

THE FARMER'S ADVOCATE.

EDITORIAL.

The "little red Scotch Shorthorn" does not appear to be in any immediate danger of losing his grip upon the esteem of the hard-headed British breeder, judging from the results of the great annual sales in Scotland recounted in the Nov. 1st ADVOCATE.

The purchase, during the past two weeks, and shipment of two carloads of young pure-bred bulls in Middlesex Co., Ont., for the improvement of British Columbia stock, as reported in another column, is one of the hopeful signs of the times. As a rule, such buyers do not make their appearance till the early spring.

At a meeting of the Council of the Yorkshire (Eng.) Agricultural Society, Mr. Arthur Egginton drew the attention of the Council to the evils resulting from the over-feeding of stock for show purposes, and suggested that a code of rules should be drawn up for the guidance of the judges. After considerable discussion the suggestion was unanimously adopted.

The remarkable increase in the use of commercial fertilizers is illustrated by the fact that in the U. S. in 1890, the capital invested in their manufacture amounted to \$40,594,168, furnishing employment to 10,000 men. The output of fertilizers was about 1,250,000 tons, valued at \$39,180,884. In 1894 the output nearly reached 2,000,000 tons, while the capital invested increased in a still greater proportion.

If the outlay on capital account for sheep is taken into consideration as compared with other industries; also the relatively small amount of labor which they take; also the cheapness of structure necessary for their house, and then add to these advantages their great value in bringing fertility to the soil, we must conclude that a great many more sheep than are now found in Canada could be profitably kept.

English Live Stock Journal:—"It is reported that the proposed holding of the Dairy Conference of 1897 in Canada has received a large measure of support from the members of the British Dairy Farmers' Association. Indeed, we are informed that the promises of taking part in the excursion across the Atlantic are so numerous that there is a fear that the number of those who desire to be members of the party will become unmanageably 'large."

The agricultural returns for the Board of Agriculture of Great Britain for the year 1894 give the following statistics as to the live stock of certain of the chief countries of the world :--

J. A. S. Macmillan's Shropshires. The very striking illustration upon the title page of this issue has been prepared by our artist from a photograph of a few representative sheep from the large flock of pure-bred Shropshires owned by J. A. S. Macmillan, Brandon, Man. Mr. Macmillan's Shropshires are now becoming so well and favorably known throughout the West that a detail description of the flock would probably be superfluous at this time. Suffice to say that Mr. Macmillan personally selected the foundation flock from such celebrated English breeders as Mrs. Barrs; Mansell; Ingers, and others. And new rams are imported every year for use in the flock. This flock has been well-represented at the leading shows for the past three or four years ; and their winnings this year, which included seven 1sts, six 2nds, and three 3rds, at the Winnipeg Industrial; nine 1sts, four 2nds, and four 3rds, at the Territorial Exhibition at Regina, should be ample evidence that the sheep of this flock possess high individual merit as well as good breeding.

Mr. Macmillan reports the past season as a very satisfactory one; the sheep have done well, and sales have been good. Among the larger sales recently made are the following: McIntosh & Co., Calgary, 55 head; Geo. Hope Johnston, Calgary, 40 shearling ewes; the Lethbridge Sheep Co., Irvine, N.-W. T., 15 ram lambs; Count De Soras, Whitewood, 10 ram lambs; and W. H. Upton, Whitewood, 10 ram lambs and 7 two-shear ewes. I wo farms are kept : one south of Oak Lake, and the home farm, which is just two miles south of Brandon, where sheds have been erected and a large supply of fodder provided. While quite a bit of hay is put up, the main fodder will be sheafoats, cut green - one hundred and seventy-five acres being in oats this year. Thirty acres of oats and tares were tried, and proved a good crop. There were also five acres of turnips on the home farm, which were being stored at the time of our visit; the balance of the 350 acres now under cultivation being in wheat, barley, etc.

Now that an export trade in sheep has been established, there should be a largely increased demand for pure-bred rams; for if profit is to be made out of the business, pure-bred rams must be used; in order to get sheep of good quality.

In swine, no pure-breds are kept, except for crossing: the Tamworth - Berkshire cross having been tried with very gratifying results.

Mr. Macmillan is a lover of a good horse, and has faith that money can be made in breeding horses of good quality. He is now the owner of seven drivers and two saddlers. His handsome black driving mare, Ludy Peri, five years old, got in a good second to the light bay mare shown by Christie & Fares at Brandon summer fair He also has a three-year-old Dexter-Prince Standard-bred, recently from California, which he thinks promises to develop considerable speed.

The Agriculture of Canada -- Thanksgiving Day Reflections.

[By C. C. James, Deputy-Minister of Agriculture for Ontario.] The wealth of every country is a product to which all classes contribute, or should contribute. If, however, we trace it back to its source, we shall find that four streams contribute to the volume, namely, the product of the farm, the forest, the fisheries, and the mine. The variations in our national wealth and the general condition of our national wealth are controlled largely by these four sources. In Canada, these four great industries give employment to a very large portion of our population. In 1891, out of 1,659,355 workers in all classes, 790,210 were engaged in agriculture, fishing, mining, and lumbering. The relation of the various classes of workers may be stated briefly, thus : Of the total persons having occupations, 47.6 percent.were engaged in agriculture, mining, fishing, and lumbering; 19.3 per cent. were engaged in manufacturing and mechanical pursuits ; 14.9 per cent. in domestic and personal services; 11.2 per cent. in trade and transportation ; 3.8 per cent. in professional avocations; and 3.2 per cent. were in the non-productive class. The 790,210, forming nearly one-half of the total workers, were divided into the following classes: Agricultural, 735,207; fishing, 27,079; mining, 15,168; lumbering, 12,756. The annual agricultural productions of Canada amount to about \$500,000,000 in value ; the forest products, \$80,000,000; the mineral products, \$20,000,000; and the fisheries products, \$20,000,000. It will thus be seen that the four streams or fountain sources of wealth aggregate \$620,000,000 a year, and that fourfifths of the total volume comes from the farm. No wonder, then, that when agriculture prospers our whole country prospers, and that Thanksgiving Day is postponed until the year's harvests have been gathered and the farmer has balanced his ledger

The times have been hard, unusually hard, and have weighed excessively upon the farmers of Canada; and yet they have not lost heart. The farmers of Canada come from hardy stock,—the best of the yeomanry of England, Scotland, Ireland, and Germany, in addition to the thrifty French-Canadians, who may be considered almost as being native to the soil. When these nationalities shall have coalesced, the product will be a rural people unexcelled, if not unequalled.

Another cause of hope in Canada's future lies in the fact of our variety of resources. We have coal in abundance in our Maritime Provinces, east and in abundance in our Maritime Flowinces, customerative west; iron in every Province except the prairie sections; gold in Nova Scotia, Quebec, Ontario, and British Columbia; copper and nickle to supply the marite calt petroleum, and natural gases We world; salt, petroleum, and natural gases We have cod fisheries on the Atlantic coast, salmon on the Pacific, and our inland lakes and rivers also contribute large quantities of varied kinds. The timber limits of the older Provinces still contribute the larger portion of the legislative revenues, while the enormous forests of British Columbia and Labrador have been only partially explored; and the agriculture of Canada is even more varied. Prince Edward Island, long noted for its sheen and Prince Edward Island, long noted for its sheep and its horses, is making a special effort for recognition as a dairy Province; Nova Scotia grows some of the finest fruit in the world, in the rich and beautiful innest truit in the world, in the rich and beautiful Annapolis Valley; New Brunswick has, as yet, developed no great specialty, but is making a general advance in methods; Quebec, with abun-dant hay and rich grasses, holds her high record for Eastern Townships butter; Manitoba grows the best wheat in America; the N. W. Territories are building up a series of magnificent stock ranches in building up a series of magnificent stock ranches in some sections, and in others general farming is de-veloping well; British Columbia will soon have a surplus of fine fruit; as for Ontario, the Central Province, her cheese, her apples and peaches, her barley and peas and oats, her cattle and sheep and horses, all take rank unsurpassed in the world's markets. While we have a variety of resources and a variety of industries, we can also claim a wonderful variety of agricultural products, and in this there is reason for concluding that the continued prosperity of this country is assured. Now, permit a few words of particular reference to the high quality of our Ontario agricultural products, for the country that can continue in the production of a superior article is sure to hold a high place in the markets of the world. In the matter of live stock there is no other part of North America that has reached such high excellence in the keeping of stock of so many breeds as the Province of Ontario. The Chicago records were most conclusive. Many of the best herds of the United States, especially of cattle and sheep, have been built up upon Ontario stock. Even Great Britain has drawn from our resources. The celebrated Forest Grove herd of the late Col. Moberly was sold on Oct. 23rd. Advertisements of it gave the pedigrees of 21 of the choicest Shorthorns; of these, 8 at least were Ontario stock. Within the past month, Prof. Curtis, of the Experimental Farm, of Iowa, has visited this Province, making extensive purchases of sheep and swine. Further illus-trations could be given, but we shall rest content with making reference to the compliment paid to Ontario by The American Sheep-Breeder in a recent issue :--

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Thursday, Nov. 21, is Canada's national Thanksgiving Day, on which special acknowledgment is made of the year's blessings, which include, generally speaking, a very abundant harvest, though some localities suffered from adverse conditions of weather. In the Great Northwest the crops were magnificent. Prof. C. C. James contributes, in another column, an able and interesting article appropriate to the occasion. In no country has the farmer passed through stringent times with as little complaining as in our own Dominion. On Thursday, 21st, the stout-hearted Canadian farmer will demolish his Thanksgiving turkey—to enjoy it in peace and comfort who has a better right?

During 1894 and a portion of the present year, negotiations were carried on through the Imperial authorities with the U.S. Government anent the recognition of Canadian records at the boundary, but nothing satisfactory was the outcome, on the technical ground that because the various recognized pure breeds recorded here had not "originated" in Canada there was no discrimination. It appears that further representations have been made from Ottawa, attention being called to the so-called French Canadian Jersey or Canadian cow as one originating in Quebec Province. As might be supposed, the U.S. authorities have just replied that they are not satisfied from the evidence submitted as to the breeding standard of these cattle, and no change in their attitude is deemed advisable.

Thoughts for the Dairy Farmer.

Dairying, like other branches of farming, is sub ject to ups and downs, but the stability of the cheese market for a couple of decades past is well worthy of note, and has been a subject of frequent comment. During the past season the price of cheese sagged down considerably, though not as low as summer cheese once dropped, temporarily, a good many years ago, but latterly markets have improved. There has been a strong demand, with good prices, for butter. Canadian creamery butter is now making a place for itself in the British markets. We notice that it is being regularly quoted in provision reports sent out from Liverpool, arrivals meeting with "a ready sale as landed." Canadian cheese retains its place of preeminence, but no opportunity or means should be neglected to keep up the march of improvement in order to meet competition. Prices for a time may not have been encouraging, to the new cheese factories and patrons more particularly, but the older ones will not be seriously disturbed. Heretofore those who have pursued dairy farming intelligently and with steadfastness of purpose, have had their reward, as in other specialties, and so it will be in the future. None of us relish a depression in prices, but it is not without good if it compels a closer study of the business, from the selection, breeding and feeding of the cow, right on through every detail of the business, till the finished product is landed in the territory of the consumer.

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THE FARMER'S ADVOCATE.

"Ontario is a capital sheep country, and has the location, climate, soils, grasses, farm management and shepherds that make the industry alike engaging and successful.

ontario, and, for that matter, all Canada, might be called the land of bright waters."

As for our dairy products, the North British Agriculturist made a slip lately, but afterwards apologized so fully and profusely that our cheese and butter stands even higher, as a consequence, in British estimation. The cheese of Ontario still stands supreme. The Gazette (of Montreal) gives the quotations in that market on November 4th as follows : Finest Ontario, fall makes, 95c. to 98c.; finest Quebec, fall makes 95c. to 93c. Townships dairy butter, however, keeps ahead of Western dairy. We make no oleomargarine or butter substitutes ; we send out no filled cheese, and the Breeders' Gazette (of Chicago) lately stated : "The cheese bill which England paid last year was \$26-000,000 - a tidy litte sum for casein and butter-fat. Of this amount, Canada received \$13,000,000, and the United States, \$7,800,000-somewhat more than half the amount paid Dominion cheesemakers. If official reports are to be trusted, the decline in our export trade is due to our marketing of spurious goods-filled-cheese and skims-as full creams Canadian cheese has preserved a better reputation than our own, and hence is taking our trade.

As for fruit, we are just beginning to find out what we can do. Many of our own people are in great ignorance of our possibilities. It is not generally known by Canadians that the finest peaches in America are grown in Ontario; as for apples, we shall make a quotation from a report made to the U. S. Government by the Consul at Belfast. It is taken from a late official publication of the U. S. Department of Agriculture :--

U. S. Department of Agriculture :--"The supply of green apples comes principally from the United States and Canada, and because of their keeping qual-ities and prices they are in good demand. For several years Canadian apples have been growing in popularity, not because they are better, but because the buyer feels surer of getting the quality and quantity he contracted to buy. The mer-thants complain bitterly of the alleged deception of the Ameri-can shippers. They assert that they never know what they are going to get. The apples look well on the top and bottom of the barrel, but often are absolutely worthless after getting down several layers. Another deception alleged is the small-ness of the barrels, such as straight staves, and a stave less to the barrel. The merchants report that the Canadian apples are sounder, are packed with more care and evenness through-out, and that the barrel is larger ; and, as a result, the Can-adian fruit is constantly increasing in demand." On the subject of meats, the U. S. Consul at

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Liverpool reports :--"Owing to the fluctuations which have of late years characterized the movements and values of meats of various. characterized the movements and values of meats of various countries, it is difficult to speak with exactness as to whether countries paid for American bacon and hams are relatively the prices paid for American bacon and hams are relatively the prices paid for American bacon and hams are relatively the prices paid for American bacon and hams are relatively the prices paid for American bacon and hams are relatively the prices paid for American bacon and hams are relatively the mats, but it may be stated briefly that, owing to the superior whiteness and solidity of the Canadian wheat and pea-fed meats, they realize here on an average 97 cents to \$1.21 per hundredweight more than the same cuts that are packed in and shipped from the United States." The U.S. Consul at Glasgow reports.

The U.S. Consul at Glasgow reports -

"United States sheep, as a rule, sell relatively lower than Canadian. They do not "kill out" as good mutton or weigh as well to their appearance as those from Canada."

Respecting cheese, the U.S. Consul at Liverpool

reports :— "The prices for best American are generally from 24 cents to 48 cents per cwt. below best Canadian, but from 48 cents to to 48 cents per cwt. below best Canadian, but from 48 cents to to 48 cents above New Zealand. The Provision Trade Associa-rion, in criticising the cheese, says that the trade in American tion, in criticising the cheese, says that the trade in American to a considerably prejudiced by the large shipments of cheese is considerably prejudiced by the large shipments of the source of filled-cheese, manufactured chiefly in Illinois and bogue or filled-cheese, manufactured chiefly in Illinois and wisconsin, and are of opinion that it should be put a stop to. Wisconsin, and are of of filled-cheese and greater care in the hibition of export of filled-cheese and greater care in the manufacture of the best, so as to equal the Canadian in qual-manufacture of the best, so as to equal the cheese getting ity. Care should be taken to prevent the cheese getting heated in New York or while in transit during the summer months." We may be thankful for the high stand taken by our farm products. That position has not been achieved by accident or good luck—back of it lies patience, perseverence, hard work, ambition, hon-esty, and the natural advantages of soil situation and climate to all these are sufficient causes to arouse and climate; - all these are sufficient causes to arouse the thankfulness of the entire Canadian people. But one of the strongest reasons for encouragement is the great intellectual activity aroused among the farming community, and it is still increasing. The farmer, the farmer's wife, his sons and his daughters are awake to the importance of true education. Farmers' meetings are increasing ; the cuucation. Farmers' meetings are increasing; the circulation of farmers' papers is increasing. The many associations, the institutes, the travelling dairies, the great leavening press, all these have been at work, and never before in the history of the country has there been such a thirsting for more knowledge; —it is a most hopeful condition. Let us sum un. Canada is largely agricultural. Let us sum up. Canada is largely agricultural; her greatest interest is that of agriculture, her prosperity is essentially dependent upon her agri-culture; there is no country on the globe better fitted by nature for growing the varied products of the temperate zone; her people acknowledge no superiors for hard and honest work; her varied products hold their own both in the friendly com-petition of nations and the more important struggles for place and recognition in the great markets of the world. Then, there is cause for thankfulness and for any the set to set the mark house the set of the set and for confidence; although drouths may be severe or markets be overstocked, or prices may be severe there is no other calling that can stand adversity as that of agriculture. The industricus farmers are the salvation of this country, and their work is worthy the most intelligent consideration and the worthy the most intelligent consideration and the most generous encouragement on the part of those to whom especially the great national interests have been entrusted.

Do Not Delay -- Act To-day. A FEW PLAIN FACTS FOR READERS OF THE

FARMER'S ADVOCATE,

Thanksgiving Day Proposition.-Thanking our friends for past favors, and for the hearty words of commendation that have come from all quarters, we count on their continued co-operation. To secure, say, one new reader will cost but a small effort, yet in the aggregate it will mean thousands, enabling us to broaden and improve the service we are now rendering. Reader, have you a neighbor or friend who would be interested and helped by reading the FARMER'S ADVOCATE? They will now be considering what their next year's reading will be, and a word from you will help to place them on our list. You could not do them a better turn. We propose to fulfil our part of the contract.

The Best.-Cheaper agricultural papers may be found, but cheapness does not-can not-give quality. In the market-everywhere, to-day-quality pays. Men have found some of these "cheap," and even some very pretentious, sheets dear in the end. We do not spare cost or toil in giving the most, the freshest and the best practical matter, well printed on superior paper and handsomely illustrated. In fact, we are often asked how it is possible to give so large and costly a paper at the modest rate of \$1

Seasonable and Up-to-Date.-We aim to present per year! in these pages promptly, concisely, and in plain language, the facts of successful experience in all branches of farming, and whatever will tend to promote the best interests of farmers and breeders. By contributions and suggestions our readers can help in this important work.

"Its Own Reward."—It is true we give valuable premiums and cash commissions to those obtaining new subscribers, but never find it necessary to give people prizes to take the ADVOCATE, which is a sufficient premium in itself. The longer known the better it is liked. Many subscriptions have extended twenty-five and thirty years. We give matter of practical, everyday value to our readers. This pays us because it pays them. Do you desire a free sample copy for a friend? Drop us a post card, with the name and address, by return mail, and the sample will be sent.

Renewing Time is at hand, bringing an extra rush of work in our office. Our friends will confer a favor and simplify matters by renewing promptly, at the same time sending in, if possible, the name of at least one new subscriber; but you can do better than that. A glance at the special inducements on our premium page will show that we make it worth your while to act promptly on our

Thanksgiving Day Gift.—If you have a son or behalf. friend who is just starting farming, present him with a Thanksgiving Day paid-up subscription to the ADVOCATE, and you will have done him a life-

Premiums for Old and Young.-Many farmers long favor. are not yet reading the FARMER'S ADVOCATE, simply because its merits have not been adequately presented to them. We want agents in every farming section of Canada and the adjoining States. To encourage their efforts we offer specially attractive premiums on another page. Read them care-Send for sample copies and terms to-Begin the work at once. Push the canfully. Push it hard. Push it enthusiastically. day. A united effort on the part of friends, old and new, and all our agents, will add thousands to our lists in the next few weeks.

STOCK.

The Classification of Grade Cattle at Agricultural Shows, Again!

BY D. F. WILSON.

In your issue of July 15, Mr. Ayearst, in referring to my article on the above subject, states that considerable dissatisfaction seems to exist over the present classification of grade cattle. Now, I am glad to hear it, for it is certainly very unfair to those farmers who are going in for dairy herds that there is no class in which their cows can compete, no matter how carefully bred for the purpose for which they are wanted, and I was not aware that this dissatisfaction existed, for, I believe, I alone am responsible for the change in the Brandon prize list, but the change made at Ottawa shows that there are others of the same way of thinking ; and if the dissatisfaction is becoming general among those who want special dairy cows, but are not breeders of pure-bred cattle, the necessary change will soon be accomplished. Mr. Ayearst goes on to say that grade cattle should be judged from a general-purpose standpoint. Now, I would like to know he would manage this? A judge goes know how he would manage this? A judge goes into a ring of so-called general purpose cows; he has a leaning towards beef points, and places his has a leaning towards beef points, and places ins-awards accordingly. The next year, a judge who leans towards the dairy type, when judging the same animals, places them entirely different; nor can this be obviated, for there is no type to judge by the nondecempt general number animal judge by, the nondescript general purpose animal being a mixture of two types. Now, how does this agree with the object of agricultural societies as educational institutions? There is nothing taught if the teaching is not definite and who can define if the teaching is not definite, and who can define where the beef type shall end and the dairy begin, so that judges can work in a systematic way. It is often hard enough to decide between animals when judging to type, so how must it be when when judging to type, so now must it be when trying to judge to a conglomeration of two types. Again, Mr. Ayearst speaks of "those persons who have grades of some of the small, special breeds feeling aggrieved when the judge does not give their cows the prize in preference to large and much finer-looking animals." I will give an instance of where they had a right to feel aggrieved : Some years ago, at Brandon, there were some six or where they had a right to feel aggrieved : Some years ago, at Brandon, there were some six or seven milch cows in the ring. Among them were two large Shorthorn grades which got 1st and 2nd places. The 2nd prize cow was large, but a poor milker, nor was she a good specimen of a beef beast, hence howed and coarse. There was in the being large-boned and coarse. There was in the ring a grade Ayrshire which was an exceedingly fine specimen of a dairy cow, a cow far above the average, and one that was a better specimen of a dairy cow than the 1st prize one was of a beef cow or beef and milk put together. There were two or beel and milk put together. Inere were two other cows that were much finer specimens of their class than was the 2nd prize cow of hers, so here was a case of a cow getting 2nd prize that should not have been higher than 5th, her only recommenda-tion heing here size, and still pine man out of areas tion being her size, and still nine men out of every ten would have placed them the same way, so much is size valued and so little is high dairy quality appreciated and understood. Your correspondent in his supposed case describes a very fine cow, but why there should be a kick if she were entered in why there should be a kick if she were entered in a grade dairy class, I fail to see At the Winnipeg show of '94, in this class there was a kick, but it was the other way. There were five cows in the ring, three of them being of the kind described, and their owner grumbled that he had no show with the cows of the purely dairy type. That a cross or two of Shorthorn does not prevent cows being exhibited as dairy cows, that same cow which also exhibited as dairy cows, that same cow which also showed for a grade Shorthorn was placed 1st, a Holstein grade being 2nd; but the Shorthorn was a different looking cow from the more beefy speci-ments owned by him from whom the kick came. It certainly does not follow that because a cow is small and thin and scrubby-looking that she is small and thin and scrubby looking that he is necessarily a good dairy cow any more than because a cow is big and fat she must be a good beef beast. It may have taken too much feed to make her so, and a competent judge of beef cattle will soon find it out when he comes to examine her, just as a competent judge of dairy cattle will see at once the difference between a small and thin dairy cow and a small and thin scrub cow. If fair play is to be given to all exhibitors and

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The Foal this Winter.

Every good foal born in 1895 will be in demand as soon as matured; and as his future qualities depend largely upon early care, every chance to depend largely upon early care, every chance to develop a strong, vigorous constitution should be given him this coming winter. Not only should a comfortable, roomy box be provided for his home, but provision for a daily run in the open air should but provision for a daily run in the open air should be made. It is, indeed, bad policy to stint young horses in their food, and a liberal allowance of that which is nutritious and suitable for vigorous norses in their loou, and a interal anowance of that which is nutritious and suitable for vigorous growth is always profitable. We have all seen the rough-looking, pot-bellied, starey-coated foals the rough-looking, pot-bellied, starey-coated foals a month or two after weaning. Such an appear-ance indicates a stunt in the animal's growth which will take a lot of good food and considerable which will take a lot of good food and considerable time to overcome. Frequently is this unthrity condition due to worms, which can be seen in the faces. For such parasitic troubles, a constant supfreces. For such parasitic troubles, a constant sup-ply of rock salt and small doses of powdered sul-phate of iron, given morning and evening, in soft food, repeated after an interval of ten or twelve hours, is considered good treatment. About six hours after the last dose, from four to six ounces of new lineed oil should be given. raw linseed oil should be given.

would-be exhibitors, there must be two classes for grade cattle, for what chance would a Hereford grade have with a judge who looked for a large milk yield, or what prospect for a prize would a grade Jersey have where the judge had a leaning for a big carcass of beef. If the different breeds are prepotent, and we know they are, we might just as well make one ring of it and let all the purebred cows compete together as let their grades do so.

A farmer may see the dairy type in pure-bred cattle at the shows, but he will learn far more if he or his neighbors are exhibiting their grades. Numbers of farmers have some choice dairy cattle, but they do not half appreciate them. If there werea class in which they could compete they would

think more of their cattle.

Really competent judges of dairy cattle are scarce, and this complete separation of the two types would tend to increase their number. good judges, the popularity of agricultural shows is increased, so that a benefit would be derived in this way: and with good judges, justice could be done to all cows, no matter of what grade. 452

THE FARMER'S ADVOCATE.

A Manitoba Threshing Scene.

The accompanying engraving of a threshing scene in the 'harvest fields of Manitoba will give our Eastern 'readers some idea of the way "bo-nanza" 'crops are threshed out. A "threshing manza" is compared of from twelve to twenty men our hastern readers threshed out. A "threshing gang" is composed of from twelve to twenty men, depending upon whether the threshing is done out of stook or stack, and upon the capacity of the ma-chine. Each man usually is given a certain posi-tion, which he holds day after day. It is now cus-tomary for the thresher to take with him a caboose (a large wooden van on trucks, fitted with sleeping tomary for the thresher to take with him a caboose (a large wooden van on trucks, fitted with sleeping bunks), in which all the "gang" sleep, thus reliev-ing the settlers from providing sleeping apartments for so many extra hands. It will greatly lessen the horrors of threshing time when a "boarding van" accompanies each outfit, thus saving a good wife from the labor of providing meals. An ordi-nary thirty-six-inch cylinder machine, well managed, will this year. in spite of the great amount of straw, will this year, in spite of the great amount of straw, turn out an average of 2,000 bushels per day, while some of the mammoth separators will nearly double this. The usual charge for threshing out of stack is four cents per bushel for wheat, and three

The St. John (N. B.) Exhibition. (Continued.)

The large drill hall was completely filled with all kinds of carriages of beautiful design, style and finish, including the family carriage, top-buggies, Bangor buggies, phaetons, surreys, Gladstones, English dog-carts, road wagons and carts. The exhibition lish dog-carts, road wagons and carts. The exhibition of sleighs was magnificent—every form of winter vehicle was there in a great variety of styles and finish. Blue seemed to be a favorite style of finish-ing, with gold trimmings. The New Brunswick people take greater interest in their winter convey-ances than the people in Ontario do, the winters being longer and more severe, but they are steady and generally clear. with verv few thaws. so that and generally clear, with very few thaws, so that sleighing is very seldom interrupted during the winter months.

Our local carriagemakers had nearly all a fine display, but they were not alone in the exhibition. Ontario makers were exceedingly well represented. During the second week of the exhibition the

carriage horse or mare in harness-1, D. W. McCormick, St. John; 2, E. Le Roi Willis, St. John; 3, F. C. Monahan, St. John. AGRICULTURAL PURPOSES-Stallion, four years-1, E. Puddington, St. John; 2, Robt. Brown, Northampton, Carleton Co.

AGRICOLD St. John; 2, ROD. BION., E. Puddington, St. John; 2, ROD. BION., Carleton Co. MATCHED FARM TEAM-1, S. Creighton, St. John; 2, Jas. Robinson, Sussex; 3, D. Ferguson, Charlottetown, P. E. I. PERCHERON-Stallion, four years-1, George. A. Bule, Grafton; 2, Hugh R. McMonagle.

classes for all kinds of young stock as well; but these show that we have some stock of the best breeds of horses here, which will help to improve our general stock.

There was also a class of Standard-bred horses, which were well represented.

CATTLE.

AYRSHIRE3-Bull, three years old and upwards-1, W. A. Black, Amherst, Rob Roy; 2, W. Donovan, Coldbrook, Robin 339; 3, J. M. Donovan, Coldbrook, Duke of Canada 312. Bull, two years old - 1, S. Creighton, P. E. I., Scott 115; 2, H. J. Belding, Hampton, Liberal; 3, S. E. Frost & Son, Hampton, Sir Robert 413. Cow, four years and upwards-1, Wm. Dono-van, Coldbrook, Hilda 440; 2, Wm. Donovan, Coldbrook, Topsy 2nd 441; 3, J. M. Donovan, Coldbrook, Jennie 3. Cow, three years old-1, J. M. Donovan, Coldbrook, Primrose 639; 2, W. Donovan, Coldbrook, Wildflower 2; 3, W. Donovan,



THRESHING THE MANITOBA

do is to take the grain away from the machine, feed the "gang," and pay his bill.

In the background of the engraving will be noticed the "basket"—racks for drawing in—as in this instance the threshing is being done out of stook. In many cases where these are used, the teamsters pitch on their own loads, thus saving extra pitchers, and a good sized basket rack will hold enough for a team to draw.

The single horse to the right alongside the heap of straw is one of a pair of "buckers," they being worked by a boy to "buck" the straw, away from the tail end of the machine. This is managed by a long means or node to each end of which a horse is the tail end of the machine. This is handget by a long plank or pole, to each end of which a horse is attached. The pole, being drawn across behind a heap of straw under the stackers, is held down by the boy's weight while the horses draw it away to one side, where it is delivered in piles ready to be burned as scon as the "setting" is threshed out. A large water tank on a wagon provides the engine with water from the most convenient source of supply. The grain is usually bagged and teamed directly to the nearest elevator in double wagon boxes, similar to that in the center of the picture.

cents for oats and barley. All the farmer has to ground one day. The horses, cattle and sheep on your western exhibitions, but the quality was, all things considered, excellent. In most of the

classes a good representation of pure-bred regisclasses a good representation of pure-ored regis-tered stock was exhibited. Only a few years ago very few pure-bred animals were to be found in the Province. This speaks well for the enterprise and intelligence of our agriculturists. The Provin-cial Government has at different times brought in importations of pure bred horses cattle and shoep importations of pure-bred horses, cattle, and sheep, which have been of great benefit.

Among the more notable awards were the following :-

HORSES.

Coldbrook, Nan. [NOTE.-Classes also for young stock.] Herd of one bull and four females over one year-1, J. M. Donovan, Coldbrook; 2, W. Donovan, Coldbrook. JERSEYS-Bull, three years old and upwards-1, C. S. L. Raymond, Woodstock; 2, J. H. Reid, Fredericton, Mercury of St. Lambert 2nd; 3, Wm. Shaw, St. John. Cow, four years old and upwards [18 entries]-1, E. B. Elderkin, Amherst, N. S., Nettie St. Lambert; 2, St. John Agricultural Society, Jetsam's May; 3, Samuel Creighton, St. John, Norah. [Norte.-Classes for young stock, also.] We had exhibits of Holsteins and Red Norfolks.

We had exhibits of Holsteins and Red Norfolks, and several classes for grade cattle; also of grain of all kinds and Indian corn. Our potatoes and roots were of excellent quality and of many varieties; and the same is true of the vegetables. On the whole, the exhibition of horses, cattle, sheep, pigs, and all kinds of farm produce, was considered by everybody to be the best ever held in the Province.

A Scottish writer states that from his observations he has decided that in most cases of sows eating their pigs as soon as farrowed, that intense thirst was the cause. At farrowing time the sow is in a highly-fevered condition, which always accompanies extreme thirst. When a liberal supply of cold fresh water is placed in an accessible position to her this unnatural cannibality is avoided.

FARMER'S ADVOCATE. THE

THE FARMER'S ADVOCATE & HOME MAGAZINE

THE LEADING AGRICULTURAL JOURNAL IN THE DOMINION.

PUBLISHED BY

THE WILLIAM WELD COMPANY (LIMITED). LONDON, ONT., and WINNIPEG, MAN.

JOHN WELD. Manager.

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" The Classification of Grade Cattle at Our Shows."

AN OPEN LETTER TO THE "PRESIDENT AND BOARD OF DIRECTORS OF THE WESTERN FAIR.

GENTLEMEN,-As judges at your fair are requested to submit recommendations and suggestions promotive of the efficiency of the fair, with a promise of careful consideration, I would beg leave to draw your attention to Class 17, viz., "Grade Cattle." My attention has been drawn to this class for several years, particularly so for the last two years while acting for you as judge on Jerseys at your show, and also by some articles that have appeared in the columns of the FARMER'S ADVO-CATE upon this same subject. Now, the first class for cattle in your list is Class 15, Durhams, registered ; then Class 16, Fat Cattle, any breed ; then Class 17, Grade Cattle ; then Class 18, Jerseys, registered; but you do not follow this by a class for Grade Jerseys, neither do you in any of the other breeds. Now, as the class for grades comes after Class 15 and before Class 18, one might suppose it was intended for Durham grades only. The time was when very few grades would be shown but grades of the Durham breed, but things are very different now, and I think that the time has fully arrived when grades of the different breeds should be allowed a fair chance for competition.

Now, I am aware of the fact that you allow grade cattle of any breed to compete in Class 17, and it is to that very fact that I wish to call your attention, and beg leave to suggest to you that you are spending money in that class and are not giving a satisfactory plan of competition for it. It may be satisfactory to some, but cannot be generally so. Some exhibitors seem to think that the large breed or breeds should have the whole class, and that smaller cows are scrubby and not worthy to compete with the larger bovines; others suggest that they be judged as general purpose animals, seeming to forget the claims of other breeders who believe in special purpose animals, and the number of these men at present are not a few. In our special business of butter dairying, in the last ten or more years, I have been most intimately associated with the owners of some of the best butter cows to be found anywhere, some of whom have cows that each make over 300 pounds per year; many cows capable of making two pounds per day, and none of these are very large, neither are they general purpose cows. They are special purpose cows, and they are nearly all grades. Now, if all grade animals be classed together, who will judge them? That is the great difficulty. It is almost impossible at present to get a judge who has not a fondness for some one breed, viz., the kind he owns himself ; and if he judges the grade class, the animals looking most like his kind, in color, etc., will be likely to get the premiums, and who can blame him; he has a fondness for that kind and cannot help it. Men are as foolish about their cattle as they are about their wives. Every man thinks his own the best in

It has been suggested by some that the class be cut in two, and that they be known as grades of the world. the beef breeds and grades of the dairy breeds; but I still see the same difficulty. I want to show my Jersey grade. My neighbor thinks his Ayrshire grade a better cow. Who is to be the judge? Some good dairyman! Yes, but what kind does he keep bimedf? On has he not a fondness for one kind or good dairyman: ies, but what kind does he keep himself? Or has he not a fondness for one kind or the other? The difficulty is still before us, only changed somewhat. It is like men with their wives, still. In the former case it is a matter of choice between a large and a small one, and in the latter case I believe it is worse, as it is a matter of which of two large or two small ones are the better The plan I have in view is as follows, viz. : Do looking. away with Classes 16 and 17; that is, class for beef animals and also for grade animals, and instead of these, in each class of thoroughbred cattle add a few sections for grades of the different breeds. In the two classes mentioned, 16 and 17, you give the two classes mentioned, to and 17, you give nearly \$200 in prizes, which, divided by eight, means \$25 for each kind. Now, this seems very little, and would not be very much for each, but I would say, let the prizes be less for grades, also entry fees small; also some sections could be dropped out if need be. But I would certainly say, give the same amount of money to each breed and let the judge of the thoroughbred also judge the grade of the same kind; though the prizes might be smaller, yet the competition would be fair to all, and the judge would be able to do his work impartially. For Jerseys, I would suggest the following sec-tions to be added to the class of thoroughbreds, giving prizes for females in milk only, and a section for heifer calves, viz. :

winning year after year in the different classes to the grades of their respective breeds, and thus a lively interest would be taken in the exhibit of the different kinds of grade animals. I think you see these suggestions to be on the principle of fair play to all, and should result in a much larger show of grade animals. I hope this may be helpful to you in disposing of this matter, as I think a change is demanded in the near future.

Another difficulty has presented itself to me in the two years' work, and I think the judges of the other dairy breeds must meet with the same trouble; that is, in the section for yearling heifers. I find that to be a very hard class to judge, for this reason: that you meet animals varying so much in age, some 13 months, and some 23 or 24 months old, and what is worse, some in milk, some heavy in calf, and some perhaps not bred at all. Now, I think it almost impossible to judge a female in milk with a heifer not bred at all and give fair play to I would rather say: let two-year-old class each. include all heifers under three years, in milk or near calving, each exhibitor to show certificate to judge, showing age in months; they could then be judged according to age, and their appearance for useful-ness, better than as they now are. Also, exhibitors should be prepared to show certificate showing age of all younger animals, as judges find so much difference in age in all the younger classes. Wishing the Western Fair every success,

I am, yours very truly, R. McCulloch.

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[NOTE.-Mr. McCulloch has well said of the table presented in the above article, "these prizes are too small" to be competed for at a fair such as the Western, where the animals would, of necessity, have to remain four or five days at least. It appears to us that before any additional classes should be added to the prize list very many of the prizes for pure-bred sections should be considerably augmented. Would the finances warrant it, and were there no other special calls, such a classification, with much larger prizes than Mr. McCulloch has proposed, might be in order; but, as the conditions at present exist, it is not desirable to create more classes which teach as little as grades usually do, thus depriving the more worthy pure-bred classes of what should be offered in order to draw them to the show.-ED.]

A Good Dog--The Farmer's Friend.

Our frontispiece in this issue portrays a scene true to the life—an intelligent Collie lying quietly before a fine group of Shropshire sheep, at once their keeper and friend. Scrub dogs, like other scrub stock, are the curse of the farmer. Conspicuous in the scrub category is the hungry, sheep-killing cur-the greatest enemy of the industry in America. A well-trained Collie is a boon to any farmer as a guard and servant, saving many miles of weary tramping, not to mention his companionship; for he ranks in intelligence along-side the well-bred horse. His good qualities, like those of other animals, do not come by chance; breeding lies at the foundation. Young men (as well as older ones) take pride in the possession of an extra good dog, and in order to bring such within access of our readers we have made arrangements with Mr. Robert McEwen, of Byron. Ont., distin-guished as a breeder of Collies, enabling us to offer as premiums for obtaining new subscribers to the FARMER'S ADVOCATE, pure-bred puppies six weeks old and upwards, eligible to registration. We hope We hope in this way to encourage to some extent the keep-ing of better dogs. It is not possible in any other way to secure dogs of such merit, as will be seen by a glance at our premium page. Mr. McEwen is so well known as a breeder that we need add but little on that noint. He has been breading Collice for on that point. He has been breeding Collies for about fifteen years, and has, perhaps, bred more prize winners than any other breeder on the Continent. This has been accomplished by importing unent. This has been accomprished by importing only stock of winning strains, and mating them with judgment. They have won prizes in New York, Chicago, Detroit, Boston, Philadelphia, Pittsburg, Buffalo, Toronto, Montreal, etc., and have been sold to customers from the extreme east in P. E. I. to B.C. and even China in the West. None but the to B.C. and even China in the West. None but the best bitches are reserved for breeding purposes, and they contain the blood of such noted individuals as they contain the blood of such noted individuals as Champion Christopher (sold for £1000), Champion Sifton Hero (sold for £500), Champion Southport Perfection, etc. For years Mr. McEwen has been one of the Executive of the Collie Club of America, and last year was engaged to award the prizes in Collie classes at shows in New York and Toronto, all of which is a sufficient guarantee as to the breed-

Catcher-First Prize; A Good Plow Slide-Second Prize; One Man Cross-Cut Saw; Log Wagon Wheels; Tanning a Sheep Skin

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Study of Bacteriology.

The organization of a Department of Bacteri-ology in connection with the Agricultural College at Guelph. is an important step in advance. F. C. Harrison, B. S. A., the Bacteriologist, is, we believe thoroughly equipped for this difficult and responsi-ble work. He devoted special attention to general ble work. and bacteriology in his own college ble work. He devoted special attention to general microscopy and bacteriology in his own college course; after graduation, he visited all the best bacteriological laboratories on this Continent; and the summers of 1894 and 1895 he spent at practical work in the betavier and bacteriological laboratories. work in the botanical and house the spent at practical atories of Cornell and Michigan Universities. Owing to the enterprise and foresight of the Hon. John Dryden and President Mills, the new hac-Jonn Dryden and President Mills, the new bac-teriological laboratory at Guelph is thoroughly equipped. Mr. Harrison is now at work, and we expect valuable results, directly to the students of the College and indirectly to the people of the Prov-tne at large, particularly in relation to dairying.

Sec. 1. Grade Jersey cow, 3 years and over, in mile 2. heifer under 3 years, in milk 3. heifer calf, under 1 year 4. heifer calf, under 1 year		4	1
3. heifer calf, under 1 year. 4. Herd of 4 calves (heifers), owned and bree hibitor.	 ex	2	-

Total

Now, these are small prizes, but they would be competed for by local men who would not be at xpense of shipping their animals by railway, and they could be allowed to take their animals away, if thought wise, before the close of fair. The above plan might do for the other dairy breeds, but for plan might do for the other dairy breeds, out for the beef breeds I would not suggest any plan breeders or judges of these would plan for them-selves as they thought best. Special prizes, I think, should then be given by breeders who have been

whether a strange he

ing of the dogs. We trust a number of our readers will be fortunate enough to secure a young Collie, bred at these famous kennels. For the conditions, we would refer all to the premium announcement on another page.

A dairy school will be opened in Winnipeg, Man., early in January in charge of Mr. C. C. Macdonald, Provincial Dairy Superintendent, for butter and cheesemakers, open to farmers' sons and daughters. The tuition will be free and at the close of the term certificates will be issued on the basis of an examination.

THE FARMER'S ADVOCATE.

NOVEMBER 15, 1895

Breeding and Feeding Beef Cattle.

[An Ontario Farmers' Institute address by Thomas McMillan. The study of the Agricultural industry of this Province leads us to believe that in order to be thoroughly successful we must make a specialty of some particular department of the farm. In this respect we are simply following the example set by manufacturers. In these times the march of invention has been so rapid, and competition so keen, that, in order to succeed, manufacturers must concentrate their forces, and confine themselves to certain particular lines. So it is with the farmer. It is an old saying, and a true one, that if we would wish to succeed, we require to have some definite object in view, and in our operations endeavor to attain that object. The first thing which every farmer must decide for himself is, in what particular line shall I engage? There is plenty of room for a choice. In glancing over this Province we find some farmers engaged in sheep rearing, some in hog rearing, some in dairying, some in beefing, and so on; and we find men in all these departments who have been successful. Therefore, I consider the first great requisite to success depends upon ourselves, and requires that we must carry into our business the necessary skill and attention which, when properly directed, is certain to give satisfac-tory returns. In the department of breeding and feeding cattle, we first require to put ourselves in the possession of a number of good, serviceable, healthy cows—cows which will not only return a nealthy cows—cows which will not only return a profit at the pail, and produce a well-formed and healthy offspring, but which, when no longer required for these purposes, will possess the in-herent quality of taking on flesh easily and rapidly, and of making a satisfactory return at the block. Some of the main characteristics of such an animal are the fine clean out head and full mild even some of the main characteristics of such an annual are the fine, clean-cut head, and full, mild eye, which indicates a good and profitable feeder; good and straight in the back, broad, full and deep in the chest, well-sprung and deep in the ribs, full in the flank and fore flank, smooth over the kidneys, with the buttocks reaching well down to the hocks, and that fineness of bone which indicates a fineness and smoothness of the carcass generally. Apart from these features, one of the main points in a good beefing animal is what is called a good handler (an animal with a nice soft skin, covered with a fine

coat of mossy hair). Once having secured a few such animals, our aim should always be to increase the quality of their excellence and never allow them to deteriorate. To accomplish this, we must never breed from any but pure-bred males—animals of good individual merit, with pedigrees which can be traced back to a long line of notable ancestors—as such animals are much more likely to possess to a greater degree that pre-potent power to transmit their own excellent qualities to their offspring.

With many farmers it seems to be a common practice to settle in their own minds from which cows they intend keeping their next year's stock cows they intend keeping their next years stock of calves; these they may perhaps mate with a good male animal, and the balance of the herd is often bred to a scrub for the sake of fifty cents or one dollar in the service fee. This is a most ruinous practice, and will never yield the most satisfactory network as it is a settled principle in stock breeding practice, and will never yield the most statistication returns, as it is a settled principle in stock breeding that "like begets like," and that any one concep-tion must affect a succeeding one, either beneficially or injuriously, as the case may be. Another gr mistake, and one which is not confined to the general farmer, but often pursued by breeders of thoroughbred stock, is that of breeding from young males from one to three years old, and then, just when they have reached an age of sufficient ma-turity when we might expect they would be able to transmit to their offspring that health and vigor of constitution which is most desirable to have, they are sold to the butcher. This practice I believe to be one of the causes of the general complaint among farmers, that their animals are not so healthy and vigorous as they were years ago. Once having decided to follow a proper system of breed-ing, in order to hold and improve the good name which we have for the quality of our beef, we must determine to make war upon all scrub animals. They are a positive sign of want of thrift in every barnyard where they are to be found. They are an unprofitable commodity to have, and the narrowing margin of profit will not allow us to handle them. We must not close our eyes to the fact that there is still room for vast improvement in the quality of our herds; and when we know that the same quantity of food which will put two pounds additional weight on a scrub animal will put three pounds on a wellbred grade, it is a matter of the first importance that farmers should endeavor to rid themselves of all poor animals. Let me cite one experiment in support of this contention. Mr. Britton, at one time a feeder of cattle in Toronto, gave evidence before the Agricultural Commission in 1873 regarding some experiments he had carried on. In one he bought 103 scrubs north of Peterboro, paying for them two and a-half cents per pound; he bought another lot of well-bred grades near Goderich for from three and a-half to three and three-quarters per pound. He fed the two lots for a period of seven months. Although he did not weigh their seven months. Although he did not weigh their feed, he stated the scrubs consumed much more than the grades. At the end of seven months he found the scrubs had gained an average of 130 pounds each, while the grades had gained an average of 130 pounds each, while the grades had gained an aver-age of 270 pounds each. When selling he obtained \$4.63 per hundred pounds for the scrubs, and \$5.37 for the grades; so that notwithstanding the fact that the grades cost him from one to one and a-quarter cents per pound more than the scrubs, they were

the more profitable animals to handle. Mr. Hobson, of Mossboro, and Mr. Clay, who was for a lengthy time connected with the Bow Park Farm, have each given similar testimony; and I may also say that this testimony is borne out by our own experience during the past twelve or fifteen years.

Although good breeding will do a great deal, yet a judicious system of feeding will do just as much; and if we wish to attain the best results we must adopt such a system of feeding as will bring our animals to maturity as early as possible. Therefore the one great point which farmers should never grow weary of impressing upon each other is the great folly of allowing young animals to lose flesh. There is no mystery in the growth and rearing of animals. Every pound of additional weight put upon an animal represents so much food, and is a certain cost to its owner. In fact, whether the animal is allowed to increase wnetner the animal is allowed to increase, remain stationary, or decrease in weight, it is costing its owner so much each day. Thus it is evident that the only profit to be obtained from the food consumed is through the in-crease in weight which we may be able to obtain. Hence the utter ruin which must and does result from the current practice of allowing our young animals to run on bare pasture during summer, and run around straw stacks in winter. Such a system not only retards the present growth of the animal but it so injures their digestive system as to render them unable to digest their food profitably when being fattened. And this, too, is the great reason why very many farmers are compelled to feed their beefing cattle such heavy grain rations while stall-feeding them. If our young beefing animals are kept and fed properly they should, in a measure, be kept and red property they should, in a measure, be nearly ready for the butcher at any time, and when we know that more gain can be obtained from the same amount of food the younger the animal it is, becomes our duty to furnish our young animals with such full and appropriate rations as will bring them to maturity as early as possible. Every individual who knows anything of the nature of animals knows well that while the animal is young, and in the rapid stage of its growth, its digestive and assimilative functions are most active; its percentage of waste in its system is much less than after it reaches maturity, and that the older it becomes even before it reaches maturity, the more food it requires to supply this waste. Therefore the same amount of food will produce so much more weight when the animal is young than afterwards, and here it is our duty to mature our animals as early

nere it is our ditty to mature our animats as early as possible, as early maturity offers the only safe system of profitable beef production. In outlining a system of feeding to be followed, let us start with the young calf, which we like to have dropped some time from the month of Novem-ber on till spring. Although no doubt the slockest ber on till spring. Although, no doubt, the sleekest and best calves can be obtained when they are al and best calves can be obtained when they are all lowed to suck the dam, yet I believe the more pro-fitable method is to milk the dam and feed the calf from the pail. We separate the calf from its dam at birth, as it can be done with less trouble and annoyance than at any future time. Keep the calves separate until they have been taught to feed well, as we invariably find if two or more young calves are allowed to run together they will learn to suck each other after receiving the usual milk ration. In the case of the male calves which we intend to castrate, we do so as soon after birth as possible. We have never found any injurious results from performing the operation at this time, whereas if we wait till the animal is three or four weeks old, as is generally the practice, it will often be eight or ten days in coming round to be as frisky as usual ten days in coming round to be as frisky as usual again. For the first two or three weeks we feed the young calf upon new milk; then we introduce a skim milk ration at noon, in which is mixed a little boiled flax or oatmeal. We also gradually change from the new milk ration, morning and evening, by mixing with a little skim milk supplemented with a little boiled flax or oatmeal, care being taken always to heat to new milk temperature, as we consider it to heat to new milk temperature, as we consider it very injurious to feed cold milk. We also keep clover hay (if available) in their stall, and crushed peas and oats in a box to which they have access If they do not take readily to the meal, feed it from the hand, and when they have learned to eat the dry meal withdraw the grain mixture from the milk. Gradually supplement their meal ration with roots and corn silage. In all our experience we have found no fodder to which young calves will take more readily than corn silage. It seems will take more reading than corn shage. It seems to give them a fine, sleek skin and developes their digestive system admirably. In fact, our exper-ience in the feeding of silage to calves leads me to believe Mr. Stewart, in his notable work on feeding animals, when he says: "Corn silage must take the place of the steaming and cooking of foods, which is largely practiced in the older countries; that its succulence is greater than can ever be attained by the steaming of food; and it must approach in by the steaming of food; and it must approach in digestibility very nearly that of green grass eaten in pasture." When the spring growth starts, so that we have grass, let the calves have some. If we have a grass plot near the barn we let the calves on it; if not, cut the grass and feed them in a loose box. Young calves should never be allowed to roam over a summer sun, or have their usual grain ration neglected. When the fall season comes round neglected. when the fall season comes round they should never be exposed to inclement weather, but by this time be comfortably placed in winter quarters. Feed judiciously the first winter a ration of grain, with roots, or corn silage, cut feed and clover hay. If the young animal is well fed and properly cared for the first year of its exist-

ence, its growth and condition as a thriver is ence, its growth and condition as a thriver is determined; it forms the habit of laying on fat, and with proper treatment we have very little trouble in keeping it in good condition after this time. During the second summer, turn upon grass, and if, on account of drought or other cause, there is not a plentiful supply of pasture, this must be supplemented by some soiling food; thus we will invariably find our animals coming to thus we will invariably find our animals coming to their winter quarters in good condition, and with liberal feeding over winter they can easily be made ready to ship to the British market at from two to two and one-half years of age. In fact, the best feeders in our country who fatten cattle of their own breeding, make a practice of having them ready to ship not later than this age; although there is still a great many—I may well say a large percentage of our farmers—who still persist in rais-ing their animals to two and one-half, and often three and one-half years of age, and then sell them as stockers. I need scarcely say this is a most ruinous system. All these farmers require to do to ruinous system. All these farmers require to do to have their animals right enough for the beef mar-ket. is to feed a little more liberally, and they would be doubly repaid for the extra amount of food supplied; for when we know that it takes about two-thirds of a full ration for the food of support, or to supply the waste of the system, it becomes evident that the only profit to be found is by feeding the remaining third. To show how by feeding the remaining third. To show how much cheaper beef can be produced the ycunger the animals are, let me quote an experiment carried on by the Groff Bros., of Elmira, who in their day were among the most successful feeders in Ontario, carrying off the highest premiums, both in this country and Chicago :-

"Two steers, bred by Groff Bros., weighed at 12 months, 1,000 lbs. each, and cost \$34.67, or \$3.46 per 100 lbs. The same steers gained during second 12 months, 500 lbs. each, and cost \$52.13, or \$8.68 per 100 lbs. The same steers gained during second 12 100 lbs. The same steers gained during the third 12 months, 650 lbs. each, and cost \$81.50, or \$12.53

per 100 lbs. To corroborate the above, I take one statement

from Mr. Stewart "On feeding Animals":— "Average cost per 100 lbs., of nine animals, at 12 months of age, \$3.39. Do., from 12 to 24 months, \$7.97. Do., from 24 to 36 months, \$12.54."

To show another phase of the ruinous practice of raising animals to two and a half and three and a-half years of age and selling them as stockers, careful analysis and experiment proves that a young, growing animal will take from 25 to 50 per cent. of the elements of fertility which its food contains to build up its system in the shape of bone and muscle; while after this time, during the fat-tening period, it will return fully 95 per cent. (almost all) of the elements of fertility which its food contains back to the soil through the manure; so that farmers who follow such a system are simply manufacturing so many machines out of the fertility of their farms and then handing them over to their more fortunate neighbors to use for a most beneficial purpose. Although, as I have stated, we have raised a few animals each year, yet our practice largely has been to buy these very animals which other farmers persist in selling. In pursu-ing such a system great care must be taken in selection. Buy good animals, and those in good condition. Stockers which have grown to be two or three years old and have not formed a habit of taking on fat are undesirable and seldom prove remunerative. Care must also be taken to have them stabled before it gets too late in the fall or they will lose flesh. When the weather is such that we are subjected to a succession of light frosts, it is time to have the animals stabled. Every farmer should have some settled system of feeding tarmer should have some settled system of feeding which he intends to pursue, and for this purpose have his fodder prepared so that his animals can be fed regularly and liberally from the start. When feeding, we should study the nature of the animals we feed. All ruminants are possessed of large stomach, calculated to digest bulky and fibrous food therefore they should never be fed upon confood ; therefore they should never be fed upon concentrated grain alone, but always have it mixed centrated grain alone, but always have it mixed with bulky fodder, such as cut hay or straw, corn silage, etc. In the feeding of grain it is much more profitable to give a mixture rather than confine our stock to a single variety. For instance, experiments have proven that eight pounds of bean meal will give one proven that eight pounds of bean meal will nave proven that eight pounds of bean meal will give one pound increase in live weight; eight pounds of pea meal, ditto; five or six pounds of linseed cake, ditto. But four and a half pounds linseed cake and peas, in equal proportion, will give one pound increase in live weight; and three and ahalf pounds linseed cake and beans, in equal proportion, will give one pound increase in live weight; therefore it is evident how much more profitable will our results be by feeding a judicious mixture than by confining our operations to a single variety. Great regularity should be maintained in feeding. It is surprising how readily animals will learn to know just when to expect their different rations. know just when to expect their different rations. If any of these are withheld for an hour or so they will rise and remain restless until their food is supplied. Cleanliness and tidiness should also be encouraged and enforced. Animals should be given at each feeding only what they will lick up clean. As far as possible the same feeder should be allowed to feed the animals continually: and above and be-yond all, if we desire to obtain the most profitable results from the food consumed, we must accompany the food with the kindest and most humane treatment. There is no place in a cattle stable for a passionate man. Animals do not thrive if excited and irritated. They must be taught to regard their feeder as their best friend.

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FARMER'S ADVOCATE THE

The Manitoba Stock Yards.

The fine engraving of the Winnipeg Stock Yards, which appears in this issue, was reproduced by our artist from a photograph of the yards taken early in October. As an indication of the growth of the trade in export cattle, the C. P. R. doubled the capacity of the stock yards this summer, and still they are not half large enough; 1,200 head can be comfortably quartered, but on more than one occasion this fall fully 2,000 head were crowded into the yards. It was a magnificent sight to see these yards full of splendid steers-big, thick-fleshed, meaty fellows, mostly well-bred; Shorthorn blood predominating, though the Hereford was also strongly in evidence, while a sprinkling of Galloway and Polled-Angus, and an occasional Highlander, were to be seen. As previously mentioned in these columns, upwards of 40,000 head of cattle have this season passed through these yards, chiefly for export to the British markets. Of this number the big cattle shippers, Gordon & Ironsides, have handled some 32,000 head; of the total number, pea straw, light oats, etc., in winter.

The Advantages of Keeping Sheep.

BY JAMES BOWMAN, WELLINGTON CO., ONT. We will try and mention a few of the advantages that have come under our notice. Sheep are among the best and cheapest mediums for improving the fertility of the soil, which is a very impor-tant matter in many parts of the country at the present time. One of the best ways we know of is feeding on rape, when the manure is so evenly spread, and if they show any partiality, it is in giving the poor high places the most manure. Again, when running on pasture during the summer, there are none of the domestic animals so hard on noxious weeds, which is also a great advan-The practice of folding sheep at night on meadow lands when feeding on rape, etc., has made a marked improvement in the grass crop. This was managed by making a yard in the meadow field, of hurdles, which may be dog-proof; and if sheep were thus kept and the pen moved daily it would be a great deal more advantageous than bringing into barnyard each evening to be safe from dogs. In both winter and summer they will do well on food that is not relished by or profit able to feed to other stock-weeds, in summer, and

down the cost of production at every point we can, keep the very best we can, and keep up and raise the good name of Canadian lambs and mutton. We now occasionally hear of Americans raising as good lambs as we do (the benefit of the rams they have bought from Canada is being felt), but the World's Fair proved in a very clear way that we were clear ahead, and also proved that Ontario was a breeding land that is hard to beat in the

Let us combine the Canadian energy with the steadfastness of our friends on the British Isles, and depend on it there is success ahead. It takes considerable time to understand thoroughly how to manage any line of business, and if in dull times, such as the present, we throw it up and do not take the notion to start again until sheep are high in price and all those who held on are making money, by the time a good flock is worked up prices will have begun to decline ; then it will be said, sure enough, there is no money in sheep, which is correct if one is always ready at the wrong time. Even in these times there are some making money in sheep, because they understand their business and keep up at the head of their class.

The writer has watched the up and down move-ments, in the price of lambs particularly, for a good



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CANADIAN PACIFIC STOCK YARDS AT WINNIPEG.

Manitoba and the Territories have contributed

about equally. Besides the Eastern shipments, we understand nearly 6,000 head of one and two-yearolds have passed through on their way from Ontario to the ranches, where they will spend a year or two on the nutritious pastures before starting on their long journey to the markets of Great Britain. The yards are all well gravelled and pro-vided with large racks for hay, and an abundant supply of water, so that when not overcrowded the steers can feed and stretch themselves in comfort. supply of water, so that when not overcrowded the steers can feed and stretch themselves in comfort; the Canadian Pacific being evidently determined to do everything in their power to encourage this important inductor important industry.

In a United States exchange, H. B. Gurler, who owns a dairy herd that averages 320, lbs. of butter annually, says: "I feel that the work of testing individual cours is one of the most profitable lines owns a dairy herd that averages, work of testing annually, says: "I feel that the work of testing individual cows is one of the most profitable lines a dairy farmer can engage in. We are not exercis-ing good business sense when we do not improve this opportunity to help ourselves. Any manufac-turer or business man who allows such opportuni-turer or business man who allows such opportuni-ties to slip would soon be compelled to quit business, as he could not compete with men in his line who were looking after all the leaks."

In fact, they fill a place that none of the other In fact, they fill a place that none of the other farm stock can, both in manuring the soil and in turning a kind of feed into money that other stock could not Besides this, there is no other line of stock which can be so cheaply housed and cared for. (With what class of stock is there so little labor?) Even a single-board shed, battoned and free from draughts, does as well as any other, and the daily cleaning of pens and grooming of animals, free from draughts, does as well as any other, and the daily cleaning of pens and grooming of animals, so important with cattle and horses, has not to be done with sheep. It must, also, not be forgotten that every sheep returns an annual revenue of a fleece of wool; and a crop of lambs reaching 150 per cent. increase of the ewe flock is not uncommon. They can also be prepared for market with very They can also be prepared for market with very

They can also be prepared for market with very little expensive feed, such as it takes to feed off cattle or hogs. Even in times like the present, when lambs are low and wool not high, they pay their way, if properly handled, and when prices are good they pay a good profit. In looking back are good they pays, wool was worth, in America, are good they pay a good profit. In looking back thirty-one years, wool was worth, in America, from 80c. to 90c. per lb., and sheep men were expecting then to see it reach \$1. No wonder the old gentlemen wish for the good old times they used to have But we do not need to expect the return of such times, so our duty is to study our business, cut than they are.

number of years, and may say we are of the opinion that within a year or two we will see a marked improvement in the price of that product; and, although things are dull at present, let us keep up our heart and believe — "There's a good time coming, boys; wait a little longer."

Oats for Stock.

It is the tendency of many stock feeders to undervalue oats for feeding stock other than horses. Now, we have an immense yield this year in many parts of the North American Continent, which will keep the price comparatively low. Oats are richer in protein and fat than many of the other coarse grains; in fact, they combine in themselves just about what is considered a well-balanced ration. Not about what is considered a wen-balanced ration. Not only do oats supply the needs of animals in well-balanced proportions, but rarely, if ever, do animals become sick by over-feeding on them after they have become accustomed to an oat diet.

In view of their abundance and cheapness, feed-

ers would do well to feed oats rather than buy bran

FARMER'S ADVOCATE. THE

Feeding Live Stock -- Experience at the Ontario Agricultural College.

This important subject has not received the close consideration it deserves from many farmers. To feed stock successfully requires intelligence and good judgment in adapting the food to the kind of animals, and to the different stages of development. Young cattle should be fed bulky and easily-digested food; food suited to the production of bone and flesh, such as clover, either cured or green ; roots, bran, crushed oats, etc. Young stock, fed on such food regularly and moderately, develop into strong, healthy animals. A diet for young animals containing an excess of rich, concentrated food tends too much to the production of fat, renders an animal liable to disease, and is likely to check or stunt it in its growth. Animals should be fed according to the object desired. For breeding purposes, it is important that both male and female be fed on food that will produce bone, muscle, and flesh, instead of fat. The live stock of the Ontario Agricultural College were fed during the past winter as follows:

Cattle.—On the 6th of Nov., 1894, 16 steers rising three years old were purchased by the Farm Superintendent, Mr. Rennie, in the Guelph market, at 31 cents per pound, the average weight per animal being 1,157 pounds. They were fed largely on rape until Christmas, receiving in addition, night and morning, a mixture of cut hay, chaff, pulped roots, and ensilage, about 25 lbs. per day; also 2 lbs. of and ensuage, about 25 10s, per day; also 2 10s, of crushed barley and oats, with 1 lb. of bran per day; the cost of feed per day for each animal being about 7 cents, including the rape. During January, Feb-ruary and March they received no hay. The food fed to them was a mixture of chaff, ensilage, pulped roots, 50 lbs. per day, fed in three meals, at 5 a. m., 12 noon, and 6 p. m.; the cost for each animal being 8 cents per day, including 4 lbs. grain and bran. With these rations from the 6th Nov. till the end of March, 144 days, they gained an average of 265 lbs. per animal, or 1.84 lbs. per day. Allowing 40 lbs. each for shrinkage, the net gain was 1.56 lbs. each per day for 144 days.

For April the average gain was 50¹/₂ lbs. per animal, or, say, $1\frac{1}{3}$ lbs. per day. Cut hay and clover were added to the second mixture mentioned above.

During May the increase was only 26 lbs. per animal, say five-sixths lb. per day, while the food was 4 lbs. pea-meal and 2 lbs. bran, with cut hay, chaff, ensilage, and pulped roots mixed together, 50 lbs. per day to each animal; the cost of this food

being about 10 cents, each animal, per day. From the 1st of June the food was cut clover and ensilage, mixed, 45 lbs. each per day, with ground grain (barley, rye, wheat and bran, 7 lbs.), the cost being 12 cents for each animal per day. The average gain in weight for each animal was l

b. per day. In these estimates, clover hay is valued at \$7.00 per ton, chaff nothing, ensilage \$2.00, and roots \$2.50 per ton, mixed grain 1 cent per lb., and bran \$12.00 per ton.

The milch cows were fed the same as the steers in winter, except that they received an addition of

20 lbs of mangels per day when giving milk. It will be observed that the greatest gain for the food consumed was in the first five months, while the steers were fed on the coarse, bulky, and easily digested food. The last three months they were fed at a loss, while they were being fed on the stronger and more concentrated food. and more concentrated food. The steers were sold to Messrs. J. A. Leaman & Co., of Halifax, Nova Scotia, at 5½ cents per lb. live weight, and shipped to them on July 26th.

animal; and the increase in weight is over 1 lb. per day. After five months, until sold, pea meal was substituted for middlings.

The following will show the results from four lots of cross-bred pigs, that were sold to Messrs. J. A. Leaman & Co., and shipped with the steers on July 26th:

25th, 5 animals from Tamworth sire and Chester White dam, average weight at 6

167

May 25th, 5 animals from Tamworth sire and Chester White dam, average weight at 7 months. 226
June 25th, 5 animals from Tamworth sire and Chester White dam, average weight at 8 months. 267
February 28th, 8 animals from Yorkshire sire and Poland-China dam, average weight at 4 months. 102

Pelo dal y Exist, et al. and an average weight at 4 Poland-China dam, average weight at 5 land-China dam, average weight at 5 months. 137
April 28th, 8 animals from Yorkshire sire and Po-land-China dam, average weight at 5 months. 186
May 28th, 8 animals from Yorkshire sire and Poland-China dam, average weight at 7 months. 226
June 28th, 8 animals from Yorkshire sire and Poland-China dam, average weight at 8 months. 256
April 27th, 4 animals from Berkshire sire and York-shire dam, average weight at 4 months 99
May 27, 4 animals from Berkshire sire and York-shire dam, average weight at 5 months 138
June 27th, 4 animals from Berkshire sire and York-shire dam, average weight at 5 months 138
June 27th, 4 animals from Berkshire sire and York-shire dam, average weight at 6 months 177
There was little difference in the quant

There was little difference in the quantity of food consumed by the different crosses; and the food was limited by the unterent crosses, and the food was limited to what they ate within half an hour of feeding. The Chester White dam suffered from fever for about a week after farrowing, so that her pigs were badly stunted at the start, from which they did not recover until between four and five months old. The pigs were inspected by two of the most prominent pork-packers in this Province, and the Tamworth crosses were pronounced the most suitable for their purpose.

In order to have roots to boil for the pigs during the year, about two acres of sugar-beets are grown. They will keep until the first of August, when the new crop of mangels is ready to feed. For a time both tops and roots are boiled. By this system of feeding, it is estimated, the best quality of pork can be produced for two cents per pound live weight

The Cattle Quarantine.

[From an address by Hon. John Dryden, Provincial Minister of Agriculture.]

In an able address before the reorganized Domin-ion Cattle Breeders' Association, Hon. John Dry-den, Minister of Agriculture for Ontario, after pointing out the growing importance of Canadian live stock husbandry, as shown by our increasing exports, and the need for a strongly-officered

willingness and a heartiness in co-operation together for the common good. There are some things in connection with cattle-raising which I can accom-plish perfectly all alone; but there are other things in connection with the industry which cannot be brought to pass without the union of those interested. It is evident that if the cattle industry should be laboring under any obstacle which can only be removed by recourse to those in authority in our country, a single individual presenting the case would have but little weight. But when a strong association representing yest interests strong association, representing vast interests, unitedly petitions the authorities and properly presents their case, even the dullest politician comes to see that something must be done by way of relief. I have a case in my mind at present. Those of us who are engaged in breeding thoroughbred cattle know the difficult situation at present. For merly we had a large trade covering various States of the American Union. Our cattle, because they were imported into that country for breeding pur-poses, were allowed to enter free of duty. They are still allowed to enter duty free, and yet the trade is practically prohibited. It has been brought about in this way. Formerly Canada enjoyed an advantage over the Americans, because our cattle had access to the inland markets of Great Britain, while those of the United States had to be slaughtered at the port of entry. In order to hold our position in this respect, a quarantine was placed on American cattle coming into Canada. At that time there was danger of certain diseases, which then existed, being brought into this country, and it was an essential thing to prove that our herds could show a clean bill of health. Notwithstanding this, an embargo has been placed upon our cattle similar to the Americans, and it has been over and over again declared by the British authorities that we have sent from this country pleuro-pneumonia-a disease which no man, expert or otherwise, can find in the Dominion. This statement serves as an excuse for the British authorities to maintain the embargo. We have hoped to see it removed. The case has been presented to three different Governments, but the answer has always been the same ;

and our conclusion now is that the majority of those whom the Government represented do not wish it to be removed; and it is likely, therefore, to remain. If this be true, why should this quaran-tine be kept up? The quarantine which the Americans have placed on our cattle is not to keep disease from entering the United States, but it is placed there because we have placed our quarantine against them. At present there is no cattle disease in Canada which can be carried into the United States, nor do I know of any disease in the United States which could be brought into Canada. You cannot keep up the best herds of the country unless the proprietors of these herds can have a very extended market. It will be impossible to maintain them in their present flourishing state if the market he limited to our own Province or Dominion. To allow these herds to deteriorate in quality and decrease in influence will in the end react upon the ordinary cattle of the country. It is, therefore, of the utmost importance that they should be maintained. Now, this is a matter that cannot be handled by any single individual. But if the cattle breeders are of one mind, which I think strong association, representation of the case from a strong association, representing the best of our farmers interested in this great industry, would be necessary in order to secure any relief in this regard."

An Embargo on Sheep.

As stated in the ADVOCATE some months ago, the British authorities have been strongly urged by those representing the breeding interests there to pass an Act of Parliament fixing slaughter of cattle on landing as a settled policy. A recent cable dis-patch states that this is now to be done, and also that sheep are to be included. For months past references have been appearing in Old Country journals showing that they regard very seriously the competition from America. Our Montreal market report in this issue states that Canadian shipments of sheep have this season run up to over 180,000, an increase of 51,000 above last year. The direct basis of the clamor for a sheep embargo is that scab (a disorder with which British flocks have been overrun for years) is said to have been discovered in several shipments. A sheep embargo would compel the finishing of all sheep here, so that they would be ready for the butcher before shipment from Canada, as is now the case with cattle. We understand that steps have been taken at British ports of landing for largely increased slaughtering facilities, which adds color to the news that a permanent live stock embargo is on the tapis. The complaints of the British farmer have been many and loud, and under cover of the crusade against animal diseases (with which we must admit Britain has been sorely afflicted) they will accord whatever advantage may come from shutting cut all but finished stock, thus getting rid of the competition of an inrush of cheap animals for feeding purposes, besides, as they put it, closing one possible avenue against disease.

FARM.

Potato-Cake for Cattle.

A recent number of "Le Bulletin des Halles" contains an article by MM. Nivere and Hubert, the directors of the Agricultural Laboratory of Bezers, on the manufacture of potato-cake. These authorities state that they have made numerous experiments in the transformation of potatoes into the form of cake with the most successful results. The method is to grate the potatoes and to press the The method is to grate the potatoes and to press the pulp by means of a press similar to that used for beetroot. Potato-cakes prepared in this manner contained, when dry, about 95 to 97 per cent. of solid matter. They will keep for a considerable period, and can be very advantageously used for cattle. With the addition of meat or fish-meal they are said to form an extremely nutritive and digestible feeding stuff for fattening stock. The liquid which is extracted from the potatoes by the press contains. certain nutritive matter in solution, and need not be entirely lost, as it would be possible to utilize it to some extent in the feeding of stock. The great advantage of the potato-cake lies, it is maintained, in the concentration of the nutritive qualities of the being preserved for an indefinite period. A Manitoba correspondent of the FARMER'S ADVOCATE has suggested that oats and barley might with advantage, in shipping, etc., be pressed into solid cakes, like cakes from the linseed mills, or larger.

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RESULTS.

November 6th, 16 steers averaged 1,157 lbs., total 18,512 lbs., at 3½ cents 647	92
July 26th, 16 steers averaged 1,000 0 1055, course, 1,368	95
Gross gain	
and a state of the	8

November och to the ond of	
seven cents per animal	
Bevon E have and March 39 days at six cents per	
January, February and March, 39 days at six cents per	
day per animal April and May, 61 days at 10 cents per day per animal	
April and May, 61 days at 10 cents per day por	
June 1st to July 25th, 55 days at 12c.	
lung ist to fully 20th, 00 days at 100	

Total cost of food for each animal	\$ 1 3
Total cost of food for 16 animals	
Cost for food 3/8/12	

6 60

Net gain for 16 steers...... Net gain for each animal....\$ 342 31\$ 21 39

The manure is taken as equal to the cost of the labor for feeding, etc. Had the stock been sold in May, as is the custom, there would have been a much larger profit, as will be seen from the above figures. They were kept until July, that the large number of farmers who visit the College during June and July might see the result of this method

of feeding. *Pigs.*—The principles of feeding pigs are similar *Pigs.*—The principles of feeding pigs are similar to those applied to other live stock, viz.: Animals kept for breeding purposes should be fed on food that will form bone, muscle, and flesh, instead of fat. The brood sows at the College Farm are fed twice a day, on boiled roots, either turnips, mangolds, sugar-beets or potatoes, mixed with bran and middlings. The young pigs are fed the same kind of food three times a day. As they have no milk for the young pigs, for three or four weeks after weaning flax seed was mixed in their food as a substitute for seed was mixed in their food as a substitute for milk, about one-half pound per day for each litter of 8 or 10 pigs. The cost of the food at the age of four to five months is 2½ cents per day for each

Agriculturists in Session.

The annual meeting of the Ontario Experimental Inion is to be held at the Agricultural College, Guelph, on the 12th and 13th of December, 1895, for which an excellent programme is being arranged. J. A. Craig, Professor of Animal Husbandry, Madi-son, Wis.; John Craig, Horticulturist, Dominion Experimental Farm, Ottawa; Miss J. Livingston, Superintendent School of Cookery, Ottawa; and others, are expected to be present to deliver addresses. This important meeting, coming as it does at the close of the annual Fat Stock Show, and also the annual meetings of the Dominion Sheep and Swine Breeders' Associations and the Guelph Poultry Association, should bring together a much larger concourse of visitors than usually attends the "Union."

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THE FARMER'S ADVOCATE.

Successful Cultivation.

SIR,-I feel impelled to give my brother farmers my experience with a field during the past three years, as I think it proves that growing fodder years, as I think it proves that growing fouder corn, properly cultivated, is the best possible pre-paration for Manitoba wheat. In the winter of 1892-3 I hauled the manure

daily from the stables and spread it on the snow. As soon as the frost was out sufficiently the manure was plowed under and the ground harrowed once to fine the soil ; about the 18th of May harrowed again to kill the weeds then germinating and drilled with shoe-drill, one-half bushel Dakota White Flint corn, rows about 28 inches apart. When the corn was about three inches high harrowed again, which killed another crop of weeds (just showing through the soil) without materially injuring the corn. This treatment left the ground so clean that we only had to cultivate twice during the summer with a Planet Jr. winged steel cultivator. Two boys with hoes followed the cultivator. vator, cutting and pulling any stray weeds from the rows. They could easily keep up to the cultivator, cleaning six to seven acres daily. This treatment prevented any weeds seeding, and when the corn was cut by a binder with "kicker" the land was absolutely clean.

The corn thus grown, cut early so as to barely escape frost, is the best fodder I have yet found for milch cows, and they eat it all, not leaving a but even, as it is the juiciest part of the stalk.

As soon as the land was fit to work in spring of 1894 I gave this corn stubble a stroke across the rows with Acme harrow (a common harrow will do nearly as well, though it will pull a few of the corn roots up) and then drilled with shoe-drill, $1\frac{1}{2}$ bushels of wheat per acre, going with the rows of old corn stubble. (The corn should be cut as low as binder can be run, as more fodder is secured and less corn stubble left on ground.)

Although the average yield of wheat in Manitobe in 1894 was low, owing to the drought, I threshed 31 bushels No. 1 wheat per acre from this field. In the spring of 1895, finding the wheat stubble absolutely clean, I again drilled l_2^1 bushels of wheat, and have just threshed 561 bushels per acre from it, all No. 1, unfrozen grain. I think this is a valuable experience. I have from one dressing of green manure and one plowing raised one crop of corn and two crops of wheat, as above, which even at the present price of wheat, pays very well for work done and all expenses, leaving a good profit. I think this present crop of $56\frac{1}{2}$ bushels per acre raised on stubble ground, unplowed, is something uncommon. I may say that the land is measured land and the $56\frac{1}{2}$ -bushel yield is threshers' measure, using the bagging attachment, counting two bushels to each bag. The grain was cleanly threshed and is expected to go two bushels and ten pounds to the bag, which would make the actual weighed yield 62 bushels and 42 pounds per acre. I have kept this grain in a separate bin, and intend weighing it carefully to ascertain the exact yield. I believe that while this dressing of fresh manure is a benefit to the immediate crop of corn, it is a much richer plant-food for the first crop of wheat to follow and a still richer food for second crop of wheat.

As it would be interesting to know how it would feed a fourth crop (the third of wheat) without plowing, I am tempted to try it in wheat again

a barrel and mix with what skim-milk we have. Our twenty-six pigs now on hand are making a very fine growth on this diet. Fed judiciously to cows in milk, I value them equal with grain. This may seem a broad statement, but I will explain, We milk more or less of our cows all winter, and our experience is winter milkers need liberal grain feeding. It often occurs that a cow will begin to lose her relish for her grain. The moment I see any disposition on the part of the cow to mince, I remove her grain and substitute a feed of potatoes. Two or three feeds of them regulate the stomach, and the grain is again eaten with a relish. Horses, colts and calves love them dearly, and they are of great value when these animals are confined to dry food. I refused to fill an order recently for any thing less than forty cents per bushel, preferring to keep them and feed to stock. The present season is an excellent one for farmers to try experiment in feeding this valuable farm crop.'

The Care of Farm Implements.

Among the many jobs to be completed before winter sets in is the cleaning up and putting away of implements and farm machinery. On many wellregulated farms, where there is a roomy, convenient shed, no matter how cheaply construced, and the men who use the implements are thoughtful, the job is never allowed to grow into more than a few minutes' work, which can be done at leisure on some stormy day. Upon too many farms, however, this is not this case. How often is an implement left at the very place where its labors ceased ! or, perhaps, by more careful hands, it is taken to a bare corner of the field and there left exposed to all sorts of weather. At the end of an indefinite period, during which the implement may have been alternately soaked, dried, frozen and thawed, it is probably removed to the buildings and placed in a barn mow or implement shed just as it has been brought from the field, covered with accumulations of dirt, damp and rust, and altogether in the precise condition that is most favorable to the rapid wasting of its substance, the injury of its working parts, and the permanent impairment of its usefulness. In this state it is left without further care until it is again wanted in the field. Most probably it then receives a hurried examination, or is sent out without any, the expectation being that it was laid away in fair work-ing order, and it should be found in the same state. Now, this hope cannot be other than fallacious, as the above mentioned unfavorable conditions must produce damaging effects. In many cases a trial will prove the implement defective and incapable, and has to be dispatched for repairs. Valuable time is wasted and pressing operations delayed, perhaps with the result of serious and irretrievable This may seem overdrawn to some farmers, but to others it is a good picture of their own ex-perience if they will but admit it. Not only is there loss from delay upon the farm by waiting for the return of the implement, but in many cases the machinist, who is overcrowded with work, does not give the perfection of work that would be done in a more slack season. Further, with his utmost efforts, the busy manufacturer may have to detain the machine longer than was anticipated, and the farmer, perhaps with his crops fully ripe and his harvest waiting, has to bear the loss of much valu-

able time. Prof. Wright, of Technical College, Glasgow, deals in an able manner with this subject in the English "Farmer and Stock Breeder." He goes on to explain that, as implements are usually constructed of wood and metal, the contraction and expansion of the two by heat, wet and cold are by

Manure for Hay.

Hay land, like any other from which a crop is taken year after year, must be supplied with plant food in order to avoid an annual decrease in the crop produced. All hay crops, except clover, have no ability to extract food from the atmosphere, and the amount drawn up from the subsoil is very meager.

Where clover can be grown successfully, it is entirely the most economical hay crop to grow, but where timothy and other grasses have to be depended upon, and are grown on the same field year after year, it is well to know how to treat such land in order to get the most profitable returns.

In 1894 Prof. R. P. Wright conducted a series of experiments in Scotland, for the purpose of determining the best methods of utilizing farmyard manure upon the hay crop. In this case the manures were all applied in the spring, which would, in all probability, have resulted differently had the application been given in the autumn.

On plot nine, twenty tons of farmyard manure per acre were used, which produced an average crop of a few pounds over three tons. This was a larger crop than any obtained from the artificially-manured plots, although plot six, which had received 2 cwt. muriate of potash, 2 cwt. super-phosphate, and 1 cwt. nitrate of soda, yielded within about 300 pounds of the farmyard-manured

In the calculation of profit and loss, when due allowance is made for the residual value of the allowance is made for the residual value of the farm manure, a profit of seven shillings per acre is shown, which is considerably less than that realized from the artificially-manured plot, which, of course, could not be credited with any residual

value. On plot ten, ten tons of farmyard manure were applied, and gave an average crop of two and fourfifths tons per acre, being an increase of 1,288 pounds over the unmanured plots. This, like the former farmyard-manured plot, incurred a loss on the first cutting, which would be more than made up from the residual returns on following crops. The effects of the manure was much greater on the

timothy plots than on those of rye grass. The relative merits of the small, as compared with the large, dressing may perhaps be more clearly appreciated if expressed in the following manner: On the average, of all the farms dealt with, farmyard manure, applied at the rate of twenty tons per acre, gave an increase of crop of 1 ton 128 pounds over the crop from the unmanured land. One hundred tons of farmyard manure, applied at the rate of twenty tons per acre, would thus give a total return in hay of about five and one-third tons. On the other hand, the manure, applied at the rate of ten tons per acre, gave an in-crease of 1,288 pounds per acre. One hundred tons of the manure utilized in this manner would, therefore, give a return in hay of six and one-third tons, as against five and one-third tons when the larger dressing of twenty tons per acre was applied.

On plot eleven, ten tons of farmyard manure were applied, with the addition of one cwt. of nitrate of soda. This combination has produced the largest crop obtained in the experiments. On the average of all the farms, 364 pounds more hay per acre was thus obtained than where twenty tons of manure had been used.

The average increase over the unmanured plot was 1 ton 408 pounds, as compared with an increase of 1 ton 128 pounds on the plot heavily manured with farmyard manure, and 1 ton 40 pounds on plot where artificials alone were applied. The efficacy of this manuring was fully confirmed both on the rye grass and timothy sections of the experi-With regard to the character of the vegetation With regard to the character of the vegetation upon the different plots, it may be said that the heavy dressing of farmyard manure encouraged a strong and rank growth of the grasses, but proved very unfavorable to the clovers. On plots where the smallest dressing of farmyard manure was applied the clover was in general fairly good, whereas the grasses were less strong and promi-nent than where the heaviest dressing was applied. ment nent than where the heaviest dressing was applied. The quality of hay from the plots treated with both farmyard and artificial manures was not only very satisfactory, but it also produced the largest crop, and from it the largest profits in the experiment were obtained.

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As a result of this experiment, I would strongly advise farmers carrying a number of milch cows to manure as much land as possible in winter and try this system.

The stock objections are two :--

1st—That by spreading fresh manure, ungermi-

nated foul seeds are also spread. 2nd—That the cultivation of the corn in a busy

time in summer is too much bother. To the first I would answer, that in this dry country it is next to impossible to so pile manure as to decompose it and germinate the foul seeds; and I do not care if the ungerminated foul seeds are turned under for a few years, because I have no difficulty in killing them all when turned up to the sun, which will be the first time I summer fallow the land, as experience has taught us how it should be fallowed. I have been spreading this fresh manure in winter on my lands for years, and the first plowing after is always summer fallow, and I have as clean a farm as I see in all my travels - not

excepting Mr. Elder's, near Virden. To the second objection I would reply, that the

only extra work on account of the corn crop is the cultivation and boys' work following, and the extra value of the fodder crop for milk over any other we have is well worth this extra work, to say nothing of the plowing for the successive crops of

wheat, which is saved. Had I plowed my field in question for each crop of the two last above described, the labor would have been more than double that which I have W. A. DOYLE. expended on it. Beulah, Manitoba.

Experience in Potato Feeding.

J. D. Smith writes as follows in the Dairyman and Agriculturist:—"I know from practical experience that potatoes make most excellent pig food during the fall months, my practice being to fill a forty-five gallon farmers' boiler one-half full with potention and fill are with clical numbring with potatoes, and fill up with sliced pumpkins. When well cooked I mix in a peck of corn-meal, and public or a set slovenly untidy farmer." pulverize all together thoroughly; then remove to one as a slovenly, untidy farmer.

no means the same.

"It is true," says the Professor, "that the greater part of the implements of the farm cannot be wholly preserved from the influences of the destructive atmospheric agencies that have been men-tioned. Those employed in tillage or outdoor operations must, of necessity, be subjected to a good deal of weathering. Now, because complete preservation can not be obtained, in too many cases it is not considered worth while to take any precaution whatever. Hence, plows, harrows, scuf-flers, etc., receive little, if any, care, and are allowed to lie about for weeks or months in the wet season of the year, cumbering the head lands, or smothered in the dank herbage of some corner of a field, exposed to every passing shower, and alternately chilled by every evening's frost and thawed again by every morning's sun, while hayrakes and even mowers may be seen buried in the aftermath of fields from which the hay has long been gathered. "The means that may be taken to retard the

progress of deterioration and to shield implements from the wasting influences of the atmosphere are few and simple in character, but not unimportant in effect. One very simple, practical direction is of great consequence. All implements employed at intermittent work should be taken to the shed and placed under cover, repaired, well cleaned and and praced dider cover, reparted, were cleaned and oiled, immediately after use. When laid up for long periods, such as winter, they should be at once overhauled, thoroughly cleaned, repaired, if neces-sary, painted and oiled, and be kept ready for taking out again on the shortest notice in good working order. By thus putting away implements and tools, much time, worry and money will be saved, and the slovenliness of a yard strewn with machines

The Northwest Farmer's Thanksgiving Day.

The Manitoba and Northwest farmer will eat his Thanksgiving Day dinner with a great deal of zest. On a conservative estimate the Manitoba wheat crop alone amounted to 35,000,000 hushels, other grain in proportion, while the Northwest Territories grain in proportion, while the Northwest Territories show similar results, comparing the area under crop. Wheat yields ranging as high as 40, 50 and 60 bushels per acre are reported. One Brandon farmer (Mr. McFadden) has sold 22,000 bushels, bringing him \$10,000. D. Fraser & Sons, of Emer-son, threshed 11,000 bushels, and so on. There have a usual here some severe losses from prairie have, as usual, been some severe losses from prairie fires, frost, and smut. Some severe losses from prairie shipped from Winnipeg, and the year's total will probably reach 50 000 About 25 000 a control probably reach 50,000. About 25,000 or 30,000 hogs were marketed, besides a large number of sheep, and the wool clip amounted to 1,000,000 pounds. About 50 cheese factories and 33 creameries are now

in operation..

FARMER'S ADVOCATE THE

Tanning a Sheep Skin.

There is nothing better suited for a buggy or

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NOVEMBER 15, 1895

THE HELPING HAND.

Handy Farm Contrivances and Methods.

Handy Farm Contrivances and Methods. Upon almost every farm there are some handy, original devices, or improved methods and practices not generally known, which, if given to the public, could be utilized by others in rendering farm management more economical and remunerative. This department is intended to bring out such information for the benefit of our readers, and is to be main-tained by them in holding out a helping hand to their fellow-workers by the interchange of descriptions of labor-saving tools and contrivances, particular ways of management, original and successful experiments tried, or any other feature in connection with farming not generally known. To encourage subscribers to contribute to this department of the FARMER'S ADVOCATE, we offer a cash prize of \$2 for the best, and a second prize of \$1 for the next best contribution received prior to the 15th of each month. These and other contributions deemed of sufficient merit will be published as rapidly as our space will permit, but will not necessarily appear in order of merit. Compensation according to our standing offer for accepted matter will be allowed for sugges-tions published, but not awarded a prize. The decision in every instance will be final. Suggestions must be written upon one side of the paper with pen and ink, and must bear the contributor's full signature and address. They must be as short and concise as possible, 100 words being just as good or better than 500 if they tell the same story. Where an illustra-tion will assist in making a description clearer, a rough pen written matter. Every contributor must be a subscriber to the FARMER'S ADVOCATE. These contributions must not be mere reproductions of what have been published elsewhere. What we want is original matter. Pian sufficiently ahead so that the contributions will be as seasonable as practicable. We desire descriptions of contrivances or methods that have been actually tried and found successful.

Handy Hog Catcher--First Prize.

ELLIS F. AUGUS-TINE, Lambton Co. -It is made in the form of large pinchers, as shown in the accompanying illustration. The handle of one jaw is made hollow at A, into which a wooden handle (B) is made to fit loosely. A rope is fas-tened to handle of opposite jaw, which passes through hole

at C. When you wish to catch a hog, place the long wooden handle in socket, when you can ad-vance the pinchers to encircle the leg of the hog; then pull quickly on the rope and withdraw the wooden handle, and you have the hog secure. To prevent a sow from crushing her pigs against

the wall when lying down, before she is expected to farrow nail boards around the sides of nest-room in the form of shelves about eight inches from floor. Then when the sow lies down, instead of crushing the pigs, they will slip beneath this protection. The litter for nest should be of chaff or finely cut straw

To break a kicking cow, take an old bridle bit and buckle one ring securely to each leg with a short, wide strap. In this way the worst kicker can be securely milked, and in a short time will be completely broken of the habit.

> A Good Plow Slide -- Second Prize. SIMEON SNYDER,

cutter mat or robe than a woolly sheep skin. Kenosha, a tanner, tells, in the Rural New Yorker, how they can be tanned at home. The method is as follows: Within a few hours after the skin is removed from the animal, put it to soak for 24 hours in a barrel of fresh spring water. Then take it out and lay it on a barrel, flesh side up, and scrape it thoroughly free of flesh, tallow and blood. This is easily done by means of an old scythe, which fits the oval shape of the barrel very nicely. If the skin has become dry in places, more vigorous scraping will be necessary. If the skin is perfectly fresh, it should be scraped all over the second and third day after removing from the To clean the wool, tramp or pound it while water. in the barrel of water before taking out for the second day's scraping. Also scrape lightly on the wool side with a wooden scraper while water is being dashed upon it. Should iron come in contact with the wool it is liable to color it. When the skin is ready for tanning, lay it out flat, flesh side up, and apply the following mixture : Pulverized alum, one-half pound; common salt, about one pound; saltpetre, one-half pound; and about twice the quantity in bulk of bran as of the chemicals. Sprinkle about half of it in a nice even layer over the skin, folding the edges over to the backbone, then roll up tightly from the head. Keep it damp in a cool place for a week, then open up, scrape of the application, sprinkle the skin with a pint of water and apply the remainder of the tanning mixture, and leave rolled up for another week, at the end of which time hang it over a scantling, and after two or three day's drying, scrape down to-wards the ground with a blunt knife until it is softened on the whole flesh surface. Then comb out the wool with a horse-mane comb, when you will have an ornamental and warm foot-rug or lap-

cording to taste. One Johnston gives his method, and declares it better than the foregoing : Spread the skin, flesh side up, sweep off all coarse dirt, salt, etc., and cover with a mixture of two parts salt and one of each of alum and saltpetre, fold the flesh sides together, roll tightly, and place in a cool place for eight or ten days. Then brush off all salt and place in a barrel, and pound out in strong soapsuds, with a clothes pounder, until as clean as desired; then rinse. The skins may, with advantage, be put through a large clothes-wringer. Care should be taken that the suds be not too hot. While still warm, stretch and nail to the side of an unpainted building flash side append to the sum for several building, flesh side exposed to the sun, for several days, the hotter the better. When well dried, take down, lay on a bench, flesh side up, and do some vigorous rubbing with No. 1 or 2 sandpaper ; a few minutes will make a skin as soft as one could wish.

robe. It may be lined and left white or dyed, ac

DAIRY.

Is the Fat of Milk a Correct Measure of Its Value for Cheesemaking Purposes?

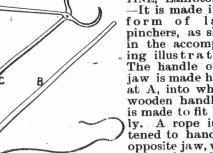
SIR,—The year 1895 has been a trying one for our cheese factories. Many of the new factories will have a struggle to continue another year, while patrons of older factories who have experienced good returns during the past are finding their faith wavering in the old stand-by cheese. Old hands in the business will remember, also, many years ago. when summer cheese once dropped as low or lower than this season; but it did not stay down long. Fortunately, the markets are mending as the season advances, which will put new courage into the faltering ones. In a season like the past, it is more important than ever that each patron should receive his exact share of the fruits of his toil. Inspectors find that in such a season the temptation is very strong to not only recover lawful dues, but also unlawful shares of the milk pooled at the factories. If the energy and money that are now expended in stealing and catching the thief were expended in the solution of a system which would encourage honest milk and honest returns, and *discourage* all dishonest practices, it would be the better for the disnonest practices, it would be the better for the cheesemaking industry of Canada. For two years the Dairy Department of the Ontario Agricultural College, Guelph, has been endeavoring to solve the problem. Last year, when we advocated the two per cent. system, a great hullabaloo was raised in several quarters. The gods of the children to the south were being spoken against, and their worshippers in their native country, and in Canada, were exercised very much ; in fact, there was a stirring of the dry bones. Before giving the results of our work in this connection for 1895, as you suggest, allow me to quote briefly from a letter recently received from the secretary of one of our large fac-tories, where the two per cent. system has been in use during the year. He says: "At the close of the first year that we paid according to the fat readings, I was not altogether satisfied. For, although it might be an improvement on the old system of paying entirely by weight, still I thought there should be something like a sliding scale, as there appeared to me to be too much difference, and to the gain of the rich milk, except extra quality in the cheese made from the rich milk were made out and brought in for consideration. The new system of adding two per cent. to the readings this year accords better with my opinion on the matter, and agrees better with the figures."

He further expresses himself as not altogether satisfied yet, largely for the reason that in some months, when the average per cent. of fat in milk is higher—say, July and August,—it requires more fat to make a pound of cheese than it did in May, when the milk averaged a lower per cent of fat I think this can be explained on the ground that spring cheese usually (or should) contain more moisture than summer or fall cheese; there is less loss by shrinkage before the cheese are sold; and there is less trouble with "gassy" milk and "fast workers," which do not produce so well as milk of good quality. But I must come to the experi-ments. I shall not trouble you with tables of figures showing the yield of cheese per pound of fat in rich and poor milk, as I think that readers generally prefer the results stated in words rather than in figures.

For the months of April, May, June, July and August, which are all the months of which I have the data completed, our experiments give the same the data completed, our experiments give the same result as last year, viz., that a pound of fat in poor milk, testing, say, three per cent. of fat, will produce more cheese than a pound of fat in rich milk, test-ing, say, four per cent. of fat and over. The average per cent. of fat in one lot of milk during April was 421, which yielded 2.54 pounds of cured cheese per pound of fat. The average fat in the other lot was 3.39, which pro-duced 2.72 pounds of cured cheese per pound of fat. In May, when the average was 4.09 per cent. of fat. In May, when the average was 4.09 per cent. of fat, In May, when the average was 4.05 per cent. of fat, the yield of cheese was 2.55 pounds per pound of fat, while the other lot of milk, averaging 3.30 per cent. of fat, produced 2.69 pounds of cheese per pound fat. June milk produced 2.54 pounds cheese per pound fat when the milk averaged 3.94, and 2.80 pounds of cheese when the milk averaged and 2 80 pounds of cheese when the milk averaged 3.16 per cent. of fat. July, with an average of 3.78. produced 2.61 pounds cheese per pound of fat, and the lot averaging 3.00 per cent. fat produced 2.95 pounds cheese per pound fat—the highest yield of cheese per pound of fat we have had up to this time. In August, when we had the lowest per cent. of fat (2.91) that we have had during any month, the yield of cheese per pound of fat was 2.97, while the milk averaging 3.82 produced 2.61 pounds of cheese per pound of fat.

Now, don't let any one run away with the idea that I am arguing for poor milk in our cheese fac-tories, as we need normal milk of good quality and containing about 3.5 per cent. of fat to make good export cheese. Neither do I wish any one to say that this will encourage skimming or watering, as I am not discussing such milk, but normal milk. What we are after is to solve the question as to whether the vield of cheese is in proportion to the fat contained in normal milk. I have no hesitation in saying that the yield of cheese is not in proportion to the fat contained in the milk; therefore the foundation on which rests the system of payment for milk at cheese factories, according to the butter-fat, is insecure and untenable unless it can be shown that extra quality of cheese is produced from richer milk. This point I shall not discuss at present,

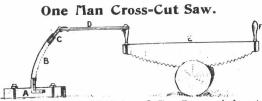
as my article will be too long. Having spoken of the incorrectness of one system, it will be in order to suggest an improved one. At the present time I have no apology to offer for the addition of two per cent. to fat read-ings. Further research may disclose something better; but at present it nearly fills the bill, as the following table will show :-





Waterloo Co., Ont. Take a two-inch plank two feet long and one foot wide; then take a piece of wood nine

inches square; cut a notch out so that if it be bolted on this plank with the notch downwards, the plowshare will just fit in. Bevel front end of slide. When all is fixed place the plow on top, let the point of the share slip into the notch, and you can drive out into the field very comfortably, and not wear the plow.



ROBERT WARK, Richmond Co., Que.—A is a two-inch plank, four feet long, staked to the ground: upon it is bolted a right-angled brace, riveted to an old handsaw. B, which is riveted to a short rod (C) which joins with the double fence wire (D). This wire is fastened securely to one handle of the cross-cut saw (E). The handle (F) is grasped by the sawyer. It will be readily seen from the illus-tration that the old handsaw (B) acts as a spring which aids in hauling the saw (E) back through the log. ROBERT WARK, Richmond Co., Que.-A is a two log.

Log Wagon Wheels.

While on a trip through the south-western portion of Ontario Province, we noticed a number of low-down wagons in use. The wheels were of buttonwood logs, about fifteen inches in diameter. The logs were sawed off the length of a wheel hub and sent to a wagonmaker to insert the iron boxing of old wheels. Wagons fitted with these wheels or rollers serve a good purpose in hauling manure, stones, etc., as they are as low as a sleigh, and will not cut into the soil, even of a plowed field.

	lk.	verage % fat for month.	cured e ced.	per li be w amou	o. net, e orth nts of	chcese each lot the fo money, ing to:-	would llowing if di-
Молтн.	Lbs. milk.	Average for mu	Lbs. of c cheese produc	W'ght of milk.	Per ct. of fat.	Per ct. of fat + 2.	W'ght of cheese
April	1800 1800	4.21	192.50 - 166.25	\$14 35 14 35	\$15 90 12 79	\$15 36 13 33	\$15 40 13 30
May.	4500 4500	4.09	470.50 401 75	$ \begin{array}{r} 34 \\ 34 \\ 89 \end{array} $	38 53 31 24	$37 \ 31 \\ 32 \ 47$	$37 64 \\ 32 14$
June {	3600 3600	3 94 3.16	$361.00 \\ 319 00$	$\begin{array}{c} 27 & 20 \\ 27 & 20 \end{array}$	$\begin{array}{ccc} 30 & 17 \\ 24 & 23 \end{array}$	29 11 25 29	28 88 25 52
July.	3900 4200	$3.78 \\ 3.00$	383 50 367.00	28 91 31 13	$ \begin{array}{r} 32 & 34 \\ 27 & 70 \end{array} $	31 10 28 94	30 68 29 36
Aug.	3900 3900	3 82 2.91	$388.75 \\ 338.50$	29 09 29 09	$ \begin{array}{c} 32 & 99 \\ 25 & 18 \end{array} $	$ \begin{array}{r} 31 & 56 \\ 26 & 62 \end{array} $	$ \begin{array}{c} 31 & 10 \\ 27 & 08 \end{array} $

The foregoing table shows that the addition of wo per cent. to the fat readings gives a slight advantage to the richer milk, under 4 per cent., when compared with the actual value of the cheese produced. This is the strong point of the system, as it encourages the sending of good milk to the factory (say milk with 3.5 per cent. fat, which is rich enough to make first-class Cheddar cheese); but when the milk tests over four per cent., as in the months of April and May, then such milk does not receive any advantage—in fact, is placed at a disadvantage. It is a question whether milk con-taining four per cent. of fat and over is best made up into Cheddar cheese for export or into something else.

The average percentage of fat in the milk at the factory referred to (which is one of our best) is Per cent. of fat. as follows:

Month.	1894. 1895.
April	
May	
June	
July	0.10 9.19
August	
October	3.87
November	4.03
	H H. DEAN

Dairy Department, Ontario Agricultural College.

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THE FARMER'S ADVOCATE.

A Plan for Securing Greater Uniformity in the Quality of Cheese.

One of the requisites in maintaining the high standard of Canadian cheese, and retaining first place in the best markets, is uniformity in quality, as well as fine quality. If in any cheese district one half the factories make an inferior article, the sale of the product from the other half, where finer goods are made, will be injured, and the reputation of the whole lowered. So it is in the interest of those factories where fine goods are made to have the quality of the cheese made in neighboring factories brought up to as high standard as their own, To do this successfully there should be cooperation between factories, and a mutual desire to help one another. Though the finest quality of Canadian cheese is

made in many Western Ontario factories, yet all have not yet reached the proper standard. It will therefore benefit every factory, in that or any other district, if the general quality can be raised equal to that of the finest. To accomplish this, a uniform system of making must be carried out, and this can only be accomplished by a uniformity of instruction only be accomplished by a uniformity of instruction and inspection. We have an example of uniform methods of work in connection with the cheese factories in Prince Edward Island. The output of the factories there is said to be of a standard quality throughout. This has been brought about by having one skilled man supervising the methods

of making in all the factories. The Western Ontario Dairymen's Association The western ontario Darymen's Association has under consideration plans for bringing about still greater uniformity within its jurisdiction. As soon as these are perfected they will be submitted to the factorymen. The number of factories in Western Ontario is too large to admit of giving uniform instruction at all by one or two persons, so it is proposed by the Association to arrange them into five or six groups or syndicates. A thoroughly skilled maker will be placed over each combination, to visit the factories regularly and give instruction in making; while one or two com-netent men will be employed to look after and in petent men will be employed to look after and in-

struct those in charge of the syndicates. To carry out such a plan of systematic instruction a considerable amount of money will be required. The present Government grant would not be sufficient to meet this extra expenditure. Therefore, to finance it successfully, the factories would need to contribute ; in fact, if the Association cannot depend upon each factory in the several groupes or syndicates to pay its share of the ex-penditure, the scheme proposed cannot be carried out. There are estimated to have been about 22,000 tons of cheese manufactured in Western Optimized in 1901. If each top of charges made were Ontario in 1894. If each ton of cheese made were taxed, say, 15 cents, \$3,300, or an amount sufficient to pay for four or five instructors for syndicates, could be obtained, which would enable the Association to do a large amount of valuable practical work. There are about 340 cheese factories in that portion of Ontario. Another means suggested of raising this revenue would be to have each factory pay \$10.00. This would furnish about the same amount of money, but, for obvious reasons, would not be as fair a basis as the other. It would not be fair to tax a factory making 40 tons of cheese as much as

Copies of the scheme, when perfected, will be sent one making 100 tons. to the factory representatives, to be discussed at the to the factory representatives, to be discussed at the annual meetings during the winter, and submitted to the patrons for their approval. If it meets with the co-operation of the factorymen, arrangements will be made to have it carried into effect next season. The object in view is certainly most laudable, and can only be achieved by hearty co-operation. Can-adian dairying for years past has been reaping a adian dairying for years past has been reaping a good harvest from efforts in this direction. Sys-tematic instruction in dairying has brought the business greater profits, which is the ultimate object of this new proposal. Whenever we begin to relax our efforts in improving the quality, just so soon will we begin to lose our hold upon the so soon will we begin to lose our hold upon the cheese markets of Great Britain. The English consumer is not so much concerned about the consumer is not so much concerned about the place where his food comes from as about its quality. With him the place that sends him the finest quality is going to get his custom.

on almost every subject—this among others. Some will tell you there is little or no danger; that the disease is no worse than it was twenty years ago, and that the tuberculin test is all nonsense; while others will paint in the darkest colors the great dangers the people are exposed to by using milk or meat from tuberculous animals, and loudly call for the destruction of every animal affected, how ever slightly. I believe these are the two extremes. That there is danger from the use of tuberculous animals cannot be successfully denied, as many smaller animals and calves have been infected by its use in carefully made tests; yet we find that in 80 per cent. of diseased animals the milk is not of per cent. of diseased animals the mink is not infected; that is, none of the bacilli or germs can be found in it. We might say that in the majority of cases where the disease has been found in the milk, tuberculous nodules have been found in the udder, or the disease had so far advanced that it was disseminated through the system.

"Second—Measures to prevent the spread of the disease :—(a) By testing every thoroughbred animal coming into the Province. This I consider very necessary, as cattle breeders in other parts are getting to understand enough about the disease to want to get rid of any animal showing the least symptoms of it, and as it is so prevalent in other places we cannot be too careful in admitting cattle into this Province. (b) By testing with tuberculin all thoroughbred cattle sold in this Province for breeding purposes, especially males, as the disease is often introduced into healthy herds in this way. (c) By the destruction of all animals showing physical signs of the disease; that is, piners or wasters, cattle that become emaciated, having a wasters, cattle that become emachated, having a cough and discharge from the nose, or with en-larged glands of the throat, flanks or udder, or a combination of symptoms. (d) The thorough cleaning and disinfecting of all stables where affected animals have been stabled. I wish you to distinctly remember there is little or no work do distinctly remember there is little or no use de stroying animals if you put healthy animals into the same stable without thoroughly cleaning and dis-infecting it. There is no doubt that 90 per cent. of the discourse in coursed by the inhelation of the the disease is caused by the inhalation of the bacillus tuberculosis in the form of fine dust; therefore our great care should be not to allow any of the discharge to dry on the mangers, stalls or floors, or to rise in dust. Sprinkle your stable floor thoroughly before sweeping. (e) By allowing no person affected with tuberculosis to feed or care for outfle as there is no doubt that the disease cattle, as there is no doubt that the disease originates in some herds in this way. (f) By careful isolation and branding of all animals that react

"I will be asked what is the use of isolating them if they have tuberculosis? I answer, to slaughter as food for man, or for breeding purposes. The question will be asked, Is meat from tuberculous animals fit for human food? I answer in the affirmative; that is, where the disease is localized in the lungs, liver, or some of the smaller glands. After a careful study of the many tests made by Professors Nocard, Bangs, Williams, and the Professors of the Bureau of Animal Industry at Washington, and others, I have come to the conclusion that there is little or no danger from the use of meat from animals with localized tuberculosis, and positively none if the meat is well cooked. Therefore, when we have a herd with a number of young animals slightly affected, as we sometimes find the case, I do not think it right or necessary for stock raisers or dairymen to be at the loss of their cattle, but all that are not required for breeding purposes should

If I had a cattle.

APIARY.

North American Bee-Keepers' Convention.

(Concluded.) The Rev. L L. Langstroth gave an address on "The First Importations of Italian Bees." The Commissioner of Patents in the United States gave a commission to Mr. S. B. Parsons to secure the Italian been and after much trouble the Italian Italian bee; and after much trouble, the Italian bee secured a footing on the American Continent. Mr. Langstroth stated that the drones from these queens were black ; they found, however, that pure Italian queens, purely mated, could have Italian depresent the color in success and dropes was not drones; the color in queens and drones was not

drones; the color in queens and drones was not decisive but in the workers. Introducing Queens.—Mr. S. T. Pettit, Belmont, Ont., followed upon this subject. Mr. Pettit stated that many queens, apparently introduced safely and surely, were accepted under protest, and were often curverseded or killed. He liked to introduce a often superseded or killed. He liked to introduce a often superseded or killed. He liked to introduce a queen to a weak colony; they were less liable to object. An excellent plan was to make up a colony of combs of hatching brood; the bees were then all young, and the queen perfectly safe. *The Bee-Keepers' Union.*—Doctor C. C. Miller, Marengo, Ill., and Thos. G. Newman, Chicago, Ill., introduced the question of the union of the Asso-

introduced the question of the union of the Asso-ciation with the Bee-Keepers' Uniou. The Bee-Keepers' Union is noted for having taken hold of cases where, out of ill-feeling, ignorance or other cause, bee keepers have been prosecuted, or bees have been prohibited, by ordinance or by-law, from towns, cities, villager, etc. The Union has shown that such prohibition is illegal and unconstitutional, and cannot be enforced; if they lost a case in a lower court they invariably won it in the higher. From the discussion, it is likely that the union will take place ; the question was put in the hands of a

Something of Interest to Bee-Keepers.-G. M. committee. Doolittle, Borodino, N. Y., gave an interesting address. In it he said bee-keepers had made a mistake to speak so much of adulteration ; the right way was to go to the Legislature or Parliament and quietly have an Act passed putting heavy penalties upon adulteration, and then enforce the law; such methods would soon stop adulteration. Mr. Doolittle's remarks fell upon a sympathetic

Address by the Hon. John Dryden.-Thursday evening was one long to be remembered, and memevening was one long to be rememoered, and mem-bers felt themselves honored by the presence of the Hon. John Dryden, Minister of Agriculture, and Dr. Mills, President of the Ontario Agricultural College. Mr. Dryden spoke in his usual pleasing, for cible and instructive way, pointing out the great forcible and instructive way, pointing out the great resources of the Dominion and Province of Ontario, giving instances of the Acts passed for the protecgiving instances of the Acts passed for the protec-tion of bee-keeping, the grants of money allowed for its development. In closing, he said : "I wish you every success in your enterprise. You represent a large industry. It is composed of very small drops, large industry. It is composed of very small drops, but taken together it means a great deal. Our peo-but taken together it means a great deal. Our peo-but taken together it means, a great deal we used ple in this country and the people in the United States do not realize what it means, but you can add wealth to this country and to your country by add wealth to this country and to your country by add wealth to this country and to your country by paying attention to this industry. We who repre-sent the Province believe we help all the people when we help the bee-keepers of Ontario; and therefore it is that we give grants year by year to

therefore it is that we give grants year by year to this Association, and assist as far as we can to help them in their work." (Applause.) Jas. Mills, M. A., LL. D., President of the Ontario Agricultural College, followed in an ad-dress which showed careful thought, and from which those present could derive, in the applica-tion, much profit. Doctor Mills said that success in farming. more than any other calling. depended on farming, more than any other calling, depended on a number of uncertain and uncontrollable condiions or circumstances; he would venture to say, in his judgment it was not advisable for a farmer to con-fide his whole attention to any one line or branch of nde his whole attention to any one line of branch of his occupation; that it is not wise for him to put all his eggs into one basket. President Mills then spoke of the Ontario Agricultural College and the xperiment in bee-keeping which had been started, in which a keen interest was taken by those present.

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VETERINARY.

Tuberculosis Among Cattle. [A paper read by S. J. Thompson, Veterinarian for the Province of Manitoba, before the Manitoba Dairy Association] "There has been so much said and written about

this disease that it is not my object to give you a long history of the disease, but to give you, in as

concise a way as possible,-"First—To what extent I find the disease pre vailing in this Province I speak after a careful inspection of a great number of cattle in different

parts of the Province, and after having used the tuberculin test on about 120 suspected cases, of mich test of the province to be about the test of test of the test of test o which 68 were found to be affected with tuber-culosis, the greater part of which have been destroyed, and post-mortem examination made on the great majority (which helps to prove the great value of tuberculin as an agent for detecting the disease in its curlice starses while cuits impossible disease in its earlier stages, while quite impossible to detect it by physical examination), and after a careful summing up, I believe I am quite safe in saying there is not more than three per cent. of our cattle affected; but there is no doubt we will find the great majority of those among our dairy cattle. We find there are many people who go to extremes

be at once fattened and killed. "Breeding from tuberculous herd of dairy cattle that to all appearance was healthy and strong, with a few exceptions, I would feel it to be a very great grievance and wrong if I was forced to destroy them unless I was fully recompensed. It would be quite right and just to prohibit me from selling milk or butter from such a herd, but to prevent me keeping my cattle isolated that I might increase my herd with their progeny, 99 per cent. of which, with judicious care, I would expect to be free from this disease, I would consider a great hardship; therefore, if I had a herd of cattle that I had cause to suspect were affected with tuberculosis, had cause to suspect were affected with tuberculosis, I would have them tested with tuberculin. Those that showed physical signs of the disease, besides reacting with test, I would destroy; the others that reacted I would isolate. I would go on and breed them as usual, taking away their calves as soon as born and feed them on boiled or sterilized milk. I would again test those calves when about a year old would again test those calves when about a year old, with the full expectation of finding them free from with the full expectation of finding them free from tuberculosis. And I believe, under certain circum-stances, I would go further; that is, where I wished to isolate my cows in a distant pasture, where it would be very inconvenient to milk the cows and feed the calves, I would allow the calves to run with their mothers until time to stable them in the fall, their motners until time to stable them in the fall, when, before stabling, I would test the calves with the expectation of finding very few, if any, affected by the disease. There is one thing more I wish to nortion and to lay a great deal of stress upon, namely, I believe it should be made a criminal offence to sell milk or its products from tuberculous cows, or to sell au animal that is tuberculous (or has been branded as such) without informing the purchaser and also notifying the Department of Agri-culture, so that the continued isolation could be insisted on. Where sold to butchers to be slaughtered, it should be inspected by a qualified man. These are some of the means I would take to

hinder the spread of this disease and minimize its effects on our dairy cattle, and through them on the human family."

Different experiments were suggested. At the close both gentlemen received the rare honor of being elected honorary members of the

Association. Mr. R. L. Taylor followed upon the subject of "Experimental Agricultural Stations," asking that greater interest be taken in the work.

greater interest be taken in the work. Mr. Allen Pringle followed upon "Some Mistakes of Bee-Keepers and Bee Journals." Amongst other things, Mr. Pringle said : "In the first place, when a man gets by mistake into the wrong business (for a man gets by mistake into the wrong business (for him) of tending bees, it is another mistake not to get right out of it again before his money and himself have parted company. right out of it again before his money and himself have parted company. make a little fortune out of bee-keeping (saying nothing about a big one) takes time and patient, nothing about a big one) takes time and patient, persistent work, as well as special aptitude and persistent work, as well as special aptitude and ability; and, in addition to all this, an extra local-ability for the abundant yield of nectar. But a little fortune may undoubtedly be made under the favor-able conditions noted."

able conditions noted." Mr. R. McKnight, Owen Sound, followed upon "Legislation for Bee-Keepers"; this elicited noth-

"Legislation for Decrete Respire, this chicker house and ing very new. The following officers were elected :--President, Mm.
A. I. Root, Medina, Ohio; Vice-President, Wm.
McEvoy, Woodburn, Ont.; Secretary, Dr. A. B.
McEvoy, Auburndale, Ohio; Treasurer, W. Z.
Mutchinson, Flint, Mich.
Adjourned.

Adjourned.

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THE FARMER'S ADVOCATE.

NOVEMBER 15, 1895

GARDEN AND ORCHARD.

POULTRY.

Covering Strawberry Plants.

RY ELLIS F. AUGUSTINE, LAMBTON CO. By the end of this month, or as soon after as the ground is frozen sufficiently hard to bear the weight of team and wagon, all strawberry plants should be covered for the winter. It is often stated that this covering is not required before January, and that the work may even be delayed much later if the ground remains hard frozen. Some claim that the leaves of the previous summer's growth are of no more use to the plant, and all that is required is to protect the roots from being heaved by the alternate freezing and thawing of early spring. This is an erroneous idea, and no young fruit grower should be misled by it into making what will prove a very serious mistake. The hearts as well as the roots of the tender plants require protection, for often after a twelve-hour gale of searching zero wind they will crumble to the touch like so many dry leaves; this we once learned through costly experience. We now find that the plants are much more vigorous if covered while the leaves retain their summer freshness, and that such plants will give double the yield of fruit of others whose covering has been delayed until all the outer leaves have turned brown.

Forest leaves are often recommended as a covering. These may answer for a small garden plot, if brush is laid upon them to keep them in place; but if used in an open field, without other protection, the first heavy wind will scatter them. Marsh hay is also recommended, and no doubt will prove most satisfactory of all in sections where it can be readily procured, but there are comparatively few local-ities where it is to be had. Cut cornstalks have been tried with excellent results, but are altogether too expensive for general use.

The only covering which can be generally used is wheat, oat or barley straw. Pea straw is too compact, and when used freely and weighted by heavy snows, often causes the plants to rot. But whatever kind of straw is used, it must be entirely clean, if a large amount of extra work is to be avoided; this we also learned by experience. Ten or twelve years ago we had several acres of fine plants to be covered. A stack of old straw was offered to us at a low price, so we purchased it and spread it carefully over the field. But later on we found that we had seeded that field heavily to Canada thistles, pig weed, rag weed, wild mustard, and many other kinds of foul weeds equally difficult to eradicate. It was many years before the field was entirely rid of these pests, and it is need-less to state that that was the most expensive covering we ever purchased. (Right here I wish to state that this one mistake cost us more than the subscription price of half a dozen good farm journals, like the FARMER'S ADVOCATE, for as many years and as it is the province of every good farm paper to give just such experiences, it is the farmer that leads who avoids committing like errors.) If one is not sure that the straw is entirely free of weed and timothy seed -- and how little straw is, is shown by the multitude of weeds which invariably spring up where the straw is thrown to the ground in unload-Build following plan should be adopted : a scaffold of poles or rails beside the stack, four or five feet from the ground. Three persons are then required for the work : one pitches the straw in small forkfuls upon the scaffold, where the second, after shaking it up well, passes it on to the loader in this way, practically all weed seeds are shaken from the straw; and in strawberry culture even wheat is considered a weed. The straw, when unloaded, must not be allowed to remain in large heaps more than a day or two, or the plants beneath will be smothered. It should be spread evenly over the whole field to a depth of two or three inches ; more than this will smother the plants In the spring, part of this should be raked off the rows and tramped down in the paths between, leaving just what the plants can readily push their way through. The straw about the plants acts as a mulch and keeps the fruit clean during heavy rains, while that between the rows will largely prevent any weeds from springing up; of course no cultivation is given till after the fruit is harvested. This work of early covering and thorough mulching is one of the chief factors to success in straw berry growing.

Fitting Poultry for the Shows. Now that the fall exhibitions are over, and the winter poultry shows some distance in the future, a few pointers on the method of keeping the fowls in the pink of condition may be appreciated by some new beginners. A bird to be in first-class show form must be in

the best of health. This rule, which holds good with all stock, is fundimental, all the rest being subordinate to it. A bird, too, must be plump to stand any chance of winning a premium, but it is not desirable to retain this plumpness after the show is over. In fact, the best results are always obtained by keeping birds which are intended for exhibition in only fair condition up till within a few weeks of the show, when they should be put on Iew weeks of the snow, when they should be put on special treatment, which will give them the much-desired bloom. Mr. R. Gordon, in Farming World, says: "Three weeks' special treatment before a show is generally all that is required; and when the birds arrive home again they should be put on -plainer fare until such time as they are wanted for show purposes again

Different sorts of birds require different treat ment. Games, etc., which require to be shown in very short, hard plumage, should receive very little soft food, only sufficient in which to give some of the highly cencentrated nitrogenous foods, such as lean meat, liver, etc. A little hemp seed should be given occasionally, and canary seed may well form considerable proportion of their diet. Game fowls require a good-sized grass run in order that they may obtain a strong muscular development. The above mentioned writer claims that soft-feath

ered breeds may have one meal of soft food daily, with an allowance of boiled liver. Hemp seed and wheat may be given in moderation, and it is the practice of one of Ontario's most successful poultrymen to add a little tincture of iron to their drinking-water, which has the effect of giving the face and comb a brilliant red. Indian corn should not be given to white feathered birds, as it has a strong tendency to give a yellowish tinge to the feathers. It has the same effect on the legs, and therefore should be given in moderate quantities to Plymouth Rocks, Brown Leghorns, etc. Oatmeal has also a good effect upon the yellow leg, and may take the place of corn in such breed as have yellow legs, and plumage that corn would injure.

Birds with light-colored plumage suffer from tanning when exposed to strong rays of the sun however, this factor has not much force after this season of the year. There are two especial conditions in which they should not be exposed to strong. sun rays: 1st, when the birds are moulting, and, 2nd, when the plumage is at all wet, as at such conditions the color tans very readily. Not only do light-colored birds suffer by strong sun rays, but such as barred Plymouth Rocks sunburn to a rusty brown quite easily.

The feathery-footed Asiatic breeds require careful looking after in order to keep the masses of foot feathers from being broken and otherwise destroyed. A grass lawn, kept very short, makes a good run for them. No heavy breeds, especially if feathery footed, should be allowed to roost, but should be bedded at night on sawdust or fine hay or straw. When white birds require washing before some practice is care necessary to do it well. They should never be sent to an exhibition before they are trained and accusgoing to tomed to being examined, as the judge will have to do. A little acquaintance with the show pen at home will give them confidence when they arrive at the place they have been fitted for. An occas-ional dusting with insect powder will keep them comfortable, so far as the absence of vermin will conduce. A constant supply of clean water, sharp grit and green food are indispensable at all times.

and shape; poultry well fattened, properly dressed, and uniform in color and size. England imports millions of dollars' worth of both eggs and poultry, and there is always a market for a first-class article Canada to-day ranks high for cheese, and her butter shipments, under the present system, are sure to be a success, and there is nothing to prevent our eggs and poultry (shipped in similar cars) find-ing a paying market either in the large American cities or on the English market. The experimental farms have been trying various crosses of pure-bred poultry, and recommend White Leghorns and Light Brahmas, and Brown Leghorns and Partridge Cochins to produce eggs and carcass, but the Ply-mouth Rock and Wyandotte males crossed with ordinary stock will produce a bird that for general purposes cannot be beaten. In the Manitoba climate it is rather hard, under ordinary surroundings, to get early sitters; but, if possible, get a few early hatches. The pullets will lay early in the fall and continue through the winter, if properly housed, continue through the winter, if properly housed, and be the first to sit in the spring. By selecting these early-hatched birds, your flock will in a short time moult early in the fall and lay when eggs command the highest prices. Early-hatched cock-erels can be marketed in July and August, before the wild fowl come on the market. By killing the cockerels off at this early stage it makes more room for the stock you intend to keep over, and the cost of feeding the flock is considerably reduced.

QUESTIONS AND ANSWERS.

[In order to make this department as useful as possible, parties enclosing stamped envelopes will receive answers by mail, in cases where early replies appear to us advisable; all enquiries, when of general interest, will be published in next succeeding issue, if received at this office in sufficient time. Enquirers must in all cases attach their name and address in full, though not necessarily for publication.]

Legal.

RECOVERY OF MONEY-NO AGREEMENT.

A. W. B .: -- "A, while under twenty-one years of age, being a Public school teacher, paid or lent about \$175 a year for two years to his father, with whom he resided during the time he was teaching, as previously. Nothing was said by either party as to whether A was to pay for his board or whether or not the moneys paid to the father were paid as for board or as a loan or gift. Can A now recover back from his father the moneys paid or any of them i

[No. We think the moneys paid would be deemed to be paid as for board, etc.]

MONEY PAID UNDER MISTAKE

M. J., Huron Co., Ont. :- "Last year I agreed to breed a mare to B's horse and to pay the money this last spring if the mare proved to be in foal; but before time for payment I sold the mare and B came in the spring and said the mare was in foal, and I paid him the money. I afterwards ascer-tained the mare was not in foal at all. Can I recover the money I paid to B?

Yes. If the money was really paid under a mistake or by reason of the false statement of C.]

PAYMENTS ON MORTGAGE.

A. R. G., Wellington Co, Ont. :- "To whom must payments on the mortgage be made where the mortgagee himself lives at a distance and desires payments sent direct to himself, although his agent ives near at hand? [The payments should be paid direct to the mortgagee unless he otherwise directs, and moneys paid to the agent after notice not to pay to him are made at the risk of the mortgagor.]

Nova Scotia School of Horticulture.

We are pleased to record that the Nova Scotia School of Horticulture at Wolfville reopened on Nov. 1, entering upon its third year with greatly improved facilities and most encouraging prospects generally Prof. E. E. Faville, the Director, will gladly furnish intending students, or others, any information desired regarding the institution.

Too many farmers' fruit gardens are seldom entered after the fruit is all picked. This is all wrong if a crop is desired next season. All weeds, dead wood, trimmings and rubbish should be removed and every plant and bush protected for manure, and then it will be no fault of yours if a class of stock will find a paying market. Exporters crop be not obtained in 1896. crop be not obtained in 1896.

Eggs and Meat.

BY M. MAW.

Poultry raisers often fail to make their stock pay because they do not keep the right kind, and breed from grade roosters. It is an acknowledged fact that the first cross from a pure-bred male and ordinary females produces good results, but by using the grade male the results are disappointing. Inbreeding is another cause of failure, resulting in stunted offsprings and a loss of size and vitality. It is not necessary to keep a pure bred flock to insure good results. If you have a mixed flock, secure a pure-bred male, of the variety you like best, and mate with eight or ten of your best hens; setting the eggs from this pen, you will have a good start the following year, and can kill off all the old stock; then by getting a pure-bred male occasionally, you will have a flock that will compare, for stock purposes, with the best in the country, at a very small outlay. In starting your flock it is necessary to consider the probable market you will have for your produce-both meat and eggs. If you have a local demand, ascertain whether light or darkcolored eggs are required, also the color of the legs and skin in dressed poultry. In England they like white legs and skin, while the demand in the States is for yellow skin and yellow legs. The time is near at hand when large quantities of dressed poultry and eggs will be exported from Manitoba winter. Give the ground a coat of fine farmyard and the Northwest, and those who have the right

ABOUT PROVING WILLS.

WENTWORTH, Ont. :- "1. What is the object of proving or probating a will?

[No person has power to collect debts and give valid receipts or is safe in managing an estate until the will is proved. It is the official means of showing that the will is the valid and last will of the testator.]

"2. Do all wills require to be proved?

[Yes; sooner or later, if the estate is properly nanaged.]

"3. What is the cost ; and is the cost always the same ?

[From, say, \$25 upwards; more in larger estates.] "4. When must the will be proved?

[It may be done at any length of time after the lecease of the testator, and generally will require to be done at an early date.]

"5. Is there a penalty for not proving a will?" [No.]

SALE OF LAND-INFANT INTERESTED.

M. E., Hastings Co., Ont. :- "1. A, by his will divised his farm to his wife (B) for life, and after her death to his son (C), and appointed executors. B and C both desire to sell, but C is not twenty-one years old. Can they and the executors sell and make a valid conveyance. Kindly explain?

A conveyance to be effective in conveying the interest of C would require to be approved of by the official guardian for infants, and he would require C's share of the purchase money to be under his NOVEMBER 15, 1895

THE FARMER'S ADVOCATE.

charge till C came of age, to be then paid to C. By getting this consent and approval, a valid convey ance can be made now, providing there be no restriction in the will requiring the land to be kept unsold during B's lifetime or otherwise.]

2. How long must land be held by possession to obtain a title to it?

When the legal owners are of age and not under any disability as lunacy, etc., ten years.] "3. Can a trustee obtain title by possession?"

[A trustee in possession of course holds only for the beneficial owners, not for himself, and he cannot himself obtain title by possession as against the persons whom he represents, but care should be taken that the trustee really holds as trustee, and if there be any doubt, he should be asked to sign a paper admitting the fact.]

Veterinary.

TREATING "LUMP JAW."

GEO. MCCAUSLAND, Grey Co., Ont .:- "I have seen several enquiries in the ADVOCATE about how to treat lump jaw in cattle. By experience I have found a method that has proved successful in every case, and I have treated several. I first throw the beast, and with a sharp knife remove or open the lump and clean out the matter. I make a swab of cotton or take a feather and dip in oil of vitriol (using a wide-mouthed bottle), rubbing it on the wound, which crusts over and stops bleeding. The wound heals quicker with that treatment than any other I have tried. The animals suffer more from the knife than from the oil of vitriol, which does not eat into the flesh."

[NOTE.-The standard veterinary treatment for actinomycosis (commonly called "lumpy jaw") is the administration of dram doses of the iodide of potassium morning and evening for two or three weeks, given in a bran mash or in a drench. An abscess arising from a blow is sometimes mistaken for actinomycosis, which is, however, a much more serious matter.]

MANGE.

F. J. B. D., Wakopa:-"I have some young pigs about three and a-half months old, which are ever lastingly scratching themselves. They are a cross between a thoroughbred Yorkshire boar and a good grade Berkshire sow. They are all white as regards their hair, but the skin is red, and about the necks and backs scabby. When they were about three weeks old, I noticed cracks on their tails and back of ears, so thought it advisable to shut them up in a cool, dark stable till they healed up, when they were allowed to go out and in as they pleased. For the first two months their food chiefly consisted of skim-milk and boiled oats; this last month, of boiled barley and swill. These pigs have liberty to roam where they please. Kindly state what is wrong with them and what treatment should be followed?"

[Your pigs are evidently suffering from mange. Wash well with strong soapsuds; dry off by rub bing well with coarse cloth, and then apply the following ointment by rubbing in with the hand : Sulphur, four ounces; vaseline, eight ounces; mix. W. A. DUNBAR, V. S., Winnipeg.]

RHEUMATISM.

S. P. HUNTER, Crystal City :- "I have a three-year-old mare colt that is affected with swelling in the legs. One leg at a time swells—worse in the hind legs. The swelling is painful to touch. The colt has never done much work and is in good con-dition dition generally. Sometimes gets lame in front legs without swelling. Have consulted a V. S., who thought she was affected with rheumatism, she having wintered at a stack on the prairie when two years old. Please advise." The symptoms are indicative of a form of rheumatism, often the result of exposure to vicissitudes of weather. Give a purgative ball composed of Barbadoes aloes, six drams; calomel, one dram; treacle or soft soap, a sufficient quantity. After the physic has ceased to operate, give for two weeks, morning and evening, in bran mash and boiled grain, alternately, salicylate of soda, two drams. Apply to swollen limbs, once daily, the following liniment: tincture of opium and soap liniment, equal parts. Keep in clean, warm, and W. A. DUNBAR, V. S.] well-ventilated stable.

MANGOLDS VS. TURNIPS.

W. McK., Victoria Co., Ont :- "1. Are mangolds better food than turnips for pigs ;--wherein do they differ? 2. Are mangolds as good as turnips for beef cattle? 3. Are mangolds better for milch cows than turnips? 4. What kind of soil is best suited for mangolds?"

[1. We prefer mangolds to turnips as pig-feed for the reason that they are much more relished by hogs, while they contain almost the same amount of nutrition. The quality of palatability is worthy of more consideration in stock feeding than is usually given it. 2. Turnips seem to get the preference on most beef-feeding farms, which we think is warranted for the reason that mangolds contain a higher percentage of starchy food, which is already in excess in the ordinary diet of cattle, viz.: straw, hay, and corn fodder. Turnips have a nutritive ratio of 1:5.8, while mangolds have 1:9.3. The extra starch diet is not lost in, pig feeding. 3. Mangolds are to be preferred for milch-cow feed because they never impart an objectionable flavor to the milk, which is likely to occur when turnips are fed. Except for that reason turnips give better results. Mangolds are greatly relished by cattle-4. Well-drained and enriched, but moist, loamy soil.]

LARGE LITTERS OF SWINE.

F. J. BARBER, Halton Co., Ont. :- "What is the largest number of pigs farrowed at one time that has come under your notice? I have a year-old sow (which farrowed on Nov. 7) that had a litter of 18. She is a Duroc-Jersey, and I understand that one of the claims made for this breed is its prolificacy. Is this more noticeable in this breed than in any other?

[From our observations it would seem that the Duroc-Jersey breed of swine can justly claim the quality of being very prolific. During a visit to the herd of Tape Bros., Ridgetown, we were shown a sow that had a few days previous farrowed a litter of seventeen live pigs; this is one of the largest litters that has come beneath our notice. We have also known a few instances of Yorkshire sows each farrowing eighteen at a litter.]

ASHES.

ANCASTER FARMER :--- "Having read your valuable paper with considerable interest in the past, I thought you could, perhaps, give me an idea or two in your next issue regarding the following : We have quite a lot of ashes at our disposal and would like to know the most profitable place to put them. We have a large apple orchard, grow wheat, barley, peas, oats, and corn; also roots, and meadow. Our land is a loam in good condition. Please ex-plain the use and need of ashes to the different soils, crops, trees, etc.'

[A favorite way of applying wood ashes is as a top dressing to grass-land and to pasture, thereby encouraging the growth of clover and some of the better kind of grasses, which do good service in crowding out inferior grasses and weeds. They are also highly esteemed for potatoes, corn and roots. Leguminous crops, too, are much benefited by applications of any potassic manure. They are especially valuable to an apple orchard, where, perhaps, "Ancaster Farmer" will receive most benefit from an application of ashes. Wood ashes are valuable as a manure because of the ingredients contained in them. The most valuable constituent is potash, which every plant must have in order to grow. They are least valuable on heavy clay land, because in most cases such soil has already an abundance of potash. Ashes also contain a small amount of phosphoric acid, without which no plant can exist. Carbonate of lime makes up a large proportion of ashes, which answer a good purpose on soils poor in lime. Not only does lime feed plants, but it also tends to liberate plant food of other sorts which may be in the soil in an unavailable condition.

higher than 34c. per lb. One carload 1,000-lb. cattle went at 24c. per lb. Ten cattle, 850 lbs. average, \$15 each. One carload cattle, 1,000 lbs. average, 3c. per lb. Ten cattle, 900 lbs. aver-age, \$22 each. One carload, 1,000 lbs. average, \$31 each. Stockers.-Most of the feeding byres are filled, and very few wanted; 24c. to 3c. per lb. for choice; 24c. to 24c. per lb. for inferior. Those being bought are for farmers' use, some of them being sent to the Northwest to feed on ranches Feeders.-There was a better feeling in this line and prices stiffened up a little. One or two extra fancy lots sold for \$3.15 per cwt.; those weighing from 1,000 lbs. upwards wanted. Buils.-Mr. MacDonald is still buying bulls, and Mr. Wilson was taking a few at prices from 34c. per lb. for really good ones. One bull, weighing 1,640 lbs., sold for 25c. per lb.; there were about 30 on the market.

was taking a few at prices from 31c. per lb. for really good ones. One bull, weighing 1,640 lbs., sold for 21c. per lb.; there were about 30 on the market.
Sheep are weaker in tone; receipts large; 2,322 head on market. Exporters sell at 3c. per lb., and butchers' at 21c.; a few 140 lb. sheep brought about 34c. per lb.
Lambs.-Limited supply, and selling at \$2 to \$3 each; a bunch of 77, 80 lbs. average, sold for \$2 55 each. Sixty lambs, 90 lbs. average, 3c. per lb., less \$5 on the deal.
Cable dispatches state that Canadian sheep are to be scheduled in Great Britain as well as catle, it being alleged that scab was discovered in recent shipments.
Caltes.-Offerings were light but sufficient for the demand.
Good ones were fetching from \$4 to \$6 per head, according to quality; one was sold for \$7.
Milk Cows were shown in about the same number as the last few weeks, and met a decidedly better trade. Fresh calved Holstein grades fetched \$40; the range was from \$20 to \$40. Good cows wanted; poor ones hard to sell.
Hogs.-The hastening of stock to market in an unfinished condition has brought down weights and prices. Best sold at \$1 per cwt., thick fat at \$1 57, stores at \$3.50, sows at \$3.00, stags at \$2 to \$2.50.
Hides and Skins.-The long-expected drop in hides has at last taken place. In this market, dealers are now paying it, for green nides, and asking 7c. for No. 1. The market is dull and rather easier ; two carloads of cured sold at 70c. to 75c. each; lamb skins at 55c.
Pulled Wools.-There is some enquiry from the home mills, but the market is not active, and prices are steady at previous quotations.

Mills, but the market is not active, and prove the market is a *Wheat.*—The strength of the Ontario wheat market is a puzzle to millers and dealers. Wheat sold on this market during the week at 73c. to 74c. per bushel in spite of the fact of the great Northwest orop and low prices in the United States and Great Britain. U.S. prices for wheat to-day range from 5% to 6%c.

59c. to 68c. Oats.-Steady; 500 bushels selling at 28c. Barley.- There is some enquiry from the United States, and the market is firmer. Choice extra at 46c.; No. 2, 37c. to 43c. per bushel.

Feeds.-Bran scarce, at \$11 to \$12; shorts, \$14 to \$15.50.

Feeds.—Bran scarce, at \$11 to \$12; shorts, \$14 to \$15.50. Hay and Straw.—There were unusually heavy supplies of hay on the street market, and many farmers are holding out for \$20 per ton, with a few sales at \$17.50 to \$19.50 the highest. On track, a few loads quoted at \$13.50, and No. 2, \$12.50. It has been suggested that the grade No. 1 timothy be changed, throwing out the present quantity of clover allowed and per-mitting nothing but timothy, and at least no dark clover. Quebec No. I grades on this market No. 9. Straw.—Very firm and scarce; \$12 per ton. Eggs.—The receipts of fresh laid are smaller and the de-mand good; the market steady at 20c, to 25c, per dozen Butter.—Good dairy table creamery, 22c, to 25c, per lb. Poultry.—Fowls, 35c. to 50c. por pair; ducks, 60c. to 80c. for choice; turkeys, 8c, per pound, 50c, to 70c, each.

Montreal Markets.

Montreal Markets. Cattle.—The change to milder weather which has taken place this week has had a depressing effect on the market, butchers showing little inclination to buy, evidently wishing to work off any surplus stock they have on hand; and owing to the extremely low prices at which cattle have been sold of late, they have, no doubt, considerable laid in. Sales were few to day (Thursday), none of the usual heavy buyers (that is, from one load upwards) taking anything. Offerings, with few exceptions, were of very poor quality and made little money. quite an amount of stock changing hands around 14c. per 1b., and even as low as lo. in some cases. A fairly good animal, not too thin, can be had from 24c. to 23c. per lb.; and with the exception of half-a-dozen head or so which made 34c. per lb., anything on the market can be had from 3c. to 34c. per lb. There are no cattle fit for export offering. Sheep.—Quite an improvement was felt in good shipping

Sheep.-Quite an improvement was felt in good shipping sheep and heavy lambs, and all offerings were promptly picked up at from 34c. to 34c. per lb. A quantity of space available suitable only for sheep we understand was the

Calves.-Very few calves are brought into the market, all offerings meeting ready sale at from \$3 to \$5 for the poorer grades; \$6 to \$12 for medium and choice.

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Miscellaneous.

MARL IN MIDDLESEX.

We recently received from a resident of Middle sex County, Ont., a sample of marl from a deposit of considerable extent on his farm. We submitted a portion of it to Prof. Shuttleworth, Chemist at the O. A. C., for analysis. He writes as follows :-"In reply to your note of the 22nd inst., I beg

to inform you that the package from Middlesex farmer contains a sample of calcareous marl. We have examined it for manurial constituents but have examined it for manurial constituents, but find it to have no value as a fertilizer. It is largely and it to have no value as a fertilizer. It is fargely composed of carbonate of lime, and its action on soil would be similar to that of lime. This sample of marl, however, is equal in quality to that of Shallow Lake, near Owen Sound, which is utilized Shallow Lake, near Owen Sound, which is utilized in making Portland Cement Such marl, occur-ing near suitable clay, would be of value for mak-ing cement. A. E. SHUTTLEWORTH, "Ontario Agricultural College." ing cement.

LIVE STOCK MARKETS.

Toronto Markets.

The trade during October was very quiet, and prices all along the line were bad. There was no sign of speculation or profit in anything ; drovers complained that in every market that they attended they lost money ; when beef cattle sold down to lc. per lb., someone must have been losing. The depression has been caused by a plethora of poor stock. Offer-ings were heavy and the market was not so firm; though prices were not altered, trade was quiet in every line except stockers and hous.

Explort Cattle – Very little doing in shipping cattle, heavy receipts and poor cattle keeping the prices down to last week's rates; 3.c. per lb. was the top price for the day.

rates; 3ic, per 10. was the top price for the day. Mr.J. Eakins was the principal buyer, taking seven car-loads for shipment at prices ruling from 3[c, to 3]c, per lb. Really choice shippers will bring 4c, but there are none on Really choice shippers will bring 4c, but there are none on offer. He purchased 9 bulls from D. MacDonald, of Lucknow, offer, He purchased 9 bulls from D. MacDonald, of Lucknow, County Bruce, paying 3[c, per lb., averaging 1.800 lbs; cach.

County Bruce, paying 33c, per 10., averaging 1,800 tost each. Butchers' Cattle. - Demand very poor and offerings small. A few picked lots sold at 3[c, per lb. Common cattle were hard to sell, and went as low as 1[c, per lb. for very poor stuff sent to market because of searcity of feed. Two carboads were taken for the Montreal market at 3c, per lb. Nothing went

grades; \$6 to \$12 for medium and choice. Hogs.—With the exception of a few lots which were picked up at \$4.25 per cwt., off cars, and about 600 which were rushed in to the market on Monday week last and sold at \$4 per cwt. in the yards, the trade is fairly steady at \$4.40 to \$4.50, off cars, for nice baeon hogs—any contracts made from western points being on this basis. In most cases the larger packers have all they will require to keep them going, till the weather settles, contracted for. Dressed Hogs have been coming in rather more burger

contracted for. Dressed Hoys have been coming in rather more heavily since last writing, owing to the favorable weather. Receipts this week were 958 against 399 for the preceding week, making a total of 1.357 for the two weeks. Quite a drop has also taken place, car lots being offered at western points at \$5.15 per cwt., or about \$5.50 here. This is considered high by dealers who are only paying from \$5 to \$5.25 per cwt., on spot. Small lots and single carcases are making 25c. to 35c. advance on these prices. The present mild weather will no doubt have a tend-ency to limit shipments. The Cow market is very quiet—very few offering and very

The Cow market is very quiet—very few offering and very few apparently wanted. A few sales have been put through at from \$20 to \$35 per head.

at from \$20 to \$35 per head. Shipments of live stock show considerable falling off from the previous two weeks; due to the scarcity of space. They were: 4.620 cattle, against 5,929; 21,520 sheep. against 26,831; and 800 horses, against the previous fortnight's 987. Allowing for about 3,000 head of cattle billed to arrive from the North-west in the next two weeks, receipts from that country will amount to 50,000 head of cattle and 10,000 sheep, in round numbers; an increase of 20,000 head over last season. The total shipments to date are: 91,290 cattle, 181,454 sheep, and 12,251 horses; an increase over last year of 9,070 cattle, 51,911 sheep, and 6,801 horses.

A FEW REPRESENTATIVE SALES.

Cattle- 3 2 5 21	head, "a		$1,050 \\ 1,150 \\ 1,150 \\ 1,140 \\ 800 \\ 850$	1bs.,.	at 3½c. 3c. 2½c. 2∛c. \$1.30 \$1.50	
$\frac{22}{28}$		••	1,050	**	2c.	per lb.
Sheep and 50 38 28	0 head, 0 "(she	eep) '' 1bs) ''	e 77 1 140 80 84	lbs., a	at 31c. 31c. 31c. 31c. 3c.	per lb.

It is claimed that a woven-wire fence twenty inches high will keep hens from getting out, as they cannot jump over and it is so low they do not 462

THE FARMER'S ADVOCATE.

Chatty Stock Letter from Chicago. (BY OUR SPECIAL CORRESPONDENT.)

Following are the top prices at present, two weeks ago and one and two years ago for commodities named :--

	Present '	Cwo wee	ks	4000
CATTLE.	prices.	ago.	-1894.	1893.
1500 lbs. up	\$ 4 90	\$ 5 48	\$ 6 45	\$ 6 00
1350 @ 1500	4 90	5 35	6 25	5 90
1200 @ 1350		5 25	6 00	5 30
1050 @ 1200	4 75	4 90	5 30	5 00
900 @ 1050		4 60	5 05	4 40
Stks. and F	3 85	3 85	3 50	3 90
Fat cows		4 00	4 00	3 80
Canners		2 30	2 10	2 50
Bulls		3 50	3 90	3 90
Calves		6 25	6 75	5 00
Texas steers		3 65	3 05	3 40
Texas C. & B	2 90	2 75	2 35	2 70
Western		4 35	4 40	4 25
Western cows		3 75	3 25	3 35
Hogs.	3 80	3 80	4 75	6 50
Mixed		3 90	4 85	6 52
Heavy		3 85	4 65	6 45
Light	0.05	3 70	4 45	6 30
Pigs	0 00	0.0		
SHEEP.	3 50	3 90	3 50	4 00
Natives	0.00	3 10	3 00	3 50
Western		2 40		3 25
Texas		4 50	4 40	4 75
Lambs				
Dec. Wheat	581			
Dec. Corn	21			
Jan. Pork		9 10	11 97	14 20

Twenty-one fancy 1,051-lb. Hereford yearlings sold at \$5.05; three head of 1,190-lb. steers sold at \$5.12}, and two 1,035-lb.

three head of 1,190-lb. steers sold at \$5.124, and two 1,000-lb. heifers at \$5. E. W. Lanum, of Bruce, Ill., marketed 34 Shorthorns, 1,554 B. W. Lanum, of Bruce, Ill., marketed 34 Shorthorns, 1,554 lbs., \$4.80; 18 2.year-old Shorthorns, 1,394 lbs., \$4.80; also 50 Gal-loways, 1,508 lbs., at \$4.70. Heming way Bros., of Plato, Iowa, marketed 22 Hereford steers which averaged 1,497 lbs. and sold for \$4.85. Plenty of plain 1,350 to 1,600-lb. beeves have lately sold at \$3.50 to \$4.25; with nice, fat "little" cattle away above them. S.50 to \$4.25; with nice, fat "little" cattle away above them. Iong continued dry weather, scarcity of healthy pigs to fol-low cattle, and difficulty of getting money to prosecute feeding operations, are causes that have tended to hurry forward un-finished cattle, and to curtail projected feeding schemes. The late general rains will doubtless help to hold back the half-fat cattle to some extent.

tate general rains will doubless help to hold back the half at cattle to some extent. The following, showing the average weight of cattle at Chicago, by months, for this year and last, will be of interest :--

104	BO, OJ THE TANK TO A THE TANK		
	AVERAGE WEIGHT OF CATTLE.	1004	
	Month. 1895.	1894.	
	1070	1151	
	January 1070	1142	
		1154	
	Monoh	1126	
	April	1060	
	Mon	1098	
	Tumo IVII		
	T	1032	
	A montel 1013	1042	
	September 1071	1047	
	October 1054	1081	

Distillery feeding operations are to be resumed on a large scale. Nelson Morris recently began putting in 20,000 more cattle at Peoria, the main seat of whiskey manufacture in the West.

cattle at Peoria, the main seat of whiskey manufacture in the West. Here are some interesting figures bearing on the question of comparative supplies of meat-producing animals this year and last: Combined weight of cattle, hogs, and sheep mar-ing the second second second second second second keted in Chicago, Kansas City, Omaha, and St. Louis, the first ten months of 1895, allowing 1,060 lbs. for cattle, 230 lbs. for hogs, and 80 lbs. for sheep, amounted to 7,436,730,000 lbs., against 8,161,114,000 lbs. in the corresponding time last year, showing a decrease of 724,384,000 lbs. The shortage in cattle amounts to 762,040,000 lbs., and the shortage in hogs to 25,384,000 lbs., while the gain in sheep was only 63,040,000 lbs. The decrease in actual numbers of cattle at four points for ten months was about 573,300 head, of hogs 66,700, with sheep 788,500 larger. Receipts of hogs at Chicago the first ten months of 1895, compared with a year ago, increased 355,600, while Kansas City decreased 98,500; Om tha, 235,000, and St. Louis 38,600. Combined receipts of cattle at the four markets the first ten months of 1895, com-pared with average receipts the corresponding period of the previous four years, decreased 561,000. A horse buyer, representing large dealers in Belgium, ex-horse on to have orders for shipping 200 horses per week from Chicago. The horse meat venders are in hot water and are finding it



SHE DID HER DUTY.

BY EDITH CHARLTON

"Was there ever such a miserable woman? If ever wife tried to do her duty by her husband, I did mine by Hiram Jones. His clothes are always neatly-made and clean; not a button have I allowed to be missing, or a rent unpatched. His meals have always been ready on time, well-cooked and just to his liking. I have kept his house clean, tidy and com-fortable, and what is the result? Why, he thinks more of his cows and horses than he does of me, and his farm is far dearer to him than his wife. "It was not always so, for a kinder, more attentive lover a girl never had than was Hiram Jones in the days of our

to him than his wife. "It was not always so, for a kinder, more attentive lover a girl never had than was Hiram Jones in the days of our courtship; and even after we were married he used to like to have me with him, and offered to do many little kindnesses for me. But that is long ago; -he never thinks of such things now. I am nothing to him but a machine to keep his house in order," and poor Mrs. Jones burst into tears for very weariness. 'The day was very warm-sultry, indeed-and somehow the sewing seemed to drag this afternoon; it was impossible to finish that shirt; so, overcome with her thoughts, she gave to tears and sobbed out her trouble to her constant companion-her sewing machine. I said the day was sultry, and before very long. Mrs Jones' tired eyes closed, and she was indulging in-most extraordinary thing !--an afternoon nap.

nap. She had not slept long when there was a clatter outside, the door opened and in came a motley company. The mop and broom came first, gathering up stray bits of dust in their trail; then came the dough-board and rolling-pin, rattling their wooden sides together; and bringing up the rear was the sewing machine, covered with garments of every shape, size and color.

and broom came first, gathering up stray bits of dust in their trail; then came the dough-board and rolling-pin, rattling their worden sides together; and bringing up the rear was the sewing machine, covered with garments of every shape, size and color. "For the land's sakes! What do you mean ? What do you want?" asked Mrs. Jones in astonishment, as she looked from one to the other of her strange visitors. "We have come to show you where you have failed. You think you have done your duty, but we have come to tell you differently," said the broom, who seemed to be spokesman for the crowd. "I haven't done my duty! Well, I think you have no need to complain," answered Mrs. Jones, her anger rising. "No, certainly none of us can complain," said the broom, as it reached for a spider's web behind the door: "but it was of your husband we were speaking, was it not ? Don't you remember when you were first married, how he would come repairs and you might have had a pleasant drive together. But no, you would be sure to answer you had sweeping and cleaning to do and could not go. After hearing this repeated drave to town alone. "I frequently remember times, too," said the dough-board. as it pushed the rolling-pin to one side, out of its way, "when your husband way so the were the west saw house he was building, or about the buying of some-thoroughbred cattle : In fact, you row quite well he always came to you at first when he thought of making any improvements on his farm ; but you were always so buy with is, making bread, pies and cakes to feed your husband, while all the time he was starving for one word of sympathy and love from you. ""T is true you had the name of being the best cook in the township and of setting the best table for twenty miles around, and you still are quite famous in that line. But see the price you now with his plans, never asks your advice about his work. Advers a much as I can attend to here? 'And, then, how vigorously you would roll my friend against my poor sides, than twe as much as I can atten

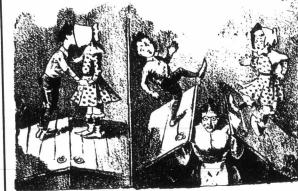
NOVEMBER 15, 1895

"Dear me! What a wretch I've been! What a fearful dream!" were her first words. She picked up the shirt that had fallen to the floor and commenced sewing again, but in a few moments her hands were lying idly in her lap, her eyes had a far-away look and she was thinking—thinking if it were too late yet to do her duty to her husband. The end of it was, when Hiram Jones came in from work The end of it was, when Hiram Jones came in from work that night he was lovingly welcomed by a wife who looked that night he was lovingly welcomed by a wife who looked five years younger after her nap. Her dress was neat and becoming —she had chosen a color he had liked in the days of his courtship. She talked about the farm at supper, asked him about his work, and proposed that after tea they walk down the lane to see that field of corn. Hiram looked surprised. He answered her inquiries at first cautiously and somowhat timidly ; but as he noticed she really seemed interested, he talked freely of what he had been doing that day. A new light came into his eyes, the lines doing that day. A new light came into his eyes, the lines doing that day. A new light came into his eyes suspi-ciously like that of a lover's, one would have been safe in saying that Mrs. Jones had learned her lesson in time—that it was not too late to try. it was not too late to try.

THE CHILDREN'S CORNER.

A prize will be given in January for the best short original fairy tale. The writer must not be more than sixteen years of age. Send the stories, with name, age, and address of writer, to Cousin Dorothy, FARMER'S ADVOCATE, London, Ont.

A "Proverb-Hunt" will now begin this column. A prize is offered for correct solutions of the first three pictures. Only *children of subscribers* may compete, and competitors must be under sixteen years of age. Answers should be sent in for each group, *e. g.*, 13, 46, 7-9, etc. A prize is offered for each group of three pictures, and a better one at the end of the year for the largest number of correct answers. Letters marked "Proverb-Hunt" will not be opened until ten days after the *third* picture of each group is issued. The *first* letter opened, containing correct answers, will be prize winner; all others will receive honorable mention. Address your letters to Cousin Dorothy, as above, and mark them "Proverb-Hunt"—outside the envelope.



HIDDEN PROVERB-NO. 3.

Now, children, you can send in your answers at once. The first group of proverbs, 1-3, is completed. Some answers have arrived already; but only children guessing all three proverbs have any chance — (see rules above). To-day the "Corner" is taken by Muriel E. Day, New Carlisle, Que. She is just fifteen, and has seen me the following fairy

Stella, the Star.

tale : -

Once upon a time there was a little girl whose name was Stella, and she lived with her mother in a very miserable little cottage. In the front of their little home there was a small garden, where Stella and her mother toiled from morning till night, and a few square yards of land, where two lean-looking goats, having but very little food to eat, pastured. Their home was not very comfortable inside,-a bed for Stella and her mother, and one for Martin, her brother, who had left them many years ago, with the intention of returning when a "man." Before her father had died, things appeared better, and since her mother had forgotten to perform a little deed for the fairies, they suffered very much.

A horse buyer, representation of the process so to have orders for shipping 200 horses per week from Chicago. The horse meat venders are in hot water and we finding it a hard business to introduce in the country. The demand for stock sheep has fallen off recently. Sales have been mostly at \$2.50 to \$2.70. The sheep market has been very dull and prices have ruled the lowest of the season. The average weight of sheep last year was 88 lbs.; at Chicago this year it will be a little heavier. In March this year the average weight was 96 lbs, being the largest on record. The packers are taking more interest in the hog market and are getting a great harveet of cheap ones. Mallory said: "We still believe that 20 per cent. of last month's receipts were on account of hog maladies and the scare attending them. We are glad to note some abatement in this epidemic of fear of disease, and, within a short time, we think the trade will assume more normal conditions, and pigs and hogs will be held back to be matured." There has lately been a noticeable improvement in the demand for heavy pork-making hogs, and they are selling nearer to the value of those suitable only for fresh meat.

Toronto Horse Market.

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Indeed, no: Intere was always some sewing to be done. For were always making my wheels buzz, and it is little wonder your husband often wished me and all my race in the bottom of the sea. "I tell you what it is, you have a great deal to answer for, and the worst of it is, you have dragged me into the scrape," and the some of it is, you have dragged me into the scrape," and the some of the sockward and forward angrily as the machine ceased speaking. A smothered voice was just then heard, and all turned to see that some of the books and papers had left their shelves, and a volume of poems was speaking to Mrs Jones. "If you had given some of the time you spent on some of these fellows to us, it would have been better for you; not that I have anything against these friends," turning a leaf in the direction of the other visitors: "they are all good articles in their place, but they shouldn't absorb all one's time. "Your husband was fond of reading; he might have been a well-read man had you done your duty by him, and us. He loved to read. Can't you remember the times when he took one of us down from the shelf and said: 'Now, Sarah, I'll read aloud to you while you work,' and you, though you might not object in words, did so by your actions, for you looked bored, opersisted in running that sewing machines so no one could hear the reading if they wanted to, and muttered something about 'having so much sewing to do you hadn't time to read." "Oh, yes, you kept us well, "said the book, turning over its well-preserved covers and clean pages. "We were always well have been Greek, for all the good you got from anything inside us. "You have been a model housekeeper, Mrs. Jones, every-

anything inside us. "You have been a model housekeeper. Mrs. Jones, every-one says so, but you have not been a model wife, because you have made your house your idol. You had a good husband and you might have made him better; it is your own fault if he thinks you a machine to keep his house in order, for it is just about what you are." The leaves of the books rustled so loudly as they went back to their shelves that Mrs. Jones wakened.

But Stella grew in beauty, in weight, goodness, and very considerably in appetite.

One evening, when the two were sitting to-gether on the doorstep, a very beautiful little fairy came near to speak to them. She asked Stella's mother if she might take her little girl and make her a princess, promising to give her mother abundant wealth; but this she would not do. Although the fairy was very much disappointed, she, with her wand, placed an invisible star on her lovely forehead, which would give her joy, riches, happiness, live a life for others; and at the hour of death it should shine brighter than ever, and would be visible to all.

Many years after this, when Stella was nearly as tall as her mother, the latter'died, leaving her alone

with her goats. Not far from where she dwelt the king resided, and he had resolved to marry — one whom he had seen in a vision — a little maiden attending her goats and home - no other than our little heroine, Stella. He had ordered all the young girls of the place, rich and poor, to be brought forth, in order to see if he could find out the one whom he saw in his rich and poor. his vision, and was almost discouraged, when one of our good fairies brought him to the place where she lived. Making known his love for her, and asking her to become his queen, she refused himuntil her brother should return. Much against his will, he was obliged to wait; and not long after-wards her brother returned. Then they left their home to visit the king, where they were joyously received ; and in a few days she became his queen, and the Star of that Land.

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THE FARMER'S ADVOCATE.

"A Little Lost Word."

I lost a very little word Only the other day; A very naughty little word I had not meant to say. If it were only really lost, I should not mind a bit; I think I should deserve a prize For really losing it

For really losing it.

For if no one could ever find Again that little word, So that no more from any lips Could it be ever heard, I'm sure we all of us should say That it was something fine With such completences to have lost That naughty word of mine.

But then it wasn't really lost When from my lips it flew ; My little brother picked it up, My little brother picked it dp, And now he says it too. Mamma said that the worst would be I could not get it back ; But the worst of it now seems to me, I am always on its track.

If it were only really lost ! Oh, then I should be glad. I let it fall so carelessly The day that I got mad. Lose other things, you never seem To come upon their track; lose a naughty little word, But lose a naughty little w It's always coming back.

The Multiplication Table.

Kitty sat out under the sweet-apple tree in the golden October noontime, crying real salt tears into her Primary Arithmetic.

"Now, what's the matter, Kit-tyleen?" asked big brother Tom, coming out with his Greek Grammar under his arm. "I supposed you were eating sweet apples and studying, and I came out to do so, too, and here you are crying.

"It's — this — dreadful — multiplication table!" " sobbed Kitty. can't never learn it, never !" "Hard?" asked

Tom. "Oh, it's awful ! Harder than anything in your college books, I It's the know. eights this after-noon and I can't learn 'em, any-

how." "Don't you know how much eight times on e is?" asked Tom, picking up a small apple and beginning to eat it.

"Yes, of course. Eight times one is eight. I can say

up to five times

eight all right."

"And now," said Tom, when she had the jingle well learned, "say the table aloud and the jingle in your mind as you go along."

Kitty tried that, and a very few times made it a success. With the ringing of the first bell she was ready to start to school, with those "dreadful eights" all perfect.

"You're the best Tom in the whole world !" she said, with a good-by kiss. "And I don't believe there's another boy in college that could make such

nice poetry." Tom laughed as he opened his Greek Grammar.

A Prudent Plan.

"The sentiment of Fear," declared my Uncle Zebedee, "Is beneath the recognition of a valiant man like me. I loathe timidity; I scorn a coward; and, oh, dear! I should so hate to feel the paltry sentiment of Fear! And in order to prevent it, why, I take some pains at night To have the house closed up and barred securely, snug, and tight.

And in order to provide up and barred securely, snug, and tight. I should really hate to have a burglar getting in ; and hence I have placed alarms at frequent intervals along the fence, And on the doors and windows, and the cat-hole in the shed, And the scuttle in the attic roof. Before I go to bed I lock and bar the doors, and fasten weighty iron chains Across; I don't like burglars, and I therefore take the pains To place, as an additional precaution, pots and pans At all the doors and windows, and tin pails and empty cans; So if a burglarshould come in, I'd wake in time to fling My watch and money where he'd see them on first entering. And then just step into the wardrobe, which I have supplied With a key with which it may be firmly locked from the inside. Thus, by these simple plans, it is indisputably clear I shall never feel the calm, composed and noble digaity Of a brave man such as I am," said my Uncle Zebedee.

How Rubinstein Played.

Played well? You bet he did ; but don't inter-Played well? You bet he did; but ton on one of the rupt me. When he first sat down he 'peared to keer mighty little 'bout playin', and wisht he hadn't come. He tweedleleede a little on the treble, and twoodleoodler some on the bass, just foolin' and boxin' the thing's jaws for bein' in his way. And I says to the man sittin' next to me, says I, "What sort of playin' is that?" And he says, "Hush!" But presently his hands commenced chasin' one another up and down the keys, like a passel of rats scamperin' through a garret very swift. I was just about to get up and go home, bein' When he first sat down he peared to keer

I was just about to get up and go home, bein' tired of that foolishness, when I heard a little bird awaking up away off in the woods and call sleepy like to its mate, and I look up and see that Rubin was beginning to take some interest in his business, and I sit down again. It was the peep of day. The light came faint from the east. The breeze blowed gentle and fresh, some more birds waked up in the orchard, then some more in the trees near the gentle and Iresh, some more birds waked up in the orchard, then some more in the trees near the house, and all begin singing together. People began to stir, and the gal opened the shutters. The next thing it was broad day; the sun fairly blazed, the birds sung like they'd split their little throats. It was a fine mornin'. And I says to my neighbor, "That's music, that is;" but he glared at me like he'd like to cut my throat.

he'd like to cut my throat... Then, all of a sudden, Old Rubin changed his tune. He ripped out and he rared, he tipped and he taired, he pranced and he charged like the grand entry at a circus. 'Peared to me that all the gas in the huse was turned on at once. It was a circus the house was turned on at once. It was a circus and a brass band and a big ball all

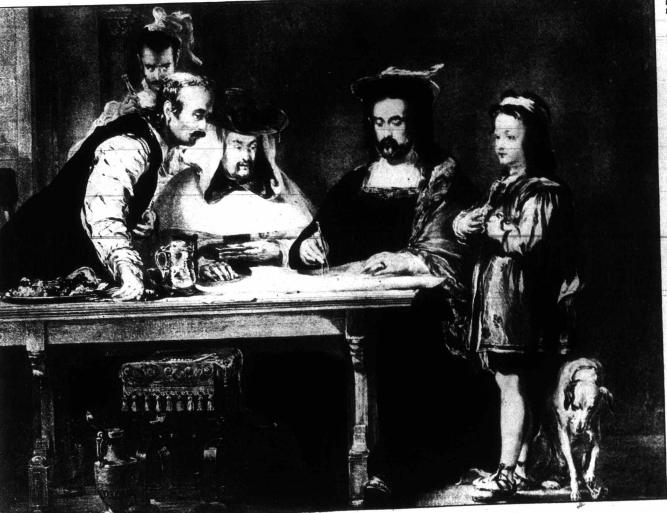
going on at the same time.

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He changed his tune again. He hop-light ladies and tip - toed fine from end to end of the keyboard. He played soft and ow and solemn. I heard the church bellsover the hills. The candles of heaven was lit, one by one. I saw the stars rise. The great organ of eternity began to play from the world's end to world's end, and alltheangelswent

to prayer. Then the music changed to water, full of feeling that couldn't be thought, and be gan to drop-drip, drip - drip - drop, clear and sweet, like tears of joy falling into a lake of glory.

He stopped a moment or two to catch breath. Then he got mad. He ran his fingers



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esided, he had ng her eroine. of the order saw in en one where er, and him – nst his after-t their

yously queen,

"Can you? Well, that's en-couraging, I'm sure. Let's hear you." Kitty rattled it

off like a book. "Five times eight is forty" - and there she

"Oh, go right on," said Tom. "Six times eight is stopped. forty-eight."

"I can't " said Kitty. I can't learn the rest. I've tried and tried, and it's no use."

"Do you learn so hard?" asked Tom "Now, hear this, and then repeat it after me as well as you can." And Tom repeated a verse of a popular college song.

Kitty laughed, and repeated the nonsense word

for word.

"Why, you can learn !" "But that has a jingle to it. It is not like the dry multiplication table."

"Let's put a jingle into that, then :

Six times eight was always late, Hurried up and was forty-eight;
Seven times eight was cross as two sticks, Had a nap and was fifty-six;
Eight times eight fell onto the floor, I picked it up and 'twas sixty-four : Nine times eight—it wouldn't do, I turned it over and 'twas seventy-two."

"Did you make that all up, now?" asked Kitty,

in wonderment.

"Oh, it's splendid ? Let's see, how is it ?" And she went straight through it with very little help. "Ten times eight is eighty. That one's easy enough to remember " "Why, yes," laughed Tom. to remember.

COLUMBUS AT THE COURT OF LA RIBIDA.

Columbus at the Court of La Ribida. The interesting episode in the life of Columbus illustrated in our picture is thus referred to in

"A stranger who was 'travelling on foot, accompanied by a boy, stopped one day at the gate of a convent of Franciscan friars, and asked for bread and water for his child. Friar Juan Perez de Marchena, happening to pass, was struck with the appearance of the stranger, and observing from his air and accent that he was a foreigner, entered into conversation with him, and soon learned the particulars of his story ;--that stranger was Colum-

Here we see the great navigator, with his son bus Here we see the great having for, with his son Diego by his side, demonstrating on a map his theories of the possibility of sailing to the West, and thereby reaching the Indies. That the great discoverer stumbled on America in his way detracts nothing from his broadminded, farseeing courage, and the great debt of humanity to him. In the and the great deot of humanity to him. In the picture, to the right of Columbus is the Prior, listening with lively interest. The man leaning over the table is a physician named Garcia Fernanover the table is a physician named Garcia Fernan-dez, invited to the conference from his known interest in all scientific knowledge. The third man is a renowned sea captain of his day—Martin Alonzo Pinzon, who became so convinced of the practicability of Columbus' plans that he became his companion on his first voyage. companion on his first voyage.

winder wind

through his hair he shoved up his sleeves; he opened h is coat-tails a little further ; he dug up his stool; he leaned over, and, sir, he just went for that old

pianner. He slapped her face, he boxed her jaws, he pulled her nose, he pinched her ears, and he scratched her cheeks till she fairly yelled. He knocked her down and he stamped on her shameful. She bellowed like a bull, she bleated like a calf, she howled like a hound, she squealed like a can, she howled like a rat, and then he wouldn't let her up. He run a quarter stretch down the low grounds of the bass, till he got clean to the bowels of the earth, and you heard thunder after through the hollows heard thunder after thunder through the hollows of perdition.

Then he fox-chased his right hand with his left, till he got way out of the treble into the clouds, whar the notes was finer than the pints of cambric needles, and you couldn't hear nothin' but the needles, and you couldn't near notally but the shadders of 'em. And then he wouldn't let the old pianner go. He for'ard tow'd, he crossed over first gentleman, he chassade right and left, back to your places, he all hands aroun', ladies to the right, promende all in and out have and there up and promenade all, in and out, here and there, up and down, perpetual motion, double, twisted and turned and tacked and tangled into forty-'leven thousand

and tacked and tangled into forty-feven thousand double-bow knots. By jinks, it was a mixtery. And then he wouldn't let the old pianner go. He fecht up his right wing, he fecht up his left wing, he fecht up his centre, he fecht up his reserves. He fired by file, he fired by platoons. by company, by regi-ments, and by brigade. He opened his cannon-siege guns down there. Nanoleons here, twelvesiege guns down there, Napoleons here, twelve-pounders yonder-big guns, little guns, middle-sized guns, round shot, shells, shrapnel, grape, canister, mortar, mines, and magazines, every

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THE FARMER'S ADVOCATE.

The "Home Queen."

livin' battery and bomb a-going at the same time. The house trembled, lights danced, the walls shuk, the floor came up, the ceilin' come down, the sky split, the ground rockt heavens and earth oration, split, the ground rockt neavens and earth oration, sweet potatoes, Moses, ninepenny, glory, tenpenny nails, Samson in a 'simmon tree, Tump Thompson in a tumble cart, roodle-oodle-oodle-oodle, ruddle-uddle-uddle.uddle, raddle-addle-addle-addle, riddle-iddle-iddle iddle, reedle-eedle-eedle-eedle, pr-r-r-lank ! Bang !!! lang ! perlang ! pr-r-r-r !! Bang !!!

The Country Girl -- She is a Much-to-be-Envied Young Woman.

At this season the country girl feels that her life is not as rosy as that of the city friend who life is not as rosy as that of the city friend who has theatres, concerts and lectures ever at her hand and an infinite variety of gayety that natur-ally can have no part in truly rural existence. Of course there are the family feasts at Thanksgiving and Christmas, when all is bustle for days before and during the actual celebration of the annual festivities, but outside of that country life is regarded by the discontented one as dull, stupid, and monotonous. and monotonous.

The swirling leaves, as they sweep across the dead brown of the erstwhile soft green lawn, speak to her ears only of lonesomeness, and the crow's mournful cry is the knell of all her hopes, so far as good times in the long, weary waiting between autumn and spring are concerned.

Many a body blessed with a lovely home in a picturesque section of the country sighs for city life, thinking that all that is exciting and desirable lies amid the clang and rush of trolley cars and beneath the cold glitter of electric lights. To these discontented ones let us have a few words to say that are given honestly from heart to heart. To begin with, unless one is blessed with a good income the majority of the enticing entertainments are as much barred against them as though they dwelt in the very heart of the backwoods. Again, the sum that dresses a girl well in the country, giving her a positive and assured position among the others similarly situated, would count for nothing in town, where giant fortunes are the only ones that cause any special stir. Leaving her home in the country to make a livelihood amid the home in the country to make a invention with the fascinating scenes of metropolitan life will neces-sarily be attended with difficulties grim and imposing. It isn't all clear sailing, even though a place is assured and a salary guaranteed. That imposing. It is it all clear sairing, even though a place is assured and a salary guaranteed. That salary will not be large at first, and though it may sound like a veritable dream of wealth while in the sound like a veritable dream of wealth while in the country, it will prove meager and insufficient among the thousand and one expenses incidental to city life. A hall bedroom instead of the liberty of the old farmhouse, a fleeting glimpse across an alley instead of the great panorama of woods and sky seen from the porch of the old homestead, meals but poorly cooked instead of the wholesome and generous menu of the home table—these are and generous menu of the home table-these are and generous menu of the nome table—these are some of the disadvantages that city life entails, to say nothing of that harrowing homesickness for well-known faces as the girl trudges along amid hurrying crowds engrossed in their own interests, not knowing or gaving to know the stranger who not knowing or caring to know the stranger, who finds that concerts, free libraries, and eminent speakers, do not compensate for the heart hunger that is the daily and nightly companion of the foolish wanderer who did not appreciate the value of a good home and homest friendship when the

As anticipated in our announcement in last issue, the "Home Queen Cook Book," as a premium, is taking well and going quickly; the first one being secured by a reader away in Nova Scotia. No such volume was ever before placed within reach of our readers on such easy terms, viz., the securing of one new subscriber, as per premium page announcement. Read it, and by prompt effort be fortunate enough to secure a copy. The supply

commend this work. Old Poll Parrot Story Retold.

being very limited, we will mail them in rotation as

the orders reach us. From personal knowledge, we

A gentleman made a present to a family of a Poll parrot. On arrival at the farmhouse, it would not speak, and the farmer undertook to teach her not speak, and the farmer undertook to teach her some Queen's English. After several unsuccessful attempts at "Pretty Poll," "What o'clock," etc., he lost his patience, and withdrawing Miss Poll from the cage, said : "Now, then, talk or I'll wring yer neck." This failed, and with great disgust he three her into the henceon as a fit companion to threw her into the hencoop as a fit companion to the dumb birds.

the dumb birds. On paying his usual morning visit, he was much surprised to hear, "Talk or I'll wring your neck," from Poll. Opening the door, he found that there were about a dozen dead chickens around, the last one in the process of execution. Poll, with a very knowing look at the farmer, said : "You talk or I'll wring your neck." Collapse of farmer. farmer.

A Sermonette for Wives.

"We all know how some women, after a year or two of married life, get careless about their dress," says a lady novelist. "They seem to think that their fortune is made, and it isn't necessary to arrange the hair becomingly and put on a pretty gown just for their husbands.

"This is all wrong, and it is an error that arises from laziness.

"Men like to see their wives look pretty just as much as they did when they were sweethearts.

"Take a woman's advice, and if you can have but one attractive gown, let that be the one to wear indoors.

"Endeavor to have daintily-arranged hair, and neat and simple costume for breakfast.

"Go in largely for laces. A man is very fond of frills; bits of white about the neck and wrists always appeal strongly to him.'

Little Kindnesses.

LILLE KINGNESSES. If you were toiling up a weary hill, Bearing a load beyond your strength to bear, Straining each nerve untiringly, and still Stumbling and losing foothold here and there, And each one passing by would do so much As to give one upward lift and go their way, Would not the slight reiterated touch Of help and kindness lighten all the day ?

If you were breasting a keen wind, which tossed And buffeted and chilled you as you strove, Till, baffed and bewildered quite, you lost The power to see the way, and aim and move, And one, if only for a moment's space, Gave you a shelter from the bitter blast, Would you not find it easier to face The storm again when the brief rest was past ?

NOVEMBER 15, 1895

THE QUIET HOUR.

The First Tangle.

Once in an Eastern palace wide A little child sat weaving; So patiently her task she plied, The men and woman at her side Flocked round her, almost grieving.

"How is it, little one," they said, "You always work so cheerily? You never seem to break your thread, Or snarl or tangle it, instead Of working smooth and clearly.

Or working states so worn and soiled, Our silk so frayed and broken, For all we've fretted, wept and toiled, We know the lovely pattern's spoiled Before the king has spoken."

The little child looked in their eyes, So full of care and trouble ! And pity chased the sweet surprise That filled her own, as sometimes flies The rainbow in a bubble.

She turned her little head aside; A moment let them wrangle; "Ah, but," she softly then replied, "I go and get the knot untied At the first little tangle!"

O little children —weavers all? Our 'broidery we spangle With many a tear that need not fall If on our King we would but call At the first little tangle?

The Little Things of Life.

I recently heard a sermon which gave me new light on the doing of little things. The whole im-port of the sermon was, that in working for God the little minor details necessary in preparing for the work are as truly service as the actual work itthe work are as truly service as the actual work it-self. We start on a journey with the intent of doing something at the end of the journey for God or His cause. The packing of one's trunk, the getting this, that and the other together, and the hundred and one little preliminaries which had al-ways seemed to me unprofitable (that is, in a spirit-ual sense) are just as much work for Him as the ual sense), are just as much work for Him as the end for which all the preparations are made, and without which, of course, the end could not be accomplished.

It came to me then, that if our time were consecrated to Him, everything would be service. I doubt if we give enough thought to the little things of life, little everyday courtesies, pleasant words and smiles. I know I have had the whole tenor of a day changed by a cheery "Good morn-

ing "from a friend. The old saying that "life is made up of little things" does not lose any of its truth by being old, and I doubt very much if in God's sight there are any little things. Isn't it the motive that gauges the value of our actions, rather than the actions

themselves? To me there is great comfort in the thought, that if we who cannot do great things, will do the little things faithfully, they will in the end make a great whole. "He that is faithful in that which is least, is faithful also in much." How many there are who think there really is nothing which they can do not nerhaps having

nothing which they can do-not, perhaps, having money to give. They do not think that a bright noney to give. They do not think that a bright letter to some far-away or "shut-in" friend, a half-hour spent in reading to some one unable to read, an invitation to the stranger at the church-door to come again, can all be given as service to Him, and no one knows how far-reaching the influence of the letter, or reading, or pleasant word may be. I have before me an extract recently clipped from one of our helpful journals. It is this:

of a good home and honest friendship when she had them.

A Scotchman Outwits a Scotchman.

Some years since, before the sale of game was legalized and a present of it was thought worth the expense of carriage, an Englishman who had rented a moor within twenty miles of Inverness, wishing to send a ten-brace box of grouse to his friends in the South, directed his gillie to procure a person to take the box to the capital of the North, whence the London steamer sailed. Not one, howwhence the London steamer saned. Not one, how-ever, of the miserably poor tenants in the neigh-borhood could be found who would take the box for a less sum than eight shillings. This demand was thought so unreasonable that the Englishman complained to a Scotch friend who was shorting complained to a Scotch friend who was shooting along with him. The Scotchman replied that "the along with him. The Scotchman replied that "the natives always made a point of imposing as much as possible upon strangers; but," said he, "if you will leave it to me, I will manage the matter for you; for, with all their inclination to knavery, they are the simplest people under the sun." A faw days thereafter going out ashooting they they are the simplest people under the sun." A few days thereafter, going out a-shooting, they saw a man loading his cart with peats, when the Scotchman, approaching him, said, after the usual salutation, "What are you going to do with the peats?" "I'm going to Inverness to sell them," was the reply. "What do you get for them?" "One shilling and eightpence, sir." "Indeed! Well, I will buy them from you if you will deliver them for me in Inverness." "That I will, and thank you, too, sir." All agreed, the Scotchman thank you, too, sir." All agreed, the Scotchman resumed his walk for about twenty yards, when he suddenly turned round and said, "By-the-bye, I suddenly turned round and said, "By-the-bye, I have a small box I want taken to the same place. You can place it on top of 'the peats?" "That I will, and welcome, sir." "Well, if you will call at the lodge in the evening, I will give you the direc-tion for the peats, and you can have the box at the same time." The man did so, and actually carried the box and gave a load of peats for one shilling the box and gave a load of peats for one shilling and eightpence, although neither the same individual nor any one of his neighbors would forward the box alone for less than eight shillings.

-Susan Coolidge

Puzzles.

1-SQUARE WORD.

1-SQUARE WORD. My FIRST, although 'tis soft and spongy, yet is "energy"; My SECOND is a mental thought, Oft found but very seldom bought; My THIRD is that which, often lost, Can't be returned at any cost; My FOURTH is loved by many a nation, And yet it is a "constellation." CLARA ROBINSON. 2-CUPTATIMENT

2-CURTAILMENT.

When whole I'm a bird that wades 'mong the reeds, Curtail and I'm a doer of many brave deeds; Again, I'm a female, as surely you'll see; Again, and a female's the opposite to me. "LISETT "LISETTE. 3-CHARADE.

5—OHARADE. FIRST is a little animal that runs about your feet; SECOND, a word that oft denotes a number small and neat; TOTAL sounds at evening, calling children off the street, For at eight o'clock 'tis time they all were safe in home's retreat.

4-DROP LETTER. C-n-e-t-s-o-e-u-eg-h-t-a-n-i-t-n-t-r-; i-i-n-t-n-y-e-d-e-s, -u-i t-m-a-r-w-a-i-w-u-d-m-r-v-. P-P-.

Answers to Puzzles in October 15th Issue.

TATI	3- J
1-LATIN	JAR
ALONE	LAVER
TOOLS	JAVELIN
INLET	BALLS
NESTS	PIN
2-Mistake (Miss Take).	N
A Nock-lace, 5-A mistak	e. Was not intended as a puzzle

SOLVER.

Clara Robinson.

Affection never was wasted Affection never was wasted; If it enrich not the heart of another, its waters, returning Back to their springs, like the rain, shall till them full of refreshment. Longfellow.

"A society of a single member may accomplish great results. Do what you can, however *little*, and the Lord will wonderfully increase your ability."

Ah, let us every night bring our few loaves and fishes unto Him, not crying, "O Lord, what are these among so many?"; but, "Here, Lord, take, bless multiply and food the multitude", and then bless, multiply, and feed the multitude "; and then trust Him to do it.

In one of those celestial days, when heaven and earth meet and adorn each other, it seems a poverty that we can only spend it once; we wish for a thousand heads, a thousand bodies, that we might thousand neads, a thousand bodies, that we might celebrate its immense beauty in many ways and places. Is this fancy? Well, in good faith we are multiplied by our proxies. How easily we adopt their labors! Every ship that comes to America got its chart from Columbus. Every novel is a debtor to Homer. Every connector who shaves debtor to Homer. Every carpenter who shaves with a foreplane borrows the genius of a forgotten inventor. Life is girt all round with a zodiac of sciences, the contributions of men who have perished to add their points of light to our sky. Engineer, broker, jurist, physician, moralist, theologian, inasmuch as he has any science, is a map-maker of the latitudes and longitudes of our condition. These road-makers on every hand enrich us.—Emerson.

My Presence Shall Go with Thee.

"My presence shall go with thee." Yea, my Lord, Faith listens till that noiseless step is heard. As each new day breaks, open, shine revealed, O Christ, by fear's long morning mist concealed. O Christ, by fear stong morning meet O let me daily know that glorious rest Of leaning hourly on a Saviour's breast ; Yea, but to know Thou knowest—this is best. C. A. FOX.



19 L. om

MARKHAM, ONT., Breeder of Shorthorn Cattle. Five choice young bull-also heifer-by prize bull Aberdeen for sue, winners at the dudit-trial for best young herd of four; two of the bulls won second and third in their class. My stock are choice. B.1.2.37 FOR SALE Eight Bulls FROM 10 TO 15 Y ind ! My -tock are choice. for prices.

FOR SALE CIGNIC BUILS FROM 10 TO 15 MOS. old, from my best dams, and got by PREMIER EARL and INDIAN CHIEF, which I will sell very reasonable. Write for prices or come and see my steck. DAVID BIRRELL, Greenwood, Ont. 1-1-y-om

I have FOR SALE two Shorthorn heifers and two bull calves of fine breeding, finecolors, fine-form and carriage, in fine condition, at fine cut prices. Also one or two cows. D. ALEXANDER, BRIG-DEN, Lambton 5-y-0 Co., Ont.

Many farmers' sons look forward to the winter season as one of release from irk ome toil, which is a grand change from thet welve and fourteen-hour days of more than half the year. We know from experience that this rest from labor is none the less appreciated when some line of improving study is taken up and pursued vigor-ously. The Central Business College, Toronto, p esents an opportunity of obtaining a prac-tical business education, without which a farmer or any other business man is seriously handicapped through life. The cost of a term is within easy reach. See ad in this issue, and send to Shaw & Elliott for free catalogue.

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THE FARMER'S ADVOCATE.

THORNCLIFFE STOCK FARM SHROPSHIRES.

I have on hand the best young CLYDES-DALE Horses and Mares Orders can now be booked for Shearling on this con-tinent. Bred from the well-known Rams, Ram Lambs and Ewes, sired by by the celebrated Prince

Macgregor, Energy,Lord Knight Errant and other celebrities.

sires, Prince of Wales, Darnley, prize-winning English ram, Bar None. Also

My stock in the above lines were very successful at all the large shows last year. Call and examine our stock before purchasing elsewhere. Terms reasonable. ROBERT DAVIES, Proprietor. P.O., Toronto.

19-1-y-om

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STOCK GOSSIP.

<text><text><text> ANNUAL SALE AT THE O. A. C. NOTICES.

GEO. DOWNEY & BRO., CASTLEDERG, ONT., breeders of SHORTHÖRN CATTLE and COTSWOLD SHEEP. A few very choice young rams for sale at low prices. No. 1 breeding and fine quality. Stock guaranteed to be as described. St. Bolton, C. P. R.; Pal-graye. G. T. R. 22-2 v-0 grave, G. T. R.

For Sale !-- A very fine four-year im-ported Shorthorn bull, Sirius =15281=, bred by Wm. Duthie, Scotland, and got by the great stock bull, Leonidas =59200=. This bull is of first-class breeding, and No. 1 quality, deep roan in color, and will be sold at Macour 2015 and State and Stat quality, deep roan in color, and will be sold a a bargain. A. F. McGILL, Hillsburg. 22-2-f-o



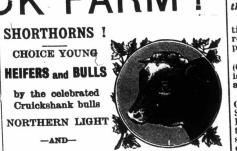
Have you the blood of the great butter cows, DeKol 2nd, Empress Josephine 3rd, Mechthilde and Pauline Paul, in your herd? If not, why not? The demand for this blood exceeds the supply. Speak at once if you want some of it

11-y-om G. W. CLEMONS, St. George, Ont. GEM HOLSTEIN HERD

MONTHS' CREDIT GIVEN. BULLS, all Registered Holsteins; quality the best, and fit to head any herd; we have them all ages. Write for particulars to

ELLIS BROTHERS, BEDFORD PARK P.O., ONT.

7. y-om LARGE IMP. YORKSHIRE PIGS HOLSTEIN : CATTLE. We breed nothing but the best, and sell cheap and guar-antee satisfaction, or ask no pay. Come and see us, or write for prices and be con-vinced. FLETCHER BROS. write in FLETCHER Line Oxford Mills P. O., Ontario, Kemptville Station, C. P. R. 5-1-y-om HOLSTEINS!



VICE CONSUL.

For Sale.

JERSEY BULL, "RIOTER'S JUPITER" Two yrs. old ; Solid Dark Fawn, Blk. Points.

Sire, Lilium's Rioter, Ist prize Toronto, Montreal, Ottawa and Gananoque, 1895. Headed Ist prize Herd, Toronto, Montreal and Ottawa, 1895. Took Silver Medal, Toronto, Montreal and Ottawa, 1895. His dam makes 17½ Ibs. butter a week, milks 20 quarts a day, and never goes dry. Oam of Rioter's Jupiter is a daughter of Lulu Delle, Ist prize and Bilver Medaloverall Canada. In my Ist prize Herd at Toronto and London. Was one of my three at London, winning Silver Tea Set, for three Best Dairy Cows. Price of Rioter's Jupiter, \$125.00. Also, two bull calves, 5 and 6 months, grandsons of my famous prize bull, Canada's Sir George, whose dam made 263 Ibs. butter a week, Two bull calves, 5 and 4 months, g. g. sons of Massena, 654 Ibs. butter in her I6th year. MIRS. E. MI. JONES,

MRS. E. M. JONES, -y-om Box 324, BROCKVILLE, Ont., CAN.

JERSEY · CATTLE Of the heaviest milking strains. One of the largest herds in Canada; bred closely to the great dairy oow at Chicago, also the famous two-year-old. Sires of both were sold from this herd. Also Welsh Blood Ponies for ladies' and children's driving. Stock for sale always on hand. GEO. SMITH & SON, Grimsby, Ontario. 3-y-om

REGISTERED JERSEYS. Two two-year-old Heifers with Bull Calves at foot, all solid colors, choicely bred, handsome and prom-ising. The lot for \$175 cash. Young Bulls fit for service, solid colors, \$60. Must sell for want of room. E. PHELPS BALL, Lee Farm, Rock Island, P. Q. 17-y-0

GLEN ROUGE JERSEYS WILLIAM ROLPH, Markham, Ont., offers Twelve Jersey Bulls and Heifers (pure St. Lam-berts), out of tested cows. Grand individuals. Prices right. 21-y-om

JOHN YEAGER, OSAGE AVENUE, SIMCOE, P.O., Breeder of Choice Jerseys, Berkshire Swine, and Scotch Collie Dogs T Correspondence solicited.

6-2-y-0

milking strains. Also choice Yorkshires. Orders booked for

W. F. & J. A. STEPHEN,

Trout River, Que.

young pigs.



STOCK GOSSIP.

to advertisers please mention the Farmer's Advocate.

J. C. Snell, of Edmonton, changes his adver-tisement in this issue. Jersey butter always returns a high price for the food consumed to produce it.

We call attention to Mr. Arthur Johnston's (Greenwood) change of advertisement in this issue. Mr. Johnston reports his stock, young and old, as being in fine condition.

issue. Mr. Johnston reports his stock, young and old, as being in fine condition.
 A short time ago there was shipped from Great Britain a large and valuable lot of Shorthorn cattle for Buenos Ayres by Mr. Donald Maclennan. The consignment, one of the largest and best ever despatched, included several well-known prize-winning animals, chief among which where the unbeaten Count Victor, from Mr. Willis'sherd; Roland Gwynne, from Mr. Blundell's herd; Marathon, bred by Mr. Duthie ; Red Prince, bred by Mr. McRae; Ringleader, bred by Iord Lovat ; Lord John, bred by the Duke of Richmond and Gordon ; and Meredith, bred by Mr. G. Bruce. The Hereford bull, Grandison, bred by Sir W. Gordon-Cumming, and a heift of the same breed, bred by Mr. Smith, were also included. The female Shorthorns comprised Warrior's Plume 2nd and C.c. bred by Mr. Mills ; the famous heifers, Blanche and Gratia, from Mr. G. Harrison's herd; Pearl, bred by Mr. Crooke. Mr. Maclennan shipped at the same time and Oxfords.
 MR. E. DOOL'S IMPROVED YORKSHIRES.

MR. E. DOOL'S IMPROVED YORKSHIRES.

Lincolns and Oxfords. MR. E. DOOL'S IMPROVED YORKSHIRES. Mr. Dool is one of the formost farmers and breeders of the vicinity of Hartington. Seeing that there was money in the pig business if handled in the right fashion, a few years since Mr. Dool laid the foundation of the present herd by selections from some of the best breeders in the country, namely, Messrs. J. E. Brethour, Burford, and J. M. Hurley, Belle-ville. By judicious management and the in-troduction of first-class boars, success has crowned his efforts, and the herd now com-prises some sixty head, of very fire quality. The present stock boar is Champion -1597-, sied by Oak Lodge Diamond 4th -1135-; dam Millie Stamina 2nd -800-. This boar was purchased from J. N. Greenshields, P. Q., and shown by him last season, winning first at Toronto and Ottawa in the under six months class, and first this year at Kingston. A useful eleven-months boar, by Jackson 2nd -1022-, will be sold by Mr. Dool at a very modest figure. One of the best of the brood sows is Jane Ann 3rd -1396-, a two-year-old sow of fine type but somewhat thin in flesh to show well thisseason; she was bred by J. E. Brethour, and had for her sire Oxford Lad (imp.) 335, and for her dam Jessie 6th. May -1255- is another of the good ones, nursing a litter of good pigs at the time of our inspection. This sow was bred by J. M. Hurley & Son, Belleville, her sire being Duke of York -607-; dam Madan 2nd -152-. Yorkshire Daiegy 5th -1060-, by Model Duke -747-, dam Yorkshire Duchess 2nd -307-, is also a grand sow that was due to farrow Soyst. 10th, by Champion. Many other excellent sows are to be seen among the breeding animals, and Mr. Dool can supply young pigg of all ages and sizes, good ones and richly-bred, at prices within the reach of all. See his advertisement. W. J. SHIBLEY'S BERKSHIRES.

W. J. SHIBLEY'S BERKSHIRES.

See his advertisement. W. J. SHIBLEY'S BERKSHIRES. Some three years ago Mr. W. J. Shibley, of Harrowsmith, launched out in the breeding of pure-bred swine. After deciding that the Berkshires were the breed to his liking, a selection was made, Mr. Snell's stock getting the preference. During this short time, Mr. Shibley has established a very useful herd, now numbering over thirty head. A few of the best were fitted this year and shown at King-ston, where they succeeded in winning seven prizes out of 'twelve given. The herd is now headed by Premier, imp. in dam, and bred by N. J. Benjafield, Montcombe, Dorset, Eng., and imp. by J. C. Snell. He was sired by Rudolphus - 2869-, dam Matrina - 3410-, and is a fine, lengthy, smooth boar, fine-haired and strong-boned. Another of Mr. Shibley's show boars is a good yearling by Premier, and from Maid of Martin - 2762-. Recently a young boar, now five months old, was purchased from T. A. Cox, Brantford, with intention of keeping him for a stock boar. He is a very nice, smooth pig. but a trifle undersized ; still, good enough to win first in the class for under one year against older ones at the above show. Among the breeding sows one of the best is Maid Marian - 2762-, bred by J. C. Stell, Kdmonton, sire Enterprise (imp.), dam Royal Duchess (imp.) - 2640-. Maid Marion has just farrowed a litter of twelve fine pigs by Premier. Heaster -3589- is another good sow, also bred by J. C. Snell, and sired by Pllot (imp.) - 131-, dam Maid Marion - 2762-. This sow was shown at Kingston, where she won second. Bonny Queen 11th -3449-, by King Lee -1777-, dam Bonny Queen -266i-, is a good sow for points, but a little out of condition, owing to raising a litter of youngsters. This sow was a winner stock. The young stock should be good, as the above proves their rich breeding. Mr. columns offering young stock.

HOW TO GET "SUNLIGHT" BOOKS. Now TO GET "SUNLIGHT BOOKS. Send twelve "Sunlight" Soap wrappers to Lever Bros. (Itd.), 43 Scott St., Toronto, who will send post-paid a paper-covered book, 160 pages. By leaving the ends of the parcel open, it will go for one cent postage. Remember "Sunlight" now sells at six cents per twin bar.

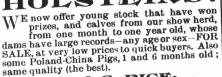
TWENTY DOLLARS FOR A STORY.

TWENTY DOLLARS FOR A STORT. "Our Monthly," published by the Manufac-turers' Life Insurance Company, Toronto, offers \$20 for the best argument for life insur-ance in the form of a story not exceeding fifteen hundred words. Particulars from Editor of "Our Monthly," 63 Yonge St., To-ronto. ronto.

BOOK TABLE.

BOOK TABLE. The Statistical Year Book of Canada, ably compiled by Mr. George Johnston, Statisti-cian, Ottawa, grows apace. A few years ago it was a modest volume ; last year it contained 995 pages ; but the copy which has just reached our desk embraces 1,134 pages, being the tenth issued. Seventy-six pages are devoted to agriculture. As a reference work we have found it of great use in office work ; and Mr. Johnston is, we believe, striving to make it Johnston is, we believe, striving to make it and others. We regret that the binding is of a very flimsy character, and owing to its large size would stand but little handling without going to pieces, so that if it survived a year's usage it certainly would not be a fit volume to appear in the office library permanently.

usage it certainly would not be a in volume to appear in the office library permanently. Mr. Geo. Batten, of New York, in his re-cently-issued "Directory of the Agricultural Press" gives some pertinent facts in his intro-duction relative to the farmer as a buyer. He estimates the production of the American farmer at \$2,500,000,000 in value yearly, a great proportion of which is necessarily spent for what is needed on the farm. He looks upon the farmer as a shrewd buyer, a reader and a thinker who believes in his agricultural paper and makes greater use of its advertising columns every year. In fact, he says the time is at hand for the business man when an advertisement in an agricultural paper is like the thumb on the hand, and against which the fingers of mail, freight, express and tele graph will hold to a bargain.

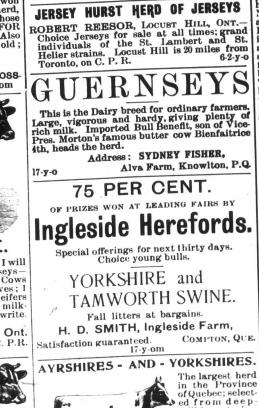


A. & G. RICE,

Brookbank Stock Farms, CURRIE'S CROSS ING, Oxford Co., Ont. 18-y-om



ADVERTISE IN THE ADVOCATE



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Champion Dairy Herd of Ayrshires at various government tests. Prize winners at the World's Columbian Exposition, Chicago. Write MESSRS. ROBERTSON & NESS, Howick, 19 y-om Que





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STOCK GOSSIP.

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IT in writing to advertisers please mention e Farmer's Advocate.

the Farmer's A avocate. HUGH M'CUTCHEON'S DUROC-JERSEYS. A couple of miles from Glencoe, Ont., is the farm of Mr. Hugh McCutcheon, who recently founded a hord of this American breed of swine by a selection from the well-known prize-winning hord of Tape Bros., Ridgetown, and others descended from the same herd. Among the herd we were partio-ularly pleased with the yearling sow, Queen of Mosa -77-, a typical Duroc of splendid quality and a fine, smooth finish, got by High-gate Lad -3815-, dam Duchess of Oxford. Queen of Mosa has won first wherever shown this year, and was suckling a litter of fine youngsters at the time of our visit. Glencoe Beauty -95- from the Duchess of Kent is al-o first in the aged class for Polands, Yorks, Chesters, and Durocs, at the different local fairs. She is due to farrow Dec. 7th. These two sows, with the Duchess of Mosa -32 - by Royal Don, are the best breeding sows of the herd. Pride of Glencoe -21- is the stock boar in u.e. He is a strong, useful animal by Nabob -11-, dam Rovy 9418. A fine young boar was recently purchased from Tape Bros. to replace the old stock boar. He is by an imp, sire and dam and had for his grandsire Old Norway Chief, the first-prize boar at the World's fair at New Orleans. Mr. McCutch-eon is offering a few young sows ready to breed and a boar of same age by Pride of Glencoe and from Duchess of Mosa. HUGH M'CUTCHEON'S DUROC-JERSEYS.

MESSRS. BERDAN & M'NEIL'S DUROC-JERSEYS.

breed and a boar of same age by Fride of Glencoe and from Duchess of Mosa. MESRS, BERDAN & M'NEIL'S DUROCJERSEYS. Or next visit was at the farm of Berdan & McNeil, near Strathburn, Ont., where some forty nead of high-class Durocs are to be seen, and on looking them over we were under the impression,that if they had been highly fitted have made a hard fight for some of the best prizes, and no doubt another year will see them of this breed as we nave yet seen: lengthy, deep fairs. This herd was also founded from the Tape Bros. herd. One of the stock boars now in this breed as we nave yet seen: lengthy, deep for his sire the Duke of Kent, and for his dam the Duchess of Kent. In another pen was None Such -20-, an eighteen-months old boar, fight or his sire the Duke of Kent, and for his dam the Duchess of Kent. In another pen was None Such -20-, an eighteen-months old boar, different dat a sproducer of some exception ally fine stock. Among the sows, probably the bast is Middlesex Maid -73-, bred by Tape Bros, and sired by the Duke of Kent -10-bis fis now nursing a litter of ten very fine bast is Middlesex Maid -73-, bred by Tape Bros, and sired by the Moar Nome Such -20-he is now nursing a litter of ten very fine bast is Middlesex Maid -73-, bred by Rape Bros, and sired by the Moar Nome Such -1404 Minner, and a daughter of Lady Havelock, is after type of a Duroc; also suckling a litter of the pigs by None Such. These two sows were winners of first wherever shown this season and we might also add that Messrs Berdan Winner, and a daughter of Lady Havelock, is after type of a Duroc; also suckling a litter of the pigs by None Such. These two so were winners of first wherever shown this season and we might also add that Messrs Berdan Winner, and a daughter of Lady Havelock, is bas a good one; bred some time ago to None sons, Dereham Centre; a grand pig in many forsons, Dereham Centre; a grand pig in many for the source of bis sour they will be seen. The proprietors claim that nothing by any base affilter where were thi satisfaction, as also should the younger ones. IVE AUSTRALIAN CATTLE AND SHEEP FOR ENGLAND. If Australia does not succeed in securing a portion of the British market for every agri-tion of the British market for every agri-portion of the British market for every agri-tion her part. On July 19th, the S. S. Southern on her part. On July 19th, the S. S. Southern provide the way comprised 51 bullocks, 80 sheep and one horse. Six of the bullocks 80 sheep and one horse. Six of the bullocks 80 sheep and one horse, six of the bullocks 80 sheep and one horse, and owing to the heat comy. The cattle lost weight very consider ably during the voyage, and owing to the heat ably during the voyage, and owing to the heat appearance. A good portion of the bullocks were them a very ragged and emaciated appearance. A good portion of the bullocks were that here-gourter bred Shorthorns, with some Hereford. Shorthorn, crosses and a few Herefords. The ages of the bullocks appearance is ald to be a rough lot of Merino grades, not worth sending to a country which grades, not worth sending to a country which is not the sort most sought in England the best of them would not dress. We had. The best of them would not dress the hough this experiment has proved a finan-cial failure, it is thought that further shiper more than f om 64 to 66 pounds per careass. Mong this experiment has norved a finan-tiel failure, it is thought that further shiper which is not the sort point that Canadians. We firther that the expenditure involved in fitting up the vessel amounted to £1.000. The amount of food taken on board for the animals from 600 to 700 tons, and 300 tons of water, which would be supplemented by means of the ship's condenser. The cost of the fodder the the mainals would gain weight on the voyage, but in this th LIVE AUSTRALIAN CATTLE AND SHEEP FOR "

THE FARMER'S ADVOCATE.





FOR SALE! **Barred Plymouth Rocks** FROM IMPORTED STOCK. For prices, W.C. SAEARER, Bright, Ont. 22-2-d-om JOHN J. LENTON, Park Farm, Oshawa, Ont., sells Bone Cutters and Pure-bred Poultry of the best quality at low prices. Send to him for catalogues, etc. 22-y-om

NOVEMBER 15, 1895

17-y-om

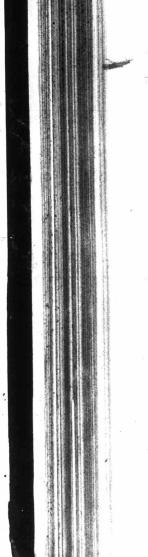
FOR SALE—Silver Wyandotte Cockerels, bred from cockerel first at Toronto in 1894; also White Leghorns, Plymouth Rocks, Pyle Games, and Pekin Ducks. These birds are all bred from prize winners and will be sold cheap. Correspondence cheerfully answered. -0 J. C. LYONS, Lucknow, Ont.



We buy all grades: Goose, Duck, Hen, and Turkey. We give highest market price, and we pay cash. General stores will find it to their advantage to collect for us. Write us for shipping instructions.

THE ALASKA FEATHER and DOWN COMPANY, Ltd., 10 ST. SACRAMENT ST., MONTREAL. Manufacturers of household pillows, sofa-cush-ions and bed-comforters.







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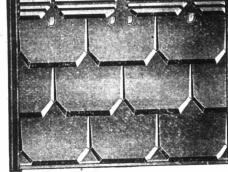
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THE "EASTLAKE"-the old reliable shingle that others try to imitate. The only original shingle with a cleat! Others are imitations. Cut out and send this advertisement for price list and catalogue.

Metallic Roofing Co., Ltd. SOLE MANUFACTURERS, TORONTO. able deaf. on hand.

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BY ONE MAN, with the FOLDING SAWING MACHINE. It saws down trees. Foldsike a pocketknife. Saws any kind of timber on any kind of ground. One man can saw MORE timber with it than 3 men in any other way, and do it EASIER. 97,000 in use. Send for FIKEB illustrated catafrom thousands. First order secures agency. Address FOLDING SA WING MACHINE CO., 62-66 S. Clinton Street, Chicago, Ill. 13⁶⁷ We manufacture in Canada. No duty to pay. est IMPROVEMENTS

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DRS. ANDERSON & DRS. ANDERSON & of the Eye, Ear, Throat & Nose, 34 North Jame St., Hamilton, and 5 Col lege St., Toronto. Sole agents for Prof. North's Earphone for the incur A large assortment of artificial eyes 16 2-y-0