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### FARMING



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# FARMING

VOL. XV.

#### FARMING

AN ILLUSTRATED WEEKLY JOURNAL DEVOTED TO FARMING AND THE FARMER'S INTERESTS

Published every Tuesday by

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### TOPICS FOR THE WEEK

#### **Our Clubbing List.**

	Regular price.	With FARMING
Canadian Magasine	\$2 50	\$2.50
Toronto Weekly Globe	1.00	1.50
Toronto Weekly Mail and Empire	. 1.00	1.40
Farm and Fireside	1 00	7 40
Montreal Daily Witness	3.00	300
Toronto Morning World .	3 00	3.00
Montreal Weekly Witness	1.00	1.60
Family Herald and Weekly Star	. 3.00	1.75
London Weekly Free Press	1 00	1 75
London Weekly Advertiser	1.00	1.40
Ottawa Semi-Weekly Free Press	. 1.OU	1 60
Hoard's Dairyman.	1 00	1 75
Rural New Yorker	. 1.00	1.85

#### Professor Craig's Successor,

Mr W. T. Macoun has been appointed horti culturist at the Central Experimental Farm, Oltawa, to succeed Prof. Craig lately resigned. Mr Macoun is a son of Prof. Macoun of the Geologi cal Survey, and has been a member of the Experi mental Farm staff for many years, having had charge of the experimental plots under Dr. Saunders' special direction. In this department he gave special attention to experimental work in horticulture and more particularly in connection with small fruits, which should enable him to do effective work as Prof. Craig's successor.

#### A Butter Bonus.

At Ottawa last week a motion was presented to the House of Commons asking that the Government grant a honus of one cent per lb., to be paid to the farmers direct, upon a specified quantity of creamery butter to be exported to Great Britain while fresh and in a condition to make a name for i self All expenditures of money, which have for their object the development of an im portant industry are to be commended, but when it comes to granting money in the way of a bonus the development of the industry is put upon a wrong basis. There is no more need for a bonus to develop our export hutter trade than there is for one to develop the trade with the Klondike. If our creameries turn out a good quality of butter, and every facility is provided in the way of cold storage on board the car and hoat for transporting it direct from the producer to the British con-sumer, there is not the least need of a bonus in order to develop the trade. True, a bonus might serve to stimulate the export butter trade for a while, but as it could not be continued for many years, the reaction when it was removed would be disastrous. Its effect would be akin to that pro-

#### MARCH 29TH, 1898.

duced on some "bo m" town after the boom has ceased

If our export butter trade cannot be developed without the aid of a bonus it would be better not to attempt to develop it at all. Our cheese trade developed from an almost obscure beginning to its present large extent without the aid of a bonus, and there is no reason why the butter trade should not do the same thing if properly managed Besides, there is not the least ground for alarm in regard to its growth - Our export butter trade has made rapid progress during the past three years, having almost trebled in that time, and the pros pects are that the present year will witness a wonderful expansion of this trade. If the quality is right and shipments are regularly made the trade is hound to grow. Then why talk about a bonus.

#### The Ontario Minister of Agriculture.

Now that the result of the election in Russell County has made it certain that the present Government will remain in power for the next four years, there can be no two opinions as to who should be Minister of Agriculture. We believe that we are voicing the wishes of the large majority of the farmers of this province when we state that the present incumbent of that office, the Hon. John Dryden, should be retained. It is a matter of deep regret that an element of doubt has ansen in regard to the matter as a result of the uncertainties of a general election, but the Government has it within its power to open up a constituency for him, and we believe that it is due to the important agricultural interests of this province that it should do so if Mr. Dryden is willing to remain in office.

The Hon John Dryden has served his native province faithfully and well, and we have no hest tation in stating that no one in Ontario has done more for the advancement of our agricultural interests than he. Being a practical and successful farmer, as well as a thorough business man, he has combined liberality and an intimate knowledge of every branch of the work in his management of the Department of Agriculture. This has enabled him to deal generously with its various branches, and at the same tune to expend wisely and effectively the moneys allotted to his department.

In looking over the legislation of the past few years in the interest of agriculture, we find his guiding hand in every portion of it. Among the acts of legislation introduced by him may be men tioned an act for the prevention of yellows in peaches, and of black knot in cherries and plums ; an act for the prevention of the spraying of fruit trees while in full bloom, in the interests of beekeepers, an act for the protection of fruit trees from the San Jose scale, passed at the last session. In addition he has by aniendment improved many of the acts on the statute books relating to agriculture, the whole tending towards more effective-ness and greater consolidation. Mr. Dryden has during his administration been instrumental in greatly enlarging the scope of work at the Ontario Agricultural College, and making it more effective. He has given every encouragement to the dairy industry by grants to the various dairy associations, by inaugurating the travelling dairy, and by establishing successful dairy schools at Guelph, Strathroy, and Kingston He has established twelve fruit experimental stations in the province, and organized a spraying outfit to give the fruitgrowers practical lessons on the advantages of spraying. Other acts of his, worthy of note, are the appointment of a Provincial Road Instructor, the improvement of the Farmers' Institute system and placing it in charge of a permanent superin-

tendent, the development of Northwestern Ontario, and the establishment of the Pioneer Dairy Farm at Wabigoon, the distribution of more reports on agricultural subjects among the farmers, and the assistance rendered Hon. Mr. Fisher in removing the quarantine regulations between Canada and the United States. All these acts will be of lasting benefit to the Ontario farmer.

Therefore, taking everything into consideration, it would be a serious mistake to deprive the provnice of Mr. Dryden's services at this juncture if they can be had, when there is so much more to be accomplished in developing its agricultural resources. A new man would be at a decided disadvantage till he had become thoroughly familiar with the various branches of the work which would require a year or two, and meanwhile the farmers' interests would suffer. Our agricultural nterests are of the utmost importance, and we ibelieve it to be the duty of the Government, now that it has a new lease of power to make a special effort to retain the present Minister. Mr. Dryden is as yet a comparatively young man and capable of carrying on the good work he has been doing, for many years to come. His wisdom and excellent judgment not only enable him to inaugurate legislation, but to carry it to a successful issue.

There is much more that we could say, but we have said sufficient to show our views in regard to the matter and which we believe to be the views of every unbiased person who has the interests of Ontario agriculture at heart. We have no axes to grind nor favors to ask in taking this view of the situation, and only take the stand we do because we have the best interests of the farming community uppermost in our thought. We have no political leanings in the matter, whatever, and had the Opposition been returned to power we would have felt just as free to advise appointing the best man the party could furnish as we are now free to advise retaining Mr. Dryden, whom we consider to be the very best man for the position on the Government side of the House.

#### Farming in New Brunswick.

#### By Cot. D. McCRAE, Guelph, Ont.

It is difficult in a hurried winter visit to form a good idea of the farming capabilities of such a province as New Brunswick. The mornings are taken up with a run on the train or a drive in a sleigh. The fields are deeply covered with snow, so deeply sometimes that the fences are covered. Afternoons and evenings are devoted to farmers' meetings, and one finds there from the discussions that the modes of farming in the province by the sea differ from those in vogue in western Ontario. The land is hilly and rolling, the timber small, and the clearings have not recently been much extended. There is still a large part of the prov-ince uncleared. Of the seventeen million acres only some ten millions are claimed and much of this owned by lumbermen. About seven million acres are still in the hands of the Crown. The country is more after the style of Muskoka than of any other part of Ontario, just about as hilly but with fewer outcrops of rock. Much of the soil is very good, clay loams and sandy loams, the former not yet thoroughly drained. While there is in some parts much good land, it is often in small fields uroken by hills and valleys. There is much beautiful scenery-it is a land of evergreens. Many kinds of spruce, fir and pine abound, and they grow readily everywhere.

With many farmers, farming is only a part of their work. Formerly wooden ships were built on almost every creek. It was a paying trade, and

many farmers worked at this employment. This has become a trade of the past. Lumbering is still active. Last year there was more lumber cut than ever before in the province. Fishing takes up part of the time of those on the coast and along the rivers. Farming, with those who have kept steadily at it, has done well for them. It has not done so well for the man who was fisherman and lumberman when he could get employment, and who only farmed when he could get nothing else to do. The land has been settled for a long time. At few meetings would any farmers be found who had come from Britain, or who had become familiar with the best modern British farm-They have no such emigration of farmers mg such as we have almost yearly in western Ontario, and we seldom think how much benefit this is to our agriculture.

The farm homes are built of wood; often shingled on all sides and neatly painted. They are small, comfortable, and nicely furnished homes. The people are very hospitable. The barns are small and laid out without much regard for economy in handling feed. Bank barns are Stables are low and dark. Many have their few. cattle in places where the only light is admitted when the door is opened. Sheep are few, and mostly of the long-tailed breed. Cattle are mostly of the dairy breeds; the natives resemble the Quebec cattle, and some of them are good dairy animals. Few feed well enough or with due regard to economy. Matsh or interal hay, with or without meal, is the chief winter feed. There has been of late years an advance in dairying, and farmers are paying more attention to the feeding of their stock. Excellent roots can be grown; turnips, mangolds, and carrots are of the very best quality. The development of root-growing and cattle-feeding will do much for farming in New Brunswick. There are few seed drills used. The grain is all sown broadcast. Five to seven bushels of oats in some places are sown to the acre. Self-binders are almost unknown. Many farmers take in their grain loose. They thresh with small machines and market the grain often when poorly cleaned. With all this the land is rich enough to give as much as fifty bushels of wheat per acre and as heavy as sixty six lbs. per bushel. There is a future for New Brunswick in farming when they adopt the best modern methods.

#### The Chair of Natural History at the Ontario Agricultural College.

The chair of Natural History and Geology at the Ontario Agricultural College has not yet been filled. It is surely about time that the Government were taking steps to fill the vacancy. We understand that there are a number of applicants for the position, and among them one or two quite capable of filling it. There need, therefore, be no delay for the want of good material to choose from, and the sooner the appointment is made the better if the students of the present year are to get any benefit from it.

Why should there be any hesitation in regard to the matter? The Government's duty is quite clear. Only a man of scholarship and experience is competent to fill the position, and when such a man can be secured there is not the least excuse for delay. The position is one of the most important connected with the college and demands a man of mature judgment, ripe scholarship and experience. These qualities were well marked in the late Professor Panton, and his successor should be one possessing them to a large degree in order that he may creditably follow in the footsteps of his predecessor. Aside from the work of lecturing to the students, which is in itself important, the professor of Natural History will have to deal with many problems affecting the interests of the agriculturist, and especially those of the fruit-grower. Only a person having a wide training and an intimate knowledge of the work would be competent to deal with these problems satisfac-

torily. We believe that among the applicants are a number of recent graduates of the college who

have given the subject of Natural History and Geology more or less special attention. We do not wish to lay down the principle that no, ap pointments to vacant professorships should be made from among the graduates of the college. A large number of the present members of the staff are old graduates and are rendering excellent service both to the college and to the country. But there are always exceptions to every rule and we believe that the present instance is one of them. None of the graduates who are applicants for the present vacancy possess in any marked degree the qualifications necessary for filling the chair of Natural History and Geology acceptably. If such be the case the appointment should go to someone outside of the college and its graduates. A graduate in the Natural Sciences from one of our leading universities with a wide practical training in the branches he has to teach is none too good for the position, and if such an individual can be secured the people would heartily support the Government in making the appointment. Such a person would be a source of power to the college and would strengthen its position as one of the leading agricultural institutions of learning on the continent.

If what we hear is true, the tactics employed in some quarters to get a favorite into the position are to be deplored. We would not have taken the strong stand that we do in regard to the affair had we not felt that the best interests of the college and of agriculture were likely to be sacrificed to the selfish motives of a certain section of the community who appear to be taking advantage of the present unsettled condition of the Government to elevate to the vacant chair a young graduate of the college, who, whatever his other qualifications may be, has not the experience nor the scholarship necessary to fit him for the position. We therefore sincerely hope that the Government will not be influenced in making the appointment by any other motives than those which would be in the best interests of the college and of agriculture generally.

#### The Poultry Industry of Canada.

#### By THOMAS A. DUFF. Toronto, Ont.

#### (Continued from last week.)

#### HOW TO SET A HEN.

Perhaps some of the readers of this article will say that it is quite unnecessary to write anything upon this subject, but I submit that it is of great importance, and many mistakes are made by those who do not stop to consider the matter.

When a hen steals her nest, it almost invariably follows that she brings home a far greater number of chickens than if she were set in the poultry house and a nest made for it. For this reason, I prefer to conform to nature as much as possible. would recommend that some sods be cut in the fall before the ground is frozen, and stored away When you have a broody hen, for spring use. take a box and put one of these sods into the bottom of it. If it is very dry, I would moisten t. Put the grass side down. On top of this place some fine hay; put a couple of china eggs (which should be first warmed) into the nest and then set your hen upon them Leave her there for twenty-four hours, and if she is comfortable and has the appearance of being willing to remain for the three weeks, I would give her the eggs Before setting her, however, I would recommend that she be thoroughly dusted with insect powder and again about two weeks before the hatch is due. During the process of incubation, I would feed her upon whole corn, and be sure that plenty of water is within reach, otherwise if she gets very thirsty, she might cat the eggs in order to quench her thirst.

#### FEEDING YOUNG CHICKS.

After the chickens are hatched, do not remove them from the nest for twenty-four hours. You may then safely put them into a coop, constructed in such a manner that the chicks may run outside at will, while the hen will be obliged to

remain within the coop I would recommend a coop built as follows: Size  $2 \times 2\frac{1}{2}$  feet, with a tight roof, removable bottom, and a wire front, one inch mesh, with a door in front or side that can be raised high enough for the hen to come out, or just enough to allow the little chicks out. The first day they are kept confined ; then for the next few days, after the dew has dried off, the little fellows are allowed to come outside if the weather permits. In case of rainy weather, the projection in front is to keep the rain from beating in. Be sure the floor is always dry. Treat the hen and chicks every ten days for lice, dusting them thoroughly with some kind of insect powder. I would recommend Dr. Hess' "Instant Lice Killer." The coops should be whitewashed both inside and out frequently. For chicks, when first hatched, the best food is

hard boiled eggs and bread crumbs, rubbed up fine and moistened with a little milk. The chicks should be ted often, but given little at a time. After a few days crushed wheat, granulated oatmeal or cracked corn could be given. Milk is preferable to water, and food or drink must always be supplied in scrupulously clean vessels. Place the coop with the brood on fresh ground, in a place sheltered from wind, keeping the hen confined for about ten days before allowing her to wander off with the chicks. If she be allowed her liberty earlier, the strength of the chicks will be overtaxed, and they are likely to be exposed to wet, and the danger from hawks is increased. Keep on hand several coops for the use of the broods as you take them from the nests. A very generous quantity of food must be given from the time they leave the nest until the tail and wing feathers are grown, as feathering is a great drain upon the system, and it requires plenty of food to sustain it. After the chicks have got their feathers, see that they are well supplied with plenty of grain. A soft food, composed of bran, shorts, oat chop and barley meal should be given once a day, and twice a day all the grain they will eat up clean. Change the diet often, however. Be sure to see that the chicks have plenty of green food.

A convenient arrangement for feeding chicks is to have a coop four feet square, made of lath, or, if preferred, it may be covered. Leave an open-ing at the lower part so that the chicks can run in and out, and keep a feed hopper full of feed in the coop all the time. The object is to have feed where the chicks can reach it at any time, but beyond the hens. It is an excellent contrivance for yards that contain both hens and chicks, as the chicks will be in no danger of being interfered with by the larger fowls.

Give the chicks plenty of ground green hone. It makes more flesh, and stronger, healthier chicks than any other feed.

#### Health on the Farm.

The following extract from an address by Mr. G. C. Creelman, and which is contained in the report of the Agricultural and Experimental Union for 1897, corroborates what we said in FARMING for March 15th upon the above subject :

Being now engaged in the insurance business, I come across printed proceedings of meetings of insurance inspect-ors and medical men who are interested in the work of in-surance. In a list of what they considered the best risks for surance. In a list of what they considered the best risks for life insurance, I was very much surprised to find that they placed the farmer very low on the list. We hear at all times the claim made that his profession is the most inde-pendent of all and the healthiest. I have heard that since I was large enough to hear. Entering into discussion with a physician, he explained why he considered farmers not as good risks as others. He said : (1) That the farmer paid too little attention to the sani-tary conditions of the house. They had low rooms without half enough air. (2) Their rooms are very poorly ventilated ; the windows

half enough air. (2) Their rooms are very poorly ventilated; the windows are low and small, and often placed directly opposite the door; when open there was a draught; when closed no good means of ventilation could be had. (3) In many cases the farm buildings were situated too close to the house. Nearly all cases of lever, especially of ty-phoid fever, could be traced to the influence of streams com-ing from the stables. In case of sickness the patient was fre-quently put into the smallest room, and the room off the kit-chen where it was supposed to be the warmest. In this way they select the poorest room in the house. It would be

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better to go upstai's. By putting the patient in the little room off the kitchen the disease would have the very best chance of killing the farmer. The house is often too small. chance of killing the farmer. The house is often too small. There are sometimes two or three in the same room, and frequently in the same bed. People that live in the city or town, although they have rent to pay, never think of

town, atthough they have tent to pay, never think of crowding. Farmers should have some sort of enjoyment to change the routine of life, and break the monotony. Monotony was one of the conditions under which even healthy people did not thrive well. There should be enjoyment on the did not thrive well. There should be enjoyment on the farm in the evening. Especially those who have been at the college where they have seen things as they should be, should look into the sanitary conditions of their own homes very carefully. We know how to tile-drain our land and how to ventilate our buildings properly. The outer buildings should be a good distance from the house. Some farmers in the Southern States are going to the trouble of putting up a covered roof from the barn to the house before they will put up with the unhealthy condition of the farmhouse by its being situated close to the stable.

It will be a surprise to many to learn that the farmer is very low on the list of those who are considered to be the best risks for life insurance. This condition of things is largely due to themselves. They have, in many instances, completely ignored the laws relating to sanitary conditions, with the result that to day the farmer, instead of heing classed among the best life insurance risks, is down low in the scale. This is something that every farmer should consider, not because it is necessary to secure a better position among insurance risks, but because he owes it to himself and to his family to provide such conditions, on the farm as will be conducive to good health and freedom from disease.

#### Hired Help on the Farm.

#### Editor of FARMING :

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Re your comments on my article on "lired Help on the Farm," I grant you a farmer would be more likely to keep a married man longer than a single one, which would be a great advantage, as he would soon get into the farmer's ways, and things would naturally run smoother than when be a great advantage, as he would soon get into the farmer's ways, and things would naturally run smoother than when one is always chopping and changing, as is the case where single men are htred. But your argument in reference to the wages goes to support my claim that a matried man is too expensive a luxury for the majority of farmers at pres-ent. For, if it costs a farmer \$10 a month for a man's board and washing, it would cost a matried man more. Therefore my estimate of \$250 is far too low, as it would cost him more than that to board himself and wife, without reckoning on such triffes as children, clothing, etc. Then there is another cash outlay in my favor, that of the cost of erecting a cottage, which would mean \$300 or \$400 more on to the mortgage. Then, sir, I hardly think you refute my argument of poverty by referring to the same class in England, for amongst them it is dreadful, and they seldom see meat more than once a week, if that. One young fellow who has come to this country tells me he used to consider himself lucky if he got a "slice of bread and a carrot for his breakfast." Now, I am sure we do not want that state of things with us. So until farmers go in for more in keeping with their incomes than the more luxuri-ous article, a matried man. W. T. HARRISON.

W. T. HARRISON. Ivan, Ont., March 14th, 1898.

#### Editor of FARMING :

Having noticed that quite a bit is said about hired help Having noticed that quite a bit is said about hired help on the farm, and that the single man is being badly trampled upon, I thought I would say a word in his behalf. In re-gard to morals, I cannot see why, if a man is married, he is going to be any better in that way. I think that there are just as bad married men as there are single men; and, as to a single man demoralizing the family, I cannot see that he can do such a great deal more harm than a mar-ried man. The farmers' boys are with the hired man through the day, when he is working in the fields, and I think that is the time when he uses most of his bad inink inat is the time when he uses most of his bad language. Another thing—what are we going to do with our single men who are too young to get married, if we are all going to hire married men? I think that this married hired man cry is another blow that will help to drive our young men off the farm, and which we are all trying to prevent.

#### March 14th, 1898.

### R. B. MARTIN.

We are pleased that this hired man question is exciting some interest. It is gratifying also to know that Mr. Harrison agrees with us in regard to the farmer being able to keep a married man for a much longer time than a single man. Then. his remarks in reference to intensive farming are quite in keeping with our contention. The only difference being that he is looking forward to a time when a more intensive system of farming will

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be practised, while we believe that a more intensive system of farming should be begun by our farmers at once. If it is the right line of farming to adopt, why put off practising it till the indefinite future? Our remarks in regard to wages were made entirely from the farmer's point of view. Nevertheless, we believe there are many married men in our towns and cities who would be glad to work on a farm for \$250 a year and a free house.

In regard to the statement of Mr. Martin that "this married hired man cry" will drive our young men off the farm, we are inclined to the very opposite view. We might ask, what becomes of the young single men who are now employed on our Do they remain single all their days and farms? stay on the farm? We venture to state that not one per cent. of them do. After knocking about for a few years with several farmers, they very often drift, no one knows where, and if they were traced through the later years of their lives, may probably he found located in some poor house on some back street in our large cities, trying to eke out a precarious existence for themselves and their families on whatever odd jobs can be had. Of course, there is the exception in the young hired man who is the son of a farmer, perhaps in the locality in which he is working. He has special locality in which he is working. He has speci-advantages over the young man who has to deper entirely upon himself for a living and whether h works on the farm or not, must rely upon his ow resources. We repeat, that it would be better for this young man, for the country, and for the farmer who employs him, if after working a few years his position were made more permanent by being given an opportunity to settle down for life if he wished. We are sure that it would be a decided gain to the farmer to have a steady man with him year after year whom he could trust and who We understood all about the work on the farm. have known of several instances of married men who have worked several years with farmers, becoming farmers themselves after having saved sufficient to help them get a start in the way of stock, etc., on a rented farm, and moreover these have invariably turned out to be some of our very best farmers.

#### Canadian Butter at the Top.

The St. Mary's Creamery Co. recently made a shipment of butter direct to England, which sold for one-half to one shilling per cwt. (112 lbs.) higher than the Danish butter was selling for at the same time. The St. Mary's butter brought 108 shillings, and the Danish from 106 to 107 shillings. This result is very gratifying indeed, and shows what the possibilities are in the development of our export butter trade. We have as good facilities in Canada for making first class butter as the Danes have, and we have only to make the good qualities of our butter known in order to obtain the highest price.

The St. Mary's creamery is to be commended in the efforts it is making to establish a trade with Great Britain. If every creamery would adopt the same plans, and ship all the butter made direct, it would not be long before we had created a large export demand for Canadian butter. The shipment referred to above netted 2034 cents at the factory, and the company were able to pay the patrons 191/2 cents per lb. for butter fat. They have averaged 13,000 lbs. of butter per month during the winter, and expect to make 15,000 lbs. during March. These are now six skimming stations in addition to the central creamery at St. Mary's. The business is growing very rapidly, and the manager, Mr. J. Stonehouse, expects to be turning out about 12,000 lbs. per week in the middle of the summer. The firm has direct connection with British commission houses, where the butter is sold on its merits.

You will make a garden that will be both profitable and attractive by utilizing the packets of garden and flower seeds which we give for new subscriptions. These seeds are the very best obtainable and selec-ted especially with a view to the requirements of our subscribers.

#### Fresh Pastures for Horses.

According to the best authorities, horses will thrive best on new pastures, or, in other words, if horses during their growing period are confined to small pastures, and have not sufficient run, they will not be so full of life and spirit as horses having almost unlimited scope for exercise. The highest types of horses to be found to day, especially in the racing classes, are those reared in a comparatively wild state, where fresh pastures are abundant and where the animals are allowed considerableliberty and freedom. In Australia it is claimed by old inhabitants that in the early days of settlement of that country the horses were superior to the horses of the present day because they were reared on unenclosed runs, where they could wander far and wide for the pastures they liked best. This free exercise in the wide range of country in the old days produced an animal that was accustomed to travel long distances without trouble, while the young horse, raised in a small enclosure, is naturally more slovenly and less energetic, with less endurance. The same reasoning would, perhaps, apply to other countries. We all know that many of the horses reared in a comparatively wild state on the American plains are models of energy and speed. Then, some of the finest horses the world produces to day are to be found in the wilds of Arabia, where they have fresh pastures and large runs galore.

All this goes to show that as a rule the finest types of horses are those reared under conditions as much like the natural as possible. Though our breeders of horses may not be able to supply these conditions as nature supplied them, it will pay to go as far as possible and supply young horses especially with as much fresh pasture as can be had conveniently. Not only will this plan be advantageous to the growing animal, but it will be beneficial to the pasture as well. Horses are harder on pastures than either cattle or sheep. As a rule, fields that have been kept as permanent pastures for horses for a number of years will become full of weeds and coarse grasses, owing to the fact that the best plants have been eaten out. It will, therefore, pay farmers to provide their horses frequently with fresh pastures, and to allow their young animals as much of a run as possible.

#### NOTES AND IDEAS.

The total killings of hogs in the west show a considerable increase over those of one year ago. The first two weeks of March show a total approx imating 790,000 as against 720,000 a year ago. Most of the offerings are of fairly good quality but there is less uniformity, the receipts including considerable of immature stock.

#### CANADA'S DAIRYMEN.

#### J. C. Chapais, LL.B., St. Denis, Que.

Mr. J. C. Chapais, Assistant Dairy Commissioner for Canada, whose photo appears in this week's FARMING, is well known to Canavian dairymen in all parts of the Dominion, and especially in his native Province of Quebec. Dominion, and especially in his native Province of Quebec. In the March and June numbers of FARMING of last year we gave short sketches of Mr. Chapais and his work, and therefore will not need to enlarge very much on these lines just now. He was born at St. Denis, Quebec, and is the son of the late Hon. J. C. Chapais, Sanator. He received the advantages of a good education, which he applied later on to acquiring an intimate knowledge of practical farming, his special lines being the cultivation of the soil and fruit growing. He is an ardent believer in up-to-date dairy farm-ing, and thinks that the Quebec farmer should adopt it. His efforts in inducing the Quebec farmer to go into dairy-ing seem to be meeting with good results, as no province in the Dominion is making the progress that Quebec is doing along practical dairy lines.

the Dominion is making the progress that Quebec is doing along practical dairy lines. For a number of years Mr. Chapais was assistant editor of Le Journal d'Agriculture Officiel, published by the De-partment of Agriculture of Quebec. His editorial work in-duced a close study and a research into many agricultural problems, which have been beneficial to him in his special work on the Dairy Commissioner s staff. His work in this department is chiefly in the French-speaking districts of Quebec, where his services are in great demand as a speaker at agricultural gatherings. FARMING has been favored frequently with articles from the pen of Mr. Chapais, and we hope to be favored again.

the second s

of four fields would not take up more TO MAKE DURABLE FENCE POSTS. year is worthy of note. The number than a quarter of an acre, and besides the sugar product would be of value as affording shade for stock, as a windbreak and shelter, and as an equalizer of temperature and moisture. While maple trees do best in a grove, they will also do well planted in rows along the fences. There are many vacant places and corners in the woodland and on the farm that could be profitably set out with forest trees again. Nearly every woodlot will supply the necessary trees, or they can be obtained from some neighbor's woodlot. Why not plant a grove this spring? Why not fill up the vacant corners and

#### +++-BEES IN THE ORCHARD.

## Many fruit-growers do not thoroughly appreciate the value of bees The best way to get a fast walking in an orchard or there would be more CLOSING EXERCISES AT THE GUELPH horse is to train him as a colt to walk orchards with bees in them. Their DAIRY SCHOOL. It would be much better to bees was placed in the house when peach dropped at the stoning season, the time all unfertile fruit falls. The crop was so heavy that it had to be thinned out. As a check test one tree The first settlers found the land was protected so that not a bee could heavily timbered. To them a tree get to it. On this tree all the fruit

#### ----EARLY FORAGE CROPS.

Among the earliest sowings a farmer just now about growing sugar beets, should make in the spring is a small If the farmers would grow sugar maples piece of peas and oats for soiling. Preon the waste places of the farm, in pare a nice piece of ground convenient to the buildings or to a pasture field, windbreaks to serve as protection for if it is to be fed there, and sow about the house and barns, they would soon an eighth of an acre for every ten cows. If the cows are to be kept entirely on would nearly meet the demands of the the crop about half an acre will be re-Sow another plot every ten oured. days for four or five sowings. Then sowings of millet, Hungarian grass and corn may be made.

> A mixture of two bushels oats and one bushel peas; two bushels oats and three bushels peas; one and a half bushel oats and two bushels peas, and one bushel oats and three bushels peas are all good mixtures to sow ; but of them all the first is probably the lest.

The following is given as a good plan to make fence posts last longer han they generally do In the first place the timber should be cut in midwinter, split, and allowed to season under cover. Now burn the lower end of the post so that it will have a coal showing from the lower end to six inches above the ground when set. Then saturate the burned part with hot coal tar The posts are ready then to be set. If not wanted immed iately let them stand under shelter with the black end down. It is claimed that posts fixed in this me the names of good books on the way will last twenty times as long as those of the same timber 'cut and set green and without being burned. The get such books? Please give me the extra cost of fixing them will not be two cents a post.

The closing exercises at the Provincial Dairy School, Guelph, for the last term, took place on March 23rd. There has been the largest attendance capital work, price \$2.00. "Cattle, this season of any since the school Breeds and Management," by Wm. started. The number on the roll was Housman, is a very useful work, price 110, 19 of whom were ladies. This \$1.25. "Stock Breeding," by Manly number was made up of one from Miles, price \$1.50; and "Cattle New Brunswick, one from Nova Scotia, Breeding," by Warfield, price \$2.00, three from Quebec, one from Mani-are two reliable works on cattle breedtoba, one from the North-west Terri- ing. tories, one from Liverpool, England, Stewart, is perhaps as reliable a work and one from New York, the balance on sheep as there is published, price being from Ontario. This speaks won- \$1.50. All of these books can be ders for the reputation of the school ordered through FARMING. and the good work it is doing towards higher education along practical dairy ers can tell Mr. Mulcahy where he lines.

The students of the term just closed showed their appreciation of the efforts of the staff in their behalf by presenting a nicely worded address at the closing which was suitably replied to by Professor Dean and other members of the staff The utmost good feeling between teacher and pupil has prevailed during the term and the expressions of gratitude contained in the little Japan to dry it. Never add turaddress can have none other than a good effect upon all concerned.

present patronized the home dairy, where special instruction was given in home butter making This department should be filled every year by the girls from our dairy farms. There is a demand for good butter all along the line, from the home dairy as well as from the large creamery, and those who make it must be fully equipped.

#### QUESTIONS AND ANSWERS. HOOKS FOR THE FARMER

Teefy Mulcahy, Orillia : Please give raising, feeding, breeding, and care of horses, cattle and sheep ; where can I address of some one who has a good saddle mare for sale or one in foal.

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Ans: The best work covering the breeding, feeding and raising of horses is "Horse Breeding," by J. H. San-ders, price \$1.50. "Feeding Ani-mals," by Stewart, is a good practical work, price \$2.00. "Feeds and Feed-ing," by Professor Henry, Madison, Wis, and noticed recently is a capital work, price \$2.00. "Cattle, the second second second second second second the second Ans: The best work covering the "The Shepherd's Manual," by

Perhaps some of our numerous readcan get a good saddle mare.

Paint the garden trellis, etc., now, don't wait until you are too busy to do it. Also give the porch floor, the door steps, etc., a coating of good drab, buff or ochre colored paint.

All paint for outside work should be mixed only with raw linseed oil and a pentine or varnish to outside paint, neither kerosene oil or benzine, etc. The large attendance of ladies this It is poor economy to use poor paint.

green fodder, and is recommended by in operation for some years in Canada farmer. Directions for the use of the Mr. C. A. Zavitz from extensive trials and the United States. It is highly weeder are furnished by the manufacand the United States. It is highly weeder are furnished by the manufacpraised by all who have used it and turers.

The above is an illustration of a seen it used on both sides of the line. Weeder," manufactured by Messrs. There can be no doubt that it is the

#### THE WALKING HORSE.

Too many young farmers are talkng about the trotting horse and we hear very little about the walking horse. Both are valuable in their way but the most valuable to the farmer is the walking horse.

Farm work has to be done with horses at a walk. A very little difference in the speed at which a team walks when at work will make a great difference in the amount of work done in a day. Too many farm teams are allowed to get into a slow, lazy way of walking even if they have no load. This habit becomes fixed and it is then almost impossible to stir up the team to a faster gait. Much of the open places of the woodlot? work on the farm is light work, and while performing it the team can walk at a good pace. When commencing the spring work teach the horses to walk up good and sharp.

as fast as he can without trotting. A value in an orchard was demonstrated colt generally wants to go as fast as he in a most practical way at the Oregon can, but the trouble is he is allowed to Experiment Station some years ago. do this at a trot. On the walk he is A few peach trees were forced into made to go slow to cool off after a bloom in November and a colony of teach him to walk fast first and don't the trees began to bloom. For some allow him to trot until he has learned days, however, a heavy fog prevented to walk as fast as he can without trot- the bees from working, although the ting. Train him to walk fast and flowers were open not a bee was seen make him keep on walking as fast as upon them. The first bright day the he can and the habit will soon become bees set to work at once and remained a fixed one. Such a horse will be at work so long as there was anything worth 25 per cent. more for farm work for them. The result was that not a than a slow walking one.

#### PLANT SUGAR MAPLES.

was something that stood in the way dropped at the stoning period. Bees of returns from the land and it had to and other insects have a duty to percome down. Cut down the tree was form in the orchard, for which there is their motto, and of course the children no substitute provided. This is the grew up with the same idea. Hence distribution of the pollen from flower to the great disrespect for tree life which flower and from tree to tree. They prevails throughout the country. We insure success in the orchard and have over-cleared the land, and on every fruit grower should encourage many a farm there is waste land that the bees in their work by not spraying, should never have been cleared. Now or doing anything that would be inthat it is cleared, it should be planted jurious to the bees while the trees are with forest trees again. The youth of in full bloom. the country must be taught to take better care of trees, to preserve them from destruction and to plant a tree for every one that is cut down.

There has been a great deal written groves for shade for the stock, and in have a source of supply for sugar that farm home for sugar, or if the product was marketed as syrup the proceeds would buy a very large share of the sugar needed. Most farmers could make the larger part of this sugar supply just as easily as they raise their own potatoes.

Where maple trees stand in a grove in the open they run much better than those in the forest. Fifty such trees should produce from 200 to 250 pounds of maple sugar. This would The Prussian blue pea, with either the David Maxwell & Sons, of St. Marys, most effective implement for destroy-be about half an ordinary family's re-Siberian, Banner, or Egyptian oats Ont., for the season of 1898. It is not a ing weeds without any injury to the quirement of sugar. If the product is makes a very good combination for new instrument, however, and has been crop. We can recommend it to every sold as syrup the returns will be come. pounds of maple sugar. This would sold as syrup the returns will be somewhat larger.

Such a grove at the adjoining corners with them at Guelph.

#### CHEESE AND BUTTER-MAKERS' MEETING.

The Executive Committee of the new Cheese and Butter makers' Association met on March 23rd at the Dairy School, Guelph. There were present: President, T. B. Millar, Kincardine; Geo. H Barr, Schringville; G. E. Goodhand, Milverton; and W. W. Brown, Attercliffe Station. A circular will be issued to the dairymen of the Province, setting forth the objects as any other stock on the farm. Don't of the association and containing a neglect them. number of recommendations to the salesmen of factories and cheese-buyers, which, if carried into effect, will do much towards remedying some of the grievances that are known to exist in the working out of our co-operative cheese factory system. One of these of factories asking them to adopt such regulations at the local cheese markets as will make all sales binding on both the buyer and seller, and make it necessary to have all cheeses inspected by the buyer before he purchases them. If this regulation were adopted it is claimed that makers would not be imposed upon as they are at present, and have to make good losses on cheese which the buyers may think fit to reject after having purchased. This is not intended to relieve the maker of responsibility where he is to blame, but to protect him from being imposed upon by un-scupulous buyers, who sometimes reject passable cheese and get an extra commission from the maker who does not wish it known that he has any rejected cheese.

Arrangements will be made to give certificates to makers who have shown themseives competent to manage factories successfully and to make a good quality of cheese Such an arrangement should prove of great benefit to the cheese and butter trade if properly managed and certificates given only to those who are competent to make good butter and good cheese.

The new association has now a mem bership of 102, among whom are the leading checse and butter makers in Western Ontario.

#### SCOURS IN CALVES.

A new remedy is suggested by a reliable stockman as a remedy for that troublesome evil among calves, scours. This is no less than coffee-a pint to a quart of strong coffee put in the calf's drink. The quantity is varied according to the age of the calf and the severity of the trouble. Of course the quantity of milk is reduced by the amount of coffee added. In one case beneficial results were obtained by giving strong coffee to a cow. It is always well, however, to look for the cause of scours. The cause must be found and removed. More can be done in this way than in giving medicine and remedies to keep all stock in good health. The best remedy in all cases is to remove the cause. Medicine may relieve for the time, but the trouble will return unless the cause of it is removed.

At the Fruit Growers' Convention winter spraying of fiuit was very strongly recommended. Now would be a good time to try it. Give the twigs and branches of the fruit trees a

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good spraying. This will go a long with vermin while setting, and occasionally way towards reducing the need of spraying later on when you are more busy. By destroying the spores that are resting on the twigs the first lot of them will be destroyed. When the later in a quiet place. Tobacco stems make good material for the nest. busy. busy. By destroying the spores that are resting on the twigs the first lot of them will be destroyed. When the leaves come out spraying again will destroy those spores that may be on them. By this means much more thorough work can be done. Try it.

Hogs should be salted as regularly

## QUESTIONS AND ANSWERS.

### FREDING RNSILAGE.

A. S., Enfield: I enjoy reading the ques-tions and answers, and would like to know the best way of feeding ensulage. I am fat-tening fourteen head, but never led any en-

I have one or more hens that are dizzy-headed. What is the cause and the remedy?

Ass. : You do not say how much ensilage you are feeding, nor how mature the corn was before it went it to the silo, nor what propor-tion of ears was in the corn. Ensilage is not a perfect food, and you have not improved it by adding a third straw to it. We would sug-gest that you feed 50 to 55 lbs. of ensilage if the corn was well eared, and what hay the animals will eat. If the corn was not well eared, and the ensilage is sour, it will be bet-ter not to feed so much of it, but feed more hay. It will not be necessary to feed any ANS. : You do not say how much ensilage

ter not to feed so much of it, but feed more hay. It will not be necessary to feed any turnips. For fattening stock the amount of meal should be increased at least a half. It would appear as though your birds were suffering from vertigo. This is caused by a rush of blood to the head, by a sudden fright, or is the result of an over-stimulating diet. Mr. L. G. Jarvis recommends holding the head of the bird under a stream of cold water, or pouring cold water on the head for a few or pouring cold water on the head for a few minutes. This will arrest the trouble. Then an opening medicine should be given, which will remove the tendency to another attack.

#### HENS EATING EGGS.

D.G.L.: I have something new for you. Eggs are dear, but my hens are eating them. I shut them up in lath coops with a lath floor, one foot from the floor. Result -the eggs drop through and I gather them. That is better than cutting their heads off. It is a complete success.

ANS. : Your plan is certainly a novel one, and worthy of trial if you catch the first one to start cating eggs. If all the hens were to learn the habit you would have a contract, unless you could make them lay in nests with lath bottoms. It results from an unnatural condition of the hens, and is best remedied by supplying them with plenty of green vegetable matter, oyster shell, and meat. As soon as the hens can get out for a run let them out, and there will not likely be any more trouble.

ting hen to keep her free from vernin?

#### STCK RWPS.

Shepherd, Richmond Co. : We have lost everal valuable ewes lately, and wish to know several valuable ewes lately, and wish to know the cause and how to prevent losing more. When they were heavy in lamb, and in good condition, the vulva protruded, and could not be put back to stay. A few weeks before lambing the sheep would prese it out as large as a man's two fists. Would some of the readers of FARMING kindly state the cause and how to prevent it? The sheep have been feel on how and a few cate daily all worker. fed on hay and a few oats daily all winter.

ANS.: The trouble seems to be what is called prolapsus vagina, or a weakening of the parts mentioned, and is common in the cow and occasionally in the ewe or in any ani straining such as occurs when animals are con-stipated. This can be eliged stipated. This can be relieved by feeding roots or other laxative foods. It may also be roots or other laxative foods. It may also be caused by the ewes lying on a sloping floor with the parts downwards. The remedy for this is a level floor. By way of remedy give taxative diet, foment parts with warm water, wash clean, and return carefully by manipu-lation. With the ewe there is perhaps no better way than after the parts are returned to keep them in place by putting a pad over the vulva and tying it to the wool on either side. In fact, a kind of truss is required, with an opening for the escape of the urine.

#### THE LAMBING SEASON IN ENG-LAND.

#### (By our regular correspondent.)

The general average of the reports to hand as to the results of the lambing season is that whilst owing, in the main, to the open and mild weather, the losses have been very small, yet the crop will not be a large one. Few if any reports have been seen, but they all complan of the paucity of twins. This is not altogether a detriment, particularly in the ram-breeding flocks, for then one good lamb will probably be worth more than two mid-dling ones. A few typical reports can be taken from those to hand. For Lincolns we can select those of

For Lincolns we can select those of Messrs. Henry Dudding, S. G. Dean, and Mrs. and J. E. Carswell, all of whom report an excellent fall of lambs, with first-class quality and full of character as one would expect them to be when bred in such flocks as these. Hampshire Downs have been doing well.

Mr. J. Flower reports a grand fall of lambs true to type and character, all of which, owing to the very abundant supply of fodder, are doing extremely well, and bid fair to be, when August comes round, as grand a lot of

ambs as he has ever produced. Mr. W. T. Hall, Lord Carnarvon's agent, reports a first class drop of very excellent lambs, all of which are well bred from very carefully selected sires and dams.

ondition of the hens, and is best remedied by upplying them with plenty of green vegetable natter, oyster shell, and meat. As soon as he hens can get out for a run let them out, and there will not likely be any more trouble. SETTING HENS. B D : What is the best way to treat a set-ing hen to keep her free from vermin? ANN. : Many a poor hen is almost eaten up Southdowns, the world-renowned flock of

MONTREAL, CAN.

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Oxford Downs, from general reports to hand, have done very well, feed being very plentiful and losses very small. Amongst those whom we have seen are Messrs. T. J.

those whom we have seen are Messrs. T. J. Hobbs and G. Street, both of whom re-port very excellent results. Shropshires are not quite so forward in lambing as are some other breeds, but from the reports we have to hand it appears that in this, too, the general run of luck has been very good, and that there is every indication of an excellent fall of strong and robust lambs lamb

Suffolks have done well generally, taking a review of the various reports to hand. The past season appears to have been with this breed one of great success, with a really capi-tal fall of lambs full of merit and excellent type.

#### CLOSING EXERCISES OF THE ON-TARIO VETERINARY COLLEGE.

The Ontario Veterinary College closed an-other successful year's work on Thursday, the 24th of March. The closing exercises, held in 24th of March. The closing exercises, held in the Convocation Hall on Temperante street, were very interesting. Prizes and medals were presented by leading veterinatians of the province. The gold medal for general proficiency in the second year goes to an American, a large number of whom attend the college. The proud winner is C. W. Fisher, of Catot, Vt. The first prize in the junior year also goes to the other side, to W. M. Groff, of Ohio. Hon, E. Dayis was present, and in a few

Hon. E. Davis was present, and in a few well-chosen words congratulated the students and the college on their success. He told the and the college on their success. He told the boys that they were just beginning their life, and success was gained only by earnest, hon-est work. He was glad to see that the value of horses was increasing, as this would mean increased business for them. The depression was rolling away, and Canada was on the eve of prosperity.

of prosperity. In all, more than seventy students received their degrees. The president of the graduat-ing class presented Dr. Smith with a large

ing class presented Dr. Smith with a large framed group photo of the class. Dr. Smith has reason to be proud of the successful year's work just closed, for each year the good work done at the college is at-tracting large numbers of American students to Toronto

### Publishers' Desk.

The Grinder .- Messrs. Matthew Moody The Grinder.—Messrs. Matthew Moody & Sons, of Terrebonne, Que., are manufac-turers of a very high class of machinery for the farm, The grinder which they advertise in another column is said to be one of the best. They are also makers of a superior class of tread power machines, feed cutters, hay presses, circular saw machines, etc. We advise our readers to procure a copy of their catalonue. catalogue.

Gasoline Engines .- A discussion respecting the benefits accruing to the farmer through the invention of convenient appliances for generating power for farm uses will be found interesting and valuable to every farmer. Those who desire to become familiar Manufacturing Co.'s booklet, which contains hunts and information of value to every farmer.

Millers'

TICK DESTROYER



HUGH MILLER & CO. Toronto, Ont.

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## The Ontario Agricultural Gazette

The Official Bulletin of the Dominion Cattle, Sheep, and Swine Breeders' Associations, 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.

Each member receives a free copy of each publication issued by the Association to which he belongs, ing the year in which he is a member. In the case of the Swine Breeders' Association this includes a copy

Lach member receives a free copy of each publication issued by the Association to which he is a member. In the case of the Swine Breeders' Association this includes a copy of the Swine Record. A member of the Swine Breeders' Association is allowed to register pigs at 50°, per head; non-members are chrome by the Shoep Breeders' Association is allowed to register pigs at 50°, per head; while non-members are chrome and address of each member, and the scoke he has for sale, are published once a month. Over so copies of this directory are manled monthly. Copies are sent to each Agricultural College and each Experiment Station it chands and the United States, also to prevent to each Agricultural College and each in Canada, the United States and elsewhere. A member of an advertise eattle he must be a member of the Dominon Sheep Breeders' Association. and to drest sets of castle, states' davoit is which he belongs; that is, to advertise eattle he must be a member of the Dominon Sheep Breeders' Association. The list of cattle, sheep, and which he published in the direct' Association. The list of cattle, sheep, and which eas alwe by built the subscience. The main of cattle, sheep, and which eas alwes the published in the direct' Association. The list of cattle, sheep, and wenger sale will be published in the direct, are required to nonify the undersigned by leater on or before, head will be published in the sale will be published in the institute are soft the annife, Should a member fail to do this his name will not appear in that issue. The data will be published in the institutes of the most so and soft method will be madres are soft to an advertise store the data of cash month, of the mandres'. Association will an advertise store the data of cash month, of the mandres'. Association and the shoe sale will be published in the third issue of each month of the madres' association will not appear in that issue. The data will be published in the institutes. Should a member fail to do this his name will not appear in that is

F. W. HODSON, Secretary. Parliament Buildings Toronto, Ont.

#### **REDUCED FREIGHT RATES.**

Following is a circular issued by the Canadian Pacific Railway to take effect April 1st. A similar circular has been issued by the Grand Trunk Railway :

#### To Agents East of Fort William :

Circular No. 39 of March 19th, 1897, is hereby cancelled.

The following arrangement will hereafter govern the transportation of pedigreed cattle, sheep, and swine, in less than car loads, between stations on this Company's lines east of Fort William when intended for breeding purposes only :

Shipments will be way billed at onehalf regular tariff rates and at estimated weights as per Canadian Joint Freight Classification.

Certificates of Registration must, in all cases, be produced by shipper. Agents will take note of particulars as By H. A. Hougsey, of Hadgson Bros., Exporters and to name of animal and age, and keep record of same, also make notation on way-bill accordingly.

These special rates will only apply when owners sign the usual valuation agreement for ordinary stock. If ex- milk, and adding sufficient rennet to receipts are being largely absorbed by about 1 to 1000 of water on hand and tra values are declared the weights cut the curd in 15 minutes, using the our local trade, yet it will not be long to dress the navel string and opening and rates will be as per classification usual amount of cooking and drying before this source is satisfied, and we with it three or four times daily until tion No. 10A.

Agents will give reference to this circular in way-billing.

G. M. BOSWORTH.

Freight Traffic Manager.

Copy of Correspondence Regarding the Roads on which the Rates will Apply.

John Earls, Esq., Chairman Canadian Joint Freight Tariff Committee, Čity :

DEAR SIR,-Will you kindly let me know at once over what roads the rates, as per circular, will be good ? (Sgd.)

F. W. HODSON.

Canadian Freight Association. F. W. Hodson, Esq., Toronto :

. .

way System has a special arrangement on its own lines for thoroughbred stock, but there is no doubt the arrangement made by us here will apply on any thoroughbred stock inter-changed between the I.C.R. and the G.T.R. or C.P.R. companies. (Sgd.)

JOHN EARLS, Chairman.

Farmers' Institute Department. Reports concerning the work of the Fammer's in-ditutes in Ontario will be published weekly inder this head; also papers prepared for this department by Institute workers. Secretaries and officers having announcements to make are invited to send full par culars to the Superintendent.

## THE REQUIREMENTS OF THE BRIT-ISH CHEESE AND BUTTER TRADE.

HOW CANADA CAN BEST PROMOTE TRADE IN THESE PRODUCIS WITH THE MOTHER COUNTRY.

old. This can be done by light salt-

well boxed, double scale boarded top the sale of the butter to a considerable and bottom, and nailed down tightly extent. Three per cent. or half an air can be had, and away from the not apply to tubs). barnyard. When in England I visited their hands, and if they are not clean and not in three or four as is somepails and stools. After each maid had on all sides. The same kind of parchfinished her cow, the cheese-maker ment paper should be used for boxes tried to milk the cow to see if it had and all kinds and sizes of tubs. Most been thoroughly milked. Now if all of the parchment paper used by the our farmers would take these pains, see that their hands were clean, and the cow's udder and teats well cleaned factorymen will not use this light, thin before milking, better flavors would result.

Butter.-Our shipments last year placed our butter in a higher position than we have reached in former years, and it is regrettable that a large number of our creameries stopped making butter last season and turned their attention to cheese, mainly on Commission Merchants, Montreal, Que. account of cheese selling relatively Cheese.—It is most desirable that higher than butter. The increased this article should be sold in quanti- quantity of butter being made in the By J. Hugo REED, V.S., Professor of Veterinary thes when the compared choice is States at the present moment is sup-Shipments may be taken without ties when the youngest cheese is States at the present moment is supmen in charge, provided owners sign about 15 days old, with the exception plying the English wants, and their men in charge, provided owners sign about 15 days out, with the exception pring the langust wither, and then the usual contract releasing the com- of the first half of May make, which prices are fully one cent per pound pany from liability in consequence should be made to cure early, so as to under ours. The make this season which may arise, the evil consequences be ready to be shipped out at 10 days promises to be fully 30 per cent. to 40 per cent. greater than last season, and ing, say at least 2 lbs, per 1000 lbs, although it is true that the present have a solution of corrosive sublimate of May should be salted at the rate of are largely coming into favor on our the entrance of germs that frequently 21/2 lbs. per 1000 lbs. milk, and June local market, and are preferred largely cheese should be salted at, at least, 3 lbs., in England. Only wire nails should and makers should use less rennet and be used, even in the cover, and then bring the cheese down firm bodied. only a few should be used, or screws Cheese made during the months of or other devices employed, so that the June, July, and the balance of the sea- cover may be removed without disson, should not be shipped from the figuring the package. It is very imfactory younger than 15 days old, and portant that the boxes, and even tubs, it is important that the factorymen should be paraffine wax lined, as it should have a good curing room, so prevents all possibility of a woody as to give the cheese a good even cur- flavor being imparted to the butter. nourishment out of a bottle until he ing temperature. The curing rooms It is also important that the boxes should be lined with good matched should be kept perfectly clean. For lumber, having a space of at least one this purpose the creameries should kind he should be given milk frequentfoot between the outside and inside either ship their butter encased in ly, say every half hour, and in small walls, which should be lined with tar bags, or else straw should be used on quantities. Unless his bowels move or felt paper in such a way that the the bottoms of the farmers' wagons early, means should be taken to relieve W. Hodson, Esq., Toronto: or felt paper in such a way that the the bottoms of the farmers' wagons early, means should be taken to relieve DEAR SIR,—I understand the ar- rooms could be turned into cold stor- and railway freight cars as well as be- him. The contents of the bowels at rangement respecting pedigreed stock age rooms if desirable without much tween the packages. Style and ap- birth is called meconium, and consists

so as to have the top of the cheese ounce of salt to a pound of butter is close against the lids. Cheese carry the standard requirement for export much better across the ocean in this and our local market. Never more way than if loosely packed. Canadian than this should be used, but London cheese has attained a very high stan- market can take even a little lighter dard on the English market, but we salting. The demand is for a nice, think there is room for improvement, pale straw color, and even in the especially in flavors, and these could be month of June the creameries should improved upon if more attention were avoid high colored butter, which can regiven at milking time. We have easily be done by proper manipulation travelled nearly through the whole of the cream. It is important to pack length of Ontario, Quebec, New the boxes full, and to contain as uni-Brunswick, Nova Scotia, and Prince form a weight as possible, so that the Edward Island and we have easily hume wight as possible, so that the Edward Island, and we have seen butter will turn out 56 lbs. when it some very careless milking. Cows arrives in Great Britain. No salt should be milked on the highest level should be used as a paste on the face of the farm, where free ventilation of of butter packed in boxes (this does

Parchment Paper .- Use only the a model dairy farm and found the very best quality; never less than 35 cows were driven into a cobble stone lbs. to the ream, and preferably from yard with a drain running in the 40 to 50 lbs. should be used. This middle. The milk maids had to show paper should be used in two pieces, they were sent back to the kitchen to times the case. It should be of suffiwash them; the same also with their cient width to lap well over the butter creameries last year was too thin and light. It is to be hoped that our parchment this year. Mould in butter is generally caused by green wood and poor parchment paper, or by the butter being kept too long in a damp, poor ice-house.

#### Ontario Agricultural College. Announcements concerning the College work will be published weekly under this head.

of which can be averted by careful cause joint or navel ill which usually proves fatal. If the foal should be weakly he should be helped to his feet when about an hour old and assisted to stand and take nourishment. If the dam is cross a twitch can be applied or other means taken to force her to allow the colt to suck. If unable to stand or suck, the mare should has become strong enough to stand and help himself. In cases of this to be adopted by all railroads in Can- extra expense. Cheese should be kept pearance as well as convenience in of a blackish substance somewhat tarry ada east of Fort William. I believe, as clean as possible while at the fac- opening, help the sale, while dirty or in appearance and about the consisthowever, that the Government Rail- tory, and when shipped should be ordinary sawn and nailed boxes hurt ence of putty and existing in lumps.

These lumps are often so large that the little animal is unable to force them out of the bowel and they must be moved mechanically; the administration of purgatives to the little creatures for this purpose is dangerous, as medicines administered by the mouth have very little or no action upon the contents of the posterior intestines. The forefinger should be well oiled and carefully inserted into the rectum and all the meconium that can be reached should be removed after which an injection of a little raw linseed oil or a little soapy water should be given. This operation should be repeated several times daily until the faces that are passed are of a yellow color, which tells us that the meconium has all passed and what is passing now is the product of the milk the young animal has taken after birth. The attendant should observe whether the urine is passed in a normal manner, as sometimes the opening into the urethra is closed by a false membrane and then the urine will escape by the navel opening or not at all. If an obstruction of this kind exists a small catheter must be passed to break down the membrane, but fortunately this condition is seldom met with. If the birth has been normal all the attention the dam will require is to be excluded from draughts for a few days, kept comfortable, fed on warm mashes, and if in cold weather the chill should be taken off the drinking water for a few days. If parturition has been difficult, causing complications of different kinds, the services of a veterinary obstetrist should be secured.

#### **Stock Notes**

ANOTHER car-load of purebred stock has gone west It started from Guelph, and stock was also taken on at Myrtle and at Carleton Place. The following were the shappers : the F. W. Stone Estate. Guelph, four Hereford heifers ; Capt. Johnston, Eramosa, one Shorthorn yea ling bull ; W. R Bowman, Mount Forest, one Shorthorn Lull calf ; G. W. Clemons, St. George, two Holsteins, a bull and a heifer ; T. A Cox, Braniford, one Berksbire boar; J G. Snell, Snellyrove, a Berkshire boar and a Cotswold ram ; Arthur John ston, Greenwood, a Clydesdale mare, and two Short horn bulls; H. D. Smith, Compton, Quebec, one Hereford heifer ; Mr. Wilson, Compton, Ouebec, one Hereford heifer ; Mr. Wilson, Compton, Ouebec, one of the balance of the car was made up of five Ayr-sl ires from the herd of R. G. Stary of Lyn. Some of the animals are for points west of Calkary and are sent to Edmonton for a cost of about 50, whereav-under the old rates it would have cost over \$50 to land an animal there.

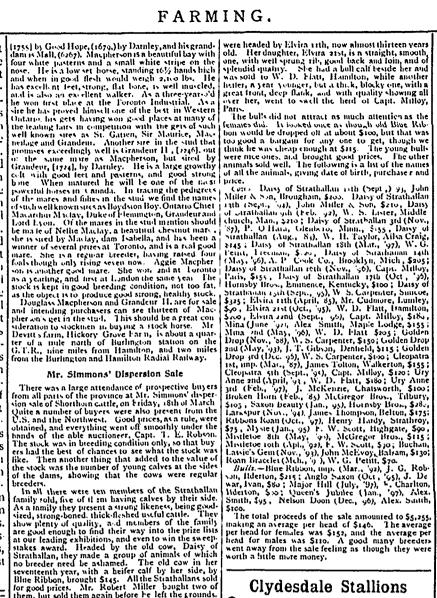
J. DRVITT & SON'S CLUDESDALES.—The Clydes-dales to be found at J. Devitt & Son's, Freeman, are of an excellent and useful type. The head of the stud for some years has been Douglass Macpherson, [1791], imported in dam by D & O Sorby in August, 1888. He is sired by Macpherson, (3825), and he by Mac-gregor, (1487), by Daruley, (222). His dam is Hell,



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ONT **CILENTON** 



the stock was the number of young calves at the sides of the dams, showing that the cows were regular breeders. In all there were ten members of the Strathallan family rold, face of the maxing calves by their side. As a namily they present a strong likeness, being good-sized, strong-boned, thick-fisched us-ful cattle. They show plenty of quality, and members of the family are good enough to find their way into the prize lists at our leading exhibitions, and even to win the sweep-stakes award. Headed by the old cow, Daisy of Strathallan, they made a group of animals of which no breeder need be ashamed. The old cow in her sweeperstakes award. Headed by the old cow, Daisy of Strathallan, they made a group of animals of which no breeder need be ashamed. The old cow in her swenteenth year, with a beifer calf by her side, by Blue Ribbon, brought St45. All the Strathallans sold for good prices. Mr. Robert Miller bought two of them, but sold them again before he left the grounds. Those who let the others slip through their fingers determined to have the last one of the family. Daisy of Strathallan 1sth, a beautifully formed heifer, show-ing lots of quality, and with a heifer calf by her side. She is of the thick-fieshed sort, and though Mr. Car-penter had to run up the highest price of the day to secure her, he can rest assured that the has got sonne-thing good, as she is the making of an excellent cow. The three representatives of the Golden Drop Jamily were good ones. The old cow, Golden Drop, Junily Royal Saxon, go to W. S. Carpenter, Simoor. The other member of the family goes to J. T. Gibson, Den-field. She, too, is a well-built, smo.th, goed haired heifer. The Mina cow goes to keep company with the theck animals at Maple Lodge, and her daughter, Mina and, perhaps the sweetest and nicest animal sold, went to W. D. E. Flatt, Hamilton. The Elvira family

## **Clydesdale** Stallions **9**Prize-Winning Stallions DOUGLASS MACPHERSON (inp.) [1731], and GRANDLUK II. (274) Also a number of Brood Mares and Filles of superior breeding and several winners at the leading fairs of Ontario. 1. DAVITT & SUN, Freeman.

A J.C.C. JERSEYS of the richest breeding. Our herd is noted for large butter records; can always supply animals of both seves and ages. Whole herd rich in St. Lambert blood. Hulls ready for service, and several cows direct granddaughters of Stoke Pogis the 3rd. Prices to ineet the times. HILLSDALE STOCK FARM, Milford, Hants. Co., N.S.

## FREE SEEDS Change of Seed Makes

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## Larger Yield

E have made special arrangements with the old and reliable seed firm of JOHN S. PEARCE & CO., London, Ont., whereby we are able to offer the following valuable collections of seeds as prem-

jums for new subscribers. These seeds are of the best varietie and are specially for our patrons.

#### COLLECTION A.

0 Pac	kets Veg	etab;	les.	Price,	50c
Packet	Beet	1	Packet	Parsnip	
44	Carrot	Ī		Cabbage	
÷ .	Cucumber	ī	**	Radieb	

/on	for one new	vearly s		\$1
"	Onion	1 "	Tomato	
	l.ettuce	1 "	Squash	
	Gucamoti		1/1/01211	

#### COLLECTION B.

Giv

F

10 Packets Flowers. Price, 50c. 1 Packet Phlox Drummondil Packet Pansy 1 'Stocks 1 'Nasturium 1 'Petunia 1 'Dianthus 1 ''Mignonette 1 ''Aster

### Given for one new yearly subscriber at \$1.

COLLECTION C. 20 Packets Vegetables and Flowers.

Price, \$1.00.							
Packet	Aster	1	Packet	Squash			
••	Pansy	ĩ	**	Watermelon			
**	Stocks	1	48	Musk Melon			
44	Balsam	1		Lettuce			
**	Phlox	ī	••	Celery			
	Sweet Peas	ĩ		Carrot			
••	Cauliflower	ĩ	44	Beet			
	Cuoumber	î		Radish			
44	Onion	ĩ	**	Tomato			
**	Cabbage	ī	48	Vine Peach			
Given for two new yearly subscribers at \$1 each.							

COLLECTION D.

20 Packets	Vegetables.	Price, \$1.
Packet Beet	1 Packet	

	••	Parsnip	2 "	Cabbage
16.		Cucumber	1 "	Lettuce
	**	Musk Melon	1 "	Watermelon
	••	Citron	1 "	Onion
	41	Radish	1 "	Squash
	**	Tomato	1 "	Vine Peach
	44	Parsley	1 "	S. Savory
	••	Sage	1 "	Thyme
G	lven	for two new	yearly : each	

## Barley .

For one new yearly subscriber at \$1, and 18 cents added to pay for bag, we will give one bushel of Mandscheuri Barley.

#### Oats

For one new yearly subscriber at \$1, and 18 cents added to pay for bag, we will give one bushel of Siberian White Oats.

These varieties are among the best in the market, and from reports gathered from reli-able sources have headed the lists, both in yield and quality.

#### **Purebred** Poultry

One pair of any of the following breeds of Fowls: Silver and Golden Wyandottes, Barred Plymouth Rocks, Black Langshans and Single Comb White Leghorns given for six new yearly subscribers at \$1 each.

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One setting of 13 eggs of either of the following varieties: White and Barred Plymouth Rocks, S.L. Wyaniottes, Golden Wyardottes, B. Minorcas, S.L. Wh te Legborns and Brown Leghorns for two new yearly subscriptions at \$1 each.

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### FARMING.

## MARKET REVIEW AND FORECAST. bring about 05c. At Montreal they bring 55c. to 00c. per bag of 90 lbs.

#### Office of FARMING,

44 and 46 Richmond street W., Toronto. March 28th, 1868.

The volume of trade in many lines is est mate 1 as being 25 per cent, greater for Feb ruary than for the same month a year ago. The Government bank returns for February show an increase of \$212,201 in the circula-tion for the month over that of January. Antion for the month over that of January. An-other interesting feature of the money market is the augmentation of current loans in 1 do-ruary of \$4,127,428. This is on new husiness enterprises, and shows a general expansion of trade. A large share of the increase is due to the increased movement in coarse grains and dairy products as well as general merchandise.

#### Wheat.

The wheat situation remains about the same as it has been for some time back. Letter continues to hold the balance of power, and to hold prices above their real value. Should he try, however, to market one tith part of he boldings there would be a crash, showing clearly that prices are maintained by specula-tive means. Some think that Letter has the More wheat as exercise to work the back above. May wheat as securely connered as he had the December. While this may be so, he has up-set the whole wheat trade of the world. Millers and dealers are not buying any more Millers and dealers are not buying any more than they need for immediate use, as there is no telling when prices may  $g_1$  to smash. So long as they tast they are good for the farmer, but when they do go down they will have a very depressing effect. The local market is quiet. The week opened with wheat at 554c; it advanced a little, then declined to 84r, fool, cars west and worth. Manifolds a bar combine stock

and north. Manifolia wheat continues steady at \$1 091 to \$1.10 for No. 1 hard at North Hay, and \$1.031 Owen Sound and Midland, Montreal markets show that the market is Montrea weaker.

#### Barley and Oats.

Barley is quiet. No. 2 grade is nominal at 40c., while teed barley has declined to 33c. for car lots west. Montreal reports feed barley at 40c. to 42c. Qats have held their own this week. There

is quite an enquiry for Canadian oats from all parts of the United Kingdom. They are steady at 31c east for white, and 30c. west. At Montreal the market is steady at 33kc. to to 34c. in store, and May oats are quoted at coods. 35c. to 35jc. atloat.

#### Pass and Cern

The market for peak is somewhat easier, prices having declined about one cent, 55c. to 55c. being the price for peak north and west, and about 56jc. for cars east of Toronto. A: Montreal some business has been done on a basis of 65c. to 65jc. for export all sat in May. This is a decline of nearly two cents.

Corn is easy at 30% for Canadian yellow west. American corn at Totonto is worth 362. At Montreal Ne. 2 Chicago taixed is \*0:. quoted at 35c. to 35fc. affeat in May. In store com is worth 39c. to 40c.

#### Buckwheat and Ryc.

Buckwheat is quiet at 36c. to 37c. west. Nontreal market report shows buckwheat quiet at 43c, to 434c, in store. Kye remains nominal at 50c, for cats north and west. At Montreal values are a little

casier at 602. affaat in May.

#### Bran and Shorts.

Millfeed is dull but steady at a little lower prices. Bran is quoted at \$11 west, and shorts at \$13. At Montreal there is a good demand for Ontario bran at \$14.50 to \$15, and shorts at \$16 to \$16.50.

#### Timethy and Claver Seed.

At Toronto red clover seed is bringing \$3 to \$3.60 per lashel. Alsike \$3.25 to \$4, and timothy \$1.25 to \$1.35. At Montreal the market is quet, red clover being quoted at \$3.25 to \$4; alsike at \$3 50 to \$4.25, and timothy at \$1.50 to \$2, according to quality and quantity.

It is reported that Canadian holders of tim-othy and clover seed are holding lack stocks on account of the low prices going. To meet the demand American grown: seeus are being imported. There is plenty of seed in the country without importing any if it were put on the market.

Section and

ALC ALCONOMIC IN

The supply is 'scarce, the demand usually good, though often only Jair. Prices are steady at 123c. for turkeys and 55c. to 65c. for chickens.

#### Eggs.

The fine weather has sent the eggs rolling down hill again. Prices have fallen away to 10c., still the market is steady. At Monteal prices are also easier. Mour 10c, is the price now.

#### Maple Syrup.

In the west the maple syrup season has been a light one. In the east the run of maple sap promises to be very large. Prices of syrup at Montreal have therefore declined. of sytup at Montreal have therefore declined. Sales are reported in quantity at 55c. to 60c., and even at 50c. a wine gillon. It has also beeu sold at 5c. a pound, which is equivalent to about 55c. Sagar is selling at 7c., as against 8c. last week. At Toronto new sytup is selling at 05c. a wine gallon, in quantity. selling at 65c. a wine gallon, in quantity.

#### Chi

Dairymen are getting anxious to know what the prospects for the cheese trade the coming season are likely to be. At present the out-look is not at all bright, and stocks now on hand are being sold at considerable loss to the middlemen. Last week at an auction sale of middlemen. Last week at an auction sale of cheese held at Liverpool, Canadian was sold at prices ranging from 64c. to 74c., and 6c. to 74c. for American. These are lower prices than have been realized for a considerable time, and should lead to a larger consumption of old stocks. Factorymen may therefore book for low prices at the beginning of the season at least; though if the present large consumptive demand keeps up, and very hille or no folder cheese is made, the situation may improve considerably before the full grass

or no folder cheese is made, the situation may improve considerably before the full grass cheese are ready for the market. Receipts on this side continue small, and the wind-up of last season's business is prov-ing very unsatisfactory. Sales were made at Montreal last week at from 74c. to 74c., and one lot of choice, western September's, was reported sold at 74c. at which prices the holders must lose heavily. It is also reported that a few factories, who intend opening on April 1st, have been offered 7c. for the new goods.

#### Butter.

The butter situation continues firm though receipts of creamery are increasing. At Montreal there is a scarcity of choice fresh creamery, there being hardly sufficient to sup-ply the lo-al demand. Sales of choice goals have been made at 2012, to 21c, in lots of 20 to 25 tubs. Single tabs command 1 cent in me than these ingures. The winter butter season is winding up a good deal letter than was expected. At the beginning of the year prices commerced to decline and sold as low prices connected to decline and sold as low as 1S cents for finest creamery at the latter part of February. About that time a demand set in from England and prices advanced to 204c, and 21c, for fine fresh creamery. Old creamery was sold recently at 1Sc, and 10c, that a month ago would only bring 10. The make of creamery butter is rapidly increasing and present prices may not be kept up very long. However, the English demand is good and should it continue prices will remain at a

and should it continue prices will temain at a paying figure. At Toronto prices for creamery are ruling high, both tubs and prints selling at 22c Choice dairy is quoted at 18jc. to 19. Dairy tub is scarce. A few bots of Eastern Town-ships dairy have sold at Montreal at 21c. to 215...or equal to creamers. 2112., or equal to creamery.

#### Cattle

Friday's market at the stock varils was an active one, and all the stock was sold before noon. Butchers' cattle and lambs showed a utile advance.

Export sattle .- There was a steady inquiry E. Jord calle. -- There was a steady inquiry for good cattle for shipment, with prices rang-ing from \$3.7510\$4, 25c. per cwt. As high as \$4.30 was paid for one fine lot. Itulis go for 3c to 3}c. per pound. At Montreal g sol expost cattle sold for 42c, and others were held at 45c, but from 4c, to 43c, is the range for good cattle. *Hutchers' cattle.* -- Buying in Friday's mar-bet was van action and come allowed the

the was very active, and prices advanced toc to 15c. a cwt. Sime faicy cattle brought 4c. to 45c. fw local convengium. The general run, however, was from \$3 40 to \$3.90 per cwt. Common stuff sold down to 25c.

Potatoes on the track are easier, 57c. to Soc. being the raling price. Out of store they day's market for stockers and forders was

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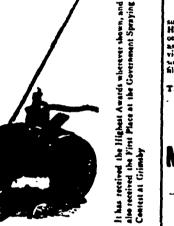
ood. Two Baffalo buyers were looking for good. Two Batfalo buyers were looking for this class of cattle, and one of them bought what stockers came in on the Midland train without seeing them at \$3.60 per cwt. The usual run is from \$3.30 to \$3.60 per cwt. for stockers and \$3.40 to \$3.70 for feeders. Calves bring from \$2 to \$8 each, and fancy ones as high as \$0. Milch cows and springers bring from \$25 to \$10 each.

#### Shees.

Butchers' and export sheep bring from 3c. to 33c. per lb., bucks 3c. Lambs, or rather yearings, are doing better: 53c. to 53c. per pound. This spring's lambs go for from \$4 to \$7 apiece.

Everything in this line point towards lower prices; still prices did not decline last week although offerings were fairly large. Best bacon hogs are quoted at \$4.90 per cwt.; light hogs at \$4.623; thick fat hogs at \$4.50, and sows at \$3 to \$3.25 per cwt.



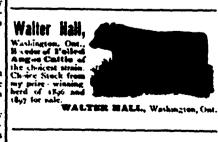


CERTIFICATE OF OFFICIAL AWARD:

This is to certify that at the conset of Spraving Apparatus, held at Grinsby on April 2nd and 3rd, 1990, under the ampires of the Board of Control of the Fruit Experimental Stations of Ontario, in which there were cleven contestants, the Spramoter, made try the Spra-motor Co., of London, Ont., was awarded First Place. H. J. HUTT, Judges.



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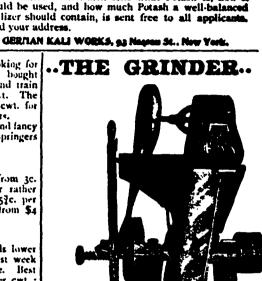


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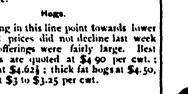


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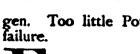
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