to-tal of 1604 registrations, and the fin-ance report of the society shows an expenditure of \$25,1057 with a bal-ance on hand of \$59,033. These fig-ures convey some idea of the increas-ed activity of the horse breeding in-terests of the great Dominion of Canada. The new Clydesdale Stud Book is

.12 Best Farm Paper Ever Read

Dest paim Paper Der Keal J. W. Whennan, Prince Co., P.E.I., writes: "As a subscriber to your pa-per for some time, I can say that it is the best farm paper that I have ever read. Hoping it may readers such excellent practical instruction as it has given in the past."

Anthrax in Cattle

(Written for THE FARMING WORLD.)

Authrax may be described as a fatal form of disease due to the presence of a microbe in the blood and all the disease in which the blood and all the disease bacillus anthratics, a long, non-mobile rod, was familiar to veterinary pathologists long before its significance was appreciated. Splenic apoglexy was the ordinary name of the disease. It attacked cattle in plethoric condition, and, on the other hand, cattle that had been exposed to certain unsanitary influences. Some years ago a practical a articulturist of large experience had no hesitation in saying that splenic apoplexy was not contagious, but was caused by an animal progressing too rapidly and mak-

Some years ago a practical agriculturist of large experience had no hesiattion in saying that splenic apoplexy was not contagious, but was caused by an animal progressing too rapidly and making too runch blood in a short time. He had seen it occur among poor cattle suddenly put no to good living, but more frequently among fat cattle put on to some fresh keeping. He had seen more than one instance where the same field in pasture had killed grazing oxen, sheep and horses, and when grown for hay, the hay had proved fatal.

EXPLODED THEORIES

This idea that overfeeding was a

FARMING WORLD.) anthrax bac to note that the suggestion of contaminated land was so marvellously near the truth that a very slight extension of the theory could hardly have failed to dispel the whole mystery.

A CONTAGIOUS DISEASE

A totanamous discussion of the present day to state what the real explanation should have been. Contaminated lands real use the spore of the bacillus anthracis. Sudden outbreaks of anthrax among stall fed animals, in which died suddenly, clearly pointed to the use of some article of food contaminated more or less with the anthrax infective matter, so that the one or two animals which were unlucky enough to have the poisoned provender supplied to them were the victims. The same thing may be said in explanation of other outbreaks which were attributed to want of water, cleaning foul ditches or exposing the animals to any unsanitary conditions, and the fact still remains that while our knowledge of anthrax is so far complet that we can safely affirm with geons, butchers and others—have had their hands and arms smeared with the blood necessarily crowded with the anthrax bacill without suffering any harm; but now and then an unlucky individual happens to have a small abrasion, and the merest spot which permits the entrance into the blood stream of the organism is sufficient, and he becomes the victim of an attack which is serious and quite possibly fatal.

the entrance into the blood stream of the organism is sufficient, and he becomes the victim of an attack which is serious and quite possibly fatal. Recent investigations justify a strong Suspicion that many outbreaks are caused by the introduction of the germs of anthrax in feeding stuffs, especially in linseed and cotion cake, but it is admitted 'hat there is really no practical test of the consignment of such material from anthrax norsignment fauch material from anthrax system the position of a disease which once existed among the farming community.

W. R. GILBERT,

Ottawa Winter Fair May Lose Grant The Hon. Mr. Monteith. Provincial Minister of Agriculture, has notified the city of Ottawa that unless a permetent live stock show building were bailt as promised without further delay the government grant for the



ampion Herefords at Ottawa, 1995. Female-Imported cow, Sunflower, bred by our late Queen Victoria. Male-Two-year old, Orion. Property of W. H. Hunter & Son, The Maples, Ont.

cause of splenic apoplexy was decidedly popular for years, but, in addition, the act of cleaning out ditches and carting the refuse material onto the land where it could be reached by the cattle was also considered a satisfactory solution of an outbreak.

cattle was also considered a satisfactory solution of an outbreak. In one case of the suidle appearance diverginore can be the conclusion in the first instance that the animals had been overfield, but the owner explained to him his system of dieting, which did not err on the side of liberality, and went on to explain that he never allowed the animals any vater. This induced the enquirer to report that the want of water was sufficient cause for the outbreak. It is particularly worthy of notice the all the case of incohering anthrax were quite correctly stated. In other case besides those mentioned, the cause of an outbreak was put down to the land being contaminated by excessive manuring. Outbreaks occurred, for example, on common lands which had been fed over for years by animals of all kinds. In other cases a particular meadow had been employed for feeding sheep, with the addition of abundant their matural state would only support one sheep to the acer would be made to support six or more. It is interesting regard to any single case that the animal that has suffered has been in some way inoculated externally or internally with the germs of the authraw organism. It is frequently impossible to do more than guess at the channel through with the organism phasiben conveyed. It is not an exaggeration to say that there is hardly anything that can be brought upon a farm or in any way come in contact with animals that may not contain the microbe which will produce the discase. In some parts hores bought for manurial purposes have brought an attack of the disease, and it is a well known fact that contaminated wool is responsible for the outbracks of the wool-sorters' disease, which is anthrax of the human subject.

Woll-softer's thecase, which is anticase of the human subject. Under these circumstances it is a wonder that the disease has never assumed the epizootic character, like cattle plague and pleuro-preumonia, but it power of the anthrax spore is limited by an insurrountable condition. To be injurious it must find a part of the system of the invaded animal which will allow it to enter the blood stream, otherwise its presence is absolutely harmless. Cases have been recorded from time to time of the fatal inoculation of persons engaged in post-mortem examinations of animals dead of anthrax, but thousands of people-veterinary surWinter Fair would be withdrawn. Three years ago the contract was let for the crection of a building at Lansdowne Park, for the accommodation of the Eastern Ontario Winter Fair, which had been started in Ottawa a year or two previous. The work was begun and in a fair way to completion when the structure colocompletion when the structure colosame misfortune when nearing completion. In the meantime temporary buildings, not altogether suitable for a winter show, were provided. This year there has been some hesitancy in going ahead with the erection of the building and the government have announced their intention of withdrawing the grant, which amounts to given that a suitable building will be built.

built. It will be a real loss to the farmers of Eastern Ontario if the Winter Fair in the Capital City is discontinued, as it assuredly will be, if a suitable building is not provided and the government grant withdrawn.

38

Here's to the ships of the ocean; Here's to the women of the land : May the former be well rigged, And the latter be well manned.

Keep More Sheep

Keep more sneep There is great activity among sheep breeders these days, and the business of sheep raising is on a better foot-ing than it has been for some time. Information bearing upon the industry will, therefore, be helpful. For the reason we are the following questions, and trust there will be a liberal re-sonnse: sponse

What breed of sheep do you

(2) Have you found them profit-able for mutton and wool produc-tion?

(3) How has the lamb crop been this season? Have you lost many lambs, and what has been the cause? (4) Is the worrying of sheep by dogs common in your district? What dogs common doing for lessent.

means would you advise for lessen-ing this evil?

ing this evil? (5) Does it pay to wash sheep? We shall be glad to have answers from our readers to some or all of the questions, and any further in-formation bearing upon the sheep in-dustry that they may care to send. A large number of replies would en-able us to form accurate conclusions or ascerate invocation theorem of sheep or ascerate invocation theorem of sheep or ascerate invocation theorem of theorem on several important phases of sheep breeding.

The following reply has been re-ceived to the above questions:

Shropshires.
 We find them very profitable for both mutton and wool production and excellent foragers.

excellent toragers. 3. The lamb crop has been fair this season, mostly all being early lambs. Mortality has been low, only a few having died, due to simply na-

a few having died, due to simply na-tural causes. 4. No; not a single case has been reported in this vicinity for quite a number of years. No extra precau-tions have been taken to prevent dogs from worrying sheep, as the number of dogs in this district is compara-tively small. There is a tax of one dollar on every dog, and the town-ship allows a bounty of five dollars on any dog kiled while worrying sheep. Would advise a strict en-forcement of all the laws pertaining sheep. Would advise a strict en-forcement of all the laws pertaining to dogs and also that these stray dogs be shot, as it is these that create the mischief.

mischief. 5. Yes, it pays us in that we get a higher price for the season's clip than we would for the unwashed wool. Think the extra labor incurred is well repaid in the higher price re-ceived for the washed wool.

M. C. HERNER, Waterloo Co., Ont.

.16 Fall Care of Sheep

Fail Care of sheep No stock on the farm receives as little care as the sheep. No stock will do as well under neglect, and yet a little time and attention can be profitably given the flock during the late summer and early fail. There is no stock that relishes a change of pasture more than the sheep under some diff second quicker to its change of pasture more than the sheep and none will respond quicker to its beneficial influence. I have often notic-ed how ravenously they attacked the weeds, briars and fresh herbage that weeds, briars and tresh increage time grow at the roadside while removing them from one pasture to another. At this time of year 1 induces for the different weeds most farms can well be turn ount by freount by frequently changing to another, and in way many weeds to another, and many weeds may not only be entirely destroyed, but converted into good wool and mutton, just now the best paying products of the farm. Many weeds usually spring up in the new seeding after hurvest, not only detrimental to the seeding but giving to the farm an unsightly, sloven-ly appearance. If a flock of sheep is turned on at the proper time they will THE FARMING WORLD



turned off. Another decided advantage of frequent change of pasture is that while the sheep is a ravenous and almost omnivorous feeder on all vegetation it is particularly dainty about eating anything that has been defiled by itself. It the old pasture can have a rest of a week or two and has been wasned by a good shower it will be far more paiatable, the sheep will eat it with greater avidity and will soon give evidence of thrift and improvement

The careful flockmaster never lets his sheep suffer from lack of water. Besuce sheep will live without water, Be-cause sheep will live without water they are often neglected, and during the dry weather that prevails in the fall they suffer from thirst, as their gaunt,

they suffer from thirst, as their gaunt, shrunken appearance plaindy indicates. At this time of year it is not at all uncommon to hear a farmer apologize for the unbrirky appearance of his sheep by saying, "They haint had water reg-ular and they're kind of drifed up." Go-ing into winter quarters in this condi-tion their muteries is difficult and car tion their wintering is difficult and un-satisfactory. The sheep is particularly hard to bring up into a thrifty condi-tion when once allowed to run down, especially on dry feed in cold weather Their wintering costs twice what it would if they were in good thrifty con-dition at the beginning of winter. A little attention to their fall care is time well spent.—E. P. .12

Multiplying Power of Swine

Multiplying Power of Swine The story is told of two men driving in one of the western states by the barn of a successful farmer, noticed a thrifty looking sow pig crossed the road be-fore them. They remarked about the beauty of the little animal and the older of the two said: "You may not believe me, but I can take that very little sow and in four years with her increase buy reighborhood and have enough hogs left to stock up the farm and pay a good share of the expense in their keep-ing." ing

At first thought the statement does not seem possible, but a little figuring will prove that it is not far from the not

We will suppose that the sow and We will suppose that the sow and all her female increase will farrow for the first time when they are a year old and will give birth to a litter every six months thereafter; and that each litter will average six pigs-three males and, with the mother, four females. In eight-months the as second litter. een months she has a second litter. This brings the total up to seven sows and six males. After two years have gone this sow has her third litter and gone this sow has her third litter and each of the three sows of her first litter also farrow. This brings our number up to forty females and thirty-nine males. In three years the sows of her first, second and third litters will far-row, and in addition nine that were born three each to the three of her first litter. This increases the number to 97 females and 96 mules. Thus it were compared to 90 females. and 96 males. Thus it goes on in pro-gressions till the end of four years we have a total of 598 females and 597 males, hogs enough to buy a good sized

.58

Between Times

My small friend Dorothy was left to entertain an old friend of the family the other day. The old friend—you know the inane way grown ups have with children—at once began to ask question

"Do you like going to school?" he inouired.

"Yes," said Dorothy, "I like going to school and I like coming home. It's staying there between times that sticks me

Tenant—I came to inform you, sir, that my cellar is full of water. Landlord—Well, what of it? You surely did not expect a cellar full of champagne for \$10 a month, did you?

AND CANADIAN FARM AND HOME



Sweepstakes Abordeen-Angus bull, Halifax Exhibition, 1905. Property of C. R. Harris, Halifax.

More Maritime Exhibitions

Specially Reported for THE FARMING WORLD.

New Brunswick Provincial Exhibition

New Brunswick Frovincial Exhibition Fredericton exhibition, like its pre-decessor at Halifax, had its days of sunshine and also of rain. Thus it was that the attendance fell below that of other years. Nevertheless, those who attended saw good exhi-bits of grains, grasses, roots, yege-tables and fruits, as well as live book. stock.

stock. Following so closely after Halifax, the stock did not arrive till the early hours of Saturday morning, so it was Monday before any classes were judged, except light horses. Many of the winners were winners at Hali-fax, so need only be mentioned here.

HORSES

Increase In Thoroughbreds, Mobekat, by Honkes In Thoroughbreds, Mobekat, by Hondleur, was worthy of mention. In Hackneys, H. Jewett's Royalist and Royal Briton, winners at Halias, were beaten by Stampede, a horse of substance, quality and action and a good sire, for many of his colts were shown—one being considered the best harness horse in the abow. In Standard-breds three years and upwards, Montrose Jr. again can be the from, hough at Halias. Here he had considerable competition. Phair's Korneda was easily first in the 2-year-old class. The other class-but from, hough at Halias. Here he had considerable competition. In harness horse there were not many entries, but of fair quality, Scovel's chestant colt by Stampede was by all odds the best. In roadsters the classes were larger. Dr. Frown's immy others lacked fit-ing and training. The lady driver's prize went to Miss Mullins, though were close competitors. The colt classes were all well filled

MISS MCKeen and Mrs. Richard's were close competitors. The colt classes were all well filled and some excellent little fellows were shown. The Hackney Stampede, the French coach Remus and the Ger-man coach Belshezzar, had at least some eight or ten each to prove that they were worth size.

some eight or ten each to prove that they were worthy sires. In Clydesdale stallions the competi-tion was keen. Youa's Copyright by Baron's Pride, had a close second in his half brother-Gerarai. These are really horses of quality and substance, particularly Copyright. In fillies,

E FARING WORLA Dickson's Ormstown Lass is worthy of mention-a sweet colt of substance, quality and straight, true action, but these mentioned are just a few of the very best. Jewett's Bonny Macqueen, a somewhat undersized horse, has proved a wonderfully valuable horse in this province, judging from his colts. He is certainly micking well with the rather small marcs and pro-ducing good colts. The medium draft classes brought out some good horses, but none worthy of special mention, and the same may be said of the heavy draft classes.

classes.

CATTLE

CATTLE In Shorthorns, Archibald and Thompson again divided the honors, though Snowball got a good share. The diploma and herd prizes went to Archibald. Thompson got first in z-year-old heifers, and Archibald in yearlings. In bull calves, Snowball had the right sort. The Shorthorns as a whole were a very good exhibit for show classes excelled the Hali-for show fax show.

fax show. In Herefords, W. W. Black had the only entry, but his cattle will stand a good deal of beating anywhere. Harris was alone in Aberdeen-An-gus cattle but he had animals of merit in every class. The Devons, though not as large as we should like to

see, were a nice breedy lot, and were admired by ail who saw them. In fat cattle, Black and Thompson left nothing-dividing the money equally between them.

The dairy breeds were all well re-The dairy breeds were all well re-presented, probably the Ayrshires were the strongest. Archibald, Par-lee and Fisher were the chiel exhib-tors and honors were pretty evenly divided. This time Archibald won sweepstakes on his aged buil with Parlee a close second. In all the other closes very little change took other than the placing of pretting of the Halifas placing of pretting of splendid animals were shown in every class.

class. The Holsteins were next strongest in point of numbers Logan Bros., Giles and Barton exhibited the larg-est number of this breed, Logan Bros. est number of this breed. Logan Bros. captured the most of the prizes. They were first in 2-year-old and yearling bulls and second in bull calves, Giles getting first. In cows, 4-years-old and upwards, all went to Logan Bros., also in three, two and yearling hei-fers. The herd and sweepstake prizes also went their way. Jetseys were not a strong class in num, Bull and the strong class in num, Brossen and Strong class in set the strong of the animal were excellent, but on the other hand some were very poor specimens of the

excellent, but on the other hand some were very poor specimens of the breed. McMonagh captured nearly all the red tickets, though the others showed some good animals. Feeding has its place. This was easily seen in this class. The Guernseys were all shown by either McMonagh or Corning. They divided up the money pretty evenly and showed very creditable specimens of the breed. The Carnefac special prizes brought out a fair exhibit of calves, and at-tracted no little attention.

SHEEP

Sheep were not a large eshibit, though taken as a whole they were a fair lot. In Cotswolds, Corning, Parlee and Innes were the only es-hibitors. They showed animals of right type, and in fair condition. The Lefecters were few in num-ber and only fair in quality. Parlee and Moore owned most of them. The Detector is were in nice condition principal exhibitor. Logan Bros. cap-ured the lion's share of the prizes in the Stropshire classes, though Lt-Governor Snowball's flock came in for a share. for a share. The fat sheep were good animals

The fat sheep were good animals and generally in good condition though few in numbers. This is a class that ought to be better filled at all our exhibitions. The exhibit of swine was rather



The Yorkshire Boar Summerhill Long Lad, first at Toronto and London Fairs, 1905. at 20 months old, 670 lbs. Bred and owned by D. C. Flatt & Son, Millgrove, Ont. Weight

small for a provincial exhibition, and small for a provincial exhibition, and the quality was just fair, classing them altogether. There were none there are expected mention, though them altogether. There were none worthy of especial mention, though Rogers had a few good Yorkshires had they been fitted as they might have been. A little care and fitting would have made a great deal of difference in the show ring. This is true in all classes and sections.

.18 P. E. I. Exhibition

The exhibition at Charlottetown fol-owed close upon that at Frederic-on. Old Sol smiled down upon those lowed ton. Old Sol smiled down upon those who came on the opening day and again at the close, but not a penny's worth of sunshine on the two days which draw the largest crowds. One Islander confessed that all the wea-ther clerks had failed—in fact it was uneassible to make an it ble are the impossible to make suitable weather for such times.

Despite the inclement weather, the The people of the little province are collection was a success in every way. The people of the little province are to be congratulated upon the splen-did exhibits of grain, fruits, vegetables and roots, as well as in live stock.

HORSES

The horse exhibit was in most classes away ahead of the other Maritime fairs. Another point wor-thy of notice here was the good con-dition the horses were brought out in and with few exceptions this was true in all the live stock classes.

true in all the live stock classes. Thoroughbred stallions were not numerous, but one at least, Wood-burn, is more than a common horse. A good individual and a very good sire for all his colts were good ones. The carriage classes were just fair-the carriage classes were just fair-

ly well filled but in some cases really good animals were shown that would

good animals were shown that would stand close scrutiny anywhere as they had style, action and speed. Standardbreds were out is full force and as many as twen-ty faced the judge at one time, any one of which a man might be proud of. Aged stallions were not as good as one would expect from the young stock, but it seems the bases had some mimals of merit in each class, particularly the winner of classes had some animals of merit in each class, particularly the winner of the two-year-old class. The fillies in each class were fully better than the stallions and were a nice promis-ing lot, some being extra good. In the saddle classes the entries were few and though a few good in-

were few and though a few good in-dividuals were shown, as a whole they were just a fair lot. Clydesdales are gaining quite a foothold on the Island as the heavy draft horse. As yet the number is not large, but the quality is good. H. Crockett's Goldinder is the only

not rarge, but the quarty is good. H. Crocketts Galdinder is the only-trate our statement, though other good ones were there. This horse certainly shows the best Clydesdale character as well as draft type. Three-year-old and in fact all the filles were a very good lot. Though grades, they showed the Clydesdale type very clearly and the effect of using sires of the right stamp to common at shows was a walking race for teams. This, we think, is a good competition, for a draft horse that can walk fast is worth twenty-five per even the more than a slow horse five per cent. more than a slow horse and hence breeding with an eye to this should be encouraged.

REFE CATTLE

were mainly represented by Short-horns and though the entries were not numerous some animals of merit were shown. Irving Cass and Boy-yer were the principal exhibitors and they divided up the prizes very equal.

ly among them. Irving's aged bull was a nice sappy fellow, low set and deep, and Cass' young bull was a nicely turned chap, though not quite massive enough. Boyyer's sweepmassive enough. Boyyer's sweep-stake female was a very good heifer, true to type and a good beef animal. The grades were just a fair lot, and owing to the scarcity of feed last winter, were in just fair condition.

DAIRY CATTLE

The leading dairy breeds were out in large numbers and made a splendid showing. The Ayrshire class was first judged. Buils three years old and upwards brought out a goodbut mind jouged, bouts three years by number. First prize went to John Morrison on a large typical animal with Bagnall's and Webster's entries following closely. Simmons won on two-year-olds, Easton Bros, on year-lings and calves. The yearling bull was a particularly good animal, smooth and stylish. In aged cows, Easton Bros, were again first; Sim-mons on two-year-olds and yearlings. I only an texhibe thyper Fergu but failed in that company to get higher than third. The Jerseys were a splendid lot. The aged bull class, and in fat all the bull classes, had animals of splen-did conformation and quality. The

did conformation and quality. did conformation and quality. The Island Jerseys have long been well known and this year's exhibit was fully up to the mark. Simmons got first in three-year-olds, Hill on two-year-olds, Watts on yearlings, and Haslan on calves. In aged cows Es-Haslan on caives. In aged cows Es-ery got first on a cow of good type, a splendid barrel, long quarters and plenty of lung room. Simmons was first in two-year-olds; Gill in year-lings and calves. The herd prize was awarded to Clark for the best bred and owned by the exhibitor.

and owned by the exhibitor. The Guernsey class contained some of the best entries of the show. Ro-per Bros', aged bull was not only lirst in his class but was also award-ed sweepstakes as the best dairy sire in the show, shough he had a close second and competitor in Simmons' aged Jersey. Both are excellent ani-mals. Roper Bros. won all the other first prizes on bulls and most of the prizes on females. Their exhibit was good and brought out in splendid shape. shape

shape. In the aged bull class of Holsteins the judge had his work cut out for him. All the animals were far off type and poor specimens of the breed. Two-year-olds were a good class. First prize went to Bryne Bros on a very smooth, higely turnpreed. Two-pear-olds were a good class. First prize went to Bryne Bros. on a very smooth, nicely turn-ed animal. The yearling prize and sweepstakes was awarded to Samuel Dickey, while J. Tweedy won the red on calves. The cow class was well filled and brought out a very uniform lot of Holsteins. Heartz won first and sweepstakes on a large roomy cow of excellent quality, that carried a splendid udder in factors. a splendid udder-almost an ideal Ayrshire udder, in fact. Dickey, Bos-well and Lea won the rest of the prizes in that class.

A large number of grades were shown in each class and some sec-tions brought out as high as fifteen. The cows were a good useful lot but there were a few cows that would but there were a lew cows that would have to be considered in any dairy class. All showed that they had pure blood close up, the result of using purebred sires. The agricultural so-cieties are doing splendid work in bringing in and spreading males of breeding and quity.

SHEEP

were a fairly large exhibit when we consider that this little province has only three counties and just one hun-dred thousand people, all told.

The Leicesters were of good quality ity and well fitted. Boswell, Lane and Clarke were the chief exhibitors. Boswell captured nearly all the firsts.

Dowen captured nearly all the firsts. In Cotswolds, Tweedie and Robert-son had it all to themselves, while Boswell Bros. owned all the Lincolons Furness and Boyyer showed most of the Southdowns. Furness was always, an easy first. He has a spleridd flock. One of his own breeding beat his imported Ontario ram, and right-ly so as they showed.

The Shropshires were a good lot of The Shropshires were a good lot of low set, well feshed and wooled sheep. Geo. Boswell and C. Nunn took most of the prizes in the order named. In Oxfords, P. and S. Lane had the only entries. The Suffolks were all owned by P. Lane. Thesse wool, thou lit he special prizes for wool, though the shrops were so close that it took an expert to decide between them. between them.

SWINE

were a particularly good exhibit. The animals in all the classes showed breeding, care and feeding, and as the judge remarked, would stand a good deal of beating in any show ring. P. E. I, may be proud of the start she has made in the great hog industry. The breeders have certainindustry. The breed ly tried for the best.

industry. The breaders have certain ju tried for the best. In Berkshires, Brodie, Lane, Drake and Ingo Bros. were the exhibitors. Brodie had the largest exhibit and won most of the prizes. Wilson and Durham blood shows close up in his hogs. This year Colbeck, the larg-est breeder of Yorks, did not show. but Crockett had the best of it in most drackett had liday and Roper Bros. were there with excellent ani-most dracket had the best of it in most dracket had the best of it in most dracket had the best of it in Kopers had most of the Tams, their aged sow would come in for sweep-stakes in many a Canadian show ring. Toronto not excepted, some years. Quite a number of good bacon hogs were shown. They were hardly as long bodied as those at Toronto but otherwise were just as good. Alto-gether the management of the exhi-gether the management of the exhi-war they rat is comparatuated on the Vary they are is comparatuated on the Vary they are is comparatuated on the vary they rat is comparatuated on the Vary they rat is threaded to make it what it was intended. an arrientificar way they ran it from start to finish. Everything was done to make it what it was intended, an agricultural display of the resources of the 1s-land. Not a fakir or juggler was al-lowed on the grounds. Nothing was there but what all might look upon and learn from-good, not evil. And it paid expenses!



Dairy Work in Ontario

Though the season nearing its close has presented greater difficulties to the producer and make than for several seasons past, the Department of Agriculture is greatly encouraged by the results which are attending their efforts to improve the quality of cheese and butter in Ontario. Cheese has ruled very uniform and of gen-eral high quality. To every syndicate there are at least two or three inferior factories in which it is utterly impossible for even a first class maker to turn out a high class article. Then there are always in many districts two or three far-

the result. It is true that some in-structors have accomplished a great deal more than others, but this is largely due to the willingness on the part of the people to comply with the requests made. The number of cheese reported as being faulty is a little greater this year than last, but it has been more difficult to manu-facture line cheese this season than facture spat owing to so much over work per a pait owing to so much over work per a pait owing to so of temperature. The percentage of rejections from the syndicated fac-tories, however, are less than that of last year. Of the total number of rejections about one-fourth were syn-

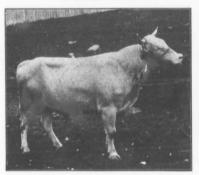
them, with hauling from railroad de-pot, about 75 cents per 100 pounds. This has been going on for two years, and if these firms can make if pay, why don't the farmers utilize it them-selves instead of selling it for 100 ro US with the farmers utilize it them-selves instead of selling it for 100 ro to the feed of selling and writing and writing and writing and time to get even a few of them to consent to make a fair, square study of the feeding value of skim milk? Why are so many of them content to haul the poorest kind of skim milk to haul the poorest kind of skim milk out, losing half or more of the feed-ing value of it and never make a move towards a reform? The other day we stopped to ad-



Champion two-year old Holstein, Artes Mercedes Posch, by Sir Abberkirk Posch. Property of Logan Bros., Amherst, N.S.



Two-year old Holstein Heifer, reserve champion. Property of Logan Bros.



Lord Dudley, Sweepstakes Ayrshire bull. Owned by W. H. Parlee



WINNERS AT NOVA SCOTIA PROVINCIAL EXHIBITION, 1905.

WINNERS mers who do not take proper care of the milk, thus lowering the quality of the output of the factories to which they are sending their milk. But notwithsta during these data are very encouraging. The follow-ing from a letter by Chief Instruc-tor Publow, of Eastern Ontario, speaks for itself: "I found the cheese to be very uni-form in make, and of good quality. The majority of the factories were clean and tidy and in a good state of repair, and I found when in conver-sation with the makers that they ap-preciated the work done by the in-structors. They invariably said that when instructions had been carried out that a marked improvement was

dicated factories, and the majority of these came from our poorest class of factories. Another reason for the greater number of rejections is that the standard of fine quality has been raised and owing to the high prices which have been ruling merchants have been more critical in their in-spection. spection. .58

The Feeding Value of Skim Milk

That it may be made of skini mins That it may be made of great value under certain conditions, is illustrat-ed by the fact reported in Hoard's Dairyman of two poultry buying goin cerns in Springfield, Mo., buying skin milk at 40 cents for ten gallons, pay-ing fifteen cents a can freight and providing the cans, making it cost

mire some very fine calves owned by a neighbor. We said to him that they were the finest calves we had ever seen him produce. He admitted it, and replied that it was due to feed-ing skim milk question has hardly been touched on the edges even by the majority of dairy farmers. Drink for Favor Patients

Drink for Fever Patients Fill quart bottle three-fourths full of fresh milk; to each add two table-spoonfuls of brewer's yeast and one tablespoonful of sugar syrup. Shake well; add milk to the top. Cork tightly, using wire. Keep in a cool, dark place. Compressed yeast can be used instead, but brewer's yeast gives a better flavor.

Romance in Cold Storage

She wrote her name upon an egg; A simple country girl was she, to, little egg, go forth," she said, "Go, little egg, go forth," sne salu, "And bring a sweetheart back to me."

Into the wide, wide world it went. Upon its shell the message plain, The maiden waited, waited on, With throbbing heart—but hope was vain.

The days, the weeks, the months flew

past, A year, another year, rolled by, Alas! no lover ventured near To dry the teardrops in her eye.

Sad at her casement in the night, She wondered where the egg could be, "O, voiceless moon, dost thou behold, Somewhere my true affinity?"

Somewhere, indeed, there was a man Whom fate had made for her to own; omewhere and waiting for the egg He led his loverless life alone.

The years sped on till gray and bent, She looked adown the road one day, And, trembling, saw an aged man, Approaching slowly on the way.

His locks were white, his shoulders

His locks were white, his shoulds bowed, bowed, He feebly leaned upon a cane, She looked—and in her faded cheeks The blush of roses glowed again.

"Twas he, her lover, come at last! "Are you Miss Mary Jones, I pray? I found your name upon an egg, I bought in market yesterday."

Cheated of youthful life and love, Kept parted till the journey's end, The evening of their wasted day, Together now they sadly spend

Newark Times. .58

Nova Scotia Travelling Dairy

The Nova scola raveling Dairy The Nova Scola ravelling dairy Guelph, was at Yarmouth during the exhibition there early this month, where a demonstration in butter-making was given. Miss Rose also judged the dairy profulct. During October the travelling dairy will give demonstrations through the Annapo-lis Valley.

Chair of Nature Study at St. Anne's

Chair of Nature Study at St Anne's Prof. John Britthin, late of the University of New Brunswick, has been appointed to the chair of Nature study in the new Macdonald Agricul-tural College now in course of erec-tion at St. Anne de Bellevue, Que. Prof. Brittain is a native of King's County, N. B. For many years he was a successful school teacher in his native province. Fifteen years ago he became professor of science in the Normal School, but resigned three years ago to take up work on ele-mentary science and school garden-ing in connection with Sir Wm. Mac-donald's rural school movement in the Maritime Provinces. A year ago he was appointed to the staff of the University of New Brunswick.





THE FARMING WORLD

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Advertise in The Farming World

16 October, 1905



Farming in Holland--No. III

Leeuwarden is the chief town in Fries land and situated in the most fertile part of the province. In consequence of its central situation at the junction of the principal roads and railways, it of the principal roads and railways, it is the centre for all business connected with agriculture, cattle breeding and diarying. This is clearly shown on market days and more especially at the cattle market. Although the be; cattle are sold at the farms, the cattle market can give a fair idea brien arket can give a fair idea brien on the present cattle market was erectr-1 in 1874. In 1875, the number of cattle in 1874. in 1874. In 1875 the number of cattle (all included) bought in the market was (all included) bought in the market was 104,756, of which 11,404 were milch cows. In 1893 the number of cattle amounted to 154,801, of which 41,368 were milch cows. When in 1894 the imwere milch cows. When in 1894 the im-port of cattle in Germany was prohibit-ed, the number of milch cows decreased to 28,010, but in 1904 the total number of cattle had again increased to 205,057, with 40,121 milch cows. The pigs and sheep are mostly killed for the London market.

As regards CO-OPERATIVE CREAMERIES

CO-OPERATIVE CREASERULES the first steam creamery in Friesland was established in the village of Warga Creameries from that date increased en a large scale. Nearly all co-operative creameries manufacture butter as well as cheese; in a single place only is there ameliac creameric munifecturing but; smaller creamery manufacturing buc er exclusively. The cow-keepers, whose a smaller creamery manufacturing 0ut-ter exclusively. The cow-keepers, whose concern is to keep their co-operativ-creamery going, have paid attention from the beginning to the improvement of the quality of butter and cheese. The small unequal lots of butter from the different forms are now realexed by the small unequal lots of butter from the different farms are now replaced by the larger amounts from the creamerics. This fact, together with the improved quality, has allowed Dutch butter to regain part of its reputation. In order to take care of the common intercas, and to contend with the common intercas, which there interset in the man. a society of those interested in the man 1a society of those interested in the man-facture of butter and cheese on a co-operative basis, was established in 1894, the members of which are mainly di-rectors and managers of co-operative creameries. In 1897 it was dissolved, and in its stead was established an "Association of Co-operative Creamer-ies in Friesland."

The association started with 43 mem-bers, and has at present 65. According to article 1 of its by-laws, the associa-tion has for its purpose the promotion of the interests of co-operative cream-

eries, and the following provisions are made: (1) Co-operation and mutual advice in all matters able to further in advice in all matters able to further an advantageous working of the creat-eries. (2) To promote the reputation and the sale of dary produce in the Netherlands and abroad. (3) To regu-larly test dairy produce. (4) To deposit a trade mark for common use. (3) The purchasing of the materials wanted (6) To detect and to contend with addi-terations of dairy moduce, and fraudus (b) To detect and to contend with addi-terations of dairy produce, and fraudu-lent practices in the butter and cheese trade. (7) To further regular and good dispatching of dairy produce. (8) To co-operate with other societies where beneficial to co-operative dairying. (9) To control the munesement of certise To control the management of active co-operative creameries. (10) To give the opportunity to get certificates of abilities for the various situations in creameries.

GOVERNMENT BRAND

The trade mark "Nedraw" of the above-named society has been trans-ferred to the association. It is now legally protected in the most important countries. As the Government mark on butter has given to all honest butter producers and traders a strong weapon against unfair competition, the associa-tion has furthered as much as possible the use of this Government mark. With the exception of two all the association creameries are under control, and have the Government mark on the butter. A regulation has been made, according A regulation has been made, according to which, in case the creamery, in con-sequence of fire, repair, etc., is not in a condition to work the milk, the sur-rounding creameries have to assist by taking the milk to work either wholf; or partly. When co-operative creameries are being established, the federation at-sists as much as possible by referring to the advantages of co-operative dair, ing, and mainly to those of large cream-eries, in order to obviate in this way the establishment of too small cream eries. eries. . The association has drawn up a

MODEL INSTRUCTION

for the staff of the creameries, the stipufor the starf of the creameries, the stipi-lations of which have made the condi-tion of the workmen very favorable. Before the insurance against accidents was enforced by law, the association $h_{\rm ad}$ was enforced by law, the association had enferred into an advantageous contra..t with an insurance company, by which all the workmen were insured. At present the workmen are lawfully insured agring

accidents during their business hours, and a mutual insurance against acci-dents when they are not at work has been established. Neither did the assobeen established. Neither did the asso-ciation lose sight of the benefits of in-struction to the staff. A teacher has now been e.gaged, who gives class les-sons in winter concerning the first theor-etic principles of the butter and cheese making

The association has taken to heart the improving of the productions by introducing

BUTTER AND CHEESE TESTS

The first are held twice a year, the samples of the various creameries being samples of the various creatients being tested by two experts, and the results communicated to all the creatmeries. After each third test, the butter which After each third test, the butter which has been sent in is exhibited, and the score made is published. At the end of the year, diplomas are awarded to those creameries the butter of which has excelled by good quality. Cheese is put to the test twice a year,

and these tests are arranged correspond-ingly; the nature of the products of course call for different arrangements, and, as a rule, the tests of butter and cheese have exerted a favorable influ-ence on the products. To the efforts of the association it is due that the steamers from Harlingen to England and the railway carriage to Belgium and france are supplied in summer with re-frigerator accommodation, which guarantees the butter arriving in good con-

dition. The association experiments on var-ious subjects in order to assist in solving practical questions within the sphere of making butter and cheese, the follow-ing may be mentioned here: Experiing may be mentioned here: Experi-ments on the intense refrigeration of cream; on the influence of early stab-ling of the milch cows; on the amount ling of the milch cows; on the amount of volatile acids in butter; on the con-nection between the fat properties of the solids in the cheese which has been obtained, and the relation between the amount of fat in the milk, and the quantity of butter and cheese which can be made out of it.

REGISTERED TRADE MARK

The Friesian Co-operative Company for exportation of milk products, has for its purposes the sale of products of co-operative creameries which have joined the society, and to improve the quality of these products. In order to attain this end the society commenced by having its trade mark protected, in order to supply all its productions with that mark, which could be recognized on the different markets as its pro-duction. To ensure good quality every The Friesian Co-operative Company that mark, which could be recognized on the different markets as its pro-duction. To ensure good quality every week, each cramery sends samples, and these are examined by experts, who estimates and the amount of water, which also influences the price to be paid. The maximum percentage of water allow-ed is 13 per cent. for salted, and 13½ per cent. for unsalted (fresh) butter. The society was established in 1898 with six creameries, while at present 23 large creameries, while at present 23 large creameries, have joined. The sale proportionally increased very much, and amounted during the last year, for but-ter only, to \$6,611 ext. Only those creameries in the province of, Friesland, and having constructed

of Friesland, and having constructed their creameries so that first-rate pro-

their creameries so that first-rate pro-ducts can with certainty be manufac-tured, are allowed to join the society. The Friesian Co-operative Company for export of milk products, also under-takes the sale of the different species of cheese which are made in the joined regular intervals to promote the au-formity of shape and quality.

CONDENSED MILK

The "Hollandia" 'Anglo-Dutch Milk and Food Company is a limited com-

pany, with factories a: Vlaardingen, Bol-sward, Purmerend, Heenvliet, Beemster, Limmen, and Gorinchen. The head of-fice is at Vlaardingen, and occupies it-self with a preparation of milk products and other articles of food. Its special-ties are sweetened and unsweetened

and other articles of food. Its special-tics are sweetened and unsweetened condensed milk, ceramery butter, cheese, sugar of milk, best sugar, and the re-fining of that sugar. In the milk factories at Vlaardingen, Bolsward, and Purmerend it is mostly condensed milk and butter that are made, but Bolsward also makes Gouda and Derby cheese. At Vlaardingen sugar of milk is made from time to time. The factories at Heenvilet, Beenster and Limmen are in the first place col-lecting stations for fresh milk, Limmen exclusively, while at Heenvilet is also creamery and Beenster cheese factory. In the 'Hollandia' milk factories, 39, 694,427 litres, equal to 9,845,55 mits, were freetived in 1964, and worked into jugihist the as well the bucton and comparing the sugar factory at Gorineden, with a capacity of 1,000 tons of some reimery at Vlaardingen, and partly for the gen-eral market. The factory alone is, of course, already a large industrial en-tryrise. In the reimery t Vlaardingen sugar are weekly reimed into pure, well-favored crystal sugar, which is mainly destined to be melted in the milk factories.

flavored crystal sugar, which is mainly destined to be melted in the milk factories, and worked into the sweetened condensed milk. The company works over the whole of Holland, and has its own warehouses of sugar, and own shops for milk products in the principal towns.

PURE CULTURES.

In souring the cream, pure cultures are largely used; of course in the hand-power creameries it is not poshand-power creameries it is not pos-sible to work entirely according to the newest methods, and with the most up-to-date machinery. This is only possible where steam power is available, yet there exists a number of such establishments which turn out a very good article. This may be at-tributed, amongst other causes, to the careful manipulation and scru-pulous cleanliness which is observed. It is indeed a pleasure, both to the expert and others, who may take an interest in this trade, to go the round of many of our steam and also hand-power creameries and to observe of many of our steam and also hand-power creameries and to observe everywhere with what painstaking care every article is cleansed and purified, how fresh and pure is the air which blows through the works, and how everything which can be rubbed and polished shines in the old fashion of the Netherlands, show. ing how well it is understood, that to make good butter, cleanliness in every way is of the year first importance. way is of the very first importance. -A. W. S.

Value of Coal Ashes

An article in the British Fruit Grow er makes some interesting comments on the agricultural and horticultural value of coal ashes. The finer these on the agricultural and normality value of coal ashes. The finer these are, the greater is their value, and the general method observed is to put them through four different sieves, the largest of three-quarter inch mesh and the smallest of one-siebth of an the largest of three-quarter inch mesh and the smallest of one-eighth of an inch. The largest mesh is used to clear the abkes of cinders, which are returned to the fires after clinkers have been picked out for paths, etc. The residue of the ashes passed through a two-inch sieve serve ad-mirably for drainage for pots and boxes. Then the quarter-inch sieve is used for the portion for covering stages for plants to stand upon, ex-periments having demonstrated that

THE FARMING WORLD

INDIVIDUAL TEST OF DAIRY COWS

The following are the results of the second test conducted by the Dairy Commis-sioners' Department this season. The test for 30 days ending July 17, 1905, at the Black Creek Cheese Factory, Perth County, Ontario:

Herd No.	No. of Cows.	Average per Cow.			High	nest per	Lowest per Cow.			
		Milk lb.	Fat %	Fat lb.	Milk lb.	Fat %	Fat lb.	Milk lb.	Fat %	Fat lb.
18	- 11	875	3.6	32.1	1100	3.9	42.9	570	3.6	20.
19	13	1151	3.2	37.3	1385	3.3	45.7	860	3.0	25.8
20	1.3	759	3.8	28.2	1100	4.0	44.0	310	4.4	13.6
21	12	809	3.6	29.5	1150	3.7	42.5	70	5.3	3.7
22	5	871	3.3	29.2	960	3.7	35.5	610	3.5	21.
23	3	970	3.1	30.1	1150	3.0	34.5	930	2.9	26.0
24	10	973	3.5	34.9	1070	3.9	41.7	800	3.6	28.8
25	4	1315	3.1	41.9	1280	3.5	44.8	1360	3.0	40 8
26	9	980	3.6	35.4	1260	3.5	44.1	690	3.6	24.8
27	13	1132	3.7	42.7	1520	3.9	59.2	810	3.8	30.7
28	13	1279	3.2	42.0	1680	3.2	53.7	910	3.1	28.2
29	10	992	3.3	33.0	1130	3.7	41.8	660	3.2	21.1
30	7	774	3.6	28.7	1120	3.1	34.7	760	2.8	21.2
31	777	934	3.3	31.6	1190	3.2	38.0	760	3.8	28.8
32	7	740	3.8	28.3	1005	4.1	41.2	545	3.7	20.1
33	6	793	3.9	31.5	1145	4.2	48.0	395	3.9	15.4
34	9	866	3.7	33.1	1020	3.8	38.7	610	4.6	28.0
35	13	985	3.2	31.8	1170	3.7	43.2	500	3.7	18.5
36	7	999	3.5	35.3	1445	3.4	49.1	710	3.5	24.8
37		997	3.2	42.0	960	5.0	48.0	010	3.8	34.5
38	10	792	3.8	30.6	1160	3.8	44.0	510	4.0	20.4
39	2	1155	3.2	37.3	1360	3.4	46.2	950	3.0	28.5
to	10	1416	3.0	43.2	1600	3.2	51.2	1220	3.1	37.8

Average of 198 cows-981 lbs.; 3.5 per cent.; 34.4 lbs.

ashes thus used will always give off by evaporation much larger quantities of moisture in glass houses than will a body of water covering the same area, thus rendering unnecessary the ex-

bidd on the same house intra- win a bidd on the same area, hence of tanks. The final mesh-onc-eighth of an inch--is used for the balance, and this is one of the most valuable parts of a valuable whole. Almost any cut-ings can be successfully struck in it. Many things otherwise difficult will in this material strike readily. It can be used instead of sand for pott-ing many plants. It is very valuable for fixing nitrogen and should be for fixing nitrogen and should be for diverse the second of the second field in qual bulk with artificial-fort on the second of the second strike mixed with a bushel of fine coal ash becomes almost doubled in value by the admixture, after lying for several days-that is, the ashes have become as valuable as the manure in actual application, for the reason that the britrogen has been fixed and will be held by the ash for plant use, instead of being washed away by watering or rain in the open. The showen fixed and will be held by the ash for plant use, instead of being mashed and be the second of the second of the second show the second off vermin-but it mush be fine. The connection with the foregoing, the experience of a FAMMING Work for the second show the second of a large

orcha: d flanking the railway track, his plum trees being the nearest thereto. Clouds of smoke and fine ash from passing locomotives continually en-velope these trees, but instead of af-fecting them detrimentally, the crops they bear are regular and heavy; in-deed, much more so than on the trees beyond the reach of coal smoke and

Even the unbroken regularity Even the unbroken regularity of such a comparative irregular crop as plums is remarkable, while the contin-uous heavy yields are still more so. The gentleman in question welcomes as a blessing the volumes of locomo-tive smoke which so frequently en-shroud portions of his orchard.

.12

Potato Rot

The Bacteriological Department of the Ontario Agricultural College, which has been studying this disease for the past year, would like to as-certain if the disease in various parts certain if the disease in various parts of Ontario is similar to the one with which it has been working, and which caused so much damage last year, and hence would like farmers troubled with this disease to mail an affected potato and state at the same time if they were troubled with the soft or wet rot last year and to what extent the rot is present in the pre-sent season's crop.





Mother's Doughnuts

If you think there's no use trying To do anything of worth; If you think you're but a cipher In the multitudes of earth; Just remember mother's doughnut And press onward to the goal— Finest doughnuts in creation, They were made around a hole. doughnuts

If the patch is on your garment Where it never was before; If your pocketbook is empty of its hoarded little store; Just remember mother's doughnuts When the clouds of trouble roll-Sweetest doughnuts manufactured,

All were built around a hole.

If you think your next door neighbor Had a better start than you; If perhaps you made a failure And success is hard to woo; Set your tech the way you used to, Lay the comfort to your soul-Recollect the grand perfection.

That was circled round a hole. 38

About Pictures

Pictures should never be bought sim-Pictures should never be bought sim-ply because they are pretty. If they mean nothing to the buyer they will mean nothing to the home. Among the best pictures to buy those that add to best pictures to buy those that add to the dignity, repose, culture and refine-ment of the home are copies of great masters, in brown, black and white, or delicate thist; colored photographs of spots of interest in our own or foreign countries and good prints of the photo-graphs of men and women of art, mu-sic or letters, whose productions are be-loved by members of the family. Choose the frame and your nictures.

Choose the frame and your pictures wisely, for the stranger beneath your roof often judges your culture and in-tellectuality by those silent picture friends you have gathered about your

self. Don't hang all the pictures at the same height. If there happens to be two or three similar in subject and the same size and framed almost alike, they can be hung one over the other with the very best of effect. A picture is often made to look more artistic if a small round picture is placed each side of it. Sometimes a good ef-fect is obtained by grouping three small round frame pictures triangularly just above the square frame. Don't hang photographs of your

Don't hang photographs of your friends in the parlor or in the hall. On the mantel in the sitting room one may set a photograph or two, but the place for photographs is in the sleeping room of the person who most prizes them.

.58 The Kindergarten at Home

The Kindergarten at Home To the mothers whose little ones come with the oft-repeated questions: "What shall I do?" "What shall I play?" let me whisper a few words of help. Children are always active, al-ways seeking employment when left to themselves, and they should be given some busy work which will turn their thoughts into right char-This right kind of busy work they are siven in the kindergarten schools. are given in the kindergarten schools, but there are hundreds of children

who cannot attend these schools, and it is the mothers of these little ones who will be helped by these sugges-

who will be helped by these sugges-tions. We all agree that children should be happy, busy and orderly; but how to make and keep them so is a ques-tion which many mothers find hard to solve. Pin your faith in the kin-dergarten and you will not be disap-pointed in the results of this system. Mothers with the care of the house-hold upon them cannot give their children the time and attention in a kindergarten school, but they can be school a schoo

or the outlines of chairs, stools, tables, lamps, cups, fruit, flowers, animals, etc., drawn on stiff paper and perforated. Then you have the sewing cards which are used in the kin-dergarten. Sets of three cards can dergarten. bought, together with c ads, but the home-made threads, but the home-made ones answer every purpose and can be made simple or complicated to suit the ability of the child. After the

straight lines, they can be taught to make the alphabet in cross-stitch and then it will be a proud day when the little miss marks mother's towels. It is surprising how quickly they will learn to thread the needle, make the learn to thread the needle, make the only this but a fow ends, and not only this that a fow ends, and not only this that a box ends, and not now and then about their work will train them to observe form and color train them to observe form and color train them to observe form and color and help them later on in their work in public schools. Save the best of their work and it can be used as gifts for those who love the little tots.—Canadian Good Housekeeping. 38.

Good Society on the Farm

Mrs. Waldo (of the city)-I have a tter from your Uncle James, Penelope, who wants me to spend the summer on his farm.

mer on his tarm. Penclope (dubiously)—Is there any society in the neighborhood? Mrs. Waldo—I've heard him speak of the Holsteins and Guernseys. I presume there are alcocart occupies.

they are pleasant people.

38 Sayings of Children A small boy in the juvenile grammar class, being told to compare the adjec-tive "little," answered: "Little, small, nothing at all."

One morning little Nellie discovered a spider's web in the window. "O mo-ther," she exclaimed, "come and see this bug in a little hammock."

"I want to ask one more question," said little Frank, as he was being put



The Kindergarten at home-Three of a kind.

cards are ready take bright colored thread and a blunt needle and teach the children to backstitch the out-lines; or let them go in and out, all around the design, then go back and 'shut up the gates," as some little ones sav.

Good results in teaching the alpha-bet and figures have been obtained by having the letters and figures on these cards. It impresses the forms on the mind, at the same time giving the child pleasure. When they be-come proficient in following the

"Well?" acquiesced the tired mother. "When the holes come in stockings, what becomes of the piece of stocking that was there before the hole came?"

"Why, Johnny, how much you look like your father!" remarked a visitor to a small four-year-old. "Yes'm" an-swered Johnny, with an air of resigna-tion, "that's what everybody says, but I can't help it." .58

My head is resting sweetly upon three pillows, infinite love and infinite wisdom and infinite sacrifice.

THE NEW BELL

By ADELBERT F. CALDWELL

M RS. Lockwood sat motionless in the low chintz-covered rocker,

M RS. Lockwood sat motioniess in the low chintz-covered rocker, a blue pitcher with broken handle resting on the table beside her. "We've got to go without the bell; that's certain! There's barely enough to the to an interface of the table of the table of the table beside of the table table of the table beside of the table table of the table of the table of the interface of the table of the table ishep's to be here to dedicate it. "It was a pledge just as much his as hers, according to my way of looking at it; and to my notion Squire Holman is just as much mor-ally bound to see that it's fulfilled as though his wife hadn't ided without carrying out her promise. Squire Holman's Justa ways acted—" Mrs. Lockwood suddenly checked here:[.

Mrs. Lockwood suddenly checked herself. "But, then, I don't suppose we're capable of judging; there may be circumstances we know nothing of." It had been three years since the movement for a new church at Welch-ville had been set on foot. The fittle been a hard struggle, raising the ne-cessary funds.

cessary funds. Squire Holman, who was not a church-member, had refused to sub-scribe even a dollar toward the move-

scribe even a dollar toward the move-ment, although he was the best able to give of any man in the community. "If 'Manda's promised a bell,"-Squire Holman always referred to his wife as 'Manda,—"it's enough for one family, and it's just coming out of me, paying for it—every single cent!"

of me, paying for it—every single cent!" And now before the tasty though unpretentious church was finished Mrs. Holman had died, having left no provision for the purchase of her promied donation. The second second second second the money." had been the rather doubtful conclusion of the committee, of which Mrs. Lockwood was a mem-ber, after, discussing the matter; but when Squire Holman had been ap-proached on the subject as the build-ing neared completion, he had flatty refused to do either. "Twas none of my doings; I'm not responsible for any foolish promise 'Manda may have made. I've told your before, as I told her, there's no need of that sort of extravagance. Durches".

Durit tise to have any beins in their churches." "But, Mr. Holman—" "Well, didn't I tell you—" irritably interrupting—"that she and I are two different persons? If 'Manda'd lived, you'd got your bell, or if I'd promised to woon would be but dida's and they?

different persons? If 'Manda'd lived, you'd got your bell, or if l'd promised it you would; but I didn't, and that's the end of it.' O change the man's decision, and as time went on it was evident there woulds be excitence, person and the second of the second 'He's just as much responsible for what his wife promised as she was-every bit as much responsible for What his wife promised as she was-every bit as much responsible for What his wife promised as she was-every bit as much responsible for What his wife promised as she was-every bit as much responsible for What his wife promised as the was-every bit as much responsible for What his wife promised was the she was before the bishop was expected. "I should think he'd be ashamed to show himself among folks, small as he is!" "Amanda Holman was a good wo-man; and I guess he'll miss his birth-day dinner, and his birthdray comes in a little over a week now-a week

from Thursday is the seventeenth. I remember it, for my Joel's comes on the same date."

"Well, he doesn't deserve any birth. day remembrance, and I hope his conscience that day will trouble him into-but then, it won't," and Mary Holbrook started on up the road to-ward her home.

It was three days before the seven-

"I'd like to leave my key here; it's possible something might----" "You're not going away?" inter-rupted Mrs. Lockwood, stepping out

rupted affs. Lockwood, stepping out on the veranda. "Only for a day or two; I'll be back Thursday evening. It would be rather lonesome all by my—" There was a tremor in Squire Holman's voice. "If you'll keep it, I'll call on my way back."

"He just can't bear to pass his birth-"He just can't bear to pass ms purm-day at home," declared Mrs. Lock-wood, closing the door. "It's too bad; and she always made so much of the day, and had such a good din. ner for his friends," and Mrs. Lock-wood recalled many of the pleasant occasions she herself had enjoyed there. there.

there. She went thoughtfully back to her work in the kitchen. Suddenly she stopped in the task she was doing. "I--I might do it--if he hadn't been so mean; it would have been a plea-sure for Amanda's sake!"

comes," thought Mrs. Lockwood, "so when we hear him drive in they can all be at the table. You be ready, Joel, to take his horse the moment he reaches the yard." By seven o'clock the last guest had

Now be all ready to go into the

"Now be all ready to go into the dining room when you hear the wheels," was the direction given. "It put and it long to wait. "I'll put up your horse, sir," Joel had already taken the animal by the bridle. "You're wanted inside." "What im..."

had already taken the animal by the bride. "You're wanted miside." "What im—" "It's your birthday dinner." "It's your birthday in the seprestant had hately grown more care-worn and wrinkled." "There, just go right in; we're wait-ing," gently directed Mrs. Lockwood, taking his coat and hat. "The dinner is steaming hot." "Our congratulations!" exclaimed the standing company as the bewil-dered man entered the dining.room. "I-I never dreamed of this-after Yanda'd—" Something like a lump rose in Squire Holman's throat. "I've dreaded tonight for weeks just be-cause twould be so lonesome." "We must serve the guest of honor first," exclaimed Mrs. Lockwood, "And will you have tes or coffee?" Of Squire Holman's twenty-two birthday dinners, none had ever been a greater succes than this, none had brought him such a degree of cheer. "I fel youger tonight,' he dealar-ed on leaving the table, "than I have before for years."



" Our congratulations," exc med the company.

All the forenoon she couldn't keep the project out of her mind. "It isn't heaping coals of fire, acting on Christian principles, Martha Lockwood. You aren't to be mean because somebody else is!" and her mind was made no mind was made up. Early Wednesday morning Joel

was sent with invitations to many of the older residents of Welchville, bid-ding them attend Squire Holman's sixty-first birthday dinner Thursday

sixty-first birthday dinner inutsoay evening. "Didn't suppose he'd have one, now his wife's gone," was the universal comment, but all gladly signified their comment, but all gladly signified their comment, was an even of the second second comment of the second second second second comment of the second second second second in the second second second second second comment of the second second second second comment of the second s

Long before night the preparations for the birthday dinner were well on toward completion, save the things that had to be done "just before sit-ting down."

The guests arrived early, 'twas the custom in Welchville. "I hope they'll all be here when he

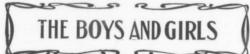
remarked Mary Holbrook, who had dropped into Martha Lockwood's kit. chen the next afternoon. "He'll be just as mean as ever. I can't get over his not giving that beli, it's no use, and the dedication only a little more'n a week off." "I did it," replied Mrs. Lockwood in a genite tone of reproof, "because I ought! Twas doing unto others."

The morning of the dedication was crisp and cool. The bishop had ar-rived the night before, and was just leaving the house with Mrs. Lock-wood and Joel when-across the fields came the clear tones of a bell. "Mother" Joel stopped on the stopped on the stopped on the evening." "Who did it-gave us the bell?" was the care romestion on everyholdy:

was the eager question on everybody's lips that morning. "What a splendid

(Continued on Page 782.)

AND CANADIAN FARM AND HOME



Candle and Star

Said the Candle to the Star, "How very small you are! You never can outshine Such radiance as mine, Because you live so far," Said the Candle to the Star.

Said the Star: "Now wait and see Said the Star: "Now wait and see What comes to you and me. Though I live far away, A million years I'll stay, But you'll forgotten be." Said the Star, "Now wait and see."

The little Star shines on; The Candle's light is gone; For one is God's own plan, The other made by man, The Candle's light is gone; The little Star shines on.

38

Vegetable Wrongs

Digging the eyes out of potatoes. Pulling the ears of corn. Cutting the hearts out of trees. Cutting the hearts out of trees. Eating the heads of cabbages. Pulling the beards out of rye. Spilling the blood of beets. Breaking the necks of squashes. Skinning apples. Knifing peaches. Squeezing lemons. Quartering oranges

Threshing wheat. Plugging waterme

Felling trees and piercing the bark. Scalding celery. Slashing maples. Crushing and jamming currants. Mutilating hedges. Stripping bananas.

Burning pine knots. Burying roots alive.

The Little Lighthouse Girl

S AILORS who navigate the seas on the South Atlantic coast are a) on the South Atlantic coast are always glad when they near the har-bor of Savannah, for that means that they will pass within saluting dis-tance of the "little lighthouse girl." This is the officially accepted tille of Florence Martus, who has for this last deven over a the assign between signal to every craft passing between the city and the sea. It is a hobby of this young girl to greet the ships that go and wish them a safe return, that go and wish them a safe return, and greet the ships that come and congratulate them on their voyage. She says that the ships are her world. She hasn't much world outside of the marine houses, to be sure, for she lives with her brother and her mother imaginable on the southern bank of the Sayaanah River, ten miles from town. town.

town. The Martus dwelling is the only habitation on Elba Island. There is no landing wharf, and visitors arrive on an average once a year. George Martus attends to the range of lights which keep the pilots in the right part of the most tortuous channel in that part of the ocean. Besides the lighthouse is the cottage where these three persons spend their lives. The barks, the steamers, and the various three persons spend their lives. The barks, the steamers, and the various other craft never get near enough for an exchange of greetings other than that most expressive form of good will, the waving of a handker, chief by day and of a lantern by night. And as the girl sends out her welcome the seamen, who know all about her, and who would resent the elimination of the ceremony which she has so popularized, send back an answering salute, three "toots" of the steam whistle. Then Miss Martus is as happy as a belle at a debutante

party. It is her desire that no vessel shall pass the lighthouse without receiving a salute. She never overlooks a sail a salute. She never overlooks a sall in the day time, and her handkerchief is ever ready for its service of cor-diality. And at night she seems to feel intuitively the approach of her ships, for she has frequently made ready the lantern before the expected boat hove in sight. She says it is her touches Savannah. She was asked her reason for signalling the nasher reason for signalling the pass-

her reason for signalling the pass-ing sea throng. "I do it," she said, "because they are my friends, almost the only friends I have. I love to see them come and go, and when they go I always pray for their safe return."

10 Familiar Sayings and Customs

Every day we hear some phrase proverb that is so familiar we never for a moment think how or where it originated.

where it originated. "As dead as a door nail" is very familiar. Long ago, when doorbells were unknown, front doors were made with knockers, which were struck against a metal knob to an-nounce arrivals. This knob was called a door nail, and as it was struck so

often it was naturally supposed to be dea

There are many customs also so familiar and old that we wonder if they ever had any origin. The throwing of rice at a wedding

is a Hindoo custom. Rice is the staple there, and when thrown at the happy pair denoted good will and wishes for a life of usefulness. Throwing old shoes is a very ancient cus-tom. In transferring the property of the bride the father gave one of her shoes, thereby relinquishing all right to her.

38 She Couldn't Draw It

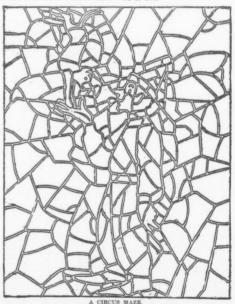
A teacher went out one day with one of her pupils to do some sketch-ing. The little girl she took with her was about ten years of age, and quite

skilful with her brush. When the day was nearly over the teacher looked at the sky, where the sun was setting.

sum was setting. "Try to make a picture of that sunset," said the teacher to her pupil. The little girl looked at the beauti-ful sight in the heavens, and then she turned to her teacher and said: "I can't draw glory." It was a bright answer made by that little child. It is God who paints the sunset sky, and there is no hu-man skill that can draw the glory which He has created.

38

There is no life so humble that, if it be true and genuinely human and obedient to God, it may not hope to shed some of His light. There is no light so meagre that the greatest and wisest of us can afford to de-spise it. We cannot know at what moment it may flash forth with the life of God.



In this cut, mixed up with the other lines, are the figures of a circus performer and one of his animals. See if you can find them.

THE FARMING WORLD

THE KITCHE

Consider Ways to Use Meats

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Consider Ways to Use Meats When buying a piece of meat one should consider the different ways it can be used. In buying a prime rib roast, as a rule, most people want it cut short. If they will buy a full rib, cut long, it can be bought for about three cents less on the pound. Thea three che should be pound. Thea take the small piece with you; you thus have enough meat for another thus have enough meat for another meal

In the way of soup or stewing meat, In the way of soup or stewing meat, if you get your pices short cut you pay as much and the butcher has the end pice left. You can have your butcher remove the bones, roll and tie with clean twine or skewers. These must be removed before serv-ing. Always take the bones with you, as they can be used for soup.

Some Recipes

Some Recipes APPRE FUTTRES—Cut a dozen large, juicy apples into slices after pealing and coring them. Throw the slices into the batter. Have ready a pan of equal parts of lard and butter, boil-ing hot. Take the batter up in a ladle, allowing a slice of apple to each frit-ter, and drop into the hot lard. Fry brown, drain a moment and serve with powdered sugar and nutmeg. Peace Convers—Ius either fresh.

PEACH COMPOTE-Use either fresh, canned or dried peaches and stew canned or dried peaches and stew until very soft; sweeten well and al-low them to simmer in the water in which they are cooked; then remove from the fire, and when cold strain and turn into moulds of rice. Make the would be light and turn into moulds of rice. Make the moulds by lining ordinary teacups with boiled rice and leaving a deep depression in the centre, this depres-sion to be filled with the peach mix-ture, which may require a little gela-tine if it does not "boil down" to the right consistency.

CARE "SNOWBALLS"-Cut off all the crusts from a loaf of white cake, so that it will look perfectly white. Then cut the cake into squares or balls an inch or two inches wide. balls an inch or two inches wide. Have ready a rich white frosting, and with a fork dip each piece of cake into it on all sides; then roll the snowballs into freshly grated cocoa-nut until thoroughly coated. They should be the picture of real snow-balls

balls. Portro Sour—A very fine potato soup is made by adding a quart of scalded mik, in which several slices of onion have been steeped to two cupfuls of mashed potato. Soften, not melt, a large tablespoonful of butter, and mix with it an equal qua-tity of flour. Add salt, pepper, and a dash of celey salt, and pour gradual; and potato mixture. Sprinkle a lit-tie finely mixed parsley on top. Serve with buttered crutons. RUC BREAD-Rub one cup of cold

RICE BREAD-Rub one cup of cold RUE BEEA--Rub one cup of cold rice till smooth, mix with one cup of flour, one cup of sweet mik, two tablespoons of meited lard and salt to taste, and, like the waffle batter, beat hard and long; then add two eggs beaten very light. Bake in thin layers, spread each hot cake with butter, pile on a hot plate and cut through the layers, like shortake. WAFPLES--Mix one pint of flour, three-fourths pint clabber (if you use buttermik, a pint), one teaspoon salt,

one tablespoon melted lard, and beat till perfectly smooth-beat hard and beat long, for your success will de-pend on it. Just before you put in the irons add one level teaspoon of hot water. Grease the irons before you bake the first walle, they will not need it again. Serve each walle fresh from the irons, crisp, feathery, melt-ing. ing. .52

To Preserve Eggs

My method of preserving eggs is so satisfactory that I will report for your readers. I buy the eggs in Sep-tember or October when they are twenty-five or thirty cents a dozen. twenty-tive or thirty cent's a dozen. Each egg is wrapped in a piece of newspaper and then packed closely in a pasteboard box, illing in any space with paper, and the cover tied on. The boxes are put in a cool place-cold storage, if one has it, a cellar or cold room will do. The air is kept from the EGGS by the paper. In the six, years that I have tried this method, I have never lost an egg, and tambers of my family who have kept them in this way have had them fresh in Maa, which is, of course, longer lana one needs to keep them. S. .58

Washing Dishes

Washing Dishes A friend who has but a few hours each morning in which to do her housework, has a simple and rapid method of washing dishes. She has a large square box made to order of heavy tir, a hole in one of the lower corners can be closed with a cork from the outside. Dishes are stack with cold water for one hour; in the meantime other work is done, and a dishpan of soapy water is heating to boiling point. The cork is then removed and the box drawn a little over the table edge and slightly tip-ped for the cold water to drain off. The cork is replaced and the boiling soapy water poured on the dishes, which are allowed to clean under cover. The soapy water is then drain-ed off, fresh boiling water poured on and drained off, and the dishes of three meals are washed at one stroke and and drained off, and the dishes of three meals are washed at one stroke and need almost no wiping. Of course, the knives, forks and spoons, and pots and pans are washed separately, for, as a rule, they cannot be cleansed so casily.—Mrs. M. S.D.

Cooking Without Fire

In the cooking without the Munich, Frankfort, and other German cities, the use of the "fireless stove," or "cooking box," is strongly recommended. cooking box, is strongly recommended. The apparture consists simply of a wood-en box, thickly lined with hay or felt, and litted with a tight cover. Nests are made in the lining, into which pots containing food that has first been boilcontaining tood that has mist been con-ed for a few minutes over a fire are placed, tightly covered, and the box is closed. The lining retains the heat for hours, and the food is slowly cooked, with better results, in many cases, than can be attained by rapid cooking on a stove. Of course the apparatus does not answer for cooking steaks, chops, or cakes which require a quick, hot fire, but it is excellent for soups and vegetables.



BOOK FREE, entitled "How to Make Hens Lay." A post card to the Thompson Mfg. Co.. Ltd., Grand Bay. N. B. bringeit.



one sample, by mail, postpaid, free to er The Linen Doyley Co., Dept.



ROCK SALT for prses and cattle. in tons and carlots Toronto Salt Works, Toronto

16 October, 1905

AND CANADIAN FARM AND HOME

Divies' Reputation goes into every barrel of Royal Household Flour

If Royal Household Flour were not as good as Ogilvies say it is, who would be the greatest loser?

You would try it once-if it were not good you would be a small loser, perhaps.

But Ogilvies would probably lose your custom.

They would also lose the custom of every other woman who tried it and of thousands who had never tried it but had been told that it was not as represented.

Therefore Ogilvies must make Royal Household Flour the best flour because they stake their reputation upon it, and if you and thousands of others found it was not the best, Ogilvies would ruin their business.

So Ogilvies make Royal Household Flour the best flour, in their own protection. Incidentally that is your strongest protection -it guarantees you the best flour because the brand carries with it Ogilvie's Reputation.

Ogilvies simply ask a trial_know-

ing that it will make a permanent friend for Royal Household Flour.

Showing One's Color

Showing One's Color The superintendent of a scamaria's mission says that one of his young sailors, who had signed the pledge and worn the white ribbon, had to enter a hospital later on. The phy-sician prescribed brandy, but when he saw the ribbon he changed the medicine, saying: "I can give you something that will take the place of it i never mean to do anything if I can help it." Such an applica, like the badges of certain organiza-tions, is a positive safeguard. "You'l often be laughed a tafter you put on this uniform," said General Booth, on one occasion to a company of the

Salvation Army, "but you'll not so often be tempted. All the devils run from a soldier who shows his colors." colors.

Make Haste Slowly

To be in a hurry is never the way to succeed thoroughly, either in material things or the things of the soul. To "make haste slowly" is a lesson we often need to learn. Newman's prayer is a wise one

Lord! who thy thousand years dost wait

Wait To work the thousandth part Of thy vast plan, for us create With zeal a patient heart.

Sunday at Home 66666466666 A Poor Example

A Poor Example A certain woman, prominent in clurch affairs, stood leaning over her big five-year-old boy, who, when he had finished saying his evening prayer with an irreverent drawl and his smen with a yell, asked her: "Mother, why do you make me say my prayers when you never pray at evening or any other time." Her christian women tho never pray cas-cept in nublic. cept in public.

.12

Constancy In the Old Testament there is a little song which tells the story of a constant friend. "And Ruth said unto Naomi, Entreat me not to leave a constant friend. "And Ruth said unto Naomi, Entreat me not to leave thee, or to return from following after thee: for whither thus goest, I will jodge; thy people shall be my peo-ple, and thy God my God; where thou diest will die, and there will I be buried: the Lord do so the, and more also, it anglit but death part tong and a sweet spirit. No earthly friendship can be per-fectly constant. But God is constant. He is the same yesterday, today, and forever. "I am persuaded that nei-ther death, nor line, nor angels, nor principalities, nor powers, nor things present, nor things to come, nor height, nor depth, nor any other creature, shall be able to separate us from the love of God, which is in Christ Jesus our Lord."

Stand Up

"Stand up, stand up for Jesus, The strife will not be long; This day the noise of battle, The next the victor's song: To Him that overcometh A crown of life shall be He with the King of glory Shall reign eternally."

The Life Beautiful

The Rev. Dr. J. R. Miller, recently discussing "Self-development through Work for Others," drew this picture

The Key, Dr. J. K. Miller, recently discussing "Self-development through Work for Others," drew this picture of a life transfigured through thought-timess of others: "A log years sume there died in "A log years sume there die here in the world, but whose beginning was most discouraging. As a girl she was excedingly homely--so homely that even her mother said to her: "You are so ugly, my child, that nobody ever will care for you or love you." Instead of being disheartened, however, by her homeliness, she said to others that people will love me, in spite of my face." So she trained herself to be kind to everyone she met. She calitivated gentleness of disposition. She learned to be most umalish, always forgetting herself she visitad the could to hep others-ness and comfort to them and da-ness and comfort to them and da-ress and her which she lived. Every-body loved her, and her name was spoken in praise in every home. She did not become beautiful."

THE FARMING WORLD

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Care of the Feet

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Care of the Feet People who suffer from tired feet may note that a good deal of their discomfort is caused by the fact that they wear stockings that do not hi. Indeed, the fit of the stockings is almost as important as that of shoes, and, in order that they shall have a should have as few seams as possible, as these cause corns. The feet should be bathed at night, and this treatment as these cause corns. The feet should be bathed at night, and this treatment is an excellent sleep producer. The water should be salted. The feet should be scrubbed all over with a nail brush, which will olten prevent the formation of corns; whilst hard with a piece of fine energy paper or fine file before the feet are placed in water. in water.

35 Chronic Rheumatism

The term rheumatism has been, and is even yet, so loosely employed not only by the general public, but by physicians themselves, that it is impossible to determine just what is meant by it.

meant by it. Aimost any painful affection of the muscles or joints, whether acute or chronic, is popularly termed rheuma-tism. Certainly two or three distinct diseases, and perhaps more, are thus confused, but there seems to be one painful affection of muscles and joints, chronic in character, and not produc-ing distortion of the limbs, which is distinct from the other rheumatic troubles, and which is called chronic rheumatism. The trouble may come on after one

The trouble may come on after one or several previous attacks of acute inflammatory rheumatism, the last of these never entirely disappearing. More or less pain, stiffness and swelling persist in one or more of the joints, or the disease may come on gradually without any preceding acute attack. This is the more common way. A tendency to suffer from this form

In twee, we were the set of the s by a wasting of the surrounding mus-cles.

by a manual contract of the second se

modes of treatment, namely, mas-sage and passive motion. Sometimes much relief is obtained by exposing the joint to a very high temperature in an apparatus devised for the purpose. Hot baths, electri-city, blistering and pairing with io-dime, are also of value. Drugs are of limited service in most cases. Re-sidence in a warm, dry climate is often curative.

Health Hints

It is said that a pinch of salt placed on the tongue and allowed to dis-solve slowly, is a certain cure for sick backets

The use of plenty of milk with tea The use of plenty of milk with tea is a wise precaution, and must be re-garded as a sound and physiological proceeding, since the proteids of milk destroy astringency and probably prevent the otherwise injurious ac-tion of tannin on the mucous mem-brane of the stomach. In the intes-tinal juice the proteids are separated and the tannin probably co-bines with the solium salts.

The British Medical Journal says that the best and most effective remthat the best and most effective rem-edy for warfs and corns is sea water. When sea bathing is not possible, warm footbaths of sea salt will take its place. If used daily, at the end off. Warfs are treated by soaper the hands in warm sea water twice a day for ten minutes. Cauliflover warts on the scalp yield to a com-press of sea water left on all night each might for two weeks.

Cramp in the Legs

Cramp in the Legs People who are subject to cramp in the legs should always be provided with a good strong piece of cord, es-pecially in their bedrooms. When the cramp comes on take the cord, wind it round the leg over the place where it is cramped, take an end in each hand and give it a sharp pull, one that will hurt a little, and the cramp will cease instantly. People nuch subject to cramp in bed have found great relief from wearing on each leg a garter of wide tape which has several thin slices of cork stirch-ed on to it. ed on to it.

"Advice," said Uncle Eben, "is like mos' ev'rythin' else. If it's any good, you doesn't have to give it away. You kin giner'ly sell it."

The New Bell

(Continued from Page 778.)

Near the close of the exercise Squire Holman, who was in the hap-py audience,—greatly to the wonder of many of his neighbors—modestly

"With the dedication of our church —for I with to share its blessings— I dedicate also to God's service my life—what little there is left. Unless there is something in one's religion. I shouldn't have been treated as I recently have by my neighbors," many eyes turned to Martha Lock-wood, "after the way I've acted re-garding what was no more nor less than a sacred obligation?" All knew then the secret of the bell and the act that had prompted its giv-ing. "With the dedication of our church

ing.



AND CANADIAN FARM AND HOME



May Manton's Hints LOOSE BOX COAT 5154

The loose coat is always a favorite one with many women and suits some igures better than any other sort, in figures better addition to which it is easier to slip on and off and involves less difficulon and on and involves less dimeti-ty in the making than do the fitted ones. Here is an exceedingly desirable model that will be much in vogue during the entire autumn and win-

model that will be much in vogue during the entire autumn and win-ter, both for the coat suit and for the separate wrap, and which is quite ap-propriate for all suitings, broadcloth, cheviot, homespun and the like and also for the cloakings that are pre-ferred for the all-round wrap. In this instance the color is black and the material English kersey, simply stitched with helding sills, but color as well as material is a matter of personal preference and need. The coat is made on quite simple closing is under and lapels. The closing is unade invisibly by means of buttom-bles for a board the season that are full at the shoulders and plain at the wrists, where they are finished units of velvet but here is a peculiar smartness found in the use of one material throughout.



5154 Loose Box Cont, Gored Box Plaited Skirt, 12 to 16 years. 32 to 42 bust.

MISSES' SEVEN GORED BOX PLAITED SKIRT 5152

513 Skirts worn by young girls follow closely direr the models in vogue for there due to the second of the second there due to the second second second ed as to be plain over the hips and at the waist line. This one is among the best and most graceful of the season's models and is adapted to al-most all suitings and dress materials. As shown, it is made of one of the pretty new plaids, cut bias, and fin-ished with stitching of belding silk. The skirt is cut in seven gores and is laid in iox plaits that are stitched flat for graduated lengths and are pressed into position below the stitch-ings.

ings.

GIRL'S DRESS WITH POINTED BERTHA 5155 Little girls are apt to be especially charming when wearing frocks made with low necks and with short sleeves with low necks and with short sleeves. They allow a glimpse of dimpled arms and throats that always is fas-cinating, in addition to which they are regarded as desirable from the standpoint of health; for we have learned better than to allow the chil-dren to be bundled up too closely even in cold weather. Modern, warmly heated homes render such treat-ment something of a danger and it is found that little girls who become accustomed to such slight exposure as this grow the hardier in conse-quence. The dress, however, can be



5155 Girl's Dress with Pointed Bertha, with Hall States, 4 to 12 years, 6mall, Medium, Large,

made high with long sleeves, if bet-ter liked. In this instance the ma-terial is cashmere and the frills are of the material embroidered in a sim-

of the satisfier pand and the line at the ple openwork design, but there are many others which are equally desir-able. All these season's wools are suf-ficiently soft to be made full with success and there also are some pret-ty, childish silks which are in every way appropriate to the design. The dress is made with the waist and skirt. The wast is made over a becoming bertha while the skirt is straight and gathered at its upper edge, the two being joined beneath the belt. The short sleves form full puffs, but the long ones are in bishop style.

WORK APRON WITH HALF SLEEVES 5157 The busy woman, whether her ac-tivity take the form of household duties, of art work or of any other pursuit which means the likelihood of soil to the gown, is sure to feel the need of just such a protective in is made of checked gingham, but there are many other materials that are suitable, the very best of all be-ing butcher's linen, which is durable and improves each time it is sent to the laundry, and altogether is desir-able. The sleeves are full enough to silp on over those of the waist with-out rumpling and are quite as essen-tial to the economic purpose as the apron itself. This last is so simple as to involve the least possible labor in the making while it covers and prects the gown admingby well. "Side portions and is extended at the back to form susenders, that are crossed and brought over then but-toned into place over the front. At WORK APRON WITH HALF SLEEVES 5157

side portions and is extended at the back to form suspenders, that are crossed and brought over then but-toned into place over the front. At each side is a generous patch pocket, which itself is a commendation. The -leeven are finished with bands at their lower edges and with casings at the upper in which elastic is in-serted to keep them in place.

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MR. C. C. JAMES, Deputy Minister of Agriculture, Ontario, says :

of Agriculture, Ontario, says : I procured a copy of "The Fat of the Land" and May and have only been lending its loothers to read, and the optimion of all has been that it is a very readable, suggestive and helpful the optimion of all has been that it is a very readable, suggestive and helpful been lending it is others to read, and been lending its outper the second second to optimion of the second second second to optimion of the second second second to optimion of the second second second interest to the end. The question will a conscate: "I here any helpful interest to the end. There second interest to the end. There second second there setond the second second second there setond the second second second there setond second second second second the second second second second second there setond second second second second the second second second second second the second second second second second the second second second second second second that books. He will second second second the bable to compare seperiences with how on the second second second second the second second second second second and the need not believe it all or accept. The second second second second second second second the second second second second second second the second second second second second the second second second second the second second

DR. JAS. W. ROBERTSON, late Commissioner of Agriculture, Ottawa, savs :

I read." The Fat of the Land." with keen interest. It is book which records in a very pleasant way many possible, if not actual, achievements by the ap-plication of intelligence and good busi-ness management to farming problems and affairs. I count it wholesome ading

MR. F. W. HODSON, Dominion Live Stock Commissioner, Ottawa, savs :

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The Farming World TORONTO

A College Education for the Country Boy or Girl

President Wm. H. Harper, of Chicago University, when asked his opinion as to why rural boys and girls should have an education, expressed himself as fol-

lows: "Rural boys and girls are of two kinds—those who expect to live always in the country and those who look for-ward to life in larger places, when they

shall have grown up. The problem of a college education presents itself in different ways to these

presents insert in unrerent ways to mese types. "Regret it as we may, there are many ambitions young men and women in the country who, for one reason or another, interpretent of the second second second the second second second second second the is ambitions, intelligent, and he wants to succeed. He knows that the best opportunities in business lie in the city. Consequently he goes to the city and we could not hold him back without crushing the spirit of enterprise and self-initiative which is one of our most valued national traits. The same thing holds with his friend who looks forward to a profession. The same thing holds with his friend who looks forward to a profession. The same thing holds of gifs who are interested in art, or letters, or decation in many of its most interesting phases. The tendency to-ward the city, then, is not a theory, but a fact which we must recognize, and the rung forward to city, then, is not a theory, but a fact which we must recognize, and the rung forward to see the segment in favor of a college education in solvious. Business and the professions are mak-ing constantly severed demaids upon the persons who go into them. It is more and more difficul for a man with only a quick wit and natural endow-ments to succeed. He needes thorongh preparation and that preparation he can often get best through a college. Technical instruction he can obtain in oher phaces—instruction in the phaces. types. "Regret it as we may, there are many

nical instruction he can obtain in other places—instruction in bookkeeping, stenography and kindred branches—and

places—instruction in bookkeeping, stemography and kindred branches—and this technical instruction is highly valu-able. But for the largest unccess, grapp of principles, trained methods of thought, he needs to supplement the mechanics of business and the professions with the methal discipline which a college can beet give. Structure this point is to clear to need further elaboration. The structure the second structure to the structure to the structure to the struc-ture to the second structure to the struc-ture to the second structure to the struc-ture to the structure the structure the second structure second the transmission structure to the structure to the structure to the struc-ture to the structure the structure the second second structure to the structure the structure that here a college education is not so essential for business success as in the case of the city man. Pertangs it is non-tices that the second structure the structure that there a college education is not so essential that in farming it is scien-tific that the second structure the structure to accurate that the structure to the structure that the second structure that the structure of the struc-ture the structure in an agricipheral college is a profitable business invest-ment?

ment? "There is a finer side of college life and college influence than any which I have yet discussed, and with it I mean to close. That is, the help given by a college education to higher living and thinking. After all, life is not entirely made up of getting money. It is of no use for acquire wealth if we have not the ways. It is in genione this ability. capacity to enjoy it and to use it in noble ways. It is in giving this ability, in training mental and spiritual apprecia-tion, in developing character, in making a man the master of the material side of life, that a college performs its high-est function. And this is a service ren-dered equally to the country man and the city man. If we are to get the most out of life and make it mean the most to our fellow men, business must be idealized. We must see the work of the merchant, of the lawyer, and equally of the farmer, in its relation to men, to thought, and to virtue. We must have the philosophic calm to endure reverses with fortifulde and success withreverses with fortitude and success with-out conceit. We must find sources of enjoyment in books, in nature, in music, in art. We must acquire a feeling for our fellowmen and we must keep our sympathies keen. These are the things that make life noble. And because a college, perhaps more than any other force except the church, cultivates these things, no boy or girl, either in the city or in the country, can afford, except under necessity, to leave it out of his or her plans."

Trapping Fur-Bearing Animals

There are many secret in the trap-per's art that laymen know nothing about. It is not an impossible trade to learn, however, and many a person could easily make a few dollars rapidly by trapping for the fur-bearing animals in his vicin-ity. Furs are high, and will certainly



concealed by leaves. The coon is crossing og and smells the bait. His attention is irrested; he turns back to investigate.

go higher. Small game like mink, coon, fox, martin, oppossum, are best caught in the steel wire traps now in general use. They are so light that a trapper can take a dozen of them along with him. There being no jaws or saw-teelh, the skin or fur is not injured. The whole



The result of his investigation-Mr. Coon is waiting for the transer

secret of success in trapping is to study the labits of the animal, and the places they frequent. As to bait, fish, bird or muskrat is the best for mink, though any fresh meat is good. Scatter dry leaves over the trap, but do not cover the hole. For ferent to attract the animal, fish-oil or old mackerel are good. For coon, skunk, or opposum, find where they frequent, and set trap in the same way. Bait with bird, rabbit



Wing trap set, with mink approaching, mink, the trap should be covered, as s in Fig. 2, for coon. As illustration sl trap is set at the edge of the water, the hole in the bank.



rifle or a gun, and nd two z-c will mail it to you free.

Always fasten trap with

wire to a stake or drag, if near water. In many localities boys could make lots In may localities boys could make lots of money at times trapping. To start them in this healthy, free and inter-esting work is the purpose of this il-lustrated article. J. A. MACONALD, Hermanville, P.E.I. 12

J. STEVENS ARMS & TOOL CO. 3:0 High Street Chicopee Falls Mass. U. S. A.

ow to pi

.

or chicken.

Bill Nye, the humorist, once had a cow to sell, and advertised her as follows: "Owing to ill health I will follows: "Owing to ill health I will sell at my residence, one plush rasp-berry cow aged 8 years. She is of undoubted courage and gives milk frequently. To, a man who does not fear death in any form she would be a great boon. She is very much how organize theore with a be a great boon. She is very much attached to her present home with a chain, but she will be sold to any-one who will treat her right. She is ½ shorthorn and ½ hyena. I will also throw in a double barrel shot-gun, which goes with her. In May she usually goes away for a week or two and returns with a tall, red calf with wabby legs. Her name is Rose. I would rather sell her to a non-resident. 38

"Talk about mosquitoes," said an American, "Why, when we were in latitude 30 degrees and longitude 75 datitude 30 degrees and longitude 75 degrees, a host of mosquitoes settled on our rigging, and when they left us there wasn't a stitch of canvas left on the boat." "Wal," said his friend, "that's strange, because when friend, "that's strange, because when I was sailing in latitude 29 degrees and longitude 74 degrees, a swarm of mosquitodes settled on our rigging and every one of them had a pair of canvas breeches on. Same mbs. quitoes, no doubt!" 38

Farmer Corncob—"What did you do with the old hemlock?" "Squire Wayback—"Ground it up and served it to the city boarders as a new breakfast food, and they were all stuck on it."

38 An Irishman asked a Scotchman one day why a railway engine was called "she." Sandy replied: "Per-haps it's on account of the horrible noise it makes when it tries to whistle."

The Drainage of Farm Lands*

There is no question in agriculture more important than that of moisture; in fact the most important influence on the quantity of yield year by year is the amount of rainfall and snowfall in any given district. The Weather Bureau of the United States has established the fact that in the great corn growing States, the yield of corn varies directly with the amount of rain that falls during June and July. For a period of filten years it has been normal for June and July, the become yield is also below normal, and yiev versa. Dr. Shaw, the Chief of the Weas, ther Bureau in England, has established a similar relation between the rainfall and the yield of what. He finds that the yield diminishes by one and a but little being left behind. This happens when a soil is too porous. Or water may fail to enter the soil in any great quantity and will run off the surface. This happens with an impervious soil, especially on sloping and hilly ground. The object of

SOIL MANAGEMENT

is to exercise the fullest possible control over the water supply. Autumn cultivation has for its particular object the preparation of the land to absorb the autumn rains and winter snows, so that the maximum amount runs off the surface. Spring cultivation has for its object the loosening of the seed bed from the wet subsoil so that it may dry out sufficiently for gremination of the seed; while summer cultivation has for its particular object the checking of generally are awakening to the fact that large areas of their land can be proved, in many the second second a system of underdrainage. I venture to predict that the question of underdrainage will form a basis for the next important advance in agriculture in Canada.

BENEFITS OF GOOD DRAINAGE

Let us glance for a moment at some of the benefits resulting from good drainage of lands. The whole thing is summed up, of course, in the control of water supply. The most obvious object of underdrainage is to rid the land of excess water, but this is not the only, nor always the most important object. That is the direct effect, but there are various indirect effects, such as the venilation of the soil, resulting in a more ready flow of air through the soil; the ready entrance of showers into the result untrance of the other in removing direct effect of the drain in removing



Gathering the Turnip Crop, College Farm, Truro, N.S.

quarter bushels per acre for every inch of rainfall in the previous autum— September to November. In this instance the relation is the reverse of that established for corn in the States, but the influence in both instances is very marked and very uniform. While this is the case it is nevertheless a matter of common observation that the yield of crops on two adjoining farms may be very different, while the rainfall is though man has no control over the amount of rain which falls, yet intelligent agriculture is directed toward the controlling of the distribution of the rainfall. It may be remarked here that the amount of rainfall and snowfall may be disposed of very differently, according to the condition of the soil upon which it falls. The water may pentrate the soil very readily and drain out,

*Address by Prof. J. B. Reynolds. Ontario Agricultural College, in the Dairy Pavilion, Canadian National Exhibition, 1905. evaporation of water from the soil and its conservation by that means. A noted farmer of Ohio once remarked that given plenty of rain and snow in the autumn and the winter he could grow good crops without summer rains. What he meant was that he would prepare his soil in the autumn and would cultivate his soil in the spring and summer so that he could make good use of the autumn rainfall.

attimm rainitali. If appears, therefore, that intelligent farming is largely directed toward the control of the water that falls upon the soil. Underdrainage is one of the most effective means toward that control, and Owards fault go has reactor that one of the simportant question of drainage before any further advance can be made in agriculture. Thus far the attention of the Ontario farmer has been directed towards the clearing of land of bush and stumps, erecting suitable buildings, and purchasing necessary machinery for the working of the land, but there are signs that farmers surplus water is beneficial in that it not only makes the growth of crops possible, but where the growth of crops possible, but where the growth of crops possible, such water the secal to sprout and for the young plant to grow. The effect of the drain in ventilating the soil, that is to say in allowing a frequent change of air throughout the root zone of the plants, means that the roots will be readily supplied with oxygen and other constituents mecessary for their healthy growth. The increased openness of the soil, which is a marked effect of the drain, result, besides yenthouwers to enter the ground more readily, and thus the drain becomes indirectly drain is, further, a safeguard against drought in lowering the watertable and allowing the roots of plants to penetrate more deeply into the soil, and thus to feed in a region not subject to extremes of heat and moisture, as at the surface soil.

THE PRACTICAL FARMER

in considering the question of under-drainage makes it first of all, quite nadrainage makes it first of all, quite na-turally and properly, a question of cost. It is not, however, the total amount of cost which should be the only considera-tion. The cost of drain land, where land needs draining, should properly be regarded not as an expense but as an investment. In a system of bookkeep-ing it should be charged up to capital Teaching in the system of bookkeep-ine in should be charged up to capital account or permanent improvement, not to maintenance. It is not in the same class of expenditures as machinery or repairs or horse feed, but stauds in the same category as an expenditure for more, land. For instance, to tell ten acres *ifl* land for the purpose of buying machinery or horse feed would pro-perly be regarded as a failure to meet the legitiguate expenses of running the farm and as a backward step financially, but to soll ten acres of land for the pur-pose of draining a part of the farm would not be so regarded, in fact, it would, in certain circumstances, be a good busi-ness deal to sell an outlying bit of land and invest the proceeds in draining. It would certainly be hetter to invest sur-plus money in needed drains than to juy more land, for the effect of drains is to increase the yield by a peer barge in the drainer in any, where land badly to say in mereasing the total yield, the drainage investment is ands on a par with investment in more land, and it must be noted that after the drainage is accomplished it costs no more to work the drained land than it did the un-drained land, in fact very likely less. in accomplibled it costs no more to work the drained land than it did be un-drained land, in fact very likely less, for the land is in better condition, and responds more readily to intelligent cultivation that it did before being drain-ed, but the investment in Jand would mean a proportionate amount of extra labor in tilling the land and harvesting the crops. Investment in drainage, therefore, is wiser and more economical, where drainage is needed, than invest-Tor instance, suppose that the sum of five hundred dollars is invested in lay-ing a thorough system of drains under thirty acres of land. At that rate of cost land can be drained pretty thorough-by. Further, suppose that previous 100

thirty acres of land. At that rate of cost land can be drained pretty thorough-by. Further, suppose that previous to draining the average yield of oats on that land had been thirty bushels per acre, which at forty cents a bushel, would be twelve dollars. If the cost of working the land is placed at eight dollars per acre, the net profit amounts to four dollars are acre. Now, suppose that after the investment of five hum-dred dollars on this land the yield is increased to forty bushels, which is a conservative estimate, this yield at forty cents a bushel would mean sixteen dollars per acre and with an allowance of eight dollars for cost of working, the net profit is eight dollars per years which is just twenty-four per cellars, or the original amount invibures, for, to put the original amount invibures, for the original in moment way, at the rate of one condend we twenty dollars, ser year. it in another way, at the rate of one hundred and twenty dollars per year, the original capital outlay is returned in a little more than four years.

THE WISE FARMER

THE WISE PARMER will sit down and count the cost in some such way as this before embarking upon the rather expensive undertaking of drainage. He will consider the circum-stances in which drainage is blickly to be needed. He may have on his farm a level tract of land or land which is heavy and retentive of moisture. Such soil would he sure to give good returns for the investment in draining. Or he-may have a low tract which serves as a soir have a low tract which serves as a sort of sink for the overflow water or underwater from surrounding higher



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Cleaning up a new farm

land. Such areas also stand badly in need of drainag

For a healthful condition of things in the soil, frequent percolation of soil water is necessary, in order to carry off the soluble salts which otherwise would accumulate in excess in the soil. would accumulate in excess in the soil. In arid countries, where the rainfall is so slight as never to produce under-ground drainage; and in swamps, where on account of the ground structure, underground drainage is impossible, the same condition of things occurs, namely, the accumulation in excess of soluble salts in the soil. In the case of swamps, underdrainage is frequently the first remedy to be applied, and in arid lands irrigation with drainage is the most irrigation with drainage is the most effective remedy for alkali. It is important that the farmer keep constantly in mind that the downward movement of water through the soil is essential to a proper degree of fertility and to a proper physical condition in the soil; and where lands are highly retentive of moisture or where, owing to the underground structure, natural drainage is difficult or impossible, then artificial drains become a necessity in every well ordered farm.

A WORKING PLAN

A WORKING FLAN Next to the cost of drain the great obstacle before the practical farmer is what may be termed the engineering problem, that is the question of prepar-ing a working plan of drainage, locating the right position for the drains, decid-ing upon the depth, the amount of our, important, securing sufficient outlet. All of these present themselves at one time of these present themselves at one time or another as practical engineering difficulties with which the average far-mer, on account of lack of experience, is unable to deal with any certainty of

Many cases that arise are easy to work out—such as a single main drain up through a low part of the field or a small field of uniform easy slope. Here the eye may be a sufficient guide in de-termining the grades best for the drains. termining the grades best for the drams. But where the field is uneven in surface or where the slope is slight, much more care is necessary and instruments should be used less liable than the eye to make mistakes. A small shack for a summer outing may be built without a prepared plan or without an architect, but if a fine house or barn is, to be built a care fully prepared plan is used as a guide in construction, and frequently an archi-tect employed to make that plan. Simitect employed to make that plan. Simi-larly, for a small and easy system of drainage no plan may be necessarv, but for a difficult or large undertaking, it is a matter of economy as well as of 18 a matter of economy as well as of efficiency to prepare a plan very care-fully, and in many instances to employ an experienced and competent person to do the engineering part of the work. This is especially true for drains, since any mistake or defect in the work is buried out of sight, and hence defects cannot be remedied without a plan of the work to guide in discovering the location of the drains.

THE OUTLET

In a drainage plan, the first considera-tion is the outlet. Here it must be said that no part of the drainage is more important than this. For however perfectly the drains may be laid, unless there is a proper outlet there can be no proper drainage. The outlet must be low enough and large enough. Second, low enough and large enough. Second, the position, direction, depth, and size of the mains must be considered, and, third, the laterals. To deal with these questions the total area to be drained, the character of the ground surface, whether rolling or level, and the char-acter of the soil, are determining factors. For instance, the character of the soil to be drained has its influence both on tance apart. In all soils at any season of the year there is a depth at which the ground is full of water, that is to say, in which the spaces among the say, in which the spaces among the soil grains are practically filled with water. The level at which this is found water. The level at which this is formed is called the ground water surface. Where land is drained this ground water does not present a level surface, but rather a rolling or sloping sur-face something like a series of waves of water-the lowest parts of the surfaces being naturally over the drains and the surfaces rising in a more or less gentle slope toward the centre line midway between the drains. This slope or grad-ient of the ground water, it will be seen. carries the ground water, it will be seen, carries the ground water at certain times of the year, as, for instance, in early spring or after heavy rains, very near or quite close to the ground surface. In close retentive soils the ground water gradient is steeper than in more open soils, hence in a close soil the drains require to be placed closer together than in more open soil, else the ground water will stad, too near the ground surface at points midway between the drains, and will prevent the deep root-ing of plants. In the preparation of a drainage plan, therefore, the character of the surface soil as well as the subsoil must be taken into consideration.

WHERE INFORMATION CAN BE OBTAINED In the face of these difficulties many farmers who decide to drain their land are at a loss to know how to proceed. To give this important work a start the Department of Physics at the Ontario Agricultural College, over which I have charge, invites correspondence with far-mers. I am anxious to assist in the charge, invites correspondence with far-mers. I am anxious to assist in the work of farm drainage in every possible way, and, with the approval of the Min-ister of Agriculture, I now announce that my Department at the College will, for any considerable area, take the levels and prepare a working plan, provided the owner will defray the travelling expenses of the one person sent out to do the work. If such an offer be ac-cepted, the work of making the survey may be made the occasion for a practical may be made the occasion for a practical demonstration, by the person sent out, upon the proper methods of draining land. Such a demonstration would fail under the same class as the travelling dairy or orchard meetings, and, at the same time, something definite would be procomplished in the surrow of land. same time, something definite would be accomplished in the survey of land I should be very glad to correspond with farmers upon this proposition.

.48 To Test Soils for Acidity

Prof. H. C. Greene, of the Missouri Agricultural College, gives the follow-ing method for testing soils that are suspected of being too acid to grow clo-

pected of being too acta to great ever: "The simplest and most delicate test is by the use of itymus paper. Cut the litmus paper in strips about two inches long by one-fourth inch wide and have it ready. Then take a sample of soil from the field about three or four in-ches balaw the surface and powder it ches below the surface and powder it without letting it dry. From this sample take say a tablespoon, place in a cup or other open vessel, and add enough rain water to make it of the consistency of thick mud. With the hands perfectly dry place one end of a piece of linear consistency in the mut of a price of litmus paper in the mud, leave for about three or four hours, and then rinse in rain water. If the end of the paper is pinkish red the soil is acid and paper is pinkish red the soil is acid and needs line; if it is unchanged it is neutral and needs no line; but if it is blue the soil is alkaline. Be careful to always handle the paper with dry hands, because the test is so delicate that there may be enough acid on the hands to change the color of the paper and give the wrong results."

A Plea for Better Farming

It is always well to have something to aim and work for, and as "He who aims at a star will shoot higher than he who aims at the top of a tree, even if neither hits the mark," so it is well if neither hits the marks," so it is well to strive after such a standard in crops and stock as will improve the output of the farm, even if one never attains to the mark. Most farmers in our part of the country would save more money than they do now if the static valetd acres were reduced if the static valetd acres were reduced the remainder, the result would be more satisfactory, both in quantity and expense of raising. remainder, the result would by and satisfactory, both in quantity and expense of raising. I would rather have one calf that

I would rather have one calf that was thoroughly well fed and cared for from birth, than a dozen little runts that had put in a hard mest summer on what grass they could pick, and the whey that the hogs left after getting enough to keep them from starving

left after getting enough to keep them from starving. Yet, many calves go into the stable in fall with their hair as rough as a door mat, and in no condition for a satisfactory growth. Most likely they will die before spring, and a good thing if they do; there will be so many less scrub cattle to curse the country later on. country later on.

country later on. —Many men do not seem to realize that a good cow costs no more to the areas the scrub that is in debt for the grass she has eaten every summer. They think that any "crit-ter" provided with horns and a tail, with four legs to carry them round, is good enough, but let those same men get hold or change of programme

Then get hold of a genuine good cow, and a sudden change of programme is apt to follow. If I were rich, I would like to give a good cow and a fine hog to several farmers I know, and take my pay in toting results.

Many grow crops that it would be well to treat, as one man of my ac-quaintance did his potatoes last fall: he ran the mower over the field be-fore he attempted to dig them, to get rid of the weds that stood, some of them nearly breast high. Of course Providence had used him very bally because his notatoes were badly, because his potatoes were about the size of hens' eggs. His neighbor had been cultivating his crop, while this man sat on the fence and talked to every passerby

talked to every passerby. There is hard work enough for most of us in this weary old world, without putting ourselves in the way or more than we are obliged to tackle, and if the final result is nothing more than small potatoes, why, so much the better, but if it is a mort-gage that will turn the family into the street when old age is at the door, I think it would be well to get off the fence, pull off your coat and get to work even if the perspiration does start a little. And it is the men who raise faney

And it is the men who raise fancy crops or stock that can afford fine buildings and good grounds, who can take a trip each summer, and put in a week's pleasure in the city during winter.

winter. The time when any half-witted in-dividual could run a farm as well as his neighbors if he would work well, is gone by. It is a contest of educa-tion, ability, shrewd foresight, and management nowadays. He who would keep in the van must put up his product in the most taking mar-ket astyle, he must use tools as far as provible instead of employing the bill he must understand stock breeding, and above all have an eye for the fa-ture. Some men just find out that horses are in great demand and bring-ing good prices, when every one ing good prices, when every one about them has been raising colts for about them has been raising constored three or four years; consequently these earlier ones are full grown and ready to take all the edge off the market before he is ready to compete.

family to deal with. It is not necessary to invest a great deal of money, usually only to study local conditions, for a local market, if it is a good one, always pays best, as there are no transportation charges and no middlemen's profins to pay. If all your friends and neighbors are supplied with good horses, cat-tle, sheep and pigs, perhaps they will want pure-bred poultry. Last year every one had more apples than they could gather, but the one who picked the blossoms off his trees then, will get his crop this year, when they are sure to be scare. F. H., Quebec.

F. H., Quebec.

.58 The Farmer's Tool-Shop

If there is not him more than an-other that is being neglected about the average farm it is the care of the numer-ous tools and other small instruments which should be found on every well-appointed farm. What a convenience it is in a hurried time, when anything goes wrong about the particular imple-ment you may be using, to know just where to go to get the necessary tools to mend them, instead of having to waste considerable time going from place to place hunting them up, as is

place to place hunting them up, as is very often the case? Every farmer should have a suitable building in which to keep his tools and other small knick-knacks. The building need not be large but should be situ-ated somewhere convenient, and, pre-ferably, separate from the other farm buildings. It should be provided with a window large enough to afford suffi-cient light, and built so that the snow cannot blow in during winter, and have a small box-stove to heat it i occasion required. required.

It may, if found necessary, have all the requisites of an ordinary carpen-ter's shop, but all that is required on the average farm is a carpenter's bench, with a good vise on both ends of it, one somewhat smaller than the other. This somewhat smaller than the other. This bench may be stationary or portable, as required, but a stationary one may be found most satisfactory. It should be provided with a number of shelves around the walls, each shelf with its around the walls, each shelf with its own particular article, and that article kept there and nowhere else when not in use. A suitable place should be found for a ripping saw, a cross-cut saw, a panel, a compass, a lance-tooth and a bucksaw; also a corner for the necesbucksaw; also a corner for the neces-sary planes—the jack plane, the try plane, and the smoothing plane. Other tools which should be found in every farmer's tool-shop are: Augers, brac: and bits of different sizes and shapes, and one of different sizes and shapes, a counter-sink, screwdrivers, chisels, drawing knives, files, a try, bevel, and framing square, gimlets, and the several smaller planes. This should also be the

16 October, 1905

place to put all logging-chains, shovels, picks, axes, etc. If such a place is provided on every farm there would be less loss of the farmer's valuable time, often when it is most needed. J. H. STARK.

Peterboro Co., Ont. .4

Shelling Peas

A four-year-old Brooklyn child was watching the cook shelling peas. She was noticed to be deeply interested in the process. Finally she looked up all of a sudden and said naively: "Oh, let me unbutton some of them." them.

3

Scars on Horses

Stars on Horses There are thousands of horses throughout the country with sears, and consequently thousands of horse owners that would like to rid their animals of these eyes orcs. It is not generally known that it is possible to remove an old scar tissue and heal with hair on and leave no blemish. W. F. Young, P.D.F. , T. Monmouth with a printed slip giving detailed in-struction for removing scars with absorbine, that should be in the hands of every horse owner. It is free for of every horse owner. It is free the asking-a postal will bring it, free for





-----OUESTIONS AND ANSWERS ----

Wart on Horse

(1) Will you be kind enough to let me

(1) Will you be kind enough to let me know through your question column where I can register the name of my farm, situated in Saskatchewan.
(2) Also I have a yearing colt that has a red bloody spot on his neck a little below the ear. Some say it is a wart and that it bleeds because the horse rail doing. Apparently it is a reduce a kind may have be a horse that a horse half doing. is a wart and that it ofecus octable the horse rubs it. It is about the size of a half dollar. Apparently it is only on the skin, and has been there nearly all summer. The horse keeps in good health and spirits.—J. D. D., Saltcoats, Sask.

You had better write the Department of Agriculture at Regina regarding the registration of the name of your farm.

(a) The spot on neck is probably a wart, and will give the animal little trouble. If it is in the skin and has a neck, tie a small cord tightly around it and if it does not drop off in a week tie another cord. When it. It and if it does not drop on m a week tie another cord. When it sloughs off, apply a little perchloride of autimony to the raw spot to destroy the root. This can be repeated stroy the root. This can be repeated every third day. Usually two appli-cations are enough. If the wart is flat and you cannot tie a string around it, scrape off the surface with a blunt knife, and when it stops bledding ap-ply a little of the perchloride of anti-mony with a leather. Scrape the side off in three days and it is inver-tiona the surrounding skin. Then use oxide of zine one ounce, lard two ounces. Apply a little once a day till it is healed. .12

Swelling on Hock

About two months ago a colt, in imping over a wire fence, got a mall cut (but apparently pretty eep) on its hock. The wound is About two months ago a coit, in jumping over a wire fence, got a small cut (but apparently pretty deep) on its hock. The wound is now perfectly healed up, but a hard swelling larger than an egg remains. Will it gradually go away itself, or is there anything I can apply to re-move it?-R.S., Nova Scotia.

Rub in a little iodine ointment once day, and the swelling will gradually disappear.

Sweeny

I have a mare with sweeny on left

shoulder .- Subscriber. shoulder—Subscriber. Sweeny is the name of a wasted condition of the muscles of the shoul-der, and is curable in most, but not all cases. The part should be blister-ed lightly every two weeks with a cantharides blister (cantharides t, lard 6), rubbed in briskly fore ten minuto, it holed in briskly fore ten minuto, it daws without exercise, for daws without exercise, for tied up for days without exercise, for the muscles will not become repaired without use, but on no account should she do heavy pulling.

A Running Sore

I have a five-year-old cow that has a sore just in front of her udder. It is hard and has an offensive odor. Did not notice it until after she had calved. I have been washing it daily with carbolic acid and washing it daily with carbolic acid and weater, orther offen of get any better at the wirer.

does not get any better.—Subscriber. This should be treated by inject-ing the carbolic solution into the wound with a syringe. Make the so-lution of one part carbolic to twenty of water and inject it twice a day. If this fails to heal it up, there is prob-ably a piece of wood, a splinter, or something of the kind in the wound

AND CANADIAN FARM AND HOME

and you should get a surgeon to examine it for you. 38

Influenza

Having lost two horses this year from influenza, what kind of medi-cine would you advise me to give in case any more would take it?—Subscriber

Influenza is not usually a fatal disease, and, if you have lost two horses with it, you have either had excep-tionally hard luck or there must have been some mistake made in looking after the cases. A frequent mistake in dealing with this disease is made in working the horses during the ear in working the horses during the ear-by stages when the presence of the disease may only be detectable by the clinical thermometer. A horse will usually show the earliest signs of the trouble by refusing part of his feed and when this is noticed he should be laid off work at once.

.18 Sore Mouths

Sore Mouths Have two May coits that until ten days ago have been running with the herd. They are both failing fast, slobber at the mouth (a fairly thick, slightly yellow froth) and are dull in the eye. The mouth looks sore about the upper Jaw, outside.—Subscriber

scriber. Examine carefully the inside of the mouth, tongue and checks for sores caused by the penetrating awns of spear grass or foxtail. Nature gen-erally gets rid of these by forming an abscess about them and carrying the sum when it diserally gets rid of these by forming an abscess about them and carrying them off in the pus when it dis-charges. Sometimes, however, the knife has to be used, and you must knife has to be used, and you must use your own judgment. Other con-ditions in the mouth may cause the same symptoms, such as a crop of vesicles (blisters) on the tongue and gums, constituting a disease known as aphtha, and treated by washing the scalution of horas. Or d you must Other conas aphtna, and treated by washing the mouth with a solution of borax. Or you may find trouble with the teeth, though in colts of this age it is un-usual for the teeth to go wrong.

.52 Feeding Horses

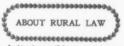
Feeding Horses 1. Should horses be watered before feeding? 2. Should they be fed grain or hay first in the morning? 3. How long should a mare go after foaling before being bred?—New Subscriber, 1 and 2. Horses should be fed hay first in the morning, then watered, then lastly fed oats. There are many

first in the morning, then watered, then lastly fed oats. There are many good reasons for this, which we have not space to discuss at present. 3. The ninth day after foaling is usually the artifiest that breeding can be accomplished, and following that the periods recur about every three works, there a mare is healthy and works, there son after foaling a specing her as soon after foaling as pos-

Umbilical Rupture

Foal has what appears to be a rup ture at the navel, about the side of an egg. When young he seemed to have egg. When young he seemed to have difficulty in getting up and I think he brought on the trouble by struggling. It can be shoved back into place, leav-ing an opening about an inch and a half long, through which it protrudes. J. K. T. Kent Co.

J. K. L., Kent Co. This form of rupture is very com-mon in young foals anl is not due to accident or injury, but is the result of arrested development in the nonof arrested development in the non-closure of an opening which exists in every foal during its prenatal ex-istence. If the rupture is small, as in this case, it will generally disap-pear. If not, it can be eured by a simple operation when the cool fall weather comes on. At present it would be unwise to meddle with it.



In this column will be answered for any paid-up subacriber. Iree of charge, questions of law. Make your questions brief and to the point. This column is an charge of a competent lawyer, who will, from time to time, publish herein notes on current legal matters of interest to farmers. Address your. Address your and the second second second second Farming World, Toronts.

Building Line Fence

A and B own adjoining farms. A has twenty-five acres of bush in which he pastures his cattle, B has three acres pastures ns cattle, B has three acres of bush and ten acres of oat field ad-joining. B's half of line fence is made of logs and brush-much of it not three feet high. A's cattle got over the fence into B's property. B drove them out feet high. A's cattle got over the fence into B's property. B drove them out with a dog and made them jump over fence into A's wheat on three occasions. A asked B to repair the fence, but B refuses to fix or build his portion of same. What is the proper course for A to take to have B put his share of the fence in proper repair and if A should give B noite in writing what is the form of the notice?--D. F. (Newpark). On-tario.

The proper course for A to take to impel B to put his portion of the line compel B to put his portion of the line fence in proper repair is to proceed un-der the provisions of "The Line Fences Act." Revised Statutes of Ontario (1897), Chapter 284. By that Act it is provided that "owners of adjoining lands shall make, keep up and repair a the boundary bothe fee which marks the boundary bothe fee which marks he boundary the same proportion which is no fence they shall so make, keep up and repair the same proportion which and repair the same proportion which is to mark such boundary." The above provision applies to occupied lands, and from your letter we understand that from your letter we understand that both farms are occupied. By Section 4 of the said Act it is provided that in case of dispute between

provided that in case of caspute netween owners respecting such proportion the following proceedings shall be adopted: 1. Either owner may notify the other owner or the occupant of the land of the owner so notified that he will, not less than one week from the service of such

notice, cause three fence-viewers of the locality to arbitrate in the premises. 2. The owner so notifying shall also notify the fence-viewers not less than one week before their services are re-

 The notices in both cases shall be in writing, signed by the person notify-ing, and shall specify the time and place of meeting for the arbitration, and may be served by leaving the same at the place of abode of such owner or occu-



790

pant with some grown-up person resid-

4. The owners notified may within the week object to any or all of the fence-viewers notified, and in case of disagreement the judge of the County Court in which the lands are situate shall name the fence-viewers who are to arbitrate.

The Act also makes provision that the fence-viewers shall examine the prethe fence-viewers shall examine the pre-mises, etc. and shall make their award which shall specify the locality, quantity and description, and the lowest price of the fence it orders to be made, and the time within which the work shall be done and shall state by which of the said parties the costs of the pro-ceedings shall be paid, or in what pro-portion the same shall be paid. The Act also contains provisions for

The form of the ast of the same shall be paid. The Act also contains provisions for the fyling of the award and for the manner of enforcing its provisions. Two of the ence-viewers notified music be fonce-viewers of the municipality in which the lands of the owner notified are situate and the third fence-viewer a fence-viewer of the municipality in which the lands of the owner giving the notice are situate. If the lands of both owners are situate in the same muni-cipality then the three fence-viewers shall all be from the same municipality. The forms of the notices provided in the Act are as follows: Notice to Opposite Party—

Notice to Opposite Party-

Notice to Opposite Party— Take notice that Mr.—, Mr.— and Mr.—, three fence-viewers of this locality, will attend on the day of to view and arbitrate upon the line fence in dispute between our properties, being lots numbers and in the Concession of the Township of in the County of Dated this day of 190 (Sim here)

f Dated this day of (Sign here) Own

Owner of Lot No.

To (Fill in name here.) Owner of Lot No. Notice to Fence-viewers-

Take notice that I require you to at-

tend at on the day of A.D. 190 at o'clock a.m. to view and arbitrate on o'clock a.m. to view and arbitrate on the line fence between my property and that of Mr.—, being Lots Nos, and in the Concession of the Township of in the County

this day of (Sign here) Dated this 190 .

Owner of Lot No. 38

American Institute Workers

American Institute Workers The tenth annual meeting of the American Association of Farmers' Institute on the second second second second test. President Creeluna, of the Ontario Agricultural Collese, Guelph, is the secretary of this association for it. Among those whose names appear on the program are C. C. James, Deputy Minister of Agricul-ture, and G. A. Putnam, Supt. of Farmers Institute Total

Mrs. Duncan Scott, of Lower North River, recently made 15 lbs. of butter in 5 days from two cows. The butter is first class, for we have tested it. She has been selling, it readily for 25c. a pound. She also brings to market re-gularly every Friday, a quantity of beautiful fresh cream, which she sells for 24c, per qt. Their cows are good milkers, and well fed.

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A meat-chopper prepares citron, cocoa-nut, hickory nut kernels and bread and crumbs beautifully.

THE FARMING WORLD

16 October, 1905





his Coat IANUFACTURED BY THE

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FINANCIAL NEWS AND NOTES Some Aspects of Our Wealth

At the present time in our Canada At the present time in our Canada prosperity abounds from the Atlan-tic on the east to the Pacific on the west, and from the international boundary ine on the south to the ut-most limits of settlement on the north. New enterprises are being floated and old businesses enlarged; new railroads are being projected and built and the old lines extended; the

north. New enterprises are being foated and old businesses enlarged new railroads are being projected and built and the old lines extended; the building trades everywhere have for, and nearly all the different lines overling to their utmost capacity to keep pace with the constantly in-creasing demands. And now at this flood tide of our affairs the questions are sometimes asked: "Will it last?" "Will there not be a speedy reaction from this rapid progress?" Before answering these queries there are some facts that should first be looked at. Canada is a country of great natural wealth, in minerals, for each and the pro-sible production of all mither rate of \$60, a1, a00, and this produc-tion is but a small portion of the pos-sible production of our mines. Our equare miles, not including areas known but as yet undeveloped in the far north. To give some idea of the far north as yet undeveloped in the far north. To give some idea of the far north as yet undeveloped in the far north. To give some idea of the far north as the to be found in pro-digious quantities at both east and yeed at the north when required. The production in 1904 was 7,509,800 tons. In connection with these immenses into a coll it is important to note that from ores of the best quality are to be the s nickel mines in the world. This nic-kel was first discovered some twenty-two years ago when making a cut-ting for the line of the C. P. R. and recently the rich silver deposits at Cobalt were discovered while making a cutting for the Temiskaming and Northern Ontario Railway, which goes to show further that in this land of teeming mineral wealth the mining so far done is a mere scratch-ing of the ground, a vertiable pros-pecting, in comparison with what the future in this line will revail. In our forests are to be found an almost expansieless store of palp-wood, and besides quantities of valu-able hard wood, we have a linost at the first out the U. S. will not last much more than another decade. The fisheries of Canada are impor-tant. They employ about \$2000 mera and equinemt value of the catch in root was \$2410000, nearly half of which was \$240000, nearly half of which was \$240000, nearly half of which was \$2410000, nearly half of which

exported.

Last and greatest, consider the

AND CANADIAN FARM AND HOME



great agricultural wealth of Canada. The census of 1901 showed some 63,-000,000 acres occupied, but this has since been greatly exceeded and yet is a very small portion of the lands is the second statement of the lands more over greatly extreme and yet is the examin portion of the lands nettlement. Many millions of a cost of excellent land await the settler, and the great too,000,000 wheat crop of the west of this year will look like a small thing in comparison with the crop that will be produced there when the millions of acres in Manitoba, Saskatchewan and Aiberta. In Mani-toba, with an area of over forty mil-lion acres, the census of top showed less than ten per cent, under culti-vation. The new provinces of Al. berta and Saskatohewan, with about four and a half times larger land area than Manitoba had yet a much smaller portion occupied or cultivation. smaller portion occupied or cultivat-ed. One other fact should be taken into account in this brief review, into account in this brief review, that of our increasing immigration. This is showing rapid growth, the number of declared settlers recorded for the fiscal year 1904, 130,331 being three times larger than for 1899, and it is to be understood that these figures do not nearly represent the tual additions to our population from

The larger population means a larger production from the forms of grains and animal products for which larger production from the forms of grains and animal products for which there is a constant demand. The large immigration of today means still larger arrival's in the approach-ing years of the friends and relatives of those now settled and satisfied in their new land, and whose letters "home" form the best of immigration literature. All of these, unhampered by heavy reits or high priced acres, will speedify become the consumers warehouses of the cast. Lumber and other building materials must find a steady market in supplying the homes required by our larger numbers. The iron and steel mills already have or-ders for all their products for some time ahead in providing for the gen-eral demands of the contry and rails for its new railroad lines. The lay-ing of these new railroad lines and providing their equipment will pro-vide embryoment for large numbers of men for years will come, and when a curve of men to operate them. The bugbear of over-production may be an approaching evil else-

The bugbear of over-production may be an approaching evil else-where, but it does not now appear that it will be felt in Canada in the near future. All of these matters,

and others All of these matters, and others that might be cited; point in the di-rection of a continued and increased prosperity for Canada for some years ahead, at least. .18

Count your mercies often, and you will not have time left to count your losses. Take plenty of time to look or the bright side of your prospects and the dark side will not look attractive enough to be worth your attention.



THE FARMING WORLD

In the Poultry Yard

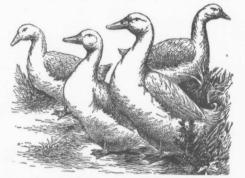
White Pekin Ducks

Of all ducks for farm and practical purposes none stands higher in popu-lar esteem than the White Pekin, valuable for raising on a large scale, and it is the most easily raised of any. It is a very timid bird and should be handled quite carefully. This breed was imported from China the breed was desting the start of the

This breed was imported from China in the early seventies, and has stead-ily grown in popularity since its in-troduction into this country. The Pekin duck has a distinct type of its own, and differs from all others in shape and carriage of its body. With some it is credited with having a shape much like an Indian canoe, owing to the full growth of feathers under the rump and the singular turn-

in the tail of the drake are hard and stiff. The thighs are short and large; shanks short and strong, and in color of a reddish orange; toes straight, orange in color. The plumage is downy, and of a faint creamy white throughout. Recently it has been noticed that preference is given in the show room to birds of white plumage. The breeders are seletting amow white nlumage instead of the snow white plumage instead of the creamy white as given in the stand-

The standard weight of the adult drake is 8 pounds; adult duck 7 pounds; young drake 7 pounds, and young duck 6 pounds.—George E. Howard.



<text><text><text>

Feeding Chicks for Market

Feeding Chicks for Market Spring chicks usually bring about seven cents per pound live weight, when sold without special prepara-tion. A little feeding will give them an extra market value whether sold live or dressed, and will pay tell-mand this year for a good quality, but dealers do not want the poor scrub. Farmers will do well to put heir chicks on the market in good condition; one can make a pound of chicken as cheaply as the can make a pound of pork or beef, and the dif-ference shows in the price. If you have not customers already, ship only considerable shrinkage. The most economical method of are usually made 6 feet long, 16 in. wide and ao in. high inside measure-net, fach crate is divided into the construction the source which hold four chicken as each. The frame is covered with stats placed lengthwise on three

sides—bottom, back and top—and up and down in front. Two inch space between the slats in front enable the chickens to eat from the trough. In warm weather the crates should be placed outdoors in a sheltered posi-tion in the state of the shelter erect a long for upsettled weather erect a bould be placed in a warm building. Abundant ventilation is required at all times.

all times.

all times. Chickens should be put in the crates when from three to four months old, though suitable market chickens of any age will show gain in the crates. Chickens of medium size, broad, square shape, short straight legs, set well apart, and a good constitution, should be selected for fattening.

for fattening. A satisfactory ration is one that is palatable and that will produce a white flesh. Oats, finely ground, or with the coarser hulls sifted out, should form the basis of all the grain mixtures. Ground corn fed in excess will result in a yellow flesh of inferior quality; ground peas im-part a hardness that is not desirable. How mo outs, buckwheat, barley and weals. The followine nost suitable usals. The followine cost suitable L Ground cats (coarse bulb a:

isfactory meal mixtures: I. Ground oats (coarse hulls re-moved). 2. Siftings from rolled oats (no hulling dust should be includ-ed). 3. Two parts ground oats, two parts ground buckwheat, one part ground corn. 4. Equal parts ground wheat. 5. Two is and ground back-two parts low grade floar, one part wheat beck the state of the state wheat is the state of the sta wheat hran

two parts low grade flour, one part wheat bran. The meal should be mixed to a thin porridge with thick sour skim milk or buittermilk. On the aver-age to lbs. of meal require from 15 to 17 lbs. of sour skim milk or buitter mills of sair should be added. With sufficient skim milk or buitter mills and the should be added. With sufficient skim milk or buitter food should be added to ity vegetable food the should be added to ity well fatten more readily than others. These should be should be well dust-ed with subplur to kill the lice. They should be subpured again three days before being killed. Feed, them lightly the first week.

before being killed. Feed them lightly the first week. Give them water twice a day and grit two or three times a week. After first week the chickens should be given twice a day as much food as they will eat. Half an hour after feeding, the trough should be clean-they will be supplied as in the first should be supplied as in the first week



PURE-BRED STOCK

NOTES AND NEWS FROM THE BREEDERS

These columns are set apart exclusively for the use of breeders of pure-bred stock and polity. Any information as to importations made, the sale and purchase of stock and the condition of herds and flocks that is not in the nature of an advertisement will be welcomed. condition of herds and flocks that is not in the nature of an advertisement will be welcomed. Our desire is to make this the medium for conveying information as to the transfer of pur-bred animals and the condition of live stock throughout the country. The co-operation of all breeden is acmusity solicited in making this department as useful and as interesting as possible. The Editor reserves the right to eliminate any matter that he trans consider better suited to our advertising columns.

possible. The Editor reserves the right to eliminate to our advertising columns.
Farming World Man on the Wing Brown Bros, of Lyn, Ont, are a firm of nine year's standing in the Holstein dairy cattle business. Commencing with good foundation stock from Mr. Stevens, of Attica, N.Y., they have by judicing a stand herd that is achieving the standard of the standard standa at the late shows is no criterion of its quality, as it is now in course of preparation for the official tests in October, and it has won the gold medal for the past three years at Ot-tawa, and all birsts but one at Otta-wa a year ago.

tawa, and all firsts but one at Otta-wa a year ago. A visit to the herd of Jas. Crerar, the well known and popular Short-horn breeder, of Shakespeare, Ont, affords the visitar a sight of a splen-did lot of cattle in fine condition. Head B by his imported bull Scot-head B by his pression of the the have achieved hered for the scot-head B by his pression of the scot-head B by his pear was not by any means the winning of the weakest classes, a feat which was to the credit of the well fitted youngsters of the Crear herd. There are at the present time offfered for sale three fine young bulls, among them Scot-tish Prince, now two years of age, and a winner in his class at To-ronto last year. He is a son of imp. Ye in historican Gem of Ballechin. ronto last year. He is a son of imp. Scottish Hero and Gem of Ballechin. He is a massive, smooth and thick-set animal, red in color. A fine dark roan December calf, sired by Scot-tish Hero, dam imp. Belechin Daisy, promises to make a first class herd header for some judicious breeder. Another worthy of consideration is a nice red and white son of Scottish Hero and the Mayflower cow Ruby 4th, an October calf of good promise.

an October calf of good promise. Mr. W. Ische, of Sebringville, Ont., has been for some years engaged in

the breeding of Polled Angus cattle and has a herd of some 30 head of this popular breed in his stables. The and has ank of 20160 Angus cattic this popular breed in his gohead of this popular breed in his gohead of herd is an exceptionally good one, comprising a number of very choice cows, and among the progeny can be found a number of youngsters that would take some beating in any show-ring. Among these is a two-year-old bull, Homestead Gordon, sired by Gordon of tweedhil, dam Favorite of Willow Grave, a cow sired by two for the second the second state and gives promise of a put often seen, and gives promise of a put often seen, and gives promise of a put often seen, a fine and the second superiority. Noble of Willow Grave bred by W. K. Stewart, now two years of age, is a fine bull doing service on the farm. There are several other fine males and a few splendid females for sale at the present time. Mr. W. Subring, of Sebringville, Ont, has for years been known as this year to Herein cattle and has this per state and a production and his herd will bear witness to his success. Those in quest of some-thing practical in dairy cattle will do well to communicate with Mr. Subring. Mr. John Bright, of Myrtle, Ont., in

Suhring. Mr. John Bright, of Myrtle, Ont., in this number makes an offering for sale



W. F. YOUNG, P.D.F., 71 Monmouth Street, Springfield, Mass. andian Agents: LYNAN SUNS & CU., Mestreal



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A horn Cattle-pure Scotch breeding from popular and prize-winning strains.

GEO. B. ARMSTRONG, Teeswater P.O. sta., C.P.R.; Mildmay sta. G.T.R. Si horn Cattle, Scotch topped, from choice mill milking

W. HAY, Tara. Unt., Clydesdale Horses, Shorthorn Cattle, best Scotch strains. Present offering, some choice young bulls, also a number of females.

POBT. NICHOL, Brussels, Ont., P.O. and sta G.T.R. A few good Shorthorns, also a lin ited supply of choice Yorkshire breeding stocl

J. T. GIBSON, Denfeld, Ont., sta. G.T.R. horns. Choice breeding stock in Lincoln Short horns. Choice breeding stock in Lincoln Sheep.

Norma: Choice ordering stock in Lincoln Succession, Streep, H. C. GRAHAM, Alisa Craig, Ont., sta. G.T.R. Shorthorn Cattle of choice milking strains. Also some fine Collie Pups for sale.

THOS. ARKELL, Teeswater, Ont., sta. C.P.R., Mildmay, G.T.R. Choice breeding stock, Oxford Down Sheep.

PETER ARKELL & SONS, Teeswater P.O. and sta., C.P.R.; Mildmay, G.T.R. Oxford Down Sheep, showring and breeding stock, imported and home-bred.

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M. STOCKTON, Redgrave P.O., Harriston stack, C.P.R. Yorkshire Swine, breeding stock from imported sows and boars. Pairs not akin furnished. Write for prices.

J. COWAN, Donegal P.O., Atwood sta., G.T.R. Choice breeding stock in Leicester Sheep and Berkshire Swine.

GRAHAM BROS., Claremont, Ont., P.O. and sta., C.P.R. Clydesdale and Hackney Stal-lions. Write for catalogue.

SMITH & RICHARDSON, Columbus, Ont. P.O., Brooklin and Myrtle sta., G.T.R. Clydesdale Horses, Shorthorn Cattle, imported stock, always on hand. Long distance phone.

T. H. HASSARD, Millbrook, Ont., P.O. and sta., G.T.R., importer of Clydesdale and Hackney Stallions.

M. GARDHOUSE, Weston, Ont. Clyde and Shire Horses, Shorthorn Cattle, Leicester

B. HOGATE, Sarnia, Ont., importer of Shire, Clyde and Hackneys. Write for L

W. colouhoun, Mitchell, Ont., P.O. and sta., G.T.R., importer of Clydesdale and Hackney Horses.

JAMES DOUGLAS, Caledonia, Ont. Short horn Cattle, Leicester Sheep. Stock for sale

BROWN BROS., Lyn P.O., Ont. A number of young Holstein stock of both sexes for sale, from prize-winning and advanced registry parents.

W. GALBRAITH, Dutton, Ont. Shorthorns of good Scotch breeding. Will now offer stock buil, imp. Frince imperial, for sale.
J. MCARLANE, Dutton, Ont. Finely breed Scotch Shorthorns, Oxford Down Sheep and Berkshire Swine, Good imp. Herd buil for sale

W. E. FORD, Dutton, Ont., Shorthorn cattle, Scotch and Scotch-topped. Good indi-viduals, Prices right.

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of Clydesdale fillies, imported and home bred, Shorthorn cattle, and Cotswold and Shropsnre sheep. The fillies which he has to offer are a remarkably fine lot, including a number bought at the recent auction sale of Mr. Flatt, Hamilrecent auction sale of Mr. Flatt, Hamil-ton. Among these is the choice and drafty filly Miss French, a nice brown of heavy scale and good quality, sired by the celebrated premium Baron's Pride stallion Acome, the sire of a num-ber of Clydes which have been winning executive to the absorbing of Could determine the star-det of the start of the start of the start of the start executive to the absorbing of Could determine the start of the start ber of Clydes which have been winning recently in the showrings of Scotland. Rosalie is also a nice brown, of good size and the quality kind of feet and legs, a nice trim and flashy mare, sired by Boghall Mac, and with five recorded dams to her credit. Both these filles were stinted to the Baron's Pride, and the equally celebrated dam, Kate of Bom-bie. He is thus a full trother to the bie. The Chucano chamona, the di bie. The Chicago champion, Earl of Bombie, Graham Bros'. Yester, Mr. Sorby's Baron Bombie, and other prize-winners, are from this lucky cross. Durbar is an H. and A. S. winner, and has never failed to land a premium, being this year selected for the district of Bute. D:ana is a filly of extraorof flute. Dana is a filly of extraor-dimary promise, being toth drafty and flashly, splendid at the ground, a fine mover and good on top. She is a get of the good Sir Everard stallion Argosy, and her pedigree shows rive recorded dams. Royal Namie is another good two-gen-oid, bay in chore with stipe is a good mover and has a well turned looly standing on first class miderping is a good mover and has a well turned body standing on first class mulerpin-ning. She is a get of Royal Champion, he by the favous Lord Lothian. Colum-bus Jess is a thick, low set and drafty mare, sired by Sir Walter imp, dam by Pride of Perth, g.d. Price Imperial, g.g.d. or Bold Bucclengh, g.g.g.d. by the famous Nethersy. Imperial Nell is a good tinck black three-year-old sired by The Archer imp, dam by Prince Imperial, a station, oy the way, which cost \$2,009\$ in Scotland, her g.d. by Const. Scotland's Glory, and g.g.d. by Comet imp. Mr. Bright has also some other horses and filles for sale, among them a very typical and stylish carriage mare

a very typical and stylish carriage mare wini noal by the imported Hackney stal-lion. Royal Drewton, at foot. Among the Shorthorns can be found representatives of the best old families of Uniario Connty, the Crimson Flow-ers, Miss Kamsdens, Lady Raglans and generations from the most carefully-selected bulls, together with the blood of fresher importations. At the head selected bulls, together with the blood of fresher importations. At the head of the herd is the imported Heatherwick bull Royal Archer, sired by Prince of Archers, a son of the great Scottish Archer. His dam is Rosalie 5th, by Radical, he by the Wanton bull Wide Awake, out of Rosebud 4nd, by Socrates. Rose imp. is a fine red cow, sired by Kinsman, another son of Scottish Arch-er. On the farm is a fine two-year-old heifer, her oldest calf sired by Mr. Peter White's bull, Nonpareil Archer. Kity Wells is a fine fleshy red cow of Miss Ramsden breeding, and her bull calf by Royal Archer won first at the show in Ottawa, 1904. She has also a fine two-year-old duaghter in Miss Ramsden by Royal Arener won nrst at the show in Ottawa, 1004. She has also a fine two-year-old daughter in Miss Ramsden 12th and a bull calf from the fine imp-bull Roan MacKay, both of which bear solid testimony to the qualities of the Miss Ramsdens. Stamtode her tribute is a cow which has andded her tribute to the general excellence, being a cow of by the famous Marr-Stamford strain, sired by the Marr-Beauty bull Canada, a son of the Barmpton Hero bull Clan Stewart. of the Barrington riero buil clain Stewart. She has to her credit a pair of twin hei-fers which have at foot fine calves by Royal Archer. Brooklin Queen is a nice cow of Lavinia breeding, a strain noted for their dual purpose qualities and her THE FARMING WORLD

16 October 1905

SMITH & RICHARDSON Importers of **High Class Clydesdale Horses**

We have just landed a choice and carefully selected lot of grand, big horses, of the splendid quality which Scolland's best blood alone can impart. Come and see them at their stables at

COLUMBUS, ONTARIO OSHAWA STA., G.T.R. MYRTLE, C.P.R.

"CLYDESDALES" "HACKNEYS" A few fine Clydesdale and Hackney stallions always on hand. Write to

T. H. HASSARD, Millbrook, Ont.

International Importing Barn J. B. HOGATE, Proprietor, Weston, Ont. Importer of Clydesdales, English Shire, Hackney, Percheron Stallions, and Mammoth Cattalonian **Spanish Jacks**, ranging in height from 14½ to 16 hands. Buy imported Jacks and raise big mules. BARN: Half-mile from C. P. R. and BARN: Hall-mile from C. P. B., and G T. R. Stations, Weston. Nine miles west of City Hall, Toronto. Take Dun-das Street car to Toronto Junction and transfer to Weston Street Railway.

JOHN GARDHOUSE & SONS, Highfield, Ont. Breeders of Scotch and Scotch-topped Shorthorns, Shire Horses, Lincoln and Leicester Sheep. A good selection of young stock of both sexes for sale. Farma 39 miller from Weston Station, G.T. R. and C.P.R. and letteric east from Toronto.

Shire and Clydesdale Horses, Shorthorn Cattle Choice Stock on hand at all times. Customers never disappointed.

J. M. GARDHOUSE, Weston, Ont.

Farmers' Sons Wanted with knowledge of farm to work in an office, 60 a month with advancement steady employment; must be honest and reliable. Branch offices of the association are being established ach omces of the association are being established ach Province Apply at ouce giving full particu-THE VETERINARY SCIENCE ASSOC'N, London, Can

pedigree runs through such sires as Royal Gloster, got by the Cl.pper buil Conqueror, and her dam, Lena, by Glo-ster King, Queen of York is of a good roomy and useful kind, now nine years of age and has at foot a fine 9 months' hall calf, from Royal Archer, Jane of Glen Dhu ard is a nice red three years of the old English Beauty strain, and sired by Valient, Ke leng by the Kind-to the immortal Barmpion's Hero. In sheen Mr. Bright has to ofer a cross pedigree runs through such sizes as sheep Mr. Bright has to ofer a crop of about 30 lambs from his flock, which is bred along the lines of the est flocks in Canada. This includes a rurb r of in Canada. This includes a rurbh r of fine ram lambs. A large flock of espe-cially choice Shropshires, consisting of about 200 ewes and ewe lam s, the flock headed by imp. Historian, bred by J. Harding, and the pick of R. Mil-ler's last year's shipment, a son of Fielde Forture, by M. idstene Inventile. There are also about 60 observing and There are also about 60 shearling and 40 head of two-shear ewes and about 40 ram lambs, all the ram lambs and shearling ewes being for sale. Clydesdales

JOHN BOAG & SON, Ravenshoe P.O., Ont.

THOS. MERCER, Box 33, Markdale, Ont. Breeder and Importer of Clydesdale Horses, Shorthorn Cattle and Yorkshire Pigs. Car lots fer western trade a specialty. Driving Horses handled if ordered.

CLYDESDALES? I have just landed a consignment of Clydes dale stallions which will be offered at a very low price considering the kind and quality. If you are wanting a good one, write or call at my stables at **Howick**, **P.Q**.

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Live Stock Auctioneers T. E. ROBSON, Live Stock Auctioneer,

ILDERTON, ONT. GEO. JACKSON,

Auctioneer, PORT PERRY, ONT. Live Stock a Specialty.

Yorkshire Sales

The Ontario Department of Agri-The Ontario Department of Agri-culture will hold sales of purebred Yorkshire swine at Thedford, on Oct. 19th and at Bothwell on Oct. 21st. These sales are being held for the purpose of distributing good bacon stock among the farmers at these points. .12

O. A. C. Live Stock Sale

O. A. C. Live Stock Sale Parties desiring to buy purebred cattle, sheep and swine should at-tend the annual sale of the Ontario Agricultural College to be held at the College at Guelph on Oct. 25, at 1 pm. sharp. The breds to be offer-ed are Shorthorn, Aberdeen-Angus and Galloway cattle, Shropshire, Lei-cester and Oxford sheep, and large Yorkshire and Berkshire swine.

38 To Import Horses

10 Import Horses Mr. Dugald Ross, Streetsville, Ont., well known as a breeder of Clydes-dale horses, Shorthorn cattle and Yorkshire swine, sailed for the old land on Oct. 7th, and will import a consignment of Clydesdale, Shire and Hackney fillies and stallions, which he expects to land about the middle of November. he expects to of November. .42

More Clydesdales and Hackneys

Mr. T. H. Hassard, Millbrook, Ont., arrived home last week from Scotland with an importation of fif-teen fine Clydesdales and three choice

The Dominion Fair

The Dominion Fair, held at New Westminster, B.C., the first week of October, was a great success. Re-ports seem to show that it was the biggest thing ever held west of Win-nipeg. Eastern live stock and manu-factures were largely represented. A full report. specially prepared by a FAMMING WORLD representative on the spot will appear in our next issue. .35

Gold Medal Winners at Ottawa

The following are the winners of gold medals at the Canada Central Exhibition, held at Ottawa in Sep-

For the best thoroughbred stallion,

For the best thoroughbred stallion, any age-Peter Gorman, Ottawa. For the best pair of matched car-riage horses, in harness-George Pepper, Toronto.

For the best single carriage horse, in harness—George Pepper, Toronto. For the best pair of matched horses, highsteppers, exhibited—George Pep-per, Toronto.

per, Toronto. For the best standard-bred stallion -R. W. Stewart, Aylmer, Que. For the best pair of roadsters, style, speed and value considered--Dr. Boucher, Ottawa. For the best single roadster (geld-

For the best single roadster (geld-og or mare), in harness-E. Cheving or rier, Ottawa.

For the best Hackney stallion, any age-G. Hale, Lachute. For the best saddle horse (geld-

ing or mare) exhibited-G. Pepper, ronto.

For the best team of general pur-pose horses (geldings or mares) in harness—Gorman Bros., Hurdman's Bridge.

Bridge. For the best team of agricultural horses (geldings or marcs), any age -J. Callander, North Gore. For the best team of general pur-pose horses exhibited from the coun-ty of Russell-Gorman Bros., Hurd-wards Index. ty of Russell man's Bridge. The best

For the best purebred heavy draught stallion, any age-Smith & Richardson, Columbus, Ont.

AND CANADIAN FARM AND HOME

Important Auction Sale Of Cattle, Sheep and Swine

Under instruction from the Minister of Agriculture there will be sold at the

Ontario Agricultural College, Guelph, Ontario, on October 25th, 1905

A number of Shorthorn, Aberdeen Angus, and Galloway Catile; Shropshire, Leicester, and Oxiord Sheep; Large Yorkshire and Berkshire Swine.

The sale will commence at 1 o'clock, and will be held in the comfortable judging pavilion at the college farm.

Bids by mail will receive special consideration. For catalogues, apply to G. E. Day, Professor of Amimal Husbandry.

Thos. Ingram. Auctioncer. G. C. Creelman, President.

NOTICE

We have been greatly reducing our herds, but still have a few good Jerseys and a number of Guernseys to dispose of. Breeders will find it to their advantage to correspond with us.

DENTONIA PARK FARM, Coleman, P.O., Ont.

CHAS. BANKIN, wyebridge. Ont. importer Cattle and Oxford Down Shoep. Here bedded by Pride of Scolina (imp.). For Sale - Penales and buils of all ages, from noted Scolch families.



Pure-bred Shorthorns of best imported strains. Present offering-A grand 12 mos. bull calf from imported sire and dam. Address

W. J. THOMPSON, Mitchell, Ont.

Shorthorns, Clydesdales and Shropshires for Sale. Bulls and heifers of approved breeding and uality. Clyde filles, imported and home bred, hearling and ram lambs, imported, Mansell, 'rices Moderate. G. A. BRODER. Bethesda, Ont. Stouffville Sta.

Ashland Stock Farm

Pure Scotch-Topped Shorthorns. Cows bred rom imported stock of grand Scotch breeding. Journe stock of both sexes for sale. Young J. MARSHALL, Jackson, P.O., Ont. Tara Station, G.T.R.

ONTARIO VETERINARY COLLEGE, Ltd. Most successful Vet. Institution in America. Prof. A. Smith, F.R.C.V.S., Principal, Temperance St., Toronto, Can.

DAVID MCCRAE, Janefield, Gueiph, Canada, Importer and Breeder of Galloway Cattle, Clydesdale Horses and Cotswold Sheep. Choice animals for sale.

For the best Shire stallion, any age-Anderson & Stewart, Moose

Greek. For the best Dominion-bred heavy draught stallion—John Wallace, North

Gower. For the best Canadian stallion, any e-C. E. Standish, East Hatley, Que.

Que. For the best stallion exhibited in Class 17, Percherons, Belgians and Normans—Andrew Spratt, Johnson's

Creek, Que. For the best herd of Shorthorn cattle, over I year-Hon. P. White, Pembroke.

MAPLE LODGE STOCK FARM

Scotch Shortherns, Choice Milking Strains, Prize Winning Leicesters, Young Stock for sale-imported and home bred.

A. W. SMITH, Maple Lodge, P.O., Ont.

Pine Grove Stock Farm Breeders of High Class Scotch Shorthorns, Choice Shropshire Sheep, Clydesdale and Hackney Horses,

Second Annual Sale of Shorthorns at farm, Wednesday, January 10th. Herd Catalogue on application. Address

C. W. WILSON, W. C. EDWARDS & Superintendent, Proprie Rockland, Ont., Canada, W. C. EDWARDS & CO., Limited

John Bright. MYRTLE, - ONT.

Choice Breeding Stock in

Shropshire and Cotswold Sheep.

Shorthorn Cattle and Clydesdale Horses

Some fine flock headers in Sheep. Choice young breeding stock in Shorthorns, and some fine imported and homebred Fillies

Myrtle Station G.T.R. and C.P.R. Long Distance Telephone.



TORONTO

For the best herd of Galloway cat-e, over one year-Col. McCrae, tle, ov Guelph.

Guelph. For the best herd of Hereford cat-tle over one year—W. H. Hunter & Son, Orangeville, Ont. For the best herd of Polled Angus cattle, over one year—A. G. Stafford, Compton, Que. For the best herd of Holstein cat-tle, over one year—G. Rice, Tillson-bure, Ont.

tle, over one year—G. Rice, Annou-burg. Ont. For the best herd of Jersey cattle, over one year—E. H. Bull & Son, Brampton, Ont. For the best herd of Guernaey cat-tle, over one year—E. P. Ball, Rock Island, Que. For the best herd of Ayrshire cat-tle, over one year—R. Hunter & Son, Maxville.

For the best herd of Ayrshire cat-tle, under two years, bred and own-ed by exhibitor-R. Hunter & Son, Maxville,

Maxville. For the best herd of French-Cana-dian cattle (Race Canadienne) over one year—L. P. Sylvestre, St. Ther-ese d'Acton, Que. For the exhibitor scoring the

For the exhibitor scoring the greatest number of points on agricul-tural products and garden vegetables -George Canton, Avonmore, Ont. For the exhibitor scoring the great. est number of points in the cut flower class-Mrs. Edgar Johnson, Lennox-ville. ville

For the exhibitor from the Ottawa Valley scoring the greatest number of points on fruit—W. Trick, Billing's

Bridge, For the best two factory cheese exhibited—Arthur Conley, Stanley's

For the best lot of creamery butter shibited-W. H. Stewart, Frontier,

Que. For the best lot of dairy butter ex-hibited-W. Thorne, Frontier, Que.

.4

Markham Fair

The 53rd annual Markham exhibi-tion was beyond all doubt the largest and most successful held in that busy and most successful held in that busy fown. The entry list was twenty-five per cent. ahead of last year in the horse classes. In every other department all previous records were past. Every stall was occupied and temporary stalls had to be provided for many animals. The high quality of note. Great credit is is worthy of note. Great credit is is worthy of show. Though there were big crowds to handle, everything ran smoothy.

note. Great credit is due Secretary Milne for his work in managing the show. Though there were big crowds to handle, everything ran smoothy. The principal exhibitors of live stock were; Horses-Graham Bros, Claremoni: John W. Cowie, Mark-wood; Ja, Senceley, B. Locust Hills, Douglas, Markham, Catle-J, & W. Bussell, Richmond Hill; D. H. Rus-pell. Stouthyle: Miss Karty Miller, J. Baldson, Markham; W. H. Tran, Cedar Grove; J. A. McLeod, Plain-viell stouthyle: Miss Karty Miller, J. Baldson, Markham; W. H. Tran, Cedar Grove; J. A. McLeod, Plain-viell (who exhibited a large herd of Polled-Angus cattle). Sheep-John Scott, Athol; W. Thompson, White Rose; W. Devitt, Greenwood; M. Allin, Newsatle, W. D. Dyer, Co-Jambus; J. W. Widdifield, Uxbridge. Swime-Thos, Teasdale, Concord; L. E. Morgan, Miliker, John J. Bald-win, Colwell Brox, Neucastle.

Big Ayrshire Sale

Owing to the impaired health of the Owing to the impaired health of the senior member of the firm, Messrs, R. Hunter & Sons, Maxville, Ont., have decided to offer for unreserved sale their entire herd of prize winning Ayrshires. The sale will take place at their farm at Maxville on November 15th, and will furnish a splendid opportunity to secure the choicest kind of 'Ayrshire blood at the market price. This herd was founded in 1889 by

selections from the best herds in the country at that time. Since 1900 three importations have been made from Scotland, the largest being in 1903, when 20 head were brought over.

head were brought over. The greatest care has been spared in se-lecting animals for this herd, whether in Scotland or at home, the aim being to secure only those bred from the heaviest milking strains, with good big reats and strong constitutions. Particu-teats and strong constitutions. Particu lar care was taken to secure cows test-ing high in butter fat, for the large cream trade carried on by the firm in Montreal.

That type as well as performance were I hat type as wen as performance were looked after in founding this herd is shown by its splendid show record. The show record of this herd during the past three years has, perhaps, not been equal led by any other Canadian herd. With With the of any other Canadian herd. With two exceptions it won every first prize competed for at the Canadian National Exhibition this year, including both the aged and young herds and all the championships and medals offered. Inchampionsnips and medals offered. In-cluded in the sale is the champion bull at Toronto and Ottawa this year, Less-nessock King of Beauty, and the champ-ion cow for two years in succession at Toronto and Ottawa, Garclough Bloomer and. This bull is the present herd bull, and is methere with the present herd bull. and is, perhaps, without an equal anywhere at the present time. All the sires that have been used have been the best obtainable.

The herd numbers at the present time 50 head, of which 38 are imported or from imported sires or dams, and is ad-mitted to be one of the best on the continent. It will be found to contain several animals that are, perhaps, not excelled, if equalled, in the breed anywhere, Scotland not excepted, and alto-gether is one of the best herds that has ever been offered at public auction in this country. Fuller details will appear next issue.

Live Stock at Portland Fair

The live stock show at the Cen-tennial Lewis and Clark Exposition, Portland, Oregon, was considered very satis-factory by the people on the Coast, and did very much to pile up the surplus the promoters are sure to have at the the promoters are sure to have at the close, the attendance being very much greater than at any other period of the fair, and they quite evidently came to see the live stock, too, for great crowds were always looking at them, and they were, as is usual at these large exposi-tions, given quarters away off in the most out-of-the-way part of the grounds, and it rained almost incessantly; but the people on the coast seem to be used to rain.

The exhibit of cattle and sheep in most classes was indeed creditable, and (Continued on Page 799.)



A large herd of choice Pigs of all ages on hand, quality guaranteed. No other herd has such a record in the show ring, covering several years. Oak Lodge type of hogs are profitable breeders and ideal bacon hogs. Correspondence solicited.

J. E. BRETHOUR, BURFORD, ONT.

HAMPION BERKSHIRE HERD OF CANADA. Winner of Champion ship at leading shows for several years. Splendid importations of new blood, the championship winners of England. Young pigs, imported and home-bred for sale. Pens at Islington, near Toronto. W. H. DURHAM, Box 1052, Toronto.

WARM MEALS AT ALL HOURS.



The next best feed to Carnefac

If you are not already feeding CARNEFAC. we ask you to be guided by the advice of all the best feeders in Canada. It pays them to use it. It will pay you. If your dealer cannot supply you, a card to our office will bring you a pail on trial.

The Carnefac Stock Food Co., Toronto, Ont.

Please mention The Farming World when writing Advertisers.

AND CANADIAN FARM AND HOME

Market Review and Forecast

The Trend of Markets-Supply and Demand-The Outlook

Toronto, Oct. 14th, 1905 I

Trade is reported good in most wholesale lines, and the conditions of general trade throughout the Dominion are of the most encouraging nature. The money market continues firm, with an upward tendency in the rates. WHEAT

The wheat situation remains about The wheat situation remains about the same. Quotations here rule steady at from 74c to 75c for red, with No, 2 white 3/5c higher at outside points. Goose and spring are quoted at 99c to 70c. At writing Manitoba wheat is considerably stronger on good export demand, No. 1 Northern being espe-cially stronger. Manitoba wheat is grad-ing high this year.

COARSE GRAINS

The new oat crop seems to be coming out very slowly, as farmers are busy with fall work and are not marketing heavily. The English oat market is heavily. The English oat market firm, with an upward trend in price which helps to keep up values on this side. The market both here and at Montreal is stronger and prices firm. Here quotations rule at 32c to $32\frac{1}{2}c$ at outside points. About 35c is the rad-ing figure at Montreal. Peas are firmer at about 70c. Barley rules steady at 44c to 50c outside. Corn prices here are largely nominal, with little or no business doing.

HAY AND STRAW

The English hay market has been disappointing of late, owing to liberal receipts from this side, but has improved the past few days. There is a good the past few days. There is a good local demand, and consequently supplies are not accumulating. At Montreal deal-ers have been active, but are finding it difficult to get ocean space to accommo-date shipments. There is a weakness date shipments. There is a weakness in the market for clover and second grades at Montreal, owing to large supplies. No. 1 is in fair demand here at \$8 and No. 2 is dull at \$6 for car lots on.

The baled straw market is quiet at \$6 per ton for car lots on track Toronto.

POTATOES AND BEANS

POTATOES AND BEANS There is a good local, demand here for potatoes at 70c to 75c per bag for car lots. Some New Brunswick pota-toes have come into the city and bring higher prices than the Ontario grown. They are said to be better keepers. Supplies of new beans are coming to market very slowly, and quotations are rather unstable, as dealers do not know what price to pay. Miles do not know what price to pay. Also to \$1.60 per bushel.

EGGS AND POULTRY

Egg exports are increasing, but the English demand is not so keen, owing to large Russian receipts. The Mont-real market is a little easier, with selects real market is a fittle castle, with sectors selling for 22c and candled and straights at 18c to $19\frac{1}{2}c$ to the trade. Receipts have fallen off somewhat here and the market is firm at 18c to 19c, with some dealers asking 20c for choice cases.

While the offerings of poultry are large, there are complaints as to the quality. The market here is on the quiet quality. The market here is on the quet side at the following quotations: Fat hens, 6 to 7c; thin, 5 to 6c; chickens, 8 to 9c; thin, 6 to 7c; ducks, 7 to 8c; turkeys, 13c, all live weight.

FRUIT

There has been much activity in the apple market lately, and the grower with choice. clean winter fruit can get about what he likes. Quotations are rather unstable. We have heard of as high as \$1.50 to \$2.00 per bbl. for choice winter fruit picked. Exporters have been making good money this season. As high as \$5.00 per bbl. is reported for fall fruit XX in the British market. The outlook for big prices is very bright.

DAIRY PRODUCTS

The cheese market keeps up to the Should the weather keeps up to the op notch though the make keeps up. Should the weather keep favorable, there will likely be a big make of November cheese. With prices as high as they are now, there is every inducement to keep the factories open. During the past few days a little weakness is report-During the ed at some of the country markets, though quotations are about the same. markets, At Montreal Quebecs are quoted at 11½ to 11½c and Ontarios at 11½ to 11½c. At the country markets about 11 cents is the ruling figure, offers below 11c reported. with some

offers below 11c reported. The butter market is dull and busi-ness is quiet, especially for export. Fin-est creamery is quoted at Montreal at 221/5 to 23c, and undergrades at 221 to 224/5 per BL. Receipts are large here excepting choice dairy. Prices rule steady at 22 to 221/5 cor solids. Choice dairy and 21 to 211/5 c for solids. Choice dairy and but to 211/5 c for solids. rolls bring 19 to 20c per lb

THE CROWN BANK

LIVE STOCK

Receipts of live stock at Toronto market the past week have not been as heavy as usual. While a firmer tone prevailed in the market, no very definite advance was recorded, though good butadvance was recorded, though good but-chers' cattle sold some higher. Trade in export cattle at the city market does not amount to much, as the bulk of that trade goes through the Junction mar-ket. Very few first class exporters, therefore, are offering. Owing to de-pression in the British market, and the pression in the British market, and the there was little doing. Quite a few lots of inferior stuff were on hand, but are not wanted. The highest quota-tions for those offering was \$4.35, though are not wanted. The highest quota-tions for those offering was \$4.35, though \$4.75 per cwt, would have been paid for choice animals. Good butchers' cattle are in demand, and a firmer feeling prevails, but here also the quality was far from being what it ought to be, Choice butchers' sell at \$4.00 to \$4.25, good at \$3.80 to \$4.00, medium at \$3.60 good at \$3.50 to \$4.00, medium at \$3.60 to \$3.75, and other quality at \$3.75 to \$3.00 per cwt. There is a brisk trade for good stockers and feeders: Best feeders, 1000 to 1150 lbs. each, at \$3.70 to \$4; medium feeders, 1000 to 1150 lbs. at \$3.40 to \$3.70; best feeders, 830 to 100 lbs. at \$3.35 to \$3.75; medium feeders, 830 to 1000 lbs. at \$3.40; be $\frac{3}{2}$ yaarlings (siccers), 600 to 1730 lbs. to 1000 lbs. at \$3.35 to \$3.75; medium stock heifers. 700 to \$530 lbs. at \$3.40; to \$2.65; common stock steers, 700 to 850 lbs., at \$2.40 to \$2.65; common stock steers, 700 to 850 lbs., at \$2.40 to \$2.60; common light stockers, 400 to 600 lbs., at \$2 to \$2.25.

> Capital Authorized. \$2,000,000.00.

Head Office, Toronto, Ont. EDWARD GURNEY.

PRESIDENT

Special Attention given to Accounts of Cheese Factories, Drovers and Grain Dealers, and all out-of-town accounts.

Farmers' Notes Discounted, Farmers' Sales Notes Collected and Advances Made against their security. Municipal and School Section Accounts received on favorable terms

OF CANADA

SAURCE BACKDONG Section Accounts received on inversion corns.

G. de C. O'GRADY, General Manager.

The Canadian Produce Markets at a Glance

The highest quotations of prevailing prices for standard grades of farm produce in the leading markets on the dates named. Poorer stuff lower.

	Toronto		Montreal		St. John		Halifax		Winnipeg		
Date		14		14		1.2		11		11	
Wheat, per bushel	\$ 0	75	15 0	82	s .		s		\$ 0	7834	
Oats, per bushel		33		36		43		44		20	
Barley, per bushel		50		46		55		56		36	
Peas, per bushel		70		75		77		78			
Corn, per bushel		62		63		65		66			
Flour, per barrel	3	40	4	80	5	50	5	50*	3	40	
Bran, per ton		00	15	50		00		00	13		
Shorts, per ton	18	00	20	50	20	00	20	00	15		
Potatoes, per bag		75		65		50bu		50bu		60	
Beans, per bushel	1	80	1	60	1	80		90		75	
Hay, per ton		00	8	50	11	00	12	00		00	
Straw, per ton	6	00	5	50	9	00	9	50			
Eggs, per dozen		20		22		20		21		21	
Chickens, per pound, d.w		98		10	per	90		90	1007 \$	13	
Ducks, per pound, d.w		8		10	pair	1 00	1	00	10. 1	12	
Turkeys, per pound, d.w		13		15		18		18		18	
Geese, per pound, d.w		7		9		16		16		11	
Apples, per barrel	2	50	3	00	3	50	3	50	4	00	
Cheese, per pound, d.w		1214		11 5%		12		12		13	
Butter, creamery, per pound		23		23		24		24		22	
Butter, dairy, per pound		20		20		20		20		16	
Cattle, per cwt		15	4	75	5	50	5	00	3	25	
Sheep, per cwt		25	4	15	5	50	5	00	4	50	
Hogs, per cwt		25	6	75	7	00	7	00	7	00	
Veal Calves, per cwt	6	00	5	60	5	00	6	00			

There is a good demand for milch cows, with prices ranging from \$39 to \$55 each. Calves are in good supply, and average about \$8 each or from \$3.50 to \$6 per cwt.

Trade in sheep and lambs is fair, with at \$4 to \$4.15, bucks at \$3 to \$3.50, and lambs \$5.40 to \$5.80 per cwt. Hogs are a little higher than at last

writing, and are quoted at \$6.25 per cwt. for selects and \$6 for lights and fats. Some dealers think prices will be lower this week.

HORSES

The horse market here continues ac-tive. The supply, however, is about equal to the demand. Dealers are still com-plaining that people who have good horses are asking more for them than the market will warrant them paying. the market will warrant them paying. A pair of fine chestnuts that cost \$1,300 laid down in Toronto were shipped to a buyer in Montreal last week. They were bought near London. The following are prevailing prices at the Repository here:

ingle roadsters, 15 to 16 hands, \$125 bigge foasters, is to it nands, \$120 to \$175; single cobs and earriage horses, 15 to 16.1 hands, \$120 to \$180; matched pairs and carriage horses, 15 to 16.1 hands, \$200 to \$500; delivery horses, 1100 to 1200 lbs, \$125 to \$160; general purpose and earriage horse horses, 1100 and express horses, 1200 to 1350 lbs, \$120 to \$175; draught horses, 1350 to 1750 lbs, \$160 to \$220; serviceable sec-ond hand workers, \$50 to \$80; service-able second hand drivers, \$60 to \$85.

38 Maritime Markets

Halifax, N.S., Oct. 11, 1905.

Fresh made creamery butter is scarce at the present moment owing to shrinkage of milk which is cus-tomary at this time of the year. New Brunswick creamerics quote prints and boxes at 23 cents. It is expect-ed that the situation will be somewhat relieved as the cheese factories, which take a large amount of milk,

which take a large amount of milk, will soon cease operating. Cheese are in small supply. The make in New Brunswick and P. E. Island being smaller than usual. Twins are quoted here at 12 cents and flats at 12% cents. Eins good demand at 20 cents for laim good demand at 20 cents for laid took and 21 cents for Nova Seotia.

for Nova Scotia. The meat market is fairly well supplied with everything excepting pork

plied with everything excepting pork which is very scarce. The oat crop is not equal to first reports and an advance of two cents per bushel has taken place and the market will likely remain firm. The demand for feeds is quiet but will be improving scool. Beans are report-ed from points of production as showing good prospects both for quality and price. In native firmits there is a little of everything on the market. Apples

are in good supply but the quality is anything but good and first class stock is scarce. No. 1 Gravensteins will bring from \$3 to \$3,75 per barrel, other grades are quoted from \$2,50 up. .18

Prince Edward Island

Prince Edward Island The opening lecture in the Farm-ers' Pavilion, Charlottetown Ex-hibition, was heid on September 27th. Mr. E. B. Elderkin, president of the Maritime Stock Breeders' As-sociation was in the chair. Mr. C. M. McRae, Ottawa, in speaking of beef production, said that what is wanted today is an animal weighing from 1,200 to 1,500 lbs. The best age wanted today is an animal weighing from 1.200 to 1.500 lbs. The best age is from two to three years. An ani-mal makes more out of the food you feed it in the first year. Feed and breed cattle well and good results may be expected. Steer beef is the best. best

The call well and good results in a be expected. Steer beef is the bar, yor Shepherd, of Queenston, Ont, said that the fruit exhibit sur-passed everything is fraid agen in the land is admirably adapted fored the land is admirably adapted fored the land is admirably adapted fored the should always command a ready sale in the English markets. He empha-sized the need of proper cultivation of the orchard. Trees should be care-fully sprayed, trimmed and pruned. Coal oil, soap, etc., is a good remedy for certain kinds of insects. A mix-ture of lime and suphur will kill the San Jose scale and stimulate the growth of the tree. The proper time to prune is in early spring. Mr, Gilbert DesRoches, of Mas-couche, was in the city attending the evaluation. He is the great oyster the year's scale and submire days after the year's scale and submire days after the year's scale and the la-land, and he western part of the la-land. The combine the day after the part shipped a young Short-horn bull to Trinidad. This is the tild slipment made from his herd to Trinidad.

to Trinidad. At the Charlottetown exhibition-the display of gilt-edge dairy butter was highly creditable to our farmers' wives and daughters. F. Lang, Mrs. O'Sullivan and Mrs. W. G. Durke carried off first prizes. For cheese. Mrs. J. R. Drake and A. McMillan work first prizes. won first prizes.

There was an excellent show of pots and vegetables. Mammoth roots and vegetables, Mammoth squashes, polatoes, mangels, turnips, cabbage, cauliflowers, etc., were view-ed and admired by thousands of peo-ple. In Mr. Burke's exhibit of gar.-den vegetables there was a collection of small tomatoes representing **a**

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LIVE STOCK

SHROPSHIRE Rams and Ewes of all ages for sale at reasonable prices. & SONS, Ridgetown, Ontari

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"WANTED-Men possessing character and fair ability to sell to farmers and townspeople, pay weekly. By applying to address below, such persons will be advised of an opening in a reliable company. We are not in the Book, reliable company. No are not in the Book, 49 Wellington St. East, Toronto, Ont.

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BUFF ORPINGTONS-8 breeding pens this season, headed by imported and prize stock. Eggs 51.09, \$4.00 and \$3.00 per setting. Incu-bator gggs \$3.00 per 100. Write at once for free ontalogue describing them. J. W. CLARK, Pres. Orpington Club, Importer and Breeder, Cainsville, Ont.

FOR SALE.-A choice lot of Barred rock cockerels, These birds are well bred and will please. Prices reasonable. Write to A. S. WERDEN, Bethel, Ont.

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16 October, 1905

number of different fruits. In this scellection are tomatoes closely re-sembling pears, plums, currants, cher-ties, peaches, apples, etc., showing the fruit faulties of the county. That of last year. Se would be the the fruit achility was smaller third where the second second second second that of last year. Se shown, Mr, a splendic schibit, and Mr. E. G. to the extent of 54 different varieties, and groups the trophy exhibit there was a fine cluster of strawberries pick-eas of the previous day from the pleaks of Mr. F. Boyce, of low 40, are pleaks of the review. A splendic second second pleaks of the review of the second action pleaks of the review of the review of pleaks of the review. The second second pleaks of the review of the review of the second second second second second the second second second second second the second second second second second second second the second second second second second second the second second second second second second second second the second second second second second second second second the second secon

.58 Live Stock at Portland Fair (Continued from Page 796.)

Live Stock at Portland Fair (Continued from Page 786.) although several of the best herds and focks came from the East, the home exhibits at yor creditable. To be sure that have yor creditable. To be sure that have ever seen them in the Con-base of the Stock and the stock fatter states above were feel to Oregoo. We have been seen them in the Con-base of the Control of the second states of the second of the second states are duration of long wools, these classes were particularly well stilled for the pro-particularly well stilled for the pro-sate of presented the still well as the state of presented the still well as the state of presented the still well as the state of the states are and the states are states at a state of the presented the states at a state of the presented the states at a states at a state of the states at a states at a states at a state of the states at a H. M. Vassey, Ladner, B.C., practically divided the Oxford list of premiums between them, leaving scarcely any for their competitors, and each showed a flock of good quality. Shannon's being largely of the shorter legged, thick type, while Mr. Vassey's had perhaps more weak.

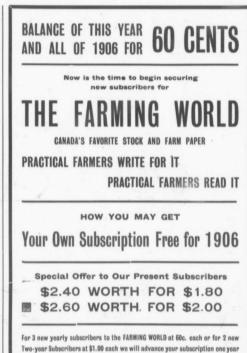
Altogether the Canadian exhibit Attogenter the Canadian exhibit in the sheep was as usual very creditable for Canada, practically taking all the cream of the list in the classes in which they competed—J. G.K.

Tom-Are you deaf to my pleading? Eva-I am.

Tom-But what if I were to offer

you a diamond ring. Eva-Oh. I am not stone deaf.--Chicago News.

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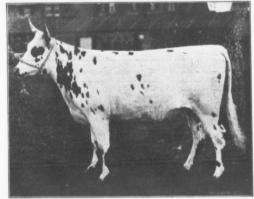
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