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THE FARMING WORLD



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The Farming World

For Farmers and Stockmen

VOL. XX.

Early Seeding



PP.ING seems to be opening up with a rush. Farmers in Bruce County were reported last week as having begun seeding operations, one having sown oats. This is very early indeed, and more especially for that part of the province, where the season is usually ten days or two weeks later in opening up than in counties farther south. While it may be desirable to get the seed into the ground as early as possible, it may not al-ways be advisable. In the first the land should be in good place condition, and, following that, there should be good growing weather. An early season will give farmers a splendid opportunity to get their land in good condition for the seed.

Our Special Dairy Number next week. Look out for it !

Cattle Shippers' Grievances

That transportation is the allimportant question in Canada today cannot be doubted. At nearly every gathering of producers, whether of farm products or other whether of farm products of other commodities, this question is con-stantly coming to the front. The meeting of the Dominion Cattle Dealers' Association, a report of which appears elsewhere in this is-sue, furnishes another proof of this. The complaints of the dealers this year are not so much in regard to excessive freight charges, but deal with the poor accommodation and careless treatment meted out to live stock, and more particularly cattle, by railways and steamship companies. The cases cited of careless treatment on the branch railway lines of cattle are bad enough. but the unnecessary and costly delays of the ocean steamships with cattle on board are much more serious. It would seem, in the cases mentioned by Mr. Snell, that the steamship companies were culpably negligent, and made no effort whatever to live up to the agree-ment made with the shipper when they took his cattle on board. There surely must be some remedy for this kind of thing.

If the cattle were properly looked after during the delay, in taking on the extra cargo, the grievance would not be of so serious a char-acter. But they are not. The usual practice is to drive the cattle into the narrow passage-ways on board, and keep them there for the five or six days the vessel may be delayed at the second port in tak-ing on cargo, as at Quebec after leaving Montreal, or at Halifax af-

APRIL 1st, 1902.

ter leaving St. John. And there are other and perhaps more serious complaints by shippers that did not come out at the association meeting. We know of one instance where a firm of cattle exporters in this city paid for bran and ground feed for their cattle, while on shipboard, and the vessel left port without this feed, though it was on the dock ready to be taken on board. The cattle, therefore, had nothing to eat on the voyage but dry hay, and landed in England in a very much worse condition than when they left port, as would be expected under such treatment. And what is more, we understand that this feed was taken on board the company's vessel next sailing and sold, the proceeds going to enrich the steamship company's treasury.

These are some of the grievances which the Cattle Dealers' Association will ask the Government to look into. That they are of sufficient importance to claim the attention of those in authority no one will deny. There are certainly good grounds for an investigation, and if the inspector, the cattle shippers are asking for, is appointed, he will have plenty of oppor-tunity to earn his salary.

While it has been the cattle shipper who has suffered directly in the cases mentioned, it all comes back upon the producer or farmer. The losses through negligence or poor accommodation and the excessive freight charges the dealer or shipper has to pay in getting his cattle to the consumer, are all charged up in some form or other to the fellow who produced the cattle. Were it not for these losses and the extra freight charges the dealer would be able to pay the producer more for his cattle than he does at the present time. This phase of the transportation problem is, therefore of as much importance to the farmer as any we have discussed during the present winter. Cheaper and better transportation is the ques-tion of the day in Canada and the one that must be solved before the producers of this country are in a with the producer in the United States and in other lands.

Parties desiring to have copies of Dairy Number sent to friends should send in their names at once.

Cream Gathering Creameries

In our correspondence column this week, appears a letter from Mr. I. W. Steinhoff, in which he takes pretty strong ground regard-

ing the extension of the cream gathering system of making butter We have no means of in Ontario. knowing definitely how far Mr. Steinhoff's remarks, regarding the bad flavor of the butter made on the cream gathering plan may be according to fact. Mr. Steinhoff has, however, been handling dairy products for a number of years, and he is not the one to make a summing tatemark of the bard sweeping statement of the kind contained in his letter, unless he had some good reason for doing so. We, therefore, willingly give space to his communication and would be glad to hear from others directly interested regarding the relative positions of the separator and cream gathering creameries in producing good butter.

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In the meantime, it might not be amiss to deal with the question brifly in a somewhat general way. There is a phase of the cream gathering system of butter making that is destined to assume far greater importance in this country, than it has in the past, and that is the farm separator plan. In the Western States and in our own Canadian West this is the popular plan to-day. And if we mistake not, it is developing very rapidly in Ontario. In our opinion, and we have followed its development more or less closely, not only in Canada, but in the United States, the farm separator system is the coming one for operating creameries. Indeed, as we have already stated, it is being largely adopted in the Western States, and is the only one considered on our western prairies. By this plan the farmer has his skim-milk at home in a perfectly sweet condition for feed-ing, and the cost of hauling to the factory is considerably less the where the whole milk is carried. than

Such being the case it would seem to us to be almost futile to attempt to prevent the growth of this system even in this province. A much better course to pursue would be to endeavor to direct the movement so that it can be car-ried on in the very best way. For years there has been a strong agitation against returning the whey from cheese factories in the milk cans, nearly every dairy authority being opposed to the practice as one tending to injure very materially the flavor of the cheese. And yet there is as large, if not a lar-ger percentage, of factories returning the whey in the percentage, of the whey returning the whey in the milk cans than there was ten years ago. The most reasonable and practical course to adopt, where the patrons must have their whey home, is, not to urge them to quit the practice, but to endeavor to

educate them in the very best methods of keeping this whey as sweet as possible. The farm separator feature of the cream gathering system of butter-making should be treated somewhat similarly. It has in it, besides the commendable features we have named, many others, and is a system which if properly managed lends itself to the production of first-class butter on a more economical basis for the farmer than the regular cream separator creamery. We may be wrong, but, nevertheless, our view is that the best course to pursue is not to en-

deavor to shut off the growth of this system but to try and educate the patron to manage his separator properly and to handle the cream so as to make the finest quality of butter. If this is done we believe that under the farm separator system as good butter can be made as by the separator creamery.

In our special dairy number, which will appear next week, Mr. J. A. Ruddick, Chief of the Dairy Division, Ottawa, contributes a valuable article dealing with the farm separator system which should be read by every one interested in this important question.

Our Western Letter

The Storm. Early Seeding. Forestry Convention. Wheat Shipments. Institute Meetings Cut Short.

Winnipeg, March 24th, 1902. Public attention was for a few days diverted from the prohibition question by the remarkable storm of wind and snow which swept over the Province and most of the Territories last week. At least one and one-half feet of snow fell during the 14th, 15th and 16th of the month, which, with the wind blowing a gale from the north-east, was for the most part deposited in miniature mountains in each sheltered spot, while the open fields and roads were left bare. It was reminiscent of those great and curiously wrought banks of white that were the wonder and admiration of the writer, when a schoolboy in East Middlesex, as they reared their snowy heights along the sinuosities of the old zigzag rail fences, then so common in that part of the country. The recent storm bore further resemblance to the Ontario nor'easter, in that it has been succeeded by thaw and rain, which have already re-moved the greater part of the heavy snowfall. The warm rain which fell yesterday will greatly advance the season, and there seems to be every probability of an early spring.

Another week of weather like the past week will enable the farmer to get at the spring plowing. Owing to the unusual proportion of "stook threshing" last fall, the fall plowing fell considerably below the previous year and, unless the spring should be early and prolonged, the crop area will show the effect of this failure to get the desired amount prepared for crop dur-ing the fall. There are other indications pointing to a slight de-crease, especially in wheat, as compared with 1901, among these may be mentioned the fact that last year's increase over 1900 was abnormal and due largely to the partial failure of the wheat crop of 1900. The foregoing remarks apply solely to the province of Manitoba. The crop area of the Territories will, owing to the heavy immigration of the past two years, in all probability show an increase. I am unaware of any statistics as to the amount of land broken last

year, upon which to a large extent the increase will depend, but am led to believe the amount is considerable. The increase from that source in Manitoba has been taken into consideration in this forecast.

A stationary or even a declining area in wheat could not be considered otherwise than a gain to the community, if thereby the energies of our farmers were diverted into other branches of agriculture. A consideration of the comparative value of our grain crops and other products of the farm, cheese, butter and beef, shows that the fertility of our soil is being sold by the bushe! as fast as it can be got into mar-ketable shape. The farmers of older lands can tell us what must be the inevitable result of that system of farming, doubtless here as elsewhere no heed will be given to any warning except that of the decreasing yields, which are bound, sooner or later to result from this unwise policy of overdrawing our account at nature's bank.

The annual convention of the Forestry Association was held on Thursday, the 20th inst. This as-sociation is organized chiefly for the purpose of keeping before the public the importance of the afforestation movement in the West, and of maintaining the present for-est reserves undiminished. The present reserves amount in the aggresent reserves amount in the aggre-gate to about a million and a half acres. The work of the Forestry Commissioner, Mr. Stewart, and his lieutenants, Messrs. A. P. Stevenson and Norman Ross, have been several times referred to in your columns. Much has been ac-complished in the past and much remains to be done. The interest shown in the movement by the farmers of the Province and the Territories indicates that the efforts made on their behalf by this department of the government are fully appreciated. In the coming season some 500,000 trees will be planted under the supervision of the Forestry Department, by the farmers of Manitoba, and a further large number by the farmers of the Territories. After the election of officers papers were read by A. P. Stevenson, Inspector for Manitoba;

John Caldwell, Nurseryman, Virden, Manitoba; and E. Stewart, Dominion Supt., of Forestry, on the lines of work of the Forestry Department. Mr. Stewart's paper on "Utility of forests in relation to water supply" was pronounced a masterly effort by those present. He showed the importance of forests in preventing drouths by attracting rainfall, in preventing freshets by acting as reservoirs for the rainfall and melting snow, and otherwise in their tendency to temper extremes of temperature and moisture. A paper on birds in relation to forestry by A. E. Atkinson, completed the programme.

Those farmers who still have grain on the farm for sale or stored in elevators along the lines of railway are rejoicing over the prospect of early opening of navigation. There is every indication that the lakes will be open at least a month earlier than the usual date. Sanguine prophets are abundant who believe that April 1st will see the Fort William and Port Arthur elevators at least partially emptied of the grain that has been lying there all winter.

The Canadian Northern announce further additions to their storage capacity at Port Arthur, as they intend during the coming season to place their line in a position to handle its full share of the grain trade of the West. As was fully expected the amalgamated Beatty and Collingwood lines of steamers will run in conjunction with the Canadian Northern. In consequence of this arrangement much freight that heretofore has been handled in Duluth will henceforth go via Port Arthur and the C.N.R. Manitoba Farmers' Institutes

Institutes seem foreordained to misfortune. The series of meetings arranged for the two weeks commencing on the 10th inst. was sadly interrupted by the storm of the 14th, 15th and 16th, which knocked railway time-tables into the proverbial "cocked" hat" and made travelling an impossibility for three or four days. As a result all meetings of the past week were cancelled, and an at-tempt will be made to send lecturers to the disappointed institutes during the month of June. Meetings so far as held are reported to have been well attended and great interest manifested in the proceedings. The winter is, generally speaking, the time for successful Institute work in Manitoba and but for the unforseen, and unavoidable occur-rence of that untimely snow storm the winter's work of the Institutes would have had a fitting termination in this series of meetings. The lecturers, all local men, speak in enthusiastic terms of the meetings held by them, and general regret is felt at their unfortunate interruption.

An extra large edition of our Special Dairy Number will be issued. and it will be nearly three times the size of our regular issue. No Dairyman can afford to miss this number. Send in your name at once. eevFvrbtt

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Ingleside Farm House, on banks of St. Clair river, residence of C. Wills, Mooretown, Ontario.

Gardening for Pleasure and Profit

A Prizewinner's Experience

Gardening is too often looked on by Canadian farmers as a bother and nuisance, and if the farmer has a good garden it is the women folks who deserve most of the credit. If the farmer could be made to believe that that portion of the farm pays better for its size than land in any other crop, besides the pleasure and interest de-rived from the care of it, the garden would not be so neglected as it is at present by many farmers who often do without things that they could easily raise on account of the idea that it doesn't pay to bother with them. As I have had good success the past four summers with my garden of half an acre, raising from \$125 to \$150 worth annually, at an expense for time, seed and fertilizers of \$20 to \$30, and growing the first and special first prize collection, and many other prize exhibits at the late Provincial Exhibition, I may be able to give those interested an be able to give those interested an account of my experience the past season, trusting they will be bene-fited by it. The half acre plot intended for my garden was ploughed up in the fall of 1900, and the was cross-ploughed in 1901. It was then dug by hand with a digging fork, and all the clods well pulverized and well rotted manure thor-oughly mixed with the soil. The garden rows were marked out a foot apart for small root vegetables and correspondingly wider for the larger growing crops, which require more room to develop prop-erly. A small quantity of fertilizerly. A small quantity of fertiliz-er, or wood ashes, was drilled in with the seed. As soon as the plants were well above ground, I went over the ground between the rows with a sharp garden rake, breaking the crust, thus destroying the weeds before they became troublesome and conserving the moisture of the soil, keeping it from evaporating too freely. I find an hour's work at this time of find an hour's work at this time of

growth to be worth a day's work later on, when the working a day of working a secome large enough to pull. Frequent cultivation through the season and watering in dry weather appear to keep the crop growing better than heavy fretilizing, and the crop is of better quality. By the use of hot beds and cold frames I set out early lettuce in the soil intended for late tomatoes and celery, thus getting two crops from the same piece of ground at little expense. Wherever there is a bare space in the garden I find it a good plan to set it with plants as near like the remainder of the crop in appearance as possible. Beets and celery are easily transplanted into such spaces and cabbage can be set around the fences and where potatoes have missed, which, besides filling up the space, often do better than if the soil was especially in-tended for them. Cucumbers and squash do splendidly alongside ditches and paths, especially when planted in rows, which after a thorough trial, I find to be the best method of growing such vege-tables for the following reasons: They can be easily weeded and

gathered without disturbing they take up less in hills. Cucumbers the vines, room than in hills. are also much earlier, which is a great advantage by the sun gaingreat advantage by the sun gain-ing free access to the vines. Of course, the plants should not be very close-eight inches for cucumbers and two feet for squash are sufficient. If the ground is quite heavy and contains much organic matter, I find that tomatoes ripen several weeks earlier than on stable manure, if a quantity of lime or wood ashes are used instead. The yield will not be so large, but the earliness, smoothness and quality are much increased, and they bring the best prices in the n arket. They need a certain amount of barn manure on light, poor soil, but it appears to be a waste of time to apply it to a heavy, rich soil, as the plant will run all to vine, and a poor crop will be the result Space will not permit me to describe all my methods, some of them original, but which have resulted successfully in nearly every case. I will now, for the benefit of those to whom the multiplicity of varieties mentioned in the seed catalogues are confusing, give a list of the best varieties I have tested out of over 200 varieties, and have found by side-by-side comparisons, to be the earliest and best, incidentally mentioning some of the advantages gained, I believe, from three years' experience at exhibiting that success in that line as well as for other purposes, depends more upon good seed of suitable varie-ties planted, more than on any other factor. The longer the season of certain vegetables are extended by the planting of early medium and late varieties, the more valuable will the garden be as a means of pleasure and profit. The following kinds afford a succession from early in the summer till late in the fall, and with proper attention will not always be a failure. Lettuce, which is started in a hot bed or cold frame, is the earliest product of the garden. Denver Market is a fine early sort, while New York or Wonderful is the best late. Beditter best late. Radishes come next, the Rosy Gem for early and Long Scarlet for late are good varieties. Early peas are not heavy yielders, as a rule, but the Notts Excelsior



Township Ferry, Sombra Township, Ont.

followed by the Telephone for late fills the bill satisfactorily. In string beans Wardwell's Kidney Wax proves to be the earliest bush bean, and Golden Cluster the earliest pole bean. If shell beans are desired, the Mammoth Horticultural and White Runner produce immense beans of good quality. The earliest and smoothest beet of five kinds is the Crosbys Egyptian, but for winter, I prefer the old-fashion-ed Long Blood, both for its heavy yield and keeping qualities, though it does not sell as well as the round sorts. The Oxheart carrot, followed by the Danvers and Long Orange, will make a good succession, and in cabbage, Jersey Wakefield is still the earliest, Allhead Early and Danish Ballhead the best medium and late, the last named being a very solid, heavy cabbage for its size, and has proved with me to be a wonderful keeper. The earliest cucumbers keeper. The earliest cucumbers were the short pickling kinds, and they also yielded heavily, but the White Spine and Long Green are the best table and selling kinds. Only the earliest varieties of corn will mature in this locality; the Compton's Early and Longfellow do well, also the Cory and Minnesota Sugar. The plan of starting onion seed under glass and setting out the plants has been a great success with me; by this method I raised the largest onions ever grown in this locality. Red Wethersfield was the best red sort, White Globe the best white, and Prizetaker the best yellow. In parsnips I find the Hollow Crown to be as good as any, and turnips of the P. T. Swede and Milan varieties do well, except that the disease called clubroot is quite troublesome. The earliest of eight kinds of tomatoes grown side by side was the Earliest of All, but was not as good a yielder as some that followed. Out of over twenty sorts of squash and pumpkin, many proved to be worthless except for ornament or exhibition, but the person who depends on Orange Marrow Delicata and Turban squashes, and Sugar and Winter Luxury pumpkin for earliness and Hubbard Bay State and Marblehead squash for winter will not be disappointed. If a few mammoth sorts are wanted for exhibition or feeding, the Mammoth Green and Chili squash and Mammoth Tours or Boulogne pumpkin are the best and easiest to grow. The foregoing statements are but the results of hard work and close attention to details. I had very little time outside of my regular work, to attend to the garden as I would have liked, but the fact of selling \$50 worth, using \$50 worth in the family and winning \$30 in prizes from the products of half an acre, shows that to those who persevere even in an unfavorable locality, as I am situated in, will be successful in their undertaking, and the ex-perience and pleasure gained will repay for all the disappointments and failures which a garden properly cared for is seldom incapable of. Halifax, N. S. E. MacKinlay.

More About Good Roads

Gleanings From the Ottawa Convention

COMMUTED STATUTE LABOR Mr. T. W. Allan, Reeve of North Grimsby, gave the experience of that township with the Commuted Statute Labor system. One advantage of this system is that it reduces the work of the township clerk by from 15 to 20 per cent. It does not impose any nardship on the porest tax payer because a man who has not the money can go on the road and earn the amount necessary in less time than it would have taken him to work out his statute labor under the old system. To carry out the plan, the township is divided into two districts, each of which is under the management of a commissioner. These officers receive \$1.50 per day each while employed, and earn perhaps \$100 per year. Two great advantages connected with the new system are, that the work is done just when it will prove of most value, and labor-saving machinery can be made use of. Under the old plan of operations they had a road grader, but the pathmasters never seemed able to make proper use of it. By using it they are able to grade our clay roads at a cost of \$20 to \$30 per mile. And a road once made will hold in fair-ly good shape for five years. Besides the grading, we keep over our roads with a planer. keep going This machine is put over the roads just as soon as they are dry in spring, and after a heavy rainfall in sum-mer we put it at work again. The cost of planing of all the clay roads of the township is \$40 each application.

ROAD-MAKING MACHINERY.

Major Sheppard addressed the meeting on good roads machinery. He stated that grading and drain-age are at the foundation of good roads. Good roads cannot be had without machinery. In buying machinery for this purpose it is a most unwise thing to attempt to save by cutting off some of the attachments usually sold with a crusher. You may save a few dol-lars on the first cost of the machine, but you will lose a large sum annually in the expense of operation. An illustration of this was afforded in Nova Scotia, where two machines were operating within three-quarters of a mile of each other, under precisely the same conditions. The one handled the material at half the cost at which it was handled by the other machine. A good crusher, capable of running twelve to twenty cords of stone per day, will cost \$1,200. It is not wise to have more than 9 to 16 inch capacity in the jaw. good crusher will weigh four and a half to six tons.

half to six tons. Speaking of rollers, he stated that he had asked his people to have a roller built which would weigh not over ten tons, that would carry water enough to last half a day, and that should not cost over \$2,000. He found, however, it was impossible to get a roller such as this made for the price stated. A five-ton roller, he added, worked by horse-power, would do fair work, but in his opinion it was better to have a traction engine and a heavier roller. One of the lighter rollers could be bought at \$100 per ton. "It will pay to have a wagon built for the special purpose of spreading the crushed stone on the road, and it is necessary to sprinkle the last layer of stome in order to get a proper set of the material.

FURTHER ORGANIZATION.

The work of further organizing the good roads work of the Province was discussed. The Eastern Association does not pretend to cover the territory west of Kingston. It was felt, however, that there was room for two organizations similar to the two dairy associations. As the original Good Roads Association, which was responsible for the first agitation in this province for good roads, and which resulted in the appointment of a good roads commissioner, has ceased to exist, the plan of having an Eastern and Western Association seemed to meet with favor.

An effort was made to interest the Dominion Department of Agriculture officially in the good roads movement, but with little success, and we think rightly so. The maintenance of the roadways of the country is purely a provincial matter, and should be left to the provinces to deal with as they see fit. Conditions are so varied in the different provinces that it would be difficult for a Dominion organization or a Dominion official to do effective work in extending the good roads movement. When the provinces has decision it will be time for the Dominion to step in.

Plant Food

We hear at times of plant food used in excess—rather, of one or more of the three elements of plant food used in excess. This must prove confusing to some of your readers, and we shall attempt here to make the same a little clearer. In the first place, all fertilizers, manures, and other materials applied to soils to increase plant growth have been found, when of value, to have certain points of sameness—they all contained nitrogen, potash and phosphoric acid. Further investigation proved that these three substances are true plant food and not the great bulk of the material associated with same. For example, a ton of sulphate of potash contains 1,000 pounds of sulphur combinations, etc., it is only the 1,000 pounds of actual potash that is useful as plant food, the other 1,000 pounds

having no value as such. The actual potash may be separated from this useless material (useless so far as the farmer is concerned) but to do so would greatly add to the cost of the actual potash. As a matter of fact, plants are as able to use the potash in the crude material as if in the refined condition, so that the cost of refining is a needless expense. In like man-ner, a ton of farmyard manure contains about ten pounds of nitro-gen, 10 pounds of potash and 5 pounds of phosphoric acid. This in all makes 25 pounds of plant food, and the remaining 1,975 pounds of the ton are not plant food at all, and really add very much to the cost of the actual plant food by the mere expense of handling. contains about ten pounds of nitro-

We have now made clear the na-We have now made creat the has ture of plant food; it consists of three substances, nitrogen, potash and phosphoric acid. We must and phosphoric acid. We must now consider another point. These substances may not be used out of place, that is, nitrogen cannot do the work of potash, nor potash the work of nitrogen. Phosphoric acid work of phosphoric acid. This fact is a very significant one. If, to illustrate, a soil contained nitrogen and phosphoric acid sufficient for 30 bushels of wheat per acre, but potash only enough for 5 bushels, the crop would not exceed 5 bushels. This is the very point making clear the meaning of "plant food in excess." In the illustra-tion given, we evidently have five times as much nitrogen and phosphoric acid as we can use, there being no potash to go with it. This useless nitrogen and phosphoric acid is therefore in excess. It is of no value in crop making, and suffers loss through the seepage of winter, when there is little or no surface evaporation to draw miner-

als to the surface. Using particular plant food elements in excess means more than the simple loss of these ingredients. Nitrogen in excess tends to favor a growth of immature wood, leaf and stalk; fruiting is shortened and blossoms prove sterile. Winter killing becomes very severe. An excess of phosphoric acid has the effect of stimulating maturity to an unusual degree, causing a ripening of the crops long before a full growth has been reached. Potash in excess does no particular damage, and also persistently resists losses from leaching. We must, therefore, consider the probabilities of an excess of plant food in every manuring scheme we attempt to work out. Farmyard manure does not of itself contain an excess of any element of plant food; but, the nitrogen in such manure be-comes available long before the potash and phosphoric acid, which in effect is the same thing as an excess of nitrogen. This is noticed in the common lodging of grain where farmyard manures are used in large quantities, particularly in spring top-dressing wheat. P. J. Christian.

Correspondence

Cream Gathering Creameries Condemned.

Editor THE FARMING WORLD

Will you kindly permit me through the columns of your influential paper to sound a warning, or enter my protest against the extension of a system of butter making, which I believe will endanger, if not destroy the reputation of Western Ontario for the production of the finest quality of dairy goods.

I have sometimes made the statement when addressing dairy meetings, that the dairy cow and the bacon hog were doing more to glorify and advertise Ontario today than any other two products. I do not think that this is an extravagant statement, and I verily believe that this reputation is worth a good deal to us, and that dairymen should very carefully guard this reputation and make their best effort to protect it. But the tendency at the present time seems to be toward making more butter upon the cream gathered system, which in my judgment, is the opposite direction.

This tendency to go out of cheese making and turn to butter is more particularly noticeable in the Northern district, where there are from twenty to twenty-five factorits, which a few years ago were making good quantities of cheese, which are now either lying idle or are engaged in making butter on the cream gathered system, and now I understand that the celebrated Bluevale factory, which during the past years has certainly done much to bring repute to the name of Canadian cheese, is also going into the cream gathering business.

I have had considerable experience in handling butter from both the separator and cream gathered methods, as the factorymen well know, both for Montreal firms for export and for Canadian merkets, and I have no hesitation in saying that the separator butter is much superior in quality, and, in fact, the only class of Canadian creamery butter that is sought after by Montreal and all other leading ex-Canadian trade. In handlug creamery butter I have, during the past summer more frequently than ever before, been met with the statement, that "your Western statement, that 'your Western butter is bad in flavor; we do not care to handle it." This applies to summer butter made on the cream gathered system, and it has become a recognized fact that during summer the best butter is made in the East, and during winter, where the cheese factories are turning out butter on the sep-arator system, the best butter is found in the West.

On the other hand, it is a fact that Canadian butter is in much better repute in English markets now than a few years ago, but it will be

admitted by those who know the facts that this reputation has been redeemed by the introduction of separators, adoption of the method of weekly shipments when the butter is in good condition, and the better transportation facilities; but still the quality of the average cream gathered is not wanted.

These, Mr. Editor, are bold statements and may seem to jeopardize the interest of some of the creamerymen with whom I do business, for which I am sorry; but it is only the extension of the system at which I want to strike, and I make these statements in what I understand to be the best interests of dairying, and believing the facts will stand the most thorough investigation among those who are handling the butter believing they are the best authority upon what kind of satisfaction it gives.

In this particular, the Montreal exporters or English receivers have the advantage, as they see the butter from different sections of the country, and made under the different systems, side by side.

Before concluding this letter, I must admit that there are certain results such as the giving of prizes, etc., in Canada, which would seem to refute this contention; one in-stance of which I happened to be connected with myself, and in case this might be quoted, if this letter provokes discussion (which I hope it may), I shall here refer to it.

At the Pan-American Exhibition in Buffalo, where I acted as Can-adian judge in the October competition, with Mr. A. H. Barber, of Chicago, and Mr. White, of Bos-ton, the butter exhibited by Mr. J. McQuaker, of Owen Sound, scor-J. McGuaker, of Owen Sound, scor-ed 97% points, and that of Mr. Brill, of Teeswater, scored 97%, both being cream gathering cream-eriss, while the highest score re-corded on any butter of the 330 samples was only 98.

This may have been due to the cream being very carefully selected, possibly from separator cream, the weather at that time being cool and the butter fresh made, and sent under favorable conditions.

This being true, however, I reiterate my statement that we find the cream gathered butter, as a rule, when 10 to 20 days old, of a Fuc, when to to 20 tays one, or a sort of stale, sour, heavy flavor, and it is getting all the time hard-er to handle it, while shippers can-not get enough of the clean, nutty flavored separator butter.

My principal point, is that in-structors, and those who are advocating the making of more butter, should also advocate the es-tablishment of separator creameries only.

Should you, or anyone else, wish to make enquiry into this subject, I will be pleased to furnish a list of exporters' names, to whom you may refer for information.

I. W. Steinhoff. Stratford, March 20th, 1902.

THE FARMING WORLD

Hatching and Raising Early Chickens

By Mrs. Joseph Yuill, "Meadowside," Carleton Place, Ont.

Having been very successful in raising poultry last year, and especially so in hatching and raising early chickens, I thought I would give you an article on "How I did it, for the benefit of such of your readers as it may interest.

Our hen house is 20 feet long by 8½ wide, with double brick walls plastered on inside, and cement plastered on inside, and cement floors. The windows which are three feet by five, are two feet from the floor, two of them facing south and one east. The ceiling is two ply inch lumber. The roots are round poles supported from the ceiling, and are one foot from the floor in front and two at the back. The droppings are scraped up each morning, and the floor sprinkled with wood-ashes. The dust bath is composed of one lb. sulphur to every eight pails of road-dust. I feed in a V-shaped trough. The drinking fountain is a four gallon, covered tin can, with a strip 6 by out out of the side about six 3 cut out of the side, about six inches from the bottom. Our fowls are all Barred Plymouth Rocks.

The best results we had in hatching, were from eggs laid by pullets eight months old, fed on a little grain morning and noon, and in the evening a mash made as follows: 2 handfuls of fine ground or broken egg shells, 2¹/₂ lbs. cut clover, scald with about 1 quart of water, let steam for half an hour, then mix with bran and a little salt.

Their supply of meat is prepared at butchering time, all the refuse meat is boiled until quite tender, then mix with one part bran, two parts oats, one part barley ground fine and a little salt. Fill this mix-ture into small barrels or nail kegs then put it out to freeze, when froz-en solid, break two or three staves out of a barrel and roll it into the hen-house, as it thaws, the hens will get all the meat they require. We also feed a little ground bone every day.

Seeing a number of articles in the papers on "Feeding poultry for egg production in winter," I tried a charge of feed, but did not have so good results. I filled my first incubator on the fourteenth of Ja-nuary, and had eighty-six live chicks out of one hundred and ten eggs, these chickens were left in the incubator for twelve hours.

In preparing the brooder, I put about one inch of sand on the bottom, heat it to 70 deg., then put the chickens in and let them remain twelve hours without food. For the first feed, mix a hard boiled egg ground fine, shell and all, with one quarter of a lb. stale bread crumbs, put a clean paper over part of the sand in the brooder, then sprinkle two tablespoonfuls of this food on the paper, repeat in two hours, when the paper becomes soiled, replace with a fresh one. Continue this food for the first three days, being careful not to feed

too much. On the fourth day, about a teaspoonful of ground meat may be fed, also a little pin-headed oatmeal mixed with small seeds, such as millet, still cintinuing the hard boiled egg and bread, although a little oatmeal may be mixed with these. When about two weeks old split a small mangel, scrape a little out of the middle. mix with corn-meal, replace and The mangel serves as a feed. trough and teaches them to eat it. Give them a fresh one every day. By this time the chickens are able to leave the brooder for food. Scatter a little wheat and seeds on the hen-house floor. Boiled potatoes mixed with fine ground oats, and corn-meal slightly damp-ed with skim-milk may now be fed for breakfast. About ten o'clock give them ground cabbage, car-rots, mangels or onions, mix with fine ground oats, corn-meal or shorts. If possible change this portion of their diet every day. When they were about 3 months old I fed them wheat for supper, at four months, whole oats. While in the brooder give all the clean, cold water they will drink, in saucers with a teacup turned bot-tom up in each one. Do not give them any milk for the first two weeks.

We raised all our February and March chickens in this way. I disposed of very few of the Feb. chickens as the majority of them were pullets. What cockerels there were among them, and also those hatched in March, were sold to the Canada Produce Co., Toronto. The February chickens weighed on an av-erage, four pounds each at four months old and the March chickens weighed three pounds at three months old. The February pul-lets commenced laying in August, moulted in the last of September, commenced laying again soon after

and have been laying ever since. I have used a Cyphers incubator for the past two years and am having good success with it this year.

The Shut-In Society-Miss R. The Shut-in Society—Miss K. was telling her Sunday school class of small boys about the Shut-in Society, whose members are per-sons confined with illness to their sons confined with illness to their beds or rooms. "Whom can we think of," said she, "that would have great sympathy for these that are so shut in ?" "I know," said a little boy; "someone in the Bible, ain't it, teacher?" "Yes; and "he Tomai?" "Yes; are the ain't it, teacher ?" "Yes; and who, Johnnie ?" "Jonah," was the spirited answer.

The Weaker Sex Stands Together-"Which do you love most, your papa or your mamma?" Charlie: "I love papa Charlie: "I love papa most." Charlie: "I love papa most." Charlie: wother: "Why, Charlie, I thought you loved me most." Charlie: "Can't help it, mamma. We men have to hold together."

Poultry and Eggs.

Advertisements under this head one cent a word Cash must accompany all orders under \$2.00. No display type or cuts allowed. Each initial and num ber counts as one under

BROWN Leghorns, Prolific early layers; Strain won at Pan-American. Stock for sale-Minor-cas, Barred Rocks, Choicess Strains, Eggs in season. IOHN B. PETTIT, Fruitland, Ont.

REID'S Great Prize Winners. They have won 5600 prizes in my own hands. Send for list of varieties. W. W. KEID, Ayr, Ont.

BARRED ROCKS. Stock and Eggs for sale from prizewinners at leading shows. Eggs by the hundred or setting, Prices right. Write stating your wants. ELIAS SNVDER, Burgessville.

DIAMOND Poultry Yards, Freeman, Ontario, Rose Comb Black Minorcas, exclusively winners firsts and 8 seconds Toronto and Hamilton Winter Shows: Eggs \$200 per 13. F. Woolcorr, Fere-man, Ont.

E^{GGS} for setting. Silver grey Dorkings from splen-did stock. John Taylor, jr., Galt, Ont.

PINE HILL STOCK FARM can supply eggs from the following varieties, choicest of stock ; R. Langyhans, L. Brahmas, Barred and W. Rocks, G. S. Land' White Wyandottes, S. G. Dorkings, W. and Brown Leghorns, Buff Cochins and Golden Seabrigh Bantams, SLO per 13 eggs; Pekin Duck eggs, SLO per 11 ; M. Bronze Turkey eggs, S2:00 per 9; Toulous Geese eggs, 40c. each. D. A. GRAHAM & Son, Thedford, Ont.

E^{GGS} Three Dollars Hundred-Pitts Minorcas, E. B Thompson; Bradley Bros. Liffell Strain; 15 eggs 75:. All birds scoring 92 to 96 points. N. H. SMITH, Lilbury, Ont. Lock Box A.

FOR SALE-Eggs from choice matings of Barred Plymouth Rocks and Mammoth Pekin Ducks-\$1.00 per setting. F. C. TREVERTON & SON, Bellevnie, Ont.

FOR IMMEDIATE SALE.

FOR IMMEDIATE SALE. Ten pair English Ring Neck Pheasants and a number of Barred Rock Cockerels. R. M. LEE, Box 323, Galt.

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EGGS FOR HATCHING. Single Comb White Leghorns and Barred Plymouth Rocks. \$1.00 per 13. HARRY D. NORTON, Alliston. Ont.

WHITE ROCKS. good laying strain, eggs one dollar. Cockerels, one dollar. Supply lim-ited. Order early. HIGHWORTH POULTRY YARDS, West London, Ont.

EGGS FOR HATCHING. Black Minorcas B. P. Rocks, 15 eggs only 75 cents. Every bird from these pens score 92 to 96 points and prize winners W. H. Swirth, Tilbury, Onl. Lock Box A.

SEND your name for Circular of Standard-bred Plymouth Rocts and Wyandottes. The breeds for utility and export. Eggs reasonable. PVRAMID POULTRY YARDS, Newmarket, Ont.

Poultry Pays.

The Farming World, Toronto. Dear Sir:-

Enclosed you will find \$1.00 for our subscription to The Farming World for 1902. We have had, as World for 1902. We have nau, as usual, the best of success with our ad. in The Farming World. The past season we shipped turkeys as far West as Manitoba and Illinois, and as far East as New Brunswick.

The Farming World is responsible for this, as it is the only paper we advertise turkeys in. Prices were higher the past season than any previous year. Through our win-nings at the last Toronto Indus-trial Exhibition and the record turkeys of our breeding made at the Pan-American we made several good sales at long prices. Wishing your paper a prosperous

vear.

We are yours truly, Jas. Ford & Sons Drumquin, Ont.

The Sugar Beet World

Devoted to Sugar Beet Culture in Canada and Allied Industries. Specially Representing the Farmers' Interests

Edited by JAMES FOWLER

Sugar Beetlets.

A New Machine.

Agronomists are attaching more and more importance to the question of the careful harvesting of beets. It is now admitted by most authorities that the slightest 'ruise always means an important sugar loss, and the changes in silos are most difficult to keep under control, as during their keeping these bruises come directly in contact with the micro organisms of which the ground is always supercharged.

It is always a great mistake to place beets in silos during rainy weather. Their subsequent keeping is much more difficult because the moisture absorbed helps second growth and decay.

The grafting mode of obtaining superior beets has made important strides and may lead in a practical way to results that would not hitherto have been thought possible. If superior seed can thus be obtained it means at once an important increase in the quantity of sugar that it is possible to obtain per acre.

The use of molasses in the several fcdder combinations for cattle have proved profitable, and its distilling with the view to the manufacture of alcohol has become a considerable source of income, for the product brings a satisfactory price upon the market.

The question of pressing or not pressing has been very exhaustingly examined by several German authorities.

Notwithstanding the fact that most of the American farmers attach but a secondary importance to the feeding value of residuum beet cossettes from diffusion, in many agricultural centres of Europe the tiller resorts to sugar-beet cultivation with the sole idea of obtaining from the sugar factory the residuum in question, and the profits derived from fattening beeves, combined with the resulting manure, places the sugar beet at the head of the money-making crops. The cossettes may be fed fresh, siloed or dried. The residuum fresh from the pulp presses has a composition that depends upon the variety of beet from which they were obtained, the soil and fertilizer used has also an important influence upon the composition of the exhausted product. In some factories farmers are compelled to handle the residuum as emptied from the diffusion battery without submitting it to a preliminary pressing. Under these circumstances the bulk is considerable, and it offers considerable difficulty for transportation to distant farms.

A gentleman living near Hamilton, Michigan, is said to have tried, during the past season, a new puller and topper that gave excellent satisfaction. This machine is said to put the beets in rows ready for the wagon.

This topper is composed of two revolving heads, each consisting of six discs, so arranged as to give a square cut and force feed, thus avoiding the canting or slipping of the beet. It will top a beet, throw out a chunk that would clog other machines and top another beet in a space of eight inches. Automatic in its action, it is positive in its work, regardless of the hand of the driver if he simply drives so as the beets enter the machine.

The digger, too, is a new construction, and while it runs but five inches in the soil, will pull or lift beets of any length.

Substantial Progress in Canada.

The Beet Sugar Gazette, of Chicago, has taken occasion repeatedly to warn intending investors in beet sugar enterprises to begin their work on a substantial basis and never lose sight of the fact that the agricultural part is the foundation of the beet sugar industry, and says this about us:

It is gratifying to note how well this principle seems to be under-stood in Canada. The agitation for beet sugar has been going on there for several years, and at least four factories are certain to he built this season. In each case the Beet Sugar Gazette is assured that ample tests were made before the work of canvassing began, and that a sufficient acreage has been secured to give the factory a good run from the very first. In most cases 5,000 acres have been con-tracted for three years. The farmers who have undertaken to grow the beets are, for the most part. well-to-do, having been successful in farming, and they are taking the work up intelligently and in accordance with approved principles Few contracts by individuals call for more than five acres, and con-There is no danger, therefore, of lack of help to attend properly to the field work. All that is needed for a good crop is a season of suitable weather.

Moreover, the contracts for the erection of the factories have been let in sufficient time to enable the construction companies to do their work well and thoroughly and have the plants ready for operation when the beets are ripe.

Altogether, the prospects are that the Canadian factories will not have to go through the distressing experiences that some American enterprises did which were planned less conservatively, but will be able to show a profit the very first campaign. For the future development of the beet sugar industry in Canada no better auspices could be desired than those under which the first factories are about to be launched, and if the same conservative course is pursued by those who may come after as was done by the pioneers, the industry will achieve splendid results in Canada.

Sugar Beet Pulp for Cows.

We are just feeding our first pulp to cows. The car came to hand during the late cold snap and some of the pulp was frozen quite badly but it is gradually thawing out now and we will be able to feed it all without loss. The cows did not eat it readily at first, but in a very short time they ate it greedily and seemed to enjoy it as much as ensilage. This was just as ensilage. Almost any new This was just as I feed is not eaten as readily at first by cows, but after a little time they eat it well. I expected the cows would fall off a little in the flow of milk when we changed to this new feed, especially as the weather was colder than usual, but there has been no falling off and one herd has actually gained. This herd has had no silage so far this fall but has been eating beet tops twice each day, and now on the pulp these cows have made a gain. The other two herds have been having silage once a day and beet tops once a day. Now we are feed-ing pulp in place of the beet tops once each day and giving them one feed of ensilage the same as before. There has been no particular change in flow of milk thus far but we have been feeding the pulp as yet only a few days. It certainly has had no bad effect on the cows in anv wav.

Of course I shall be able to determine the value of beet pulp for cows only in a comparative way. A feed of beet pulp or beet tops, for that matter, seems to be the equivalent of a feed of corn ensilage. That is, the other part of the ration remains the same in both instances, vet there is no loss in flow of milk by substituting a feed of ensilage for one of beet tops or beet pulp. Now it costs me 70c. per ton freight on the pulp and per ton freight on the puip and then we have to haul it 4% miles from the station. Will it pay? That is the question. This car of pulp cost me over \$16 freight, besides the hauling. Is it worth the cost ? One thing sure, I am saving a lot of corn silage, but of course that doesn't settle the question, for it is hard to tell what the corn sil-age is worth. This product is us-

THE FARMING WORLD

ually estimated at its cost. But it is certainly worth more for food than it costs to grow the corn and put it into the silo. Some say it is worth \$2.50 per ton as a food. If it is, and a ton of beet pulp will take the place of a ton of silage, then the beet pulp is worth all it will cost me, and more too. There is another way to look at this. If the beet pulp was not fed, then some other food must take its place. In case one was short of silage it must necessarily be some coarse dry food, say hay. Now, how much hay will it take the place of in feeding a ration? This car of pulp will last my three herds of cows nearly or quite two weeks, feeding as we do. Now, \$16 worth of hay would not last very long for the three herds.

I have ordered another carload, that we might have more experience with this product, and hence be better able to judge of its value as a food for dairy cows.—Mich. Farmer.

A Beet Harvester.

Of the Meyer (German) type consists of a triangular share, followed by two gratings forming a scoop. The share is sufficiently large to tear open the soil in two furrows, and the share moves in the direction of a straight line. The gratings receive the beets thrown out from the furrows, and the adhering dirt is separated. Another harvester has a share held by a rod, the upper end of which is sharpened and mounted on two wheels. The share cuts the ground under the beet, raises the root and forces it to slide upon the sharpened rod, where the lump of earth is divided into two, the liberated beet falling to the ground.

A Beet Seeder

This seeder has its wheels arranged in such a manner as to allow its passage upon very irregular soils, at the same time keeping the exact spacing between the rows. The wheels are arranged on special sliding axles connected with universal joints, permitting them to rise or fall with all the unequal surfaces that may be met during the seeder's passage. Another combination consists in a parallelogram device connected with universal joints. This is reported from Germany.

Sarcasm Illustrated — Visitor: "Tommy, I wish to ask you a few questions." Tommy: "Yes, sir." Visitor: - "If I give you the sentence, 'The pupil loves his teacher,' what is that?" Tommy: "Sarcasm."

Double Lateness-Manager (to errand boy who is hali an hour late): "John, how is it you are always late in arriving, and always the first to leave?" John: "Weel, sir, ye wadna hae me late twice a dav, wad ye?"



The Agricultural Gazette

The Official Bulletin of the Dominion Cattle, Sheep and Swine Breeders' Association, and of the Farmers' Institute System of the Province of Ontario.

THE DOMINION CATTLE, SHEEP, AND SWINE BREEDERS' ASSOCIATIONS.

Annual Membership Fees :- Cattle Breeders', \$1 ; Sheep Breeders', \$1 ; Swine Breeders', \$2. BENEFITS OF MEMBERSHIP.

BENEFITS OF AEMBERSHIP. The approximate the second of each publication issued by the Association to which he belongs, a copy of the Swine Record. a copy of the Swine Record. The approximate of the Swine Breeders' Association is allowed to register pigs at 50c, per head; non-members are charged with the second second

FARM HELP EXCHANGE.

FARM HELP EXCHANGE. The object of bringing together employees, of any per-son wishing to obtain a position on a farm or dairy, or any person wishing to employ help for farm or dairy, is requested to forward his or her many strain of the second strain of the second and the second strain of the second strain farm or dairy, is requested to forward his or her many strain or dairy of the second strain of persons wishing to employ help, the following, should be given : particulars as to the kind of works to be done, probable length of engagement, warges the following should be given : experience and references, age, particular department of farm works and the a period strain of the second references, age, particular department of farm works and the a period strain the second references. Age, particular department of farm works and the a period strain the second references age, particular department of farm works and the a period strain the second references age and the second strain the second references age and the second strain works and the second strain the second references age and the second strain the second references age and the second strain works and the second strain the second references age and the second strain the second references age to the second strain the second strain references age to the second strain the second strain references to the second strain the second strain references age to the second strain the second strain references age to the second strain the second strain references age to the second strain the second strain references age to the second strain the second strain references age to the second strain the second strain references age to the second strain the second strain references age to the second strain the second strain references age to the second strain the second strain references age to the second strain the second strain reference

Help Wanted.

Wanted-A married man (without children preferred) to take charge of a 90 acre farm, $3\frac{1}{2}$ miles south of London. Must be a good practical farmer, understanding the care and feeding of cattle. He would have a farm hand to assist him. Permanent job to satisfac-tory man. Wages \$200 a year with brick house and garden supplied. References required. Work to begin at once. No. 938. a.

Wanted-A good smart reliable boy, about 14 or 15 years old to work on a farm near Wiarton. Good wages to smart boy. No. 939. a

Wanted-A man to work on a 100 acre farm. No milking, light work, general farming. Wages \$150 a year. No. 940. a

Wanted.—A married man, with good executive ability, to take full charge and responsibility of an 800 acre farm, of which 600 acres are under crop. Would be required to look after 9 team of horses, cattle and other stock as well as farm machinery, etc. Farm situated 13 miles from Winnipeg and 1½ miles from railway station. To work either on a salary or a man with capital would be given equal inter-est in the farm. No. 941. a.

Wanted .- Two men for dairy farm, must be good milkers, and of temperate habits. Wages \$200 a year. No. 934. b.

Wanted .- Three good men to do general farm work. Farm situated near Manilla. None but those having experience need apply. No. 935. h

Wanted a good single man to take care of stock and do chores around the farm. Good wages to suitable man. Address Jas. Bowman, Guelph. h

Wanted.-A good all round mar-ried man for tarm work, must be good milker and have experience in leeding stock. House and garden supplied. Wages \$250 a year. En-gagement to begin April 1st. Permanent job to suitable man. No. 937. b.

Situations Wanted.

A young man, 17 years of age, born and reared in the city of 10ronto, but who has some experience in farm work, desires position by the year on Ontario farm. He is able and willing to do any kind of farm work. No. 985.

Wanted, a position as manager by a married man, aged 38 years, who has had 25 years' experience as gardener, fruit vegetable and gardening henerally. Understanh the care of poultry and bees. Total abstainer. No. 986. a.

Wanted a position by a middle aged man, as farmer or foreman. Accustomed to the care of horses and cattle, understands farm ma-chinery and is a good market gard-ener. Can furnish good references. No. 987. a.

Wanted by a single man a position as teamster on a farm; understands the care of horses and all farm work. Can furnish good recommendations; good wages ex-pected. No. 988. a.

Wanted .- A situation in creamery or city dairy, making delicious butter, ice cream and cheese, clarify and pastuerize milk and cream.

Ten years' experience, Dairy school graduate and winner of two gold medals. No. 984. a.

I wish to communicate with some person having a farm of 160 to 200 acres to rent, suitable for mix-ed farming. The farm should not be more than five miles from a railway station.

A. P. Westervelt.

Domestic Help Wanted

A young married woman desires a position for the summer either in Port Arthur or Fort William ac-The daughter 11 years old could help with the work. No. 989. a.

N.B.-Where no Lame is men-tioned in the advertisement, apply to A. P. Westervelt, Parliament Buldings, Toronto, giving number of advertisement.

Farmers' Institutes.

Farmers' Institutes. There is head the Superintendent of Farmers Institutes will each week publish matter relating to secretaries and other offleers, general inform-tions to degates, etc. He will also from time to the secretaries and the the various Agricultural to the secretaries and the published results of ex-perine to the published results of ex-perine to the secretaries and the secretarian to the secretaries and the secretarian to the secretarian secretarian and the secretarian provide the secretarian and the secretarian the secretarian and the secretarian and the secretarian and the secretarian and the secretarian and the secretarian secretarian and the secretarian and the secretarian and the secretarian secretarian and the secr

Ontario Agricultural College

This splendid institution continues to flourish and grow stronger and stronger year by year. The past year, however, has witnessed a decided forward movement and we take a great deal of pleasure in noting the progress words for noting the progress made, from the annual report, just issued. Following are some extracts from the report of the President of the col-

lege. The past year has been of marked activity and progress in the his-tory of the Ontario Agricultural College and Experimental Farm,alterations in buildings, new buildings, liberal donations by wealthy men, short special courses, and largely increased attendance of students.

BENEFACTORS OF THE COLLEGE AND THE PEOPLE OF CANADA

The winter of 1901 will be me-morable in the annals of the college, and, we might say, of the Do-minion; as then, for the first time in the history of the country, a man of means made a considerable contribution unconditionally to a public institution directly under the control of the Provincial Legisla-



DR. JAMES MILLS, PRESIDENT ONTARIO AGRICULTURAL COLLEGE, GUELPH.

ture-then the late and much la-mented W. E. H. Massey, of To-ronto, with generous liberality, supported by his brother, Chester D. Massey, and his sister, Mrs. Lillian Massey Treble, placed at the disposal of the Ontario Government the sum of \$40,000 for the erection, heating, lighting, and furnishing of a College Hall and Library. This building to be known as "the Mas-sey Hall and Library," is nearing completion and will be ready for occupation in June next.

This benefaction will be a lasting benefit to our Canadian farmers; and I am pleased to state that it has already drawn attention to the College and has raised it to a higher level in public estimation. In the fall of the same year, 1901

another noteworthy event occurred. Sir William C. Macdonald, of Mont-real, who has done such great things for McGill University by his magnificent gifts to the science department of that institution, and for the people of Canada by his large contributions for the establishment and temporary maintenance of Manual Training Schools in the different Provinces of the Dominion—this liberal, broadmind-ed, and public spirited Canadian decided to give the Ontario Gov-ernment \$125,000 for the establishment of a Department of Domestic Science, Nature Study, and Manual Training in connection with the Ontario Agricultural College, to train Public School teachers from any part of the Dominion, and provide practical education for women, especially farmers' daughters. Surely these two events, in the same year constitute an epoch in the history of the college; and as president I wish to express my heartfelt thanks to the Massey family, Sir William Macdonald, Prof. J. W. Robertson, who has been acting for Sir William, and Mrs. John Hoodless, of Hamilton, who judiciously impressed upon Sir William the importance of training our girls in Home Economics, or the science

and art of housekeeping in its various branches and details.

SHORT SPECIAL COURSES.

With some hesitation, we decided about midsummer to offer two short courses in the winter of 1902,-one in Live Stock and Grain Judging. to commence on the 8th January and last for two weeks; and another on Poultry Raising, to commence on the 10th January and last four weeks.

The experiment is now a thing of the past, and we have to report that both these courses were an unqualified-we might say-a triumphant success. Nothing better could be desired.

On account of the practical work required we were unable to handle more than 30 in addition to the regular students, in the Poultry Department; but we were not obliged to place any restriction on the number to be admitted for Stock Judging; and the result was that we had 220 in regular attendance-110 more than we could accommodate in our live stock class-room. Hence we had to divide the class and repeat the course.

The instruction in both courses was given by our regular profes-sors, the Hon. John Dryden (Minister of Agriculture), and a few of the leading stockmen and poultry-men of the Province.

The classes were composed chiefly of young men, but there was a very fair proportion of men over fifty years of age, all anxious to learn—so anxious that they were at the college every day at eight o'clock for Mr. Zavitz's talks, with practice, in grain judging, or Prof. practice, in gram judging, or rrot. Lochhead's on weeds and weed seeds; from 9 a. m. to 5 p.m., ex-cepting an hour and a half for lunch, with Prof. Day, Dr. Reed, Mr. Cumming, and others in judg-ing horses, cattle, sheep, and swine; and from 2 to to 8 to p.m. listenand from 7.30 to 9.30 p.m., listen-ing to lectures in the class-room. We hope to continue these short

courses from year to year.

ENGLISH, WITH A REFERENCE TO SOME RECENT CRITICISMS.

Now and then we hear through a newspaper or an agricultural jour-nal that the "ideal" agricultural college does not teach anything but technical subjects (sometimes spoken of as the practical branches, such as field agriculture, live stock, dairying, poultry raising, and horticulture), with a smattering of a few sciences-how to handle manure, dig and plow the soil, plant and sow crops, and judge, breed, ieed, and care for horses, cattle, sheep, and swine. That is all a farmer needs, and why should an agricultural college spend time on anything else? Boys at an agricultural college studying English! Absurd! They might as well study Greek or Hebrew. So says our critic.

Professional men, like the writer of this article, should, of course, spend some time in learning how to speak and write their mother tongue, that they may be able to take their place and hold their own in the affairs of church and state; but what do farmers need with speaking and writing? Their business is to dig, delve, and grub; and their education should be strictly confined to the study and discussion of the best methods of performing these interesting oper-ations. They are the foundation of our business, social, and political fabric, as some professional men and editors in their easy chairs love to call them-the stone and mortar down in the earth, to support the beautiful and complicated structure of brick and wood so skilfully erected on top of them. That is their place. There they should stay; and if they must have some knowledge of English, let them go to the public and high schools for it.

In reply I venture to affirm that not five in every fifty of the young men at our college could get the money and spare the time neces-sary to take a High School course and afterwards spend two years at the Agricultural College; and what the Agricultural conege; and what benefit would it be to the forty-and-five, or 90 per cent. that Eng-lish is well taught in the High Schools? If they can learn some English while they are studying technical subjects at the Agricultural College, well and good. If not, they must, like the great majority of the Short Course students in "The Ideal Agricultural College" enter upon the duties and responsibilities of life in gross ignorance of this most important of all subjects to the average citizen in

this country. Further, it is all right, and in fact necessary, for students in a medical college to study the elements of inorganic and organic chemistry before proceeding to apply the prin-ciples of chemistry in the later technical studies of the practice of medicine; but not so, says our critic, with students of agriculture. It is a waste of time for them to study the principles of chemistry. They should proceed at once,

"wi in " ic cl "the prac and lear ed t the orn In that in e place best and whic able long to thing tain beca sults term stan princ tura of in istry grav mist find of ot We cours all st be de towa abov hewe wate the c sav bread be et share thev good show men taugh pract pendi funda botar the s princ chemi ture. the g catio a lim lish. reaso their

Hal are sl to ta own ses si learne good have press Engli a non abo Hebre

Mon gold, t and wi "without a particle of instruction" in "elementary inorganic or organic chemistry"—at once to discuss "the fundamental principles and practices of agricultural chemistry and plant life," not studied or learned by themselves, but "delivered to them." ex cathedra, "without the fripperies of scientific formulas or nomenclature."

In answer to this, I would say that short courses and short cuts in education are all right in their place. They are, no doubt, the best thing for some people, young and old, and for those colleges which cannot induce any considerable number of students to stay long enough for anything else: but to commend them as the ideal thing for all farmers, and to maintain that students of agriculture, because of the hurry to get at results, should proceed at once to use terms which they do not understand and discuss the foundation principles and practices of agricultural chemistry, without a particle of instruction in elementary chemistry, is, to say the least, a very grave educational mistake—such a mistake as I would not expect to find in the editorial columns of one of our best papers.

We are disposed to give short courses their proper place; but to all suggestions that nothing should be done in our Agricultural College towards raising Canadian farmers above the level of mere drudges,hewers of wood and drawers of water for the educated classes of the community,-we emphatically say no. The purely practical, or bread-and-butter, subjects should be emphasized and receive a large share of time and attention, as they do in this college—and with as good practical results as can be shown anywhere else but our young men should, at the same time, be taught in the simplest and most practical way and with as little ex-penditure of time as possible the fundamental principles of chemistry botany, etc., as a preparation for the subsequent application of these principles in agricultural and animal chemistry, dairying, and horticul-ture. They should also, in view of the general neglect of the early education of young farmers, be taught a limited amount of practical English, to give them something like a reasonable facility in the use of their mother tongue.

Half the farmers in this country are shorn of their strength and fail to take their place and hold their own among the professional classes simply because they have never learned to speak and write fairly good English; and all the while we have wiseacres in the agricultural press and elsewhere telling us that English in an agricultural college is a non-essential, a sort of side issue, —about as much use as Greek or Hebrew.

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The Farm Home

328

Johnnie's April Fool.

Pepper in cook's buckwheat dough,

Thought I'd eat plain bread, you

Breakfast time-rolls were all right,

Ma said, "John'll eat all Ellen bakes."

Sugar showed up where it should; My! Those rolls looked awful good;

Did I eat 'em? Not a one; Ate those pepper cakes. My fun

Was most awful hot, Ma said "Johnny, eat a little bread."

But I said the cakes were best, Ma stared, an' so did the rest.

Till she fetched a pail of water.

I can sometimes fool my pa,

But you bet I can't fool ma; Next year, when I want to fool

That was where I thought I caught

I'll take some kid that goes to

-Katharine Hathaway in What to

A Lecture to Farmers' Wives

and Daughters.

Dean a lecture was given by Mrs.

Joy to the ladies living in the vi-cinity of Guelph. The day was de-lightful and the ladies drove in from all parts in such numbers as

to quite nil the large lecture room.

Mrs. Joy in addressing them, said it was a long time since she had been associated with farm life,

but her knowledge of it in previous

years enabled her to understand the

difficulties as well as advantages of

It was her purpose that alter-noon to tell them why certain things should be done rather then how they should be done. Many women all their lives have been do

ing things the wrong way, not wil-lingly so, but because they knew

not the proper method. Science has been defined as organized com-

It has only been of recent years

that science has taken up the mat-

ter of cooking. Now much time

and thorough investigation is being

Each individual ingredient in

food has its own special value and

use in the economy of the human

system and it is a wise and intel-

ligent cook that so combines these

as to furnish the necessary nutri-ment at each meal. The aim of every housewife should be to get

the maximum good from food at

the minimum expenditure of cost,

The quality and quantity of food depends upon the age, condition,

energy and time.

given this all important subject.

mon sense.

those living in the country.

By special arrangement of Prof.

Pa said he'd just take a bite, Wouldn't wait for any cakes,

April Fool! You bet that's me,

Tried to fool the others-Gee!

I'm the kid that foolin' hit.

Put salt in the sugar bowl; Cotton in Pa's breakfast roll-

Didn't do it, nary bit,

know.

her

school.

Eat.

climate, season and habits of life. A man living on a farm and working hard out of doors all day, thrives on food that would bring sickness to a man who spends his time in an office or store. The one, owing to his energetic life needs plenty of starchy foods and fats, while the office man neither requires or craves a large supply of such foods.

It has been found on trial that an average sized man at work will keep well and strong on about the

following daily allowance:--Proteids, or muscle forming foods, 3.5 oz.

Fats, foods which give heat, ener-gy and make fat, 1.7 oz.

Carbohydrates, starchy foods which do largely the same work as fats, 17.5 oz. Mineral salts, foods which make

bone, hair and nails, 1 oz. Water, part of which is contained

in the food, 3 pints. Mrs. Joy enlarged on the im-portant part each special food played in sustaining the body. Very often fats are not considered necessary apart from the heat and energy they produce. They build a dipose or fatty tissue, nourish the nerves and aid digestion.

Digestion means turning solid bods into a liquid mass. Meats foods into a liquid mass. are changes to peptones, and starch to sugar, and if anything intereferes to prevent this change they cannot be taken up and used by the system.

The value of a food depends not only on the nutrients it contains but largely on its digestibility.

Very often the nourishing proper-ties of food are destroyed in cooking because the food has been so prepared as to make it indigestible. There is a saying that "boil meat hard and it will be hard." The meat should be put into boiling water then set back where it will gently cook and at the same time not toughen or harden the tissue.

The same holds good in baking meat. Put it into a real hot oven. to sear the outside so as to keep in the juices, then check the fire.

On the other hand all starchy foods need to be cooked at a high temperature so as to burst open the tiny starch cells and thus liberate the starch. Just examine a well boiled potato and you can see these little cells all broken open. The same thing happens when you pop corn.

Speaking of vegetables Mrs. Joy said they had a high dietetic value. Apart from the sugar, starch and mineral salts they contained-the waste matter-the unavoidable cellulose aids digestions by lightening up the heavier food and making it in a form more easily acted upon by the digestive juices. The cellu-lose also stimulates the action of the intestines.

In all vegetables, the nearer the heart the more woody and poorer the flavor, so in preparing potatoes carrots, etc., we should be careful to take a very thin paring off. Owing to some vegetables containing sulphur, they cannot be eaten by some people without causing flatu-

some people without causing natu-lency or a feeling of distention. Fresh vegetables should cook in 20 minutes, old ones in 30 minutes. Diet should be varied as well as mixed. Entire dependence should not be placed on potatoes to supply the starch. A good house-keeper will familiarize herself with the general composition of the common foods so that she may readily think of suitable combinations and know how to supply a lack of one food by using another of a similar character.

Mrs. Joy prepared and cooked before the class, a ginger bread, a veal cutlet, and parsnips and white sauce.

GINGER BREAD.

½ cup molasses, ¼ cup hot water, 1 tablespoon lard, 2 tablespoon sugar, 1 tablespoon ginger, ½ teaspoon soda, ½ teaspoon salt, I cup flour.

Sift all the dry ingredients to-gether and bake in a moderate oven for 25 minutes, or until done when tested with a broom straw Mrs. Joy says there is no test more reliable than inserting a piece of broom in the cake and having it come out clean.

This cake may be varied by adding raisins or candied ginger and % teaspoon each of cinnamon and cloves. In such a case use slightly more flour.

VEAL CUTLETS.

Trim the cutlets, dredge them with flour, then dip them in beaten egg to which may be added a little water, turn over in bread crumbs which have been seasoned with pepper and salt. Put into a hot fry-ing pan in which there is some lard or dripping and when browned on both sides add a little water, cover closely and cook slowly for 20 minutes.

Veal is in scason from March to November. It is a short grained immature meat, and with some is hard to digest.

PARSNIPS AND WHITE SAUCE.

Scrape the parsnips, cut into stripes and put them on in boiling salted water. Cook until easily pierced with a fork. Drain, put into a dish and cover with a sauce made by melting together one tablespoonful butter and one of flour, add one cup milk a little pepper and salt, cook until it coats the spoon.

At the close of Mrs. Joy's demonstration, Miss F. Hudson in behalf of the lady dairy students thanked Mrs. Joy for her kind and helpful instruction given them during the cooking course and present-ed her with a bouquet of flowers.

Laura Rose.

O. A. C., March 25.

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Hints by May Manton.

GIRL'S FOUR-GORED PETTICOAT, NO 4043.

Little girls as well as their elders have need of well-fitted underwear if the pretty frocks are to appear at their best. This carefully-shaped petticoat was designed with that



fact in view and can be relied upon to give 'entire satisfaction. As shown, it is of white cambric with frill of needlework, but taffeta, Sicilian and gloria are all corect, as well as the various white fabrics. When made from silk or wool a plisse flounce makes the best substitute for the embroidered one although a bias ruffle, gathered, is correct.

The skirt is cut in four gores, so providing a straight back, that can be trusted to launder satisfactorily. To the lower edge is joined a deep gathered flounce that, in turn, is edged with a frill. The upper edge is finished with a pointed yoke band, applied over the material, that can be drawn up to the required size by means of tapes or ribbons.

To cut this petticoat for a girl of 8 years of age, $3\frac{1}{4}$ yards of material 21 inches wide, $2\frac{1}{4}$ yards 27 inches wide, $2\frac{1}{4}$ yards 36 inches wide or $1\frac{1}{4}$ yards 44 inches wide, will be required, with 5 yards of needlework for frill.

The pattern 4043 is cut in sizes for girls of 4, 6, 8, 10 and 12 years of age.

The price of above pattern post-paid is only 10 cents. Send orders to The Farming World.Confederation Life Buildiag.Toronto,glvingsise wanted.

Two of a Kind—A lady gave her little niece on her birthday a beautifully mounted stuffed kitten. "But aunty, I can't take it!" exclaimed the little girl. "Why not?" "Because I've got some little birds." "This cat won't catch your birds; it's a stuffed cat!" "But my birds are stuffed ones, too."

One ounce of Sunlight Soap is worth more than two ounces of common soap.



FOR FARMERS AND STOCKMEN

Flowers in the Garden.

Every garden should have a cornr devoted to flowers grown for the purpose of cutting. The best flowers for this purpose are sweet peas, sweet alyssum, scabiosa, asters, ten-week stock, calliopsis, phlox, nasturtiums and Marguerite carnations.—Eben E. Rexford, in the April Ladies' Home Journal.

Latest Spring Fashion Notes

Sleeves are increasing every day in size, and it seems not at all unlikely that before the summer we shall be wearing the flowing sleeves so fashionable in the early forties.

The prominence of stripes and small checks in all the new spring and summer materials is very marked, and applies to silks and washable fabrics as well as to woolen good.

White skirts will prove popular again during the coming white and cotton stason, for such goods are in full swav, and cool, dainty, freshly laundered frocks will this summer reign supreme.

Braid laces describe well the new laces made of white washable braids for summer gowns. These laces come in lovely patterns and in various widths suitable for skirt as well as for bodice trimming.

For morning and all informal occasions pretty and sensible blouse and skirt gowns will be much more worn than they were last year. Linen, Madras, duck and Holland will be much in evidence for these gowns.—April Ladies' Home Journal.

Hints About the Newest Hats

The new hats remain, in nine cases out of ten, low and flat both as to shape and style of trimminshowing a very decided tendency to fall low over the hair in the back, and to droop well over the edges of the brim at all times. This fashion is decidedly a pretty one, especially in summer hats, as laces and flowers can be used most effectively in this manner. Many of the larger hats show uneven brims, the edges being bound with silk and wired into drooping and downward or sharply upward curves, becominoto any face.-Mrs. Ralston, in the April Ladies' Home Journal.

A Delicious New Salad Dressing

A most delicious dressing for green salads is made by putting one tablespoonful of lime juice in a bowl adding a teaspoonful of celery salt, a saltspoonful of white pepper and a dash of cayenne. Mix in a little at a time, alternately, three tablespoonfuls of oil and two of lime juice. Stir at the time, or the ingredients will separate. Add a tablespoonful of finely cut chives, or an equal amount of chervil or fresh tarragon leaves.—April Ladies' Home Journal.



The Farming World.

A PAPER FOR FARMERS AND STOCKMEN.

D. T. MCAINSH, - - - PUBLISHER. J. W. WHEATON, - - - EDITOR

The Parming World is a a paper for farmers and stockmen, published weekly, with illustrations. The subscription price is one dollar a year, payable in advance.

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that effect is given. All arrears must be paid, **low to Remit.**—Remittances should be sent by cheque, draft, express order, postal note, or money order, payable to order of ThE FARMING WORLD. Cash should be sent in registered letter.

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Results at Kingston Dairy School

The results of the "Long Course" examinations at the Kingston Dairy School, which closed on February 25th, have been published. The successful candidates are: L. Taylor, H. Felons, R. C. Fowler, W. J. Thompson, G. L. Ward, Geo. Hudgin, E. Maynes, T. O. McFadden, ranking in the order named. The following failed in one or more subjects: Chas. Bushby, R. Foster, A. Pattison, Frank Perry, Hugh Warner, A. P. Williams.

Dominion Cattle Dealers

The annual meeting of the Dominion Cattle Dealers' Association was held last week at the Toronto cattle market. The president, Mr. John Dunn, occupied the chair. Through the association's efforts the attention of the Government had been drawn to the condition of the cattle yards at West St. John's, N. B., and they had been greatly improved by the Government, so that there was now noth-ing to complain of. The association had also drawn the attention of the Government to a recent outbreak of anthrax in the Northwest. and had obtained from the Government an assurance that everything would be done to prevent the spread of the fatal disease to Ontario. Through the efforts of the secretary, Mr. F. Hunnisett, the association had been incorporated under the benevolent association's act, which gave them the advantages of a limited liability company without the expense of incorporation. The old officers were re-elected, excepting one who had left the association. Mr. Joseph Gould was elected in his place. Mr. D. McDonald was made an honorary director.

After the regular business was

transacted several subjects of interest were discussed. Complaint be-ing made in regard to the frequent bruising of cattle during transport, the secretary was instructed to obtain information as to the law upon the subject of accommodation of cattle in transport, both in Canada and the United States, so that they might be compared and that the American regulations, which were known to be better than those of Canada, might be made use of in an endeavor to have the Dominion Government make new and adequate enactments for the Canadian trade.

The dealers have a grievance against the Grand Trunk Railway west of Guelph and along the Midland division. On both these lines there were long and needless delays which were of great injury to the shippers, as the cattle were frequently left standing for hours on a siding, in the sun, and they not only lost materially in weight but were sometimes found to have died as a result of this kind of treatment. It was left with the president and the executive to take whatever steps they could to bring the railway to a proper appreciation of their responsibilities in this matter. The president undertook to interview the railway authorities immediately on the subject, and the executive will also consider the question at its next meeting, and adopt whatever steps are necessary to second the efforts of the president, and to have the evils remedied.

A grievance, of perhaps a more serious character, was mentioned by Mr. E. Snell. He stated that last November he had shipped a quantity of cattle and sheep by the Donaldson liner Laconia at Montreal, and that the steamer was then expected to be going directly to sca, as it is provided that all steamers shall do so immediately after the embarkment of their cargoes of cattle. Instead of this, however, Mr. Snell complains that the vessel stopped at Quebec, to take on a cargo of lumber, and that a delay of six days resulted, from which he lost \$700. He made an offer to the company to compromise his claim for \$300, but had been unable as yet to obtain any satisfaction. The secretary was instructed to obtain all the information he could on the law relating to such matters, so that they might be in a position to obtain justice from the various transport companies when their interests were unjustly sacrificed contrary to the provisions of the law.

.....

Bigamy Prohibited—"Boys," said a teacher in a Sunday school, "can any of you quote a verse from Scripture to prove that it is wrong for a man to have two wives?" He paused, and after a moment or two a bright boy raised his hand. "Well, Thomas?" said the teacher, encouragingly. Thomas stood up and said, "No man can serve two masters." The question ended there.



These are the great curses which afflict three quarters of the present generation. Sufferers from either one or all of them mast always feel miserload and some or later become chronic invalida, useless to themselves and a burden and nuisance to friends and family. There is one sure, safe and alwointe curs which you can test without any czrial, oburrendy la Egyptian Regulator Tes, a prepaid on root which we will send you free and prepaid on the train packety this liberal sct. Shall we send you the train packety on the our claims are true, we must have the data state of the state of the root head handment of the state o

TE BOIPTIAN DEUG CO., New York.

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FOR FARMERS AND STOCKMEN



Select Bacon Hogs in Eastern Ontario.

In the issue of March 18th, Mr. W. E. Pollard, referring to a pre-vious letter from the Dominion Live Stock Commissioner, in regard to the low percentage of select ba-con hogs in Eastern Ontario, asked for the particular section supplying this poor quality. In reply Mr. Hodson sends us for publica-tion the following letter from the Geo. Matthews Co., Limited, Hull, Que., dealing with the matter:

"Referring to your letter of 24th inst., enclosing clipping from The Farming World about hogs raised in the vicinity of Bowmanville, we have to say that these hogs are sold to either Toronto or our Peterboro house. We have not had any hogs from that vicinity for some few years.

"The hogs referred to as Eastern Ontario stock were hogs bought east of Belleville, and the hogs more particularly east of Smith's Falls, are raised and sold quite regardless of securing a bacon hog. The reason is that they are used in a large measure for the butcher trade in Montreal, but if the quantity is increased much there will be more hogs than Montreal butchers can use, and the farmers then will find that they must cater to the English taste.

"We find in the hogs that are coming forward now about 50 p. c. are graded as leanest and lean bacon. The former, of course, is the high-est priced bacon. This varies from 20 to 30 p.c. or say an average of hour or say of the total waight of about 25 p.c. of the total weight of hogs delivered to our packing house here.

"If we could secure a large per-centage of hogs that would make leanest bacon, say 75 to 85 p.c., it would mean a great many dollars in the pockets of Canadian farmers to what they are now receiving in not paying proper attention to raising the class of hogs wanted."

Man Wanted

who understands gardening and care of ornamental grounds, to assist on fruit farm. Must be quick, intelligent and handy. Teetotaler preferred. Free house, garden, fuel, milk, and eighteen dollars per month. Pro-testant churches and school close. State whether married, age, experience, references, and whether understands grafting.

M., Box \$407, Montreal.

Testing Seed Corn.

The corn crop is an important one in Canada and farmers should give every attention to having the seed planted of as strong vitality as possible. The Illinois Exper-iment Station is asking the corn growers of that State for information regarding the vitality of the seed they are about to plant and in a circular recently issued give the following plan for selecting and testing the seed corn:

Select from different parts of the supply of seed corn 100 ears of average size and appearance. Take out one kernel for testing from near the middle of each ear, making 100 kernels in all. If the seed corn is shelled pick out from different parts of the bin 100 kernels. Fill an ordinary China dinner plate with sand and pour water on the sand until it runs off the plate. Shake the sand down firm and level in the plate and run off the extra water not retained by the sand. Stick the kernels selected for testing point down in the sand 100 kernels to the plate. Sprinkle a little dry sand over the wet sand, turn a second smaller plate over the first to prevent the too rapid evaporation of moisture and set in a warm place, under the stove or in a warm room. The temperature of the ordinary living room is warm enough to sprout the seed.

PRECAUTIONS.

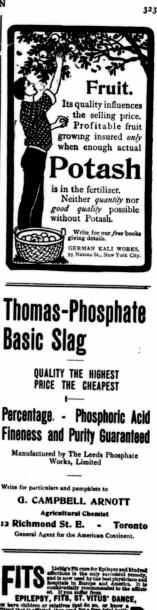
1. If the sand becomes dry sprinkle warm water (not too hot to hold the hand in) over it until the sand is thoroughly moistened. 2. Wait until the kernels are pushed out of the sand by the young plants. Do not dig them up until the end of ten days.

3. Use as fine sand as can be procured. It will hold the moisture longer than coarse sand, hence will furnish more favorable conditions for germination.

It is suggested that by pinning little pieces of paper numbered from I to 100 on the ears and then placing the kernels from the respective ears in regular order in the plate of sand as 10 rows across the plate with 10 kernels in each row, one can easily tell to which ears the kernels belong which do not germinate. Remember that it requires only 10 good ears to plant an acre of corn, and that one bad ear out of 10 may mean 6 or 8 bushels loss at harvest time. All ears whose kernels do not germinate should either be discarded imme-diately as unfit for seed, or they should be given a more thorough trial by testing ten kernels from each of such ears and unless each one of the 10 kernels germinates, the ear should be discarded. If possible test every ear of seed only 10 good ears to plant an acre

If possible test every ear of seed corn; if this is not possible then select the ears so that they will re-present as nearly as may be the average of the seed corn.

At the end of five days 95 per cent. out of the tested kernels should have sprouted. If five per cent. of the kernels fail to sprout it indicates poor vitality. Such seed





Catarrh and Consumption

med troubles and toulaws I nave encour-ent ourse than any specialize the the bill se. As I must soon retire from in the bill is time on, send the means of treatmen ed in my practice, Free and post-pulator of this paper who suffers from these mercous and disgusting diseases. Mil positively give prompt relief and i positively give prompt relief and treate to accest. Address, PROFES

should not be planted as the result will be weak plants, an uneven stand and a poor yield.

Seed Grain Selection.

Mr. John S. Pearce, of London, in addressing a meeting of farmers and dairymen held recently at the Strathroy Dairy School, gave some excellent advice upon the selection of setds. Mr. Pearce is an old seedsman himself and his remarks bear out what we said when discussing this subject a few weeks ago. His remarks are summarized as follows:

Farmers at the present time are not careful enough in selecting, screening and exchanging seed. The first requisite is to obtain good, clear seed, although even then it may not be good, and should be tested before sowing, to see what percentage will germinate. Even in speaking there is often in so-called clean seed there is often found from 5 to 15 per cent. of dirt. Farmers are altogether too anxious to buy cheap seed, no matanxious to buy creap seed, no mat-ter what the quality. From a test made at the Pan-American, Mr. Pearce showed that those who bought seed for half the highest market price were in reality paying from two to eight times as much for pure germinating seed as if they had bought the best. A good they had bought the best. A good fanning mill will keep out a great deal of the dirt. You should buy seed having a strong, vigorous type and good germinating power, which will produce a true type of the variety. In buying you cannot its variety. In buying you cannot always judge by weight, size and color, although these are requisite to good seed. Good seed cannot be sold cheaply, as the grower has to give patient and extensive labor The for years of valuable time. grower must endeavor to keep the strain uniform and place it on a higher level of purity, vigor and perfection. Farmers should grow their own seeds for many crops, such as roots. By keeping some of the best turnips over winter and transplanting them, they could grow the very best seed. The seed gardens of the world are England, France and Cormon rance and Germany, and these will supply any grade of seed the dealers call for. In some cases seeds are bought for less here than the wholesale dealers pay for them in Europe. This kind is quite evidently not first-class. You can even buy seeds that are warranted not to grow. Farmers patronize local cheap men, among whom fair competition is almost impossible, since the appearance of commercial seed is a slight indication of their value. No, you can't tell turnip from rape setd by appearance. You must trust your dealer for that. If you flay your seed they will sow as there are sometimes better, three or four in a bunch which will clog.

The Selecting of Seeds.

It is all a matter of taste. Some of us like to grow the largest pumpkin, some the largest chry-santhemum, some one thing, some another. But all of us like to

plant seeds and watch their growth. The seed of the meanest tomato is much like the seed of the finest tomato, therefore, when seeds are to be selected, the work must be done After a seed has by an expert. grown into a plant, blossomed, and borne fruit, it is too late to decide that the seed was of poor quality. I have met an expert, and he told me many things.

He keeps a seed house in the city of Toronto, and sends his seeds "Rennie's seeds"-all over th And, stranger still, he 'Rennie's world. grows his seeds in every part of the When the snows lie heavy world. upon Canadian soil his growers are hoeing and cultivating and water-ing in other lands. Bulbs from tropical climes, rare flower seeds from sunny countries, hardier seeds

from countries much like our own, these he is always growing under the direction of his foreign represen-When ready for planting, tatives. he gathers them from the four corners of the earth into his Canadian warehouse, inspects and prepares them for the Canadian grower.

And, similarly, he grows all of Canadian kinds seeds on farms in various parts of Canada, collects them, inspects and prepares them, and sends them all over the world-to England, France, Ger-many, and even to far Australia. The seed business in Canada is

growing, the demand for seeds is increasing in every province, but Ontario has always been, and is likely to remain, the seed centre for Canada. The climate of Southern



nd Cly

Post Office, Tel teamboat Landing a the C.P.R. W. BARNET



Ayrahires, imported and home-bri and headed by Imported Tam Gie md, No. 1310 D. A. H. B. Jersey 10 fue celebrated St. Lambert famil and headed by Liegar Pogis of S Ima's Ford A. I.C. Barkahir A.J.C.

at Office, Telegraph way Station, Morth M

A. E. SOHBYE

FOR FARMERS AND STOCKMEN

STOCK.

DAVID McCRAE, Janefield, Guelph, Canada, Im porter and Breeder of Galloway Cattle, Clydesdal Horses, and Cotswold Sheep. Choice animals for sale

J. A. RICHARDSON, SOUTH MARSH, ONT., BREEDER of Holsteins, Dorset Horned Sheep, Tamworth Swine.

E. PANNABECKER,

Fairview Farm, Hespeler. Ont., BREEDER OF REG. HOLSTEINS. STOCK FOR SALE.

W. R. BOWMAN Mt. Forest, · Ontario

Is offering 2 iichly-bred Shorthorn Bulls at \$80; one Polled Angus Bull \$8₅; Plymouth Rock eggs 5 settings for \$2; Vorkshires always on hand.

FOR SALE

Shorthorn Bulls from 10 to 11 months old. Also some choice 2 year old heifers, all red and low set down. JAMES BROWN,

Thorold, Ont.

JOHN DRYDEN BROOKLIN, ONTARIO

BREEDER OF

CRUICKSHANK SHORTHORNS and CHOICE SHROPSHIRE SHEEP

Choice Young Bulls and Ram Lambs for sale. Write for prices.

IMPERIAL HOLSTEIN-FRIESIAN STOCK FARM

A few choice HOLSTEINS, both sexes, bred from an-American prize-winner.

WM. H. SIMMONS, New Durham, P.O., Ont.

Glen Crescent Shorthorns and Oxfords

Two Young Bulls by imp. "Precious Stone" and mp. "Blue Ribbon" for sale. Can spare a few more bxford females.

J. W. WIDDIFIELD, Uxbridge. Ont.

T. Douglas & Sons, Strathroy, Ont. Breeders of Breeders of Shorthorma and Clydesdates 100 Shorthorms to se-lect from. Herd bulls (imp.). Dismond Jubi-lee -28861- and Dou-ble Goit =37892-. April offering - 8 grand young bulls, and cows, and heifers of all ages. Clydesdales-- 1 three-year old stallion and

ear old mare (n foal) Farm one mile north of town.

ANNANDALE STOCK FARM HAS FOR SALE

Holstein Bulls, 1 month to 12 months Improved Yorkshire Boars, 2 months to 10 months Sows, 2 months The above are eligible for registering, and certifi-

ates will be furnish d. 6 Holstein Grade Balls, 2 months to 10 months, rom the best milkers in the Annandale herd. Correspondence promptly answered. Inspection pecially invited.

The Annandale Stock Farm

Tilsonburg, Ont.

A. HAGAR

Belleview Stock Farm, Plantagenet, Ont., breeder of Scotch Shorthorns and pure bred Shropshire Sheep. Young bulls and heifers or sale, also Shearling Rams and Ewes.

Prices Reasonable.

Ontario is most suited for the the growing of garden and farm seeds in great variety, for the production of small fruits of all kinds, and for the cultivation of flowering plants for decoration purposes. Toronto, as the great distributing centre of the Province, will remain the centre of the seed business. Rennie's seeds have been favorably known for 32 years, and they will, no doubt, continue to maintain their leading position.

How to Raise Goslings.

The following information upon the care of goslings will be found of value to poultry raisers: When the eggs hatch do not al-

low the mother or young to leave the nest for the first 12 to 24 hours. The goslings thus become thoroughly dry and strong and may then be safely removed, with the mother, to a large, roomy coop. A goose's appetite for green things asserts itself from the start and the gosligs' first food may be a feed of grass, fed on sod; with it should be given a small amount of moistened cornmeal or oatmeal. Or the first meal may consist of chopped egg and bread crumbs, with chopped weeds or greens of some sort added. A bit of sand and charcoal also improves the ration. Food of this sort should be given regularly three times a day for a few days. They should then be strong enough to take some grain. A ration made up of equal parts, by measure, of bran, middlings, steamed cut clover and cooked vegetables is recommended for this period, although ground corn, oats or barley may be substituted for the bran and middlings. There should be no lack of green food. Nearly any kind of vegetable, weed or grass chopped up fine will supply their wants in this direction.

Goslings are often able to take care of themselves after the first five or six days or a week. They are frequently separated from the mother at this age and allowed to roam. However, they need protection at night for a much longer time and they should receive food regularly if you wish to keep them growing rapidly. They soon learn to forage, but they will not be able to get sufficient food in this way until after harvest. At the age of 10 to 12 weeks they should be well enough developed to go to the fattening pen.

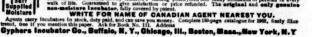
Josh Billings says : "If a man hain't got a well balanced head, I like to see him part his hair in the middle." He also says : "Love is sed to be blind, but I know lots ov phelows in love who can see twice az much in their sweethearts as I can.

Salt



ing poultrymen and many thousands of persons in every or price refunded. The original and only genaine

OXFORD SHEEP



PURE-BRED STOCK NOTES AND NEWS FROM THE BREEDERS

These columns are set apart exclusively for the use of breeders of purchered tock and positive. Any information as to importations made, the sale and pur hase of stock and the condition of bords and focks that is not in the nature of an advortisement will be welcomed. Our desire is to make this the medium for conveying information as to the transfer of purchered animals and the condition of live stock throughout the country. The co-operation of all breeders is earnessily solicited in making this department as unful and as interesting as possible. The editor reserves the right to eliminate any matter that he may consider beer swited to our advertising columns.

Cattle.

About one mile north of the pretty town of Strathroy and about twenty miles west of the city of London lies the Maple Bank stock farm, the property of T. Douglas & Sons. About 100 head of imported and home bred Shorthorn cattle were found comfortably stabled and looking in fine condi-tion. The head of the herd, Dia-mond Jubilee (Imp.)-28861-is in grand form and despite his great weight (about 2600 lbs.) is as sprightly as ever and retains to a wonderful degree his youthful appearance and symmetry. His use-fulness as a sire is clearly demonstrated by the fact of his winning first prize for bull and four of his get at the Western Fair, London, in 1901; besides the first prize yearling heifer, and champion fe-male, 2nd prize bull call, 2nd prize young herd and 2nd prize herd of calves were all of his get. He was sired by Sigmund 2nd, dam Jenny Lind, by Patient, and is closely related to the great William of Orange. As assistant stock bull the firm have recently purchased Double Gold-37852-from the Messrs. Cargill & Son. He is a fine smooth well fleshed youngster, (13 mooth), bred in the purple, being sired by the well-known Golden Drop Victor (imp.)-32065 -dam Golden Strawberry (imp.)

-34134-The large number of cows in this herd represent in their breeding some of the best blood in Great Britain and are an exceptionally fine lot, being as a rule large milkers and possessed of great depth and breadth of body, with that straight level back that gives the finishing touch to the ideal Shorthorn. A number of the older matrons are sired by (imp.) Scottish Victor-2739-(imp.) Warner-2720- and 2739—(unp.) Warner—2720— and Young Abbottsburn's Heir—15947— while a goodly number of the younger cows and some heifers are by Valkyrit—21806—sired by the well known Abbottsford dam Vanwell known Aboottstort dam van-ity, by Village Hero. Hence a full brother to Valient Champion of America 1901, and sold at auction at the close of the year for the handsome sum of \$1,675.00. A few here we have in showchoice heifers are kept in show-yard condition. Bessie's Gem, (three years old) by Valkyrie dam Bessie Dorn-21628-is a wealthy fleshed rich roam heifer that has done well since winning at London, last fall. The red two year-old heifer Lulu Dorn, is of similar stamp and of the same breeding. (Imp.) Graceful 8th and Verbena Blossom, (although only 25 months old) look like making strong opposition for her. Some of the yearlings also look very promising at present. The calf crop so far is

good, being lusty, strong, robust fellows, with abundance of fine mossy hair. The only thing their owners lament is that there are only three heifers in the last twenty calves.

Although sales have been numerous the last few months there are still seven or eight good useful bulls of serviceable age, one very promising bull is a rich roan 15 months old with good Shorthorn character that looks like making both a good show and stock bull. Valkyrie Stamp, a red 2 year-old, (the last calf by Valkyrie) has developed into a grand bull and if he goes into good hands he will no doubt be heard from next fall. Intending purchasers should watch their offering in this journal and

Messrs. John Cousins & Sons, Harriston, report the following Harriston, report the following sales of cattle: One bull to John Thomson, Harrison; one bull to John Little, Henfryn, and one bull and two heifers to John Little, Okoloks, Alberta. Sheep.

Among the sheep sales made re-cently by John Cousins & Sons, Harriston, are: One ram to Mr. Muher, Shipley; one ram to W. Kean, Harriston; one ram to G. Kean, Harriston; one ram to G. Vine, Kirksville, one shearling ewe to A. Stewart, Living Springs, and

two ewe lambs to A. Stevenson, Attwood. W. D. Monkman, Bond Head, Ont., writes: Our stock came through the winter in good shape,

the Shropshire lambs coming now are extra big and strong. The flocks of Silver and White Wyandottes are fine and thrifty,

will have a good many to dispose of in the fall.

Messrs. Cousins & Sons also re-Messrs. Cousins & Sons also re-port, one sow to Geo. Morrell, Harriston; one sow to W. Jewell, Harriston; one sow to J. Taylor, Clifford; one sow to J. McMillan, Palmerston; one boar to R. Wells, Harriston; one boar to J. McMillan, Palmerston; one boar to J. lan, Palmerston; one boar to J. Hallman, Fordwich, and one boar to R. Gamble, Newbridge. Poutry.

to R. Gamble, New Janger Pointy, From the yards on Lady Henry Bentick's Underley Estate, at Kirkby Lonsdale, England, have just arrived 6 beautiful pullets and 2 splendid cockerels of the Buff Or-pington breed. This consignment of choice birds now forms part of the flock on the farm of J. W. Clark, Esq., Onondaga, Ont. They were secured for him by J. H. Grisdale, Agriculturist, Exper-Grisdale, Agriculturist, Exper-imental Farm, Ottawa, who during 1901 visited a number of flocks of this breed in the North of England, where they flourish. He considered the Underley flock the best of those visited.



Market Review and Forecast

Office of The Farming World, Confederation Life Bldg.

Toronto, Mch. 31st, 1902. The fine spring weather of the past week has been exceptionally favorable for business. The prospects for the spring and summer trade are very encouraging. In some cases wholesale houses have had an increase of 10 per cent. in orders for spring delivery. Money is in good demand with transactions on call at $4\frac{1}{2}$ to 5 per cent. most of the loans by banks being at 5 per cent. Commercial paper is discounted at $6\frac{1}{2}$ to 7 per cent.

Wheat

The wheat situation shows little improvement. Though there has been more cable buying, this has been due to the lower prices on this side. The condition of the growing crop continues favorable and at the moment there is little prospect of any big advance in prices. Of course it is a long time yet till harvest and such injury may come to the growing crop that may cause prices to jump up lively. Holders' however, should not count much on this. The Price Current of last week says:

"The wheat market was weak nearly all the past week, largely under heavy liquidation. Lower prices led to increased foreign buying, the price having reached an export basis, but steadier markets here and easy foreign markets soon checked this demand. Besides the heavy liquidation the favorable weather on the growing crop helped to depress prices. The cash domestic demand has been fairly good taking the week altogether. The weakness was mostly on winter wheat, thus steadily reducing the premium which it has been commanding over spring wheat. The market closed with a moderate gain over the low point on Monday."

Locally the market is quiet, millers being inclined to hold off buying for lower prices. Red and white are quoted here at 71c to 72c and goose at 66c, north and west and spring at 72c to 72% east. On Toronto farmers' market red and white bring 70c to 76%c, goose 66c and spring 67c per bushel.

Oats and Barley.

The oat market rules about steady. Prices here range from 41c to $42\frac{1}{2}$ for No. 2 white at outside points. On the farmers' market oats bring 45c to 46c per bushel. Barley is dull and rather easier

Barley is dull and rather easier at 48c to 54c as to quality and point of shipment. On Toronto farmers' market malt barley brings 54c to 60%c and feed barley 53c to 54c per bushel.

No substitute for "The D. & L." Menthol Plaster, although some unscrupulous dealers may say there is. Recommended by doctors, by hoxpitals, by the clergy, by everybody, for stiffness, pleurisy, etc. Made by Davis & Lawrence Co., Limited.



Debentures for \$100 and upwards are issued for terms of one, two, three, four or five years. Coupons are attached for interest from the date on which the money is received at four per cent. per annum, payable half yearly.

INVESTIGATION SOLICITED

The CANADA PERMANENT and WESTERN CANADA MORTGAGE CORPORATION Head Office, Toronto Street, TORONTO

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Peas and Corn

Peas are easier and lower here at about 80c at outside points. On the farmers' market they bring 84c per bushel.

American corn is easier. Canadian yellow is selling at $60\frac{1}{2}$ c to 61c in car lots Toronto.

Bran and Shorts

Ontario bran in bulk has been selling at Montreal at \$18.00 to \$18.50 and shorts at \$21.50 to \$22.00 in car lots. City mills here sell bran at \$18.00 and shorts at \$20.00 in car lots i.o.b. Toronto.

Potatoes and Beans.

Potatoes are still on the down grade. Best car lots are quoted at Montreal at 65c to 68c per bag. Cars on track are quoted here at 55c to 57c. On Toronto farmers' market potatoes bring 70c to 75c per bag.

Beans continue draggy. A car lot is reported offered at \$1.05 per bushel f.o.b. at Chatham during the week and refused.

Hay and Straw.

The hay trade rules about steady, though east where the government has been buying hay for South Africa the market is easier owing to the government having received orders not to ship any hay during April. Otherwise the market is steady enough and Canadian hay sells readily in the English market. Montreal quotations are No. I timothey \$9.50 to \$10.00, No. 2 \$8.50 to \$9.00 and clover mixture \$7.50 to \$8.00 in car lots on track. Baled straw is quoted at \$5.50 f.o.b. at country points east. Car lots of No. I timothy sell here at \$10.25 and baled straw at \$5.75. On Toronto farmers' market timothy brings \$11.00 to \$13.00, clover \$7.00 to \$9.00 and sheaf straw \$7.00 to \$8.00 per ton.

Eggs and Poultry.

Owing to large receipts the egg market has taken a decided drop. At Montreal prices dropped 4/2cduring the week to 11/2c to 12c per dozen for new laid in large lots. Case lots of new laid are quoted here at 12/2c. On Toronto farmers' market new laid bring 12/2c to 13cper dozen.

The dressed poultry trade is over, excepting for the hotel and restaurant trade which is limited. At Montreal fat chickens bring 12c to 13c, geese 7c to 8c, and ducks 1oc to 11c per lb. On Toronto farmers' market live and dressed chickens bring 7oc to \$1.00 and ducks \$1.00 to \$1.25 per pair, and gerse 8c to 9c, and turkeys 15c to 18c per lb.

Live poultry like dressed are scarce. The Canadian Produce Co., Ltd., 36 and 38 Esplanade St. East Toronto, will pay until further notice for live chickens, 8c, for ducks and turkeys 11c, for geese 6c per lb. All must be young birds. For hens 5c per lb. Dressed poultry, dry picked (except hens), ½c lb. higher. These prices are for weight on arrival. Cratesfor live poultry supplied free, and express paid up to 5oc per 100 lbs. of chickens. No thin birds will be taken.

Seeds.

The seed market continues steady under a good demand. Canadian red clover is selling particularly well in England. Montreal selling prices are alsike \$14.00 to \$17.00, red clover \$9.00 to \$10.50 and ti-



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WANTED - BUTTER, POULTRY, EGGS

We have a large outlet, having Twenty-one Retail Stores in Toronto and suburbs. Payments weekly. Established 1854.

The WM. DAVIES CO., Limited Head Office-Retail Dept.

Correspondence invited. 24 Queen St. West TORONTO

mothy \$7.00 to \$8.50 per cwt. Here in job lots alsike sells at \$10 to \$17.00, red clover \$7.00 to \$9.75 and timothy \$7.00 to \$8.25 per cwt.

Maple Products

There is reported to be a big run of sap in the Eastern Townships and other parts of Quebec. Receipts have been large at Montreal where genuine new syrup sells at 6oc to 70c wine measure in tins.

Cheese

The cheese market remains quiet but firm. Only a limited business has been done. At Montreal holders of fine westerns are asking 114c to 11%c and under grades are selling at 10¹/₄c to 10¹/₄c. The exports from May 1st, 1901 to March 22nd 1902, show a decrease of 261,755 boxes and the combined exports of the season to date from Canada and the United States show a decrease of over 400,000 boxes as compared with a year ago.

Butter

The English butter market is steady at an advance of 2s, but no Canadian is offering there. The Trade Bulletin has this to say of last week's butter trade:

"The butter market is divided into two sections. That pertaining to choice fresh new milk creamery is firm, owing to scarcity of supp sales of which have been made to day at 211/c to 22c; but the outside figure is difficult to get except for anything fancy in small tubs, $21\frac{1}{2}$ c being a fair, top figure, and we quote 21c to $21\frac{1}{2}$ c. The market for the other section which comprises secondary grades of winter and fall creamery, is weak and lower, in fact demoralized, with sales all the way from 201/c down to 19c, and even 181/c and 18c has been accepted for the least desirable qualities. These figures show a drop of 1¹/₄c to 1¹/₂c in about four weeks. The low grades of dairy are pretty well all worked off. Creameries that intended to start on the new season on April I, commenced about March 15 to 20, and those intending to commence on April 15, will start on April I, owing to the season coming on earlier than was looked for."

Choice grades of creamery and dairy continue quite scarce here and the market is quite firm with a good demand. Creamery prints sell at 22c to 23c and solids at 21c to 22c and choice dairy 1b. rolls at 18c to 20c, large rolls at 17c to 17% and tubs at 14c to 16c to the trade. On Toronto farmers' mar-

Local opinion is strong in favor of Pyny laisam. It cures coughs and colds with absolut artainty. Pleasant to take and suss to cure. Manu scured by the proprietors of Perry Davis' Pain

PAGE METAL GATES are ao low in price no one can afford to use wooden ones. Light, and yet strong enough to sup-torts heavy man on the end while he swings around the order without causing them to sag. They are neat in appearance, will last a lifetime. Will not sag or get rickety, They are supplied with latches which allow them to be open-dether way and areself acting. The only good metal gate ough in price for Seneral farm purposes. We also make Farm and Ornamenta y Netting, Nails and staples. The Page Wire Fence Co.Limited, Walkerville, Ont hat is

ket pound rolls bring 18c to 22c and crocks 15c to 17c per th.

Cattle

The cattle situation has ruled strong during the week especially for choice quality. On Friday, however, it being a holiday very Friday, little business was done and re-ceipts on Toronto cattle market were light, comprising 251 cattle, 676 hogs, 26 sheep and 7 calves. Trade was about the same as it has been during the week, that is firm for nearly all grades of good stock. The quality of the fat cattle has been fairly good with trade active. One choice lot of 15 cattle, 1200 lbs. each, sold at \$5.75 per cwt. Prices for feeders and stockers are firm. Milch cows of good quality are wanted and sell at \$45 to \$50 each. Good calves are scarce while inferior (bobs) are too plentiful. Good veal calves are wanted.

Export Cattle.-Choice loads of these are worth from \$5.40 to \$5.65 per cwt., medium exporters \$5.00 to \$5.35, and light ones \$4.65 to \$4.90 per cwt. Heavy export bulls sold at \$4.12% to \$4.50 and light ones at \$3.40 to \$3.80 per cwt., choice export cows sold at \$4.00 to \$4.25 per cwt.

Butchers' Cattle .- Choice picked lots of these, equal in quality to the best exporters, weighing 1,100 to 1,150 lbs. each, sold at \$4.90 to \$5.25 per cwt. Choice picked lots of butchers' heifers and steers 925 to 1,025 lbs. each sold at \$4.60 to \$4.80, good cattle at \$4.50 to \$4.75, medium at \$4.00 to \$4.40, inferior to common at \$3.75 and to \$4.25 per cwt.

Feeders-Light steers, 900 to ,000 lbs. each sold at \$4.00 to \$4.60 per cwt.

Stockers—Yearling steers weigh-ing 400 to 800 lbs. each sold at \$3.15 to \$3.90, and off colors and those of inferior quality at \$2.80

to \$3.00 per cwt. Calves.—These are in steady de-mand at Buffalo. Good to choice veals bring \$7.50 to \$8.00 per cwt. At Toronto market good to choice calves bring \$4.00 to \$5.50 per cwt. and \$2 to \$10 each.

Milch cows and springers sold at \$27 to \$50 each.

Sheep and Lambs.

The market for sheep and yearling lambs has ruled dull. Sheep sold at \$3.00 to \$3.75 per cwt. and yearling lambs at \$4.25 to \$5.25 per cwt. Spring lambs are worth from \$2 to \$6 each.

In the centre of Africa the fame of Pain Killer has spread. The natives use it to cure cuts wounds, and sorains, as well as bowel complaints Avoid substitutes, there's only one Pain-Killer, Perry Pauls / 900 and fame

one Bottle Caustic Balsam Can Do Wonders

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Ridgeway, Ia., Jan. 23, 1902. Ridgeway, Ia., Jan. 23, 1902. The Lawrence Williams Co., Cleveland, O.: Will you please be kind AUTUR'S CAUSTIC BAL-State of the Control of the State of the Control State of the State of the State of the State of the State bet the directions. I am a horse trainer, and have used the Balsem on two cases, one of splint on a val-uselt the State year. The result could not be better, and I still have enough of the remety left to cure all the lame horses in the county. I am a great admirt of your remedy. CHAS. DOTY.



Hogs

Hogs show a little advance during the week selling on Friday at \$6.12½ for selects and \$5.75 for lights and fats. Unculled car lots sold at about \$5.90 to \$6.00 per cwt.

For the week ending April 5th, the Wm. Davies Co., Toronto, will pay \$6.25 per cwt. for select ba-\$6.00 for lights, and con hogs, \$6.00 for fats.

The Trade Bulletin's London cable of March 27th, re Canadian bacon reads thus:

"The market is firm and 2s higher, with a good demand for Canadian at the advance."

More business is reported doing in Montreal during the week more particularly in light roadsters and heavy draft horses. Heavy workers have sold all the way from \$150 to \$275 each and light drivers and saddle horses from \$130 to \$200 each.

A fairly large business was done at Grand's last week. Three car loads of workers and general pur-pose horses were sold. Prices were pose norses were sold. Frices were not as good as the week previous being about 210 per head lower. Some forty drivers were sold at about the prices of the previous week. They were of good average quality.

Palatable as Cream. — "The D. & L Emulsion of God Liver Oil, for those suffering fro severe coughs and bemorrhages, is used with ti greatest benefit. Manufactured by the Davis Lawrence Co., Ltd.

FOR FARMERS AND STOCKMEN

" What's in a Name."

On another page of this issue appears a very unique design calling attention to a line of harvesting machines in which the O.K. stands out prominently, emphasizing the fact that the machines advertised are O.K. in name as well as fame all over the world.

Readers of The Farming World should write for "The World-Centre," a beautiful and interesting book which is mailed free to all mentioning the paper.

The Evans Seed Co., Hamilton's reliable seed house whose advertisement appears on the first page, an-nounce some very special lines of seeds and roots. Send name on postcard for their beautiful catalogue.

Wm. Rennie, of Toronto, has a spe-cial advertisement for their noted Waverley Oats and are offering \$100.00 cash in prizes. See their advertise-ment for conditions on back cover. Farmers' sons especially should take advantage of this offer and send in their answers.

Nothing polishes window-glass like newspaper. After washing and drying them, rub with newspaper, and a high polish will be the result; looking glasses, glass globes, lamp chimneys and the glasses of spectacles all may be cleaned in the same manner. All this virtue lies in printer's ink.



---- For sale by all first-class dealers.----

