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FARM AND DAIRY

March 20, 1913



"Simplex" Cream Separator

The 1,100 lb. size "Simplex" when at speed and skimming, takes no more power than the ordinary 500 1b. size separator of other makes.



favorite everywhere it goes, its beauty and heavy compact uction, with low-down, handy can only 3½ ft. from the floor.

The large-capacity "Simplex" Hand Separator will

Save you Time, Save you Labor Save you Expense

Because it will cut the labor of skimming the milk more than in two, not only because it turns easier than most other hand separators, regardless of capacity, but because it does the work in halt the time.

In these busy days when labor is so scarce and so expensive, and so atisfactory, a saving in time is a great direct saving in money to you.

Now, while you have time to read, send for a copy of our book describ-ing in detail, the improved "Simplex" large-capacity, Link-Blade Cream Separators.

Write us a post card to-day asking for the book.

When writing ask for an estimate on what it will cost you to put in a B-L-K Mechanical Milker to milk your cows.



BROCKVILLE, ONT. Head Office and Works -Branches: PETERBOROUGH, Ont. MONTREAL and QUEBEC, P. Q.

WE WANT AGENTS IN A FEW UNREPRESENTED DISTRICTS



LET THE FARMER CULTIVATE THE ACOUAINTANCE OF HIS BANKER J. A. Macdonald, Carleton Co., Ont.

New Light on why the Farmer can not Obtain Accomodation from the Banks. A Solution Suggested. The Banking Act Discussed.

M UCH is said in the press and imperceptibly extend to the matter during the present session of inability of farmers to obtain a loan or accommodation at the banks. The farmer must take the initiative, while men in business and trade in the towns have no difficulty in this modated. How shall he do it? Start regard. It is quite true the farmers, as a class, find it difficult to obtain loag set in the pare forced to note-dis-hands from the bank. and when they five dollars which may come into L.Sf do get it they are forced to note-discount rates, usually 8 per cent. In fact it is often as well and, usually more convenient, for the farmer to go to a broker or money-lender, and it is often to this class a farmer goes when he wants money. There is no valid reason why a bank should not be as willing to do

business with a farmer as with a merchant or dealer if as great profits are realized. True, the farmer has nothrealized. True, the farmer has noth-ing tangible to put up in the way of security for the loan unless he gives a chattel mortgage which would make a chattel mortgage which would make the loan very expensive. He has no stocks or bonds to put up. He hasn't a warebouse full of grain within a block or two of the bank premises. Ho may have a couple hundred bush-els of grain in his granary, 10 or 20 miles away, or he may have some cat-tile or how in moreore of fatturing tle or hogs in process of fattening. But it is very difficult to see how the But is very difficult to see how the bank could accept these for security on a loan. There is only one course for a farmer, if he wishes to get money from a bank — get an "en-dorser"; that is, get a man, known to the bank, to endorse your prom-isory note and come good for the amount—a most humiliating and amount—a most humiliating and hateful thing to be obliged to do, not to mention the feelings of the "endorser."

A POSSIBLE SOLUTION

Farmers are, as a rule, not patrons or customers of the banks. The farmer and the bank are comparative strangers to one another. Broadly speaking, the only business the average farmer ever has in the bank is to step in to take up a note given for some implement or other obligation. Strangers do not usually ask favors of each other. One does not expect anything from the other. Nor does one stranger place confidence in an-other. The obtaining of a loan from a bank involves confidence. Strangers a bink involves confidence. Strangers can often obtain a loan from a loan-shark but at what terms? Twenty-five to 100 per cent. These men take the risk of lending money to a strang-er, or to some one whom they may know of doubtful integrity. They know they are going to lose both the interest and principal of a certain interest and principal of a certain per cent. if their loans, like the old credit business at the store, and protect themselves by charging enormous interest.

A bank does not do business that way. A bank does not expect to lose anything from customers and has one rate of interest and discount for all. If there is the least doubt of a loan not being paid, a bank will not lead. A bank pins its faith very largely on the business integrity of its cus-tomer. The business of that man is watched closely by the bank and if it sees breakers ahead steps are at once taken to protect itself. By such cau-tion and watchfulness only, does a bank lose but few loans.

PROMOTE BUSINESS INTERCOURSE Were the farmer and the bank on intimate terms. Did they regularly do business with one another, learn to know each other, and to mutually profit from each other's business asso-ciation, there is no reason in the world why the business would not

a bank account in the local bank. Deposit in that bank all sums ove-five dollars which may come into L.M hands from the source, and pay all bil's and amounts over one dollar-at least over five-by cheque. In this way the acquaintance will begin. The bank soon begins to know its custom-ers and will be willing to extend its favors as time goes on. The bank, favors as time goes on. The bank, though anxious for deposits, does not make much on the farmer's balance. If the money is in the savings depart ment it pays three per cent, lends it out at eight per cent., a profit of five. On a average balance of \$100 the bank would make but \$5 in a year. Canadian banks, however, encourage farmers, tradesmen, and others, to patronize the savings department, and though the interest, three per cent., is small, it is as much as can be got at the government savings banks, and is better than running a current account when one gets no inever, if there is much checking out by the depositor the bank would not by the depositor the bank would not care to have the deposit in the sav-ings department. It would have to be in current account. This does not matter much, however, as there is no occasion for anyone keeping a large balance of his credit account in the bank.

bank. How TO RECOME & CUSTOMER A man that makes all his payments by cheque, and deposits all his cash as it comes in in a bank for a year or two becomes a customer. If he haptwo becomes a customer. If he hap pens to need a loan of \$50 or \$100 behavior to need a toan of \$500 of \$100, the bank will accommodate him, and give him the money at eight per centor two per cent for three months which is very low for small sums. Banks, like merchants, are anxious to please their customers. The more farmer-customers a bank has the more they will appreciate the custom of the farmers, and the more anxious will they be to accommodate them with a loan when they want it. The banks a loan when they want it. The banks and the farmers are beginning to know each other. The cheese factory is a contributory factor, . Paying, as it does, the monthly mill-check, many dairy patrum deposit the cheque in the bank. More should do

CHANGES IN BANK ACT

Regarding the proposed changes in the new banking act before the Canadian Parliament, whereby farmer-may obtain loans an grain stored in their granarys, or on stall fed cattle in course of finishing, I am not over flowing 'with enthusiasm on this point. Should this proposed change in the act work out in a practical form, it will be a splendid thing. The great drawback to getting money ir a bank at present is the necoesity of an 'endorser.'' Nobody wants his neighbor to endorse for him if he cau at all help it, and I am sure no on-wants to endorse for any man, even dian Parliament, whereby farmer at all help it, and I am sure no on-wants to endorse for any man, even his brother. It has happened too of-ten that the endorser was finally forced to pay the note. My view of the matter, is not to depend too much upon what priv-lages the farmer is to obtain from the surgeriging of the new harking such that the surgeriging such tha

lages the farmer is to obtain from the provisions of the new banking uci, but, on the other hand, let the farm-er cultivate the acquaintance of the bank, do business with the bank, bo-(Continued on page 5.)

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No. 13

FOR WEEK ENDING MARCH 20, 1913.

COMMERCIAL FERTILIZERS ARE REGARDED AS LABOR SAVERS

A Practical and Successful Farmer who uses Commercial Fertilizers as Regularly as Barn Yard Manure. A Record of his Experiments. Mangels at 57 cents a ton.

ITH the near advent of spring, there is an annually recurring interest in the use of artificial fertilizer. Many farmers are asking, Will it pay me to use fertilizers? If I do, what shall I use? The first question is easy of solution, and if a little work and time is devoted to it, the answer should be positive, one way or the other. In my own case I answered the question years ago, and use artificial fertilizers as regularly as I use barnyard manure. I look upon them as one of our labor-savers, enabling me to grow a desired quantity of roots on fewer acres than I otherwise could do, and thus economising labor in the busy summer season. The only way that a farmer can know just what results he is getting is by using the scales; that is, trying several different fertilizers or mixtures on small plots and weighing the product. By taking one crop each year he will soon get a general idea of what suits his soil best, and the work will be found exceedingly interesting. In 1911 and 1912 I have been working with mangels, and the results obtained will be found in the following tables. The size of the plots was one-eightieth of an acre in every case, but for ease of comparison, I will give the application of fertilizer and the yield as per acre:

Plot	1-No fertilizer 2-Nitrate Soda, 100 lbs., applied	23	
	3-Nitrate Soda, 160 hbs applied		
	4-Nitrate Soda, 200 lbs applied		
	5-No fertilizer 6-Nitrate Soda, 100 lbs applied	24	tons-1,120 lbs.
σ.	7-Nitrate Soda, 160 lbs, applied		
	8-Nitrate Soda, 200 lbs. applied		
	at seeding time	25	tone_1 640 lb-

FARMAND DAIRS

RURAL HOME

three check plots was 24 tons 700 lbs. The application of 200 lbs. of common salt increased the yield over five tons per acre. The heavier application of salt was of no advantage, it not doing quite as well as the lighter dressing. In no case did the nitrate of soda pay for itself; neither did the mixture. The season of 1911 was dry and hot, but mangels did well.

READY MIXED FERTILIZERS TRIED

Up to this date I had not found any fertilizer that gave very decided results on mangels, though I have been working at them for several years; so in 1912 I tried some ready mixed materials, put up for special crops. These were tested in three different quantities per acre. Results were as follow:

Cost	per a	eld acre.
Plot 1-special beet fertilizer, 250 lbs \$4.15 2-special beet fertilizer, 600 lbs\$1.20 3-special beet fertilizer, 1200 lbs\$6.60 4-special for roots, 250 lbs\$4.15 5-special for roots, 400 lbs\$4.10 6-special for roots, 1200 lbs\$1.20	tons. 17 18 19 17 24 24	1be. 80 880 1360 720
- Garden & vegetables, 250 lbs § 4.15 - Garden & vegetables, 800 lbs§ 1.20 - Garden & vogetables, 1200 lbs§ 15.40 10-Common Sait, 240 lbs § 1.30 11-Nothing - 12-Potseh Phosphate, 250 lbs § 3.40	21 22 21 16 13 19 nateri	240 1520 880 160 1520 1600
was as follows -	aven	lais

Was as toulows: best Fertilizer-Nitrogen 3%, Phosphate Acid 6%, Potash $\delta^{(n)}_{-} = 433$ to 833 a ton. Bood Fertilizer-Nitrogen 3%, Phosphate Acid 8%, Potash tous for the state of the state of the state of the state of the state Vegetable Fertilizer 300, Potash 5%, Phosphate Acid 8%, Potash 5% = 583 to 533 a ton. Potash 1%, Potash 5%, Potash 6%, =837 a ton.

Some rather large increases are shown, but in some cases they have been costly. Plot 5 shows an increase in yield of over 10 tons, at a cost of a little over \$1 a ton. Salt this year only increased the yield about 2¼ tons, nevertheless this increase was cheap, about 60c a ton. Plot 12 shows an increase of over six tons, at a cost of 57c a ton. In no case is the heavy application justified, and only in the second group is any pronounced benefit apparent for the medium weight. It is probably that in this case there were some other causes at work, and the increase may not be wholly due to the heavier dressing of fertilizer. So far as this test goes, it would appear that 250 to 300 lbs. is as much as can be applied with a maximum of profit; but it must be borne in mind that all the plots received a moderate dressing of barnyard manure. Salt does not show up so well this year as in 1911, but this may be accounted for by the difference in the seasons, 1912 being excessively wet. Mangels did not do so well as in the dryer, hotter season of 1911. The potashphosphate, or "10-5," as we call it, I regard as a very promising combination; it was obtained especially for fall wheat, and was only put in this test at the last moment. It shows the cheapest crop increase here, and did remarkably well in other places.

In my turnip field, and also in the potato field, there was a headland on which we were unable to get any barnyard manure, owing to the softness of the ground due to excessive rainfall. On the potatoes we applied about 700 lbs. an acre of the 10-5, and the crop was far the best there of anywhere else in the field. On the turnips we put about 300 lbs. of 10-5 and 300 lbs. of acid phosphate; the resultant crop was as good or better than where the land received a dressing of 10 to 12 loads of manure and 300 lbs. of acid phosphate. I hope to give this fertilizer a more extended and accurate test the coming season.



Alfred Hutchinson, Wellington Co., Ont.

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HOW THICK SHALL WE SEED CEREAL GRAINS?

Prof. C. A. Zavitz, O. A. C., Guelph, Ont.

Some Interesting Results with Octs Secured at the Ontario Agricultural College, Showing the Effects of Thick and Thin Seeding on Yield, Lodging, Weight per Bushel and Resistance to Rust.

HE question of the amount of seed of the cereal grains to be sown for the best results has been discussed many times and in many places. Experiments have also been conducted with the object of securing information on this problem in different countries; and yet we have reached no unanimity in regard to the matter. We find, for instance, in Canada that the amount of oats that are sown per acre will vary from one to four bushels, and in Scotland the quantity frequently reaches six bushels of seed per acre. We find very strong advocates of using as small a quantity as one bushel of oats per acre, while others will argue as earnestly for the using of as high as six bushels or more per acre. The question then arises as to why there is such a difference in views of men who have had wide experience in the growing of grain upon their individual farms.

We are safe in coming to the conclusion that these variations are caused partly on account of knowledge, and partly on account of ignorance. It is undoubtedly true that the amount of seed per acre that would give the highest results under certain circumstances would not give the highest results under other conditions. There

are many factors which exert an influence in determining the quanity of seed to use to give the best returns, each of these factors producing its own particular influence. The fertility of the soil, the state of cultivation, the moisture content of the soil, the variety of the crop, the method of seeding, the date of seeding, and many other factors, apparently exert their respective influence

in regard to the amount of seed to be sown in order to secure the highest returns. If this be true it can readily be seen that we cannot come to a definite conclusion regarding the quantity of seed to use per acre of any class of our farm crops that would give the highest returns under all circumstances. It must be admitted that definite knowledge regarding the influence of some of the factors above referred to is very meagre. We believe as knowledge along these lines accumulates we shall be in a very much better position to know what is likely to give satisfactory results under the varying conditions in which a crop is to be grown. We believe, therefore, that any new and definite information obtainable which will throw additional light on this problem will be appreciated. I will present the preliminary results of an experiment which was started at the Ontario Agricultural College in 1909, and which has now been conducted in each of the past four years.

AN EXPERIMENT WITH STOOLING

Members of this Association who are present, will remember the discussion which has recently taken place in the United States in regard to seed selection as an influence in crop production, and also the discussion that took place in Canada regarding, the stooling of oats in reference to the yield of grain per acre. To glean information, especially, on these two points, an experiment has been conducted in each of four years by using both large and small seed of heavy stooling, medium stooling, and light stooling varieties of cast, and by planting the seed of each variety in squares, one, two, three, four, six, eight and 12 inches apart. The seed was planted by hand and with very great care. Each plot was surrounded by oats of the same kind and planted in the same way. When the crops were ready to harvest the surrounding plants were removed so that the crops under experiment would not be influenced by the paths surrounding the plots. After the seed had germinated and the oat plants had appeared above the ground, notes were taken in regard to the stooling of the plants every 24 hours. Other notes in regard to height, amount of rust, strength of straw, etc., were taken at the proper time. Each plot was harvested with great care. The actual number of heads on each plot were counted. The weight of the total crop was determined, and after threshing was completed the amount of grain was subtracted from the entire crop, thus furnishing the combined weight of straw and chaff. The table published herewith gives the average results of 32 tests made by planting oats at seven different distances apart:

In an experiment of this kind it is usually considered wise to extend the experiment into extreme conditions, hence in the thickest seeding the cat grains were planted one inch apart each be unlikely to cause the straw to become badly lodged, especially in a wet season. Even though this precaution was taken the crop lodged considerably, especially in 1912, when the weather conditions were inducive to a very large yield of straw of a succulent character.

The fourth column from the left shows that, the number of heads or stools of an oat plant's can be regulated largely by the thickness of seeding. When the seeds were planted one inch apart each way there was only an average of one head a plant, and when the seeds were planted 12 inches apart each way there was an average of 11 heads a plant. The number of heads a plat's increased according to the increase in the distance between the plants.

THINNER SEEDING INCREASES HEADING

In the fifth column we have the comparative number of heads from equal areas of land. Where the seeds were planted one inch apart there were 144 times as many plants as on the same area of land where the seeds were planted 12 inches apart, and only about 11 times as many heads. It will, therefore, be seen that while the number of heads per arce decreases with the thinness of the seeding, that decrease is not nearly as great as the decrease in the number of seeds planted.

According to the results obtained in column six, the highest average crop was produced by the plants which were planted in the six inch squares. These plants were about five inches taller than those that were planted in the inch

Years of Yield per acre Straw Grain Units 12 inches taller than those which were planted in the 12 inch squares. It seems apparent that where the plants apparent that where the plants were a foot apart each way the stolling was so abundant that the energy of the plant to olso to the sacrifice of the height to a limited extent. The results shown in the sixth column correspond, to a certain extent, with those in column five.

In column five. It will be seen that up pants which lodged the most were those which were also the tallest, and were produced from the seeds which were planted six inches apart. It is interesting to notice that the very thickest seeding produced a crop which was lodged less than any of the other seedings. These results seem somewhat different from the popular conception that it is necessary to sow oats comparatively thin so as to reduce the percentage of the lodging of p

MOST RUST ON THIN SEEDLINGS

The average results of the per cent of rusts shown in column number eight, is also very interesting as they show a gradual increase in the amount of rust on the strew of the cats from the thickest to the thinnest seedings. The plants from the thin seeding had about three times as much rust as those from the thick seeding. The amount of rust on the plants, which were four inches apart, was about average of that of the thinnest and the thickets seedings.

The average number of days from the time that the grain was planted until the plants were matured are presented in column nine. It will be seen that there is a difference of nine days from the time that the thickly seeded plants matured until the thinly seeded plants had ripened. The increase in the sta₂, of maturity corresponds exactly with the increase in the distance between the plants. The farther the plants were ap. The latter they were in ripening. It will, therefore, be observed that as the amount of seed outs (Concluded on page 6.)

Thickness of Seeding Oats-Average Results for Four Years of Experimenting at the O. A. C. Inches between Seed per plants- Lbr, Heads Per cent Per per of heads Height cent plant. per acre. (ins.). lodged Days Pounds Yield per acr cent Grain per bus. runt. mature (tons) (bus.) 414 4 104.0 46-1 26.0 11.6 12.34 3.06 1.36 .76 .34 .19 .09 30.60 34.95 41.73 38.99 37.42 31.77 21.93 1.0 1.1 1.3 2.0 4.2 6.5 11-2 100 31 17 13 12 11 9 20.4 27.8 32.6 33.1 35.3 34.9 34.9 5.6 11.9 12.8 29.9 35.8 34.7 30.1 11.8 15.0 17.8 20.9 25.4 27.7 33 2 91 93 94 95 97 99 100 25.0 31.4 33.2 31.5 28.6 26.4 23.9 1.75 1.58 1.52 1.29 1.40 1.20 1.03 6 5 2.9

way, which would require on the average a little over 12 bushels of seed per acre, and in the thinnest seeding the oat grains were planted one foot apart each way, which would require only about one-tenth of a bushel, or a little less than three pounds of seed per acre. Some of the intermediate seedings, however, approximate more closely the quantities of seed which are used in actual practice, as for instance, where the grains were planted two inches apart each way it required about three bushels of seed per acre, and where the seeds were planted three inches apart each way the amount of seed required would be about one and one-third bushels per acre. We expect to start another experiment in which several different thicknesses of seeding will be used, but the range will probably run from about one bushel to four bushels per acre.

THESE TESTS ARE ACCURATE GUIDES

The average results are worthy of very careful consideration. It is probably the first time that an experiment of this kind has been conducted in the manner here described. It should be remembered that each columa represents the average of 32 distinct experiments. These experiments covered a period of four years which included an exceptionally dry season, and an exceptionally wet season. The yields of grain per acre are much lower than we usually obtain in the Experimental Grounds at Guelph. This is, due to certain reasons, one reason being the unfavorable weather conditions of some of the years, and another reason being the fact that we conducted the experiment on land which would

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Quantity of Clover Seed to an Acre T. G. Raynor, Seed Division, Ottawa

There, is a great difference of opinion with many farmers as to the amount of clover seed it is necessary to sow on an acre. For instance, one farmer will tell you he has had splendid stands by sowing only four pounds an acre, while others will say that 12 pounds an acre is cone too much. Then there are a host of men



One Way of Handling the Corn Crop

who will argue that six or eight pounds an acre is a great plenty. As a matter of fact all these amounts may be plenty under certain conditions. Take the four pound advocate. He probably grows a lot of early red clover. He rarely if ever saves any of the second crop for feed, but pastures it off. He doesn't turn his stock to feed on it until the seed is forming. Before it is all pastured off there has been quite a large number of heads in which seed has form-These seeds drop into the ground again, or are eaten by cattle, and go through in the droppings which find their way to the soil while the stock are pasturing, or in the applied stable manure. In a few years after growing clover the land seems to get quite full of the seed, and no matter when a field is re-seeded a small amount of good seed will give a good stand. It may be that the soil is rich in humus, and every good seed not only grows but the plant branches out so that the ground is covered and a good crop results with light seeding.

12 LBS. NOT TOO MUCH

The farmer, however, who stands up for 12 pounds an acre in seeding isn't far from the mark, even when he sows good vital seed. How is this, you ask? The seeds of clover are quite small and if sown evenly they should cover the ground. But did you ever figure out how many clover seeds would be sown to the square inch of ground if you applied even 12 pounds an acre? Perhaps you didn't know that there are 18,400 red clover seeds in one ounce by weight, and you had no way of finding out. There are about 18,400 red clover seeds of average size in one ounce, and this would give you 294,400 seeds in one pound, and in 12 pounds of seed sown per acre there would be 3,732,800 seeds. There are 43.560 square feet in an acre, so that for every square foot there would be 85.6 seed, or about 3-5 of a seed a square inch. So you see that unless the plants stooled out a good deal they wouldn't cover the ground any too well, and this is calculating that every seed is vital and that it gives an account of itself in the soil.

To have every seed grow there must be a fine seed bed made rich in humus and lime if possible, which would ensure plenty of moisture and plant food, so that the little clover plants could get off to a good start. Good growing weather would be necessary as well From what has been said, it would be extravagant to say that on a poor soil or a soil in a poor state of cultivation it would require much more seed

to get a stand. Then, supposing the seed is of inferior quality, as most of the Ontario grown seed is this year, owing to the intermittent growth last season and the early frosts, surely plenty of seed and close screening will be in order this spring to avoid disappointment in the stand next summer.

There is a further argument here for those who have to buy seed to pay the price for the best seed they can get, as it is really the cheapest seed after all.

WHY NO. 1 SEED

See what is required of No. 1 seed. It must be clean, sound, evenly graded, of good color, and contain not more than five noxious weed seeds an ounce, or 100 weed seeds of any kind an ounce. For such seed the retailer may ask from \$15 to \$16 a bushel, or 25c to 27c a pound. Compare this with No. 3 seed, which according to the wholesale price asked, will mean that the retailer will ask at least five per cent. increase on the cost, \$12 to \$13 a bushel, or from 20c to 22c a lb. In No. 3, which only has to be reasonably clean, there may be plenty of dead seed, which need not be labelled with the percentage vitality, unless it fall below 63 per cent., or two-thirds the proper standard for germination. It would appear that there will be plenty of No. 3 seed this year, both from appearance and vitality. Then supposing the maximum of weed seeds are there, 80 an ounce of noxious weeds, or 16 times as many as in No. 1, and a total of 400 of weed seeds of all kinds an ounce, which is four times what is allowed for No. 1. The spread in noxious weeds is as 1:16, and for all weeds as 1:4, but the spread in price is only about four or five cents a pound.

I leave the reader to judge which is the



This Way is Better

The two illustrations on this page show graphically two distinct methods of handling the soon crop in this secondariate methods of handling the soon crop in this secondariate in the secondariate secondariate secondariate great inconvenience to the feeder. This as will as great inconvenience to the feeder. This second second large core and a method that is ever growing in ling core and a method that is ever growing in -Photos by an editor of Parm and Dairy.

cheaper buying and on which kind the most money is made, by the wholesaler especially. The law requiires that all seeds should not only be graded but so labelled. Look out when buying that the seed is truly marked.

Keep your eyes open for opportunities to give the horses work. The time is near when they will be all the better for a little hardening now .----A. McCall, York Co., Ont.

Start Now to Get Eggs in Winter

Dr. A. A. Farewell, Ontario Co., Ont.

Now is the time to prepare for getting eggs next winter. A good winter laying hen must possess certain characteristics. She must be well developed and well fed. She must be active, with a quiet disposition, and above all have a good constitution. In order to have her well developed, she must be hatched early. She must be active, with a good constitution. We must feed her in such a manner that she will be compelled to work for her food. She will acquire a quiet disposition through the frequent handling and gentleness of the attendant.

There are three conditions essential in order to produce such a hen: Proper stock, proper housing, and proper feeding. Any two of these might exist, but without the third there would be failure. I place proper stock first, as it is the most important. It requires many years of careful, patient, and persevering breeding to produce good and profitable stock. Only eggs from the most prolific and robust hens should be used and of those that begin laying at an early age.

THE CHICK ONLY A START

But when we have our chick hatched, our work is only begun. Now comes the most important stage in the whole hen business-the rearing of the chick. The feed must be such as will produce a rapid development of both bone and muscle and also have a special affinity for the egg producing organs. Unless this feeding is properly and carefully attended to, the breeder will find himself minus that fully developed and matured pullet on which he must depend for his supply of early winter eggs.

Proper housing presents itself in two periods -before and after the pullet begins to lay. The first period begins when the chick is weaned. They should then be placed in a shed facing the south, with nothing but coarse burlap for the southern wall. This shed should be surrounded with grass and preferably in an orchard. Holes should also be made in the wall so that the chicks can pass in and out. For my own part, I have this opening fitted with a trap door in such a manner that the hen opens it in the morning. It then remains open until closed by the attendant at night. This ensures the chicks a maximum amount of fresh air and free range, which are the two things requisite for the development of a strong, healthy chick.

LABOR SAVING FEED METHODS

The feed is placed in the hoppers and the water in an automatically regulated tank, and are replenished once a week. The chicks remain in these quarters until the first of October. when they are moved to their winter quarters, placing only 25 in a pen. Then the feeding for egg production begins.

These houses are also provided with open fronts, but the roosting apartment is somewhat warmer. Care should be taken at all times that the hens are plentifully supplied with fresh air; fresh air is the secret of success in the hen business. These winter quarters must be provided with runaways. I have a runaway on both the south and north sides, and they are plowed every alternate year, so that the hens are on fresh ground each year.

WAR ON VERMIN

The hens and houses must be kept perfectly clean. I use pyrethrum powder for hens and coal oil for the houses, applying the oil with a sprayer or brush. These houses are not frostproof. In fact, the drinking water would freeze solid were it not removed every night. The idea that hens must be kept warm in order to produce eggs is a rule of past ages.

I now come to feeding, which many people (Concluded on page 9.)

(3)



An Unsolicited Testimonial

CLEAR-EYED young farmer stepped up to a manure spreader demonstrator at the 1912 Chicago

Live Stock Exposition and, pointing to one of the greaders in the exhibit said: "I own one of those machines. It is the strongest spreader I ever had on my farm, and I've had a number of different machines. I honesity believe that if I filled that spreader with soft coal it would spread the stuff for me. I wouldn't trade it for any spreader I ever owned or saw." owned or saw.

owned or saw." This unsolicited recommendation from a man who had used an I H C spreader, and therefore knew what it would do, carried weight with his hearers. They might have doubted whether an I H C manure spreader would spread soft coal-but there was no doubt in their minds that an I H C spreader had spread manure to this man's entire satisfaction. This is a typical case showing what users think about

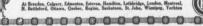
HC Manure Spreaders Corn King and Cloverleaf

I H C manure spreaders are made in many sizes, running from small, narrow machines for orchard and vineyard spreading to machines of capacity for large farms. They are made with either

machines of capacity for large farms. They are made with either endless or reverse aprons as you prefer. The rear axle is placed well under the box, where it carries over 70 per cent of the load, insuring plenty of tractive power at all times. Beaters are of large diameter to prevent winding. The teeth that cut and pulverize the manner are square and chisel pointed. The apron drive controls the load, insuring even spreading whether the machine is working up or down hill, or on the level. If C spreaders have a rear axle differential, enabling them to spread evenly when turning corners.

The local agents handling these machines will show you all their good points, and will help you decide on the one that will do your work best. Get literature and full information from them, or, write the nearest branch house

International Harvester Company of Canada, Ltd BRANCH HOUSES



FARM AND DAIRY

Sawdust in Horse Stables Broadly speaking, it may be said that in bedding down borses with sawdust a little over a hundredweight will serve a horse standing in a stall for a week. When a horse is quartered in a loose box a correspondingly larger quantity per week will be re-quired. Of course, when the supply is very plentiful, more than the above mentioned weekly amount can with advantage be used, and a deeper bed advantage be used, and a deeper bed be put down, thus rendering the lat-ter all the more comfortable for the herse; one hundredweight per week may be looked upon as being the minimum quantity of sawdust which is necessary in order to keep a horse comfortably bedded down, but if a larger quantity is available, so much the better.

When sawdust is used as litter in a stable, the best method of management to adopt in regard to the keep-ing clean and renewal of the bedding is as follows : First thing in the morn is as follows: First thing in the morn-ing, after the stable is opened, all droppings, as well as all wet portions of the bedding, should be removed with the stable shovel and manure akep, the holes which are made being subsequently filled up with freehs sawdust. The bedding should them be lavelled, and this is best done by raking it over with a rake; but, fail-ing the latter, the levelling must be done as best it may be with the stable fork. During the daytime all drop-pings should be removed as often as pings should be removed as often as possible, and in the evening wet por-tions of the litter should again be retions or the litter should again be re-moved and replaced with fresh saw-dust, and the whole properly levelled down. In this ways sawdust bedding can easily be kept in good order and perfectly sweet and clean for a con-siderable time.

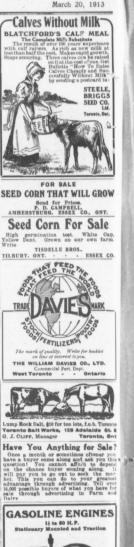
DRYNESS FIRST ESSENTIAL

At frequent intervals -- 58 V every seven or 10 days—the whole of the sawdust abould be removed or plied up in a corner of the stall, so that the floor may air properly, and dgt dry if it is wet. So long as saw-dust remain dry it can be continued to be used, but, once it is asturated with urine, it is no longer serviceable. In using sawdust for Ledding down purposes, the floor of the stall or lones box should be covered with it to a depth of, at any rate, four inches, that being the minimum depth which the bed ought to have if a horese is to every seven or 10 days-the whole of the bed ought to have if a horse is to lie comfortably on it, but by prefer-ence it should be made an inch or two deeper than that.

deeper than that. It is most important, when sawdust is used, that it should be perfectly dry, otherwise it is unsuitable for use in the stable, damp sawdust both be-ing unwholesome and not possessing in the stable damp sawdust beautions. much absorptive capacity. Sawdust which is obtained from unseasoned and green wcod is unsuitable for use and green wood is unsuitable for use as bedding material in the stable, be-cause it is not properly dry, and therefore deficient in absorptive pow-One great drawback conne with sawdust is that it makes a bad manure. It decomposes but very slowly in the ground, and it takes a long time ere it gets thoroughly in-corporated with the soil. For this ure made from sawdust, and do not care about using it. The only way to dispose of it is to give it away.---H. F., in the Londen Live Stock Journal. reason farmers look askance at man-

The Joy of Agriculture

No other occupation opens so wide a field for the profitable and agreeable combination of labor with cultivated though as agriculture. I know noth-ing so pleasant to the mind as the discovery of anything that is at once new and valuable — nothing that so lightens and sweetens toil as the hope ful pursuit of such discovery. And



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************************ **GRANGE NOTES**

Elgin County Grange meets in the Court House in the afternoon of March 19th. The officers for 1913 will be elected. Dominion Grange re-ports by Frank Bainard, Gianwe, th, will be given, also addresses on agri-cultural subjects by Messrs. Buchan-an, Edwards and Porter, representa-tives for the Counties of Ugin. Essex and Lambton. Elgin County Grange meets in the and Lambton

Mr. Alex. Anderson, on whose farm hydro-electric power is working, has been invited to explain its use and benefits.

been navited to exgrant its use snu-beenefts. The ex-Grangers, who by reason of failing health and other causes, have left their farms and are now residing in St. Thomas, are discussing the ad-visability of forming a Grange in the Gity for social and educational pur-poses, also to help by their experi-ence any objects brought forward for the welfare of the agricultural classes. Sweral homes have been offered in which to hold the meetings, and it is which to hold the meetings, and it is which the object homes that the sum when the object of the agricultural classes. Sweral homes have been offered in which to hold the meetings, and it is which to hold the meetings. The membership will be limited to retter farmers, but will be limited to retter farmers, but will be limited to retter farmers. will be limited to retired farmers, their wives and daughters.

* * The following is clipped from the Thomas Times: St.

The following is clipped from the St. The meting of Forset Rose. The second sy evening t

The Middlemarch Grange at its last meeting decided to hold a Com and Seed Show in the Grange Hall next autumn, and a committee Grange appointed to wait upon the Southwold Township Council regarding a grant, namely. Measrs. Herbert Tutcher, Gordon Sufford and Selathiel Curtis.

* * That the Grange helps all other organizations, especially the Farmers' Institute, is shown by the fact that the first week in March the represen-tations of saveral counting visited the first week in March the represen-tatives of several counties visited Yarmouth and Southwold with lantern sides illustrating the beat interesting matter and delivered are helpful ad-dresses. At Machine wer 30 years, the half over 30 years, the half of the several several terms and the several several several terms and the several several several years, the half of the several several several terms are several several several several several terms are several se ed to the doors, many has and, and a good programme of was given by local talent, while Union the by local talent, where a flourishing next night where a flourishing grange has been allowed to lapse, there were only five people, including the reputer. Lesson: cryanize or re-organizet, and keep in touch with your neighbors on agricultural subjects all the year round and not depend on one or two meetings a year of the Farmers' Institute.

The County Grange of Dufferin is making arrangements for a regular campaign in that county, and a num-ber of new granges are expected as the result.

time in every line of agricultural pur-siuit, and should be an inspiration to every one to do what he or she can in the interests of mankind.

The result. The failer and originator of the Grange died in Washington in Janu-ter at the secretary of the Dominion Grange, J. J. Morrison, visited North-Kelley. For the period of the most of the secretary of the Siloo has been grants a pension of Siloo has been grants appension of Siloo has been grants appension of Siloo has been grants appension of National Grange as a simility fils Sint A testimonial to his family. His life and influence will be felt for all

(5)

Bro. Morrison has also been work-ing in Prince Edward county, and Oxford, with good results, enthus-ing old members and bringing new ones into the Grange.

W. C. Good, Master of the Domin-ion Grange, spoke at Cardinal, Dun-das Co., Ont., on the aims and object of the Grange. Mr. Good traced the Grange right from its foundation to its position today. He outlined the stand the Grange takes on such ques-tions as direct horizoiting travition tions as direct legislation, taxation and the protective tariff and on mili-tarism. As might be expected many



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FARM AND DAIRY

Potash for all Crops. On all Soils.

FARMERS, who may be considering the purchase of Fertilizer materials for this season's use, are invited to communicate with us and we shall send them Free of any charge or obligation. a selection from the following in-structive, illustrated Bulletins:

Valuable Pamphlets,

containing expert

up-to-date infor-

mation on this

important

subject.

10

Farmer's Companion A Farmers Field Tests Fertilizing Fodder Crops The Potato Crop in Canada Fertilizing the Orchard and Garden Potash in the Prairie Provinces The Principal Potash Crops of Canada Artificial Fertilizers their Nature and Use

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(6)

Send us 5 or more names and addresses of your neighbor farmers and we shall send you a colored wall placard.

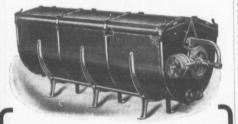


Both sexes, 6 months old. Selling fast to make room for more. Apply GORDON LENEY. VARS, ONT. GORDON LENEY, BOOKS Now that the long evenings are here plan to improve your time by reading. Get a Book Catalogue Free from FARM AND DAIRY All Books At Lowest Prices

PURE BRED

(IMP) YORKSHIRES

Improve the FLAVOR and the KEEPING **QUALITIES** of your Butter.



Simply placing sweet cream into a churn after separating with-out first "Preparing" the cream does not produce the best butter. All cream should be Ripened thoroughly, before churning. The

Quality of the butter depends on this ripening, as to texture, flavor and keeping quality.

Butter made from Ripened cream has a greatly improved flavor, keeps fresh much longer and has a firm, solid texture.

The "Beaver" Cream Ripener accomplishes the process per-fectly and economically. Your customers will notice the improve-ment in your butter. They will wonder at that delicious taste, and the marvellous keeping qualities. You will obtain a higher prito for your product and it will gain popularity, meaning more profit

Hundreds of Butter Makers have installed the "Beaver" Ripener, and we have received letters of recommendation from many of them. Write to-day. We will send you full particulars by return mail. Address:

King Street, E. W. A. DRUMMOND & CO., Toronto, Ont. (Creamery and Dairy Supplies.)

Mr. Good, but they all gave him cre-dit for having made a most forcible and telling address, and the meeting concluded with a hearty vote of thanks to the speaker of the evening.

Society's Claim (Nebraska Farmer)

Certain it is that in considering the use of land, and the most profitable size of farms, the fortunes of in-dividuals should not be allowed to obscure the claims of society. For the greatest profit to individual farm-ers, 640 acres might be (we do not say it would be) the most profitable farm unit, while for the people of the country as a whole division of the land into farms of the size might be very bad thing, indeed.

A passenger on a train may spread A passenger on a train may opten himself and his baggage over two or more seats when the car is not crowd-ed, and thus secure the maximum of comfort and profit from his trip; but as the car fills up with other passen-gers, for their comfort and wellgers, for their confort and well-being he must get his baggage out of the way and take his feet down from the seat in front. As population in-creases the best use of the land dic-treases that it be made to produce the greatest amount of food and diction greatest amount of food and clothing material per acre, instead of the greatest amount per man working upon it. This is a point that farm man-agement experts have not generally considered. Whether the best use of the land from the standpoint of the whole people means small farms or arge farms does not yet appear clear-y, although we suspect that it means relatively small farms.

continued f per acre is increased, the stage of maturity of the crop is hastened. The average results presented in column 10, although not as regular throughout as some of the other col-umns, are nevertheless just as inter-teresting. It will be observed that the heaviest average weight per measured bushel was obtained from the crop which was sown in the three inch squares, and from this seeding there was a gradual decrease in weight per bushel as either the thickweight per bushel as either the thick-est or thinnest seeding is approach-ed. The lightest oats were produc-ed from the thinnest seeding. It will be seen that a heavier weight of oats per bushel was obtained where one and one-third bushels of oats were sown. Although the weight per measured bushel even in the highest average is less than the standard it must be remembered that at least two out of the four years in which this experiment was conducted the weath-

experiment was conducted the weath-er conditions were sonewhat unfay-crable for the production of oats of high quality in Ontario. The combined yield of the straw and the chaff is presented in the eleventh column. These average straw production it is necessary to the land which was some with oats at the rate of 12 bushess gave a greater yield of straw than the land which was sown with oats at the rate of three bush-els per acre. With only a slight exwith oats at the rate of three bush-els per acre. With only a slight ex-ception there is a gradual decrease in the yield of straw and chaff per acre from the thickest to the thinnest seedings. It is interesting to note, however, that three pounds of oats produced more than one-half the yield do do not a obtained from 44 normals of straw as obtained from 414 pounds

of straw as obtained from 44 pounds of cats as seed per acre. In the last column which may be considered as the most important of all, we find that the greatest yield of grain per acre was obtained from the cats which were sown three inches apart each way. From this yield

March 20, 1913

of his hearers did not agree fully with Let the Farmer Cultivate the Acquaintance of His Banker Continued from inside cover page.) come a regular customer, and this come a regular customer, and this only can be done by depositing all the cash received for farm produce in the bank, and paying it out by cheque. Instead of depositing unused in the bank, and paying it out of cheque. Instead of depositing unused money in the government savings bank, deposit it in your local bank, and when you want a loan you stand a fair chance of getting it from your own bank.

Correction. An error and several oversights were permitted in the advertisement of Geo. Keith & Sons, Seedsmen, at 124 King St. E., Toronto, in Farm and Dairy last week. Prices were admitted in three sections of their advertisement, Mr. Prices were admitted in three sec-tions of their advertisement, Mr. Keith not having placed these in his copy, and the omission was not mor-liced will be omission was not mor-liced will be Diamond Brand Timo-thy No. 1, Gov. Standard, should have been quoted at \$3.40 a bush. ; Keith's Best Ocean Brand Alyske No. 3, Gov. Standard, \$18 a bush. [In com-little of this grade to be got]; Keith's Near Best Sea Brand Alyske, No. 3, Gov. Standard, \$18 a bush. In com-nection with Arbithy, the comment was made: "Clean enough for form," This should have read: "Clean enough for any Farm." Note Mr. Keith's ad, this week, and bear in mind the wisdom of ordering your seed early, avoiding the rush, and ensuring sat-isfaction. isfaction

The whip is poor medicine for a frightened horse.

HOW THICK SHALL WE SEED CEREAL GRAINS ?

(Continued from page 2)

there is a gradual decrease in yield per acre to both the thickest and the thinnest sowings. It is very inter-esting to note that the yield from esting to note that the year hush-three pecks per acre was four bush-els greater than that from the crop obtained from sowing three bushels per acre The results here presented per acre per acre The results here presented favor rather thin seeding as against thick seeding in the production of oats. Particular attention should be drawn to the fact that in the experiment as here conducted, one and onethird bushels of seed per acre, when placed in the land very evenly, gave a greater yield of oats per acre, which weighed more per measured bushel, than that obtained from either three bushels or from three pecks of seed per acre. The results presented in this table are very suggestive, especially as forming a basis of other experiments which are to follow. In another year or two we expect to pre-sent the results of this, and other experiments which we have under way, in a more detailed manner. When this material is submitted we believe its material is submitted we believe it will add a considerable amount of valuable in formation in regard to both the selection of seed, and the stooling properties of oats as they restooling properties or oats as they re-late to crop production in addition to the information furnished in regard to the thickness of seeding of this most important crop.

Single Fare for Easter via **Canadian** Pacific Railway

Return tickets will be issued at Single Fare between all stations in Canada, Port Arthur and east, also to Niagara Falls and Buffaho, N.Y., De-troit, and Sault Ste. Marie, Mich. Good going March 20, 21, 22, 33, and 24. Return limit, March 26, 1913. This is an excellent opportunity for a trip at moderate expense, the re-turn limit being exceptionally long for an event of this nature. Full par-ticulars from any C.P.R. agent. See that your tickets read via C.P.R. Return tickets will be issued a

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how vast and varied a field is agri-culture for such discovery. Every blade of grass is a study; and to produce two where thore was but one is both a profit and a pleasure. And not grass alone, but soil, seeds and seasons, inclues, diges, ditches and tion, plenting, drought and irrigo-tion, plenting, drought and irrigo-resping, and what will prevent ones of errors, and what will prevent ones of them, imments, integrils and me. crops, and what will prevent or cure them, implements, utensils and ma-chines, their relative merita and how to improve them, horse, horses and cattle, sheep, goats and poultry, trees, Amrubs, fruits, plants and flowers, the thousand things of which these the second second of studies and specimens, each a world of study with-in himself.-Abraham Lincoln

To Make A 1 Syrup

Mr. J. H. Grimm, of Montreal, is Mr. J. H. Grimm, of Montreal, is offering \$500 in prizes for the best maple syrup and sugar that is enter-ed in the competition now being con-ducted by the Grimm Manufacturing Company. This competition is design-ed to educate both producers and consumers to what good maple pro-ducts really are. The higher the quality of the product entered the better Mr. Grimm will Nick it. Ho gives the following directions to pro-smetise commutions: spective competitors :

spective compatitors: "We have a large number of cus-tomers who are making a second and third-class syrup with the Champion Evaporator, who should make a first-class article. They will only operate it to the third second in the right manner. "Our interests are mutual, and we

"Our interests are mutual, and we desire to assist them in every way towards a better market for their svrup and sugar, and the only way to accomplish this is for them to help themselves by improving the quality of their output. This can easily be accomplished if they will follow out the suggestions which we will endea-vor to outline in as few worls as posvor to outline in as few words as pos-sible how to make a high-grade syrup.

"(1) Cleanliness and quick evapor-ation, good dry fuel, and a determin-ation on their part to produce a high-grade syrup, will bring the best re-

"(2) If they will bear in mind that (2) If they will bear in mind that sap is white like water, and the main object is to heat the sap to 219 de-grees, or to weigh 13 lbs. 3 or, to im-perial gallon (net perial gallon (net or standard weight)-keeping it as near the color

bo prime's and in operating the eva-porator to obtain the very best syrup that can be made, it must be oper-ated shallow. This means that syrup ated shallow. This hearts that syray will be drawn at short intervals, say at every 10 or fifteen minutes. We will illustrate as follows: If you are operating on a certain quality of sap and running your syrup off once an and running your syrue off once an hour, you will be making a syrup that is red or dark in color, and you would be removing from the erapor-ator onics of a fair-size batch; but supposing that you operated the emporator so as to remove the syrup orce every half hour you would have sating a little more syrup than you did with the former plan. Now, if you can successfully take the syrup off the evaporator every 16 minutes instead of half hour you will make sill a lighter article of eyrup, and still a lighter article of syrup, and will make more syrup than by either of the former methods. Further, if of the former methods. Further, if you will cut sour time down for draw-ing off your svrup to every 10 min-utes you will still be making a light-er color of syrup from the san, she will have will be making a syrup that will have a fine delicate flavor and that will be elicible to comm_stee for the prizes offered by us."

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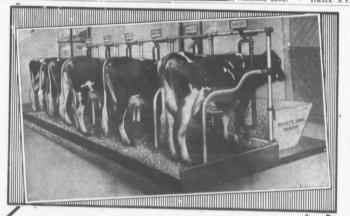
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Barn Equipment That Cuts Work in Half

MAIL us the coupon for all the facts about the BT Sanitary Stable Equipment. Let us prove that you can save half the work and time of cleaning the barn, and feeding and caring for the cows. Let us prove that you can keep your cows healthier, more contented, increasing the quality and quantity of their milk production. Read in our Free Stall Book, how BT Stalls and Stanchions line up every cow evenly with the gutter, so that no manure is in the stall, on the bedding or on the cows. Read how the cows are prevented, from nosing feed out of the manger, how they are prevented from stealing one another's feed, how they can be watered in the stall all at once, how the special patented features on BT Stalls prevent ruined udders, abortion, tuberculosis, big knees. Get our Free Book and learn the other advantages. Mail the coupon now

BT St MANURE CARRIER	Make your stable durable. WITH steel stalls and cement floors,
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FARM AND DAIRY

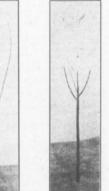


March 20, 1913

31. Prune gooseberries and currants Ly the renewal of rotation sys-tem.-Western Farmer.

New Soluble Sulphur Spray

New Soluble Sulphur Spray It appears that the new spray in the form of a dry soluble sulphur which is this year being phaced upon the market will prove altogether popular with fruit growers and will eventually replace the old lineaul-phur which must be shipped out in liquid concentrated form. The sul-phur is not new produce when dia-soluted in water is said to be in the same form, ply-sulphides, etc., as ig, the sulphur%s the lime sulphur spray solution which has been used during the past several years. The dry pro-duct may readily be stored anywhere solution which has been used during the past several years. The dry pro-duct may readily be stored anywhere and is shipped at a greatly lesser cost for transportation and for package



Two Methods of Pruning-Which is Yours?

To the left may be seen a young it was an interval to recomm the surgery. In the centre is done and the second sec

11. Avoid injuring the cambium in any way

12. Don't leave your pruning to the hirad man

13. The more you understand trees the better you will prune them.

14. A severe heading-back will renew the tops of old peach trees

15. In transplanting be careful of the root hairs.

16. In transplanting cut back top and root. Do not head trees so low as to

17. interfere with cultivation. 18. Drastic pruning strikes at the

vitality of the tree. 19. Do not start all main limbs at the same height.

20. Keep the tree free of suckers. 21. Summer pruning induces fruitfulness

22. Torn wounds are generally

23. Paint over the large wounds.

24. Trees are delicate structures and require careful handling.

25. A heavy pruning is always fol-lowed by a heavy growth of suckers. 26. Never slit the bark, bore holes,

or drive nails into trees Never allow stock to prune your 27

trees 28. Unpruned orchards are not

money makers. 29. The orchard is not a profitable source of firewood.

30. Blackberries and black raspber-ries should always be tipped back in summer.

While in Burlington recently talk-ing to Mr. M. C. Smith, the manager of the Niagara Brand Spray Com-pany, we were shown samples of this new soluble sulphur, which is their new soluble sulphur, which is their exclusive product. One sample that had been dissolved in water to nearly One sample that the limit that the water would hold the limit that the water would hold in solution gave a test of 44 degrees on the Beaume Hydrometer. It might be made even stronger. One and a half pounds of this dry soluble sul-phur to a barrel of 40 gallons of water is sufficient to make the strength are visable for summer spraying. Ten pounds to 40 gallons is used for winer spraying or before the leaves be gin

to appear. There is not a sufficiency of the dry soluble sulphur available this year to take care of the demand. It. is Mr. Smith is bringing in two car loads, which he has already sold, from the New York State plant of his com-pany. Some 40 car loads of this new roduct is being turned out over there this season.

The Wentworth Fruit Growers Association started with 20 member-two years ago. For that year the Association started with 20 member two years arcs. For that year the handled 4,400 barrels of apples. Lar-year with an increase of 10 member they handled over the Oa system was apples. The the apple business. It was just as good a year to me as any year. -J. Dixon, Apple Buyer, Wentworth Co., Ont.

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half the With h as dottes, a to mate be most te a mal seen som of treme purposes Their ow and have because t upor Here, a a misua chickens birds. from the

be borne FR It is et the cold should be



good service.

Start the tree right Do not cut out large limbs. Keep your tools sharp. Never prune in frosty weather. Frost-bitten wounds are slow to heal 6. Never leave stubs in cutting off

HORTICULTURE

Pruning Maxims

7. Prune annually, but never heav-

8. Wounds heal most rapidly in the sprin

9. Heavy pruning conduces to wood growth

10. Never use a hatchet for removing suckers.

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************************ POULTRY YARD

A Wise Man's Plan

The wise man said one summer day: "Now eggs are cheap, for all hens

In the set of the set

come, When hen fruit works are out of

plumb, And then I'll bring them from my

store, And clear a ton cf wealth of more."

And so he leased a building tall, And filed it up from wall to wall With codles of refreshing eggs, In crates, in boxes, and in keggs; And then he waited for the time Of shricking gales and snow and rimes

rime. And planned a trip to Rome and Cork.

With sundry nights off in New York.

The winter came along full soon The whizing tempest didn't whiz, The whizing tempest didn't whiz,

The hens were sure the month was May, And each laid seven eggs a day.

The man of eggs soon went insane, Which shows that human plans are

vain; It also seems good evidence That hens have mighty little sense. —Walt Mason.

Number of Hens to Male By "Broadacres."

It does not matter where we go It does not matter where we ko much difference of oprinon is bound to exist on the right number of hens to give to each cockerel. We must not forget that a great deal depends on the situation of the poultry-farm. on the situation of the poultry-farm. In exposed places or, perhaps, in cases where no scratching-sheds are previded, and the birds are exposed to all the winds that blow, then a considerably less number of hens should be mated than where the breeding-stock receive every atten-tion and are housed on the mateu-ticada lines. Berewhell to set up-ted the time because the state of the set of the vinced there is no hard-and-fast rule which can be laid down that would properly answer the above question.

properly answer the above question. properly answer the above question. meetings I have seen prine of non-string a third wing with wreatly or and high a thirdy so with versity or and high a thirdy so with versity of the cockerel. These birds in the second hard so and the num-ber of strongly-fortilized eggs has been far in excess of there breeding-pers on the same farm with, perhaps, half the number of hens used. With all general-purpose forels, such as Orpington, Rocks, Wyan-dottes, and Parceolles, it is necessary

dottes, and Faverolles, it is necessary dottes, and Faverolles, it is necessary to mate them very carefully--it would be most foolish to risk twenty hens it a male bird of this kind. I have seen some pens of Orpingtons, Lirds of tremendous size, yet for breeding purposes they were almost workhdes. Their owners have become disgusted, and have given up this variety simply because the gage could not be advected and have given up this variety aimply because the cugs could not be depend-ed upon for hatching purposes. Here, again, the norice must be guarded agains big cockerels. It is a mistake to think if we want largo elickens we must have largo male from Size and type generally come from big and the second big and the bound in mid be borne in mid.

FEWER HENS IN WINTER It is corrywhere admitted that in the cold winter months far less hens abould be given to a cockerel. I have

FARM AND DAIRY

sometimes heard it stated that during sometimes heard it stated that during winter periaps cnjt ten hons in a large flock are laying, and these will be the only ones that should receive attention from the male bird. Still, this method is not always successful, and a man who fries mating quite a lot of birds in the carly part of the year, even though he may use a vig-our endering grave risks. I will never addening grave risks. I will never of the mane of ivit to each use has her draventing.

give to each male bird according to the time of year and the breeds chos-en. In December, January, and Feb-ruary, six or eight hens will be quite ruary, six or eight hens will be quite sufficient to mate to an active cook-ored in any of the general-purpose varietios. Although few nen-activity breeds will be used for hatching pur-poses, as many as ten hens can be given by those who are desirous of having early chickens. In the months of March. April, and May, 15 hens will be the highest number to give to general-purpose cockerels, and 20 in non-sitting varieties when allowed free range. If the birds are confined, then a less number must be given.

Start Now to Get Eggs in Winter

(Continued from page 8.) (Continued from page 6.) think the most important. I am not one of those. Unless the stock is strong, active, and well developed, no amount of scientific feeding will produce profitable results. We di-vide feeding into two periods-before and after the nulle begins before The recting into two periods—periods and after the pullet begins to lay, During the first period the great ob-ject to be obtained is a rapid de-velopment and vigorous constitution. velopment and vigorous constitution. Exercise is a great promoter of both. But exercise if carried too far be-comes work, and overwork is not conducive to either development or vigor. Farmers' hens only average 60 eggs per year because they are compelled to work all day and wan-det all over the farm in the effort to det all over the farm in the effort to det all over the farm in the effort to densequently dub key their vitality and have over left ato produce eggs. produce eggs. FEED IN FIRST PERIOD

PRED IN FIRST PERIOD During the first period in which the chicks are on free range, some hoppers are filled with hole grain. I use wheat, oats, and hole grain. Use wheat, oats, and hole grains. Hoppers are filled with dry mush, consisting of bran, ground oats, buckwheat, middlings, and sufficient protein. For the latter, I prefer sour milk, and when that is short I add ground green bone or oil cake meal and make a ration with nutrivive equivalent to one and four.

hins, and were mat is short i add ground green bone or oil cake meal and make a ration with nutritive equivalent to one and for. When the chicks go into the winter When the chicks go into the winter the whole grain is scatter-ed in the whole grain is scatter-ding the whole grain they wet it with sour milk and double the amount of protein. At night they are given all the whole grain they will est. When milk is plentiful, 1 give the hens a dish of milk to drink. I would as soon try to raise a baby without milk as a chicken. Each pen has a three-apartment hopper containing grit, oyster shell, and charcal. I also raise a great homer of cabbages and keep one handle of a public field sufficient greed food I publi afford sufficient greed food I publi afford sufficient greed food I publi afford sufficient great food a stages I feed all the here will est. There is no danger of get-ting your hens too fat, provided you are feeding a balanced ration. A hen makes no attempt to produce an tegg unit she has taken sufficient food for her own sustenance and the egg is formed from the surplus. If she gets a surplus she has got to lay, because shc annot help herself.



CANADIAN ENGINES Limited, DUNNVILLE, ONT.

n, Sole Selling Agents are

SMITHS' FALLS, ONT.

East of Peterboro, Ont., and in Quebec and M.

THE FROST & WOOD CO., Limited,



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------Our Veterinary Adviser

RETENTION OF AFTERNETH-were RETENTION OF AFTERNETH-were have a cow that has not thrown off her afterbirth for the past two years. Could you teil us what we could feed her to roots wive daily, one shear and a haif of corn daily, and straw and chop on top of the roots. This cow is due to call soon and we would like advice in this many H. I. Nerth Co. Out. 1

This condition occurs under all conditions, and no satisfactory rea-sons can braiven. While cood care, comfortable quarters, and laxative food tend to avert it, even this food fails in many cases. When a cow fails in many cases. When a has not expelled the afterbirth has not expelled the afterbirth in at most 48 hours after calving, it should be removed by hand, as neither medi-cines nor food have any effect. The operator should be as careful as posoperator should be as careful as pos-sible not to remove any of the little lumps (called colyledons) that are attached to the womb. Be careful to remove all the membranes and then flush out the womb with a warm one per cent. solution of creolin or zenoleum. It is better to get a veterinarian or some person who has had experience to operate, as if an amateur attempts it, unless there be someone on hand to give instructions and examine to see that it has all been removed, it is probable he will not be successful.

CHRONIC LAMINITIS .- What is good for horse that has bad hoofs? He was driva horse that has bad hoofs? He was driv-en badly, came in wet, was given water right away and then his oats. From then his hoofs attried to rot. It is now three years since they started and the honse can hardly stand. What can be done?-G. R., Waterloo Co., Ont.

The horse suffered from acute laminitis (founder) which might have been expected from the way he was Seen expected from the way he was used. Prompt and proper treatment would probably have resulted in re-covery, but the trouble has beccase chronic and a complete cure cannot be effected. The symptoms may be lessened and the horas rendered of some use for slow work, by repeatedly blistering the coronet and giving a few months' rest. Get a blister made cf two drams each of biniodido of mer-cury and cantharides mixed with two ounces vaseline. Clip the hair off for two inches high all around the hoofs, tie so that he cannot bite the parts. Rub with the blister once daily for two days. On the third day apply sweet oil and turn in bcx stall. Oil every day until the scale comes off, then tie up and blister again and af-ter this blister every four weeks so long as you can give him rest. Before you commence to work him get him shod with bar shoes giving good frog pressure and when not on grass keep the feet soft by applying water. by poulticing, soaking, swabs or other means

The curry comb should be used as frequently in the cow stable as on the horses.

A definite set hour for milking and feeding is worth hundreds of pounds of feed in the course of a winter.

The nervous cow is preferred to a stolid one. She will give more milk and is just as easy to handle-provided you go about it in the right way.

The curry comb supplemented by stiff brush are worth lots of good feed in the cow stable. The main requisite is a man with grit and patience to use them.

Have a place for everything an everything in its place. Right off, do you know where the stable showd and the manure lork are at this present moment.

Cimited TORONTON ON WINNIPLC

Write for it.

1913

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IRTH.-Wo wn off her ars. Could bed her to are feeding and a half hop on top ue to calf ce in this

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icute lamght have treatment ted in re-as Leccme re cannot s may be ndered of repeatedly giving ister made de of mer-l with two air off for the hoofs the parts daily for day apply stall. Oil comes in and afweeks so weeks so rest. Be-k him get iving good t on grass ing water, os or other

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thing and Right off. March 20, 1913

British Columbia Dairying

As seen by Prof. Hugh. G. Van Pelt, "What do you think of our coun-try?" is the first question the entertry?" is the first question the enter-prising newspaper reporter asks of the divinguished visitor. And al-though hundreds of "distinguished visitors" have expressed their opin-ions we are still interested in the opinions of each new visitor. When loss we are still interested in the opinions of each new visitor. When a distinguished United States pro-fessor, and one of the greatest dairy authorities in that country visits one of our dairy district we dairymen are of our dairy district we dairymen are at once interested in his opinions of a man, Prof. Hugh G. Van Petr, re-cently visited the annual meeting of the British Columbia Dairymen's Association. He tells something of his impressions of our western pro-bis impressions of our western pro-bis famore will have tritish Columity to see themseives and their country to see themseives and their country. as another has seen them, and we re-produce Professor Van Pelt's impressions in full

produce release the tens unpre-sions in full: "British Columbia is an interesting country. It promises to be one of the weal'hiest and best arricultural provinces of Canada. It is a large territory including Vancouver and other adjacent islands. It equals in area slight times the State of Wiscon-sin. In the past its wealth has come largely from its mines, fisheries and forests. These are still inclustries of great importance. The rapidity with which the cities of Victoria, Vancou-ror, New Westiminster and others are growing, together with the increase growing, together with the increase

Homeseekers', Settlers', and Colonist Excursion to the West

Those taking advantage of above Excursions should bear in mind the many exclusive features offered by the Canadian Pacific Railway in com-nection with a trip to the West. It is the only all-Canadian route. Only line operating through takins to be the second strain the term of the standard and tourist sleeper the wal-standard and tourist sleeper the wal-nipeg and Vancouver. All equip-ment is owned and operated by Can-adian Pacific Railway, affording the hishest form of efficiency. The strate will be in effect each Tuesday, March 3rd to October Sch inclusive, and round-trip second-daian Pacific Railway, affording the hishest form of efficiency. The strate will be supported with the optimation of the strate will be in effect each Tuesday, March 3rd 5, Edmonton and return 848, and other points in proportiof. Return limit, two months. Each Tuesday during March and April, the Canadian Pacific will two student of Settlers traveling with hive stoch of Settlers traveling with stock for feetnes. The set will be at-tached to settlers' traves train leaving trained above. For those not traveling with stock and effects, special Colonist cars will watched to regular train leaving. Tourist sleeping cars are also op-mented with 0, 50 p.m., are and we wall be settlers' effects train as mentioned above. For these not traveling with stock and effects, special Colonist cars. Tourist sleeping cars are also op-mation in Colonist cars. Tourist sleeping cars are also op-mation be median the leaving to-Those taking advantage of above Excursions should bear in mind the

Tourist sleeping cars are also op-ated on regular train leaving Tor-

erated on regular train leaving Tor-onto 10.20 p.m. One-way Colonist Rates to Van-couver, Victoria, Santtle, Wash., Spo-kane, Wash., Portland, Ore., Nelson, B.C., Los Angeles, Cal., San Diego, Cal., San Francisco, Cal., etc., will be in effect daily March 15th to April 15th inclusive.

Full particulars from any C.P.R. Agent, or write M. G. Murphy, Dis-trict Passenger Agent, Toronto.

FARM AND DAIRY

of rural population, is making the problem of feeding the people as mo-mentous one. Much of the land one-ing to its mountainous character is fitted only for grazing purposes and largely because of this, the fortile valleys in which the climate is mod-erated and equalized by the ocean currents, are the more valuable. A PLAE IMPRESSON CORRECTED "One of our citizens thinking of

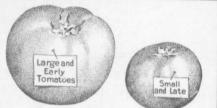
currents, are the more valuable. A MIAE INFRESSION CORRECTED of Canada here citizens thinking of Canada here citizens thinking of Canada here citizens thinking of the control of the state of the control but not after he miss of cheap lands but not after he miss of cheap lands but not after he miss of the control for \$150 per acre and 11 costs in equal amount to clear their location. This necessitates most intelligent farming to make a profit. Practical farmers who live there believe the prices too high. They attribute them to the real estate men who have sub-divided farms into five and 10 acre bus and sold them to city farmers advantues they have pictured the advantue of the purpose. As a rule, however, it is the Chinaman or Hindoo who makes the call success under such conditions. They demon-strate by methods of economy that the American farmer such apprent least 40 acres to succeed well

least 40 acres to succeed well. WI DUBARYNG 18 ADOFTED "Much fruits and a ADOFTED raised but those interested in agri-cultural affairs know well that agri-tility from the soil and returns noth-ing can not continue long. They have therefore been looking about for some these of agriculture equally profit-able that will maintain the richness of their lands. Thinking men have

phase of agriculture equally profit-able that will maintain the richness of their lands. Thinking men there learned that dairing supplemented with hog and polity raising is the solution of the problem. It is not hard to prove this truth to the farm-er either, for in the citise eggs soil from 40 to 600 per dozen, hegg for 110 per pound and all milk being pro-duced at this time is utilized for the city milk apply, netting the farmer 600 per pound for butterfat. "Furthermore, owing to elimate contaitions, it costs little more to pro-duced at this time is defined barley, the containt the commodities than it does in these commodities than it does not be and the problem in raising alfalta because of the great in of the ruly in many parts of the province. This also makes it difficult to says the forst crop of clover and together with cool nights hindres the maturing of the corn plant so that as yet little with cool nights hinders the maturing of the corn plant so that as yet little silage has been made. There are those, however, who are experiment-ing on varieties of corn that will ma-ture sufficiently for silage and it is only a few years until British Colum-bia will have many allos. cows mon \$100 to \$1,200 "Good cows are scarce and in greet

cows rmox \$100 to \$1,200 "Good cows are scarce and in great demand, as they are in nearly all lo-calities. Grade dairy cows soll read-ily for \$100 and upwards while pure bred cows have aiready exceeded the \$1,200 mark. Like the western coast of the United States, the climate and of the United States, the climate and of the United States, the climate and soil conditions seem sepocially adapt-ed to dairying and when the country becomes stooled with good founda-tion herds the dairy industry will advance rapidly and great records will be common. City folks will wel-come the day, for now much of the butter they est is imported from Au-tralia. The sessions of the conven-tion were therefore alive with en-thusiasm."





Progressive Jones Says: "The Early Tomato Gets The Fat Price"

HEREFORE, we want the early tomato. I've just been reading a letter from F. G. Bridge of St. James Park, near London, Ont., who has had great success in growing early tomatoes. He says: "The



purchased have done all claimed for them and more. Where I put Harab on omatoes, the fruit is larger and ripening early, and where I did not use the Ferti-ter the fruit is very small and going to be late."

You can have just as great nuccess with your formatoes as Mr. Bridge, and scores of others, if you errich your soil with Harab FeriBiters. Harab No. 12 contains just the amount of Nitrogen, Phosphoric Acid and Porash required to start the young tomato plant off right and push it to early maturity, increasing and improving the fruit as well.

the fruit as well. My experience has shown that, while stable manured supply the human to hold the mature in the ground, they need the asistance of ridler, well-halow of ferti-tions of the longest yield and to bring the toranacos to easily of the Mo. W. A. Thrache longest yield and to bring the toranacos to easily Mo. W. A. Thrache and the form an adjoining flot tratact with stable plot treated with Harab Fortilizer than from an adjoining flot tratact with stable the form the treatment of the tratact toraction of the tratact toraction of the transformation of transformation of the transformation of transformation of the transformation of the transformation of the transformation of transformation of transformation of the transformation of the transformation of the transformation of transformation of the transformation of transformation of the transformation of the transformation of the transformation of transformation of the transformation of the transformation of transformation of the transformation of transformation of the transformation of transfo

manure. I find from experience that soil fertilized with manure produces a large growth of vine, and while the vines may be loaded the fruit is undeveloped and ripens late, if at all. On the other land where Harab No. 14 find the vine development moderate, while the fruit is more plentiful, larger and ripens earlier.



Réspinent moterate, wans entre and entre rivering of your tomatees—and Using the topose fertiliters maans the only rivering of your tomatees—and are vestables—and the fait price for you. The first first state of the state and the state of the state of the state of the state of the state fait state of the state advise you to write for a copy.

Yours for the fat price;

Progressive Jones

14

The most lasting material known. Blocks are air tight and moisture proof. They are giazed and keep sliage sweet and palatable. No hoops to tighten no staves to paint. Never swells or shrinks. Attractive in appearance—a silo that will improve the looks of your farm. Any Mason Can Build a Natco Everlasting Silo Once up - it will last a lifetime without needing repairs. We have all page illustrated book on siles and slinge. We have a so page illustrated book on siles and slinge. Information. It could a stift the shabel feeding prominent writers. Including Prof. Ituch G. Van Polt. Sent FIEE on request. Ark for catalog 4. Everlasting, NATIONAL FIRE PROOF-ING COMPANY OF Silos CANADA, Limited etak TOPONTO CANADA

Fertilizers "FARM DAVIES' WAY" Lowest prices given on best grades of Complete fertilizers, Nitrate of Soda, h, Superphosphate, etc. Write us of needs and ask for prices. THE WILLIAM DAVIES CO., LTD. CRAMPSEY & KELLY, DOVERCOURT RD., TORONTO, ONT



Yes Sir! We can show you how to make it in potatoes, over and above the cost of seed, fertilizer, labor, marketing and your own time. With the market price \$1.00 a bag-and better, it's worth

while going in strong for potatoes and getting every last bushel the ground will yield.

We can show you how to grow 240 bushels to the acre: how to get a double crop from the same outlay of labor and seed.



FARM AND DAIRY

The C. S. G. A. Convention The ninth annual convention of the Canadian Seed Growers' Association, held at Ottawa recently, more resem-bled a gathering of seed experts than of seed growers. The secretary of the association, Mr. L. H. Newman, was especially desirous that farmers genvention, but the lack of interest shown by the growers in the annual meeting, is not indicative of a lack of interest in the work of the association. In his annual report as secre-tary, Mr. L. H. Newman stated that applications for membership received applications for memoership received during 1912 number 118 as compared with 50 during 1911. This makes a total of 464 farmers now working in cooperation with the association. The amount of registered seed catalogued amount of regressed catalogued for sale in this year's price list is 470,715 lbs., a falling off of about 8.000 lbs. from the previous year. The amount of improved seed listed shows a more serious falling off. 185,182 lbs. as compared with 362,240 lbs. a year ago. This decrease Mr. Ibs. a year ago. This decrease Mr. Newman attributed entirely to the bad seeason of 1912, which ruined a large quantity of grains for seeding purposes. He reported that 5,000 copies of their price list had been distributed throughout Canada.

The work of the Association should be extended. Mr. Newman stated that he is continually receiving applications for large lots of seed and with the members as widely scatter-ed as they now are, it is impossible to fill these orders. Even in small ed as they now are, it is impossible to fill these orders. Even in small lots the production of the members does not begin to meet the demand. "We therefore recommend," said Mr. Newman, "that definite work be un-dertaken towards meeting the above situation by establishing seed centres or district in which a number of the or districts in which a number of the best farmers will be encouraged to best farmers will be encouraged to join the association and take up in a business-like way the growing of registered seed in quantities. In this connection it is recommended that the 'Illustration Farmers' of the Conservation Commission be especially encouraged to take up this work and to make seed growing for their locality a feature of their farms."

LET PROVINCES COOPERATE

resolution was passed by board of the association authorizing the executive to interview the various provinces and obtain their views as to full cooperation by them in the general work of encouraging the growing of registered seed within their respective borders. The board also recommended that the provin-The board cial departments follow the principle of organizing cooperative associations for the growing, purchase and sale of

for the growing, purchase and sale of seed as a means of assisting persons interested to secure high class seed. Mr. T. G. Raynor, who represents the C. S. G. A. in Eastern Ontario, saw hope for the future in applica-tions that he had received from sereral of the district representatives of the Ontario Department of Agricul the Ontario Department of Agricu-ture for supplies of pedigreed seed for distribution to public school scholars, who would plant it in their seed plots. Speaking for Western seed plots. Speaking for Western Ontario, W. J. Lennox said that Ontario, W. J. Lennox said that much of the success of the corn growmuch of the success of the corn grow-ers in his constituency was due to localization. In the West there are as many members of the association working in corn as in all the other crops together. He noted a gratifying increase in membership, mention-ing particularly the Bruce Peninsula where 25 men will this year carry on whereas previously there was not one member from that section.

GREAT VARIATIONS IN COMMERCIAL SEED E. D. Eddy, B. S. A., of the Seed Branch at Ottawa, summarized the results of two years' work in testing

March 20, 1913



6130 primers an nonnessend. Price, Built or results upon the home-teed or pre-smption six months in each of six years from date of homesteed entry (including the time regimed to fity acres estate. Such and colirate M homesteed risks and contract. A homesteeder who has estansied hi-homesteed risks and contract. A homesteeder who has estansied hi-homesteed risks and contract and contain districts. Price, 84.00 pri-ses, Duits, Must reside ait months in each of sures years, collivers fity acres and erce a how the years of the state-ing of the statistics of the Interior N-R-Unauthorized publication of this advertisement will not be paid for.

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field root seeds of commerce to prove genuineness of stock. Mr. Eddy did not consider that the work had been carried on long enough to justify them in making public their results. not consider that the work had been carried on long enough to justify them in making public their results. Chance they would produce \$70 worth Their experiments, however, showed of butter in the essent would produce \$70 worth remarkable variation between seed of the same variety as sold by differ-of the same variety as sold by differ-them heifers, strenged \$70 for butter several names, and that in one pack-lations lattice ware strenged \$70 for butter were stripter. We raised 25 calves. have been with mangel and sugar for 10 days, then gradually adding mangel seed. In one test of the Red

FARM AND DAIRY

A Winter Dairyman's Testimony

Thos. Malcolm, Bruce Co., Ont.



A Good Style of Handling Manure, but Capable of Abuse

Dropping the manure in the field in piles so small that it freezes right through some of the second second

Globe variety only 20 per cent. of the weeks they were getting all akim seed produced true to name. In one milk and eating some oats. This test with the Yellow Globe only seven meant that we fed considerably over per cent. of the roots were of the one cow's milk to the calves for the per cent. of the roots were of the Globe type and the balance were in-termediate to long. As a class Mr. Eddy found that the Long Reds seemed to be the most uniform and best fixed type of managel. With tur-nips there was less abuse of variety names. All of this indicates the nec-essity of further work along the same line.

line. An address of great practical value was that presented by Prof. C. A. Zavits on "Thickness of Seeding in Gereal Grains." This address is given in full on page three of Farm and Dairy this week. An address given by Mr. G. H. Cark, Dominion Seed



Preserving Manure Out of Doors

When it is not convenient to haul the manure directly to the field from the stable, the pile should be tramped com-pactly and made at least six for high with the sides as straight ag possible. The illustration shows a model manure rick.

Commissioner on "Method of Improv-ing the Seed Supply of Field Roots and Vegetable Crops in Canada," will also be given fully in a later

A scheme to encourage the smaller stock breeders to exhibit was adopted by the Central Canada Fair directors at the annual meeting recently. The Fair Association will pay freight The Fair Association will pay freight charges, from the last point of ship-ment, on all live stock coming to Ottawa's 1913 Exhibition from points in the Provinces of Ontario and Que-bec. In some instances, the freight will be from some other Fair, and in others, from the home of the exhibit-or. The animals will also be convey-ed home, without charge to the owner. A feature of the Dominion Exhibition in Ottawa last year was the payment a resurve of the Dominion Exhibition in Ottawa last year was the payment of freight rates up to a 100 mile radius of Ottawa. The experience was very gratifying. Hence the ex-tension of the policy.

whole season. We have not done much selecting there are some of

We have not done much selecting of our cows yet and there are some of them which bring down the average. A number of them, if taken separate-A many of them, if taken separate-ity, would run neares \$125 than \$70; and you from neares \$125 than \$70; and you from neares \$126 than \$70; and you from the second second second siderable more way. The fact that in all the years you. The fact that in all the years you. The fact dairying we have neare had us been force the cows. About 70 per cent. of these cows fraken in October. November and December, and the balance through the winter. What one has done another can do if he tries.

MOST MONEY IN WINTER

NORT MONEY IN WINTER MORT MONEY IN WINTER The staple articles sold were. But-ter, cattle, logs. The two banner months for butter were February and March. The account shows this §300 worth of butter were made each of these months. I consider this not too bad for zero weather and snow storms, and not too bad is ob either; I consider it a stage in advance of questing wood in the bush. I should have mentioned that we pastured all have mentioned cattle at present is 100, all borned cattle at present is 100, all borned cattle lere in the past, that is prasticed liere in the part of the part of the stary of seven months in milting cows six or seven months in diffing cows six or seven months in the part of the stary that has be prasticed liere in the past, that is not present of the stary is no good. Then there is the highest

the butter is the highest in price, is no good. Then there is the hired man prob-here were a daily confronted with the scause people are making, who are giving up farming because they cannot obtain hired help. This is into a scause and nothing more; they draw the hired help. Give a man work it he hired help. Give a man work it he hired help. Give a man work is the hired help. Give a man here here are always able to get man when are always able to get man when are always able to get man when are always able to get man here here in the miking you will have no purging. In fact the pleasantest hourier work in the day are the night and morning thiking hours, especially in the win-



Reap The Benefits of Available Plant Food



In a favorable season crops will make enormous gains if they are given the available plant food necessary to support them. No soil contains enough avail-able plan't food for a bumper crop, or enough

to prevent an unprofitable crop in a bad season. A good fertilizer increases the yield and the profit, but the plant food should be in forms available to the growing needs of the crop.

The A. A. C. Co.'s Fertilizers are manufactured from the best materials, and special factory treatment makes them highly available.

Wherever you live, we can reach you with the right fertilizer, the right service and the right price. Write today for a copy of "Plant Food," a practical hand book on fertility. No advertising in it; sent without cost, while this edition lasts.

Agents wanted in unoccupied territory. Liberal terms and goods that sell. It pays to sell our fertilizers as well as use them. Ask for agency proposition.

The American Agricultural Chemical Co.

Makers of brands with fifty	years of quality	and results behind them
70 Lyman St.,		Buffalo, N.Y
P.O. Box 814-F		Detroit, Mich



pose plowing. Both plows have a strong, all-steel frame, with easilyoperated and convenient hand levers. Each frame is carried on a large landwheel and on front and rear furrow wheels, which have dustproof, self-oiling

Both furrow wheels are connected to and controlled by the pole. This arrangement results in easy guidance.

bearings.

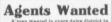
Bottoms, with knife or rolling colter, for any kind of soil, are supplied to meet the needs of each buyer.

The "Beaver" Plows are prime favorites. They have remark-able sales. They meet general farming needs perfectly. Get the "Cock-shutt" Catalogue for full details. T

THE "Beaver" Plows are prime

Write to-day for full particulars and Catalogue detailing "Beaver" Plows. It comes for a postcard. Write to-day.

COCKSHUTT PLOW CO. LIMITED BRANTFORD, WINNIPEG For Sale in Eastern Ontario and Eastern Canada by THE FROST & WOOD COMPANY LIMITED Montreal, SMITHS FALLS, St. John, N.B.

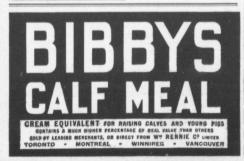


A man wanted in every dairy district to collect renewals and get new subscriptions. Hustlers needed who will cover the district thoroughly by spring. Stateoccupation and if can work entire or spare time.

FARM AND DAIRY, Peterboro

TWO CENTS A WORD, CASH WITH ORDER FOR SALE-Iron Pipe, Pulleys, Belting, Rails, Chain Wire Fencing, Iron Posta, etc., all sizes. very cheap. Send for list. stating what you want. - The Imperial Waste and Metal Co. Dept. F. D., Queen Sirvet. Montreal

FOR SALE AND WANT ADVERTISING



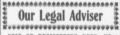
FARM AND DAIRY

Anent the Retail Milk Trade What price do retailers get for milk in the different towns and olties and how much a pound of butter fat in orecan What price can one afford to pay for ieed to produce 100 Hbs. of milk and inave 10 per cent. on his investment?-A. J. McV., Middlesex, Co., Ont. The price of milk and cream varies

very widely in different towns and cities. The retail price of milk varies from five cents a quart delivered at the customers door in some of our the customers door in some of our smaller towns to nine cents a quart in our cities and for certified milk con-siderably higher is paid. Milk at five cents a quart is equivalent to \$2 a cvt. and at nine cents, \$3 60 a cvt. Orean is not retailed on its butter fat basis, but by the quart, the price varying from 25 to 60 cents a quart

varying from 25 to 60 cents a quart according to the locality in which it is sold. Cream testing 22 per cent. will restail at 20 to 60 cents a quarts, or 50 cents to \$1.08 a lb, butter fat. It would be quive impossible to state how much one could afferd to pay for feed to produce 100 lbs, of milk and have 10 per cent, on the investment. So many varying factors would affer the second state of the state of the second stat

So many varying factors would enter into this calculation that the price that might leave one man 10 per cent. to another man. The efficiency of the management, the value of the plant, management, the value of the plant, the distance to market, the quality of the cows, and the ability of the feeder would all have their effect on the dividends. In fact, under average conditions, we dcubt if it is possible for a man to buy all of the feed that will be eaten by his cows, retail the milk to the customer's door with all the the expense that involves and make 10 per cent. on his investment. We would need very full information to answer the latter part of this en quiry at all satisfactorily.



COST OF REGISTERING DEED .-- What does it cost to register a deed in real estate in Ontario?-J. C., Peterboro Co.,

The charge for registering a deed of land in Ontario is \$1.40. This is the fee for registering any deed of exceeds 700 words there is an addi-tional charge of 15 cents for every 100 words up to 1,400 words, with an ad-ditional charge of 10 cents for every 100 words over 1,400.

TREES ON BOUNDARY.--I notified my neighbor to remove all his branches that property and he only removed a part of the lower ones. What steps would 1 have to take to have him remove the rest of Imm--J.E.V. branches for remove has branches for remove has

branches after request on your part you cut them yourself doing no un-necessary dawage. You had better see a lawyer before doing so.

LIABILITY IN MUTUAL INSURANCE COMPANY-Can an insurance company, doing business on the premium note say tem, having failed as did the Farmers' of the premium mote? Are the policy-holders insured in the empany considered part of the company? Are the policy-holders liable in case of failure of com-pany to any jubilities of the said com-any to any jubilities of the said com-an collect in case of failure the face

can collect in case of failure the face value of the premium notes given by any of the parties having insurance with the company, and if there is any stock in addition subscribed for in the company it can also be collected if not paid. All policyholders are If not paid, All ponynoiders are liable for the amount of their prem-ium notes, and if they have sub-scriled for stock or render themselves liable in any other way they will be liable to the extent of their liability.



Biber, Bwine and Poultry from Gleasons' Veterinary and Horse Taming Book It contains 620 pages, illustrated, gives all the medicine, doese and tone boets. Paper bound edition given free for ne New subscription that you will send to be a la to a la to a la to ne New subscription that you will send to be a la to a la to a la to ne way the sense of mailing. Handeeme solub hound edition, on the quality paper, 80 cents additional best winable books are available. Tama Anne May Perference on Anne heave winable books are available.

FARM AND DAIRY, PETERBORO, ONT.

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Mr. Pe ed address Laborator ed. It is tle people keeping e young peo of the thin such as b have so n thing to d a chance t life as I h appreciate have on t

************************* **APICULTURE**

The Possibilities of Bees Chas. Blake, Frontenac Co., Ont.

It is now time to think about or-It is now time to think about or-dering supplies and lumber with which to make hives for our bees in the spring and I have been wonder-ing if Farm and Dairy readers are prepared for the spring work. While

small fruits and do much better than small fruits and do much better than many who are working in cities and receiving a salary which enables them to pay their board and buy clothes and not too many of them at that. Even if you cannot make §2 a hen or §5 to \$10 a hire of bees, others have and you will not find the job overcrowded. Bees and hens are profitable if one starts right and they are property cared for.

prontation if one starts right and they are properly cared for. To illustrate what can be done with bees I will give an instance of where a young man last year, who



A Good Living with Little Land made possible with Bees

In Outario there are men making incomes running into the thousands on a quarter of an acre to an acro of land. This is made possible through bees. The bee yard of one of these men, Mr. Chan. Black, Front, Co., Ont., may be here seen. Notice the portable extracting house to the right.

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parsing through Kingston recently I had the pleasure of meeting the bee-keepers of Frontenae who, I am glad the start is the second a County Asso-tiation of the second and the second action to these place the second action of the subject worth looking into. When one is just starting in beekeeping, or already has bees that are not in standard hives, such advice as we received that day is just what is meeded. It need not cost a great sum to have bees in the best of hives, as any young mar who knows something of an are of carpenter's tools can of an action of the second birth of the second of the Langstroth report of the second birth of the Langstroth report of the second birth of the Langstroth report of the second birth of the second birth of the second birth of the second birth of the Langstroth report of the second birth of the second birth of the Langstroth report of the second birth of th of the Langstroth style as a guide that one may be sure of having all

Queen Cella

This frame on which are 30 queen cells, shows the success of Mr. Chas Blake, Prontenac Co., Ont., in his first attempt at queen rearing by the Dines method.

measurements the same. A well nailmeasurements the same. A well nam-ed box corner hive will stand a great number of years if well painted, but no man who has not the use of a power saw can make the frames nearly as good as those put out by the bee supply manufacturers.

INTEREST ON THE FARM

Mr. Pettitt also gave an illustrat-ed address on "Bees in Quebec Medical Laboratory," which was much enjoy-Laboratory, which was hunch enjoy-ed. It is surprising to note how lit-tle people know about bees and bee-keeping even on the farm. If the young people of the farm would take the trouble and time to study some of the thing, that they are avey day. the trouble and time to study some of the things that they see every day, such as bees or hena, we would not have so many trying find some thing to do ''in town.'' If they had a chance to see both sides of such a schance to see both sides of such a spreciate whey would be able to a small call. Both nuts and have on the farm. Even the farm girls can keep bees and hene, or grow the trouble and time to study some of the things that they see every day, such as bees or heas, we would not have so may be the would be able thing to do "in town." If they had a chance to see hoth sides of such a life as I have, they would be able to appreciate what grand chances they have an the farm. Even the farm

of one of these men. Mr. URB. Hase, Frontenge Vol. URL, hay be here seen. Notice the portable extracting house to the table of the sector of t as he now has six of his old box hives for stock and seven in standard hives to work for honey. This young man is not the only one who has bees that do not pay the taxee but give lots of work in the swarming season and lit-tle else. But this is because they are not understand on small for at the understood or cared for at the right time.

Bee Notes

D. Anguish, Middlesex Co, Ont.

I see by Farm and Dairy, February I see by Farm and Dairy, February 37th, that this winter has been a re-markably easy one or has been a re-markably easy one or how with the some instances, but conditioning the cases. The bee-keepers who takalter of their bees are never alarmed whether it is a cold or mild winter. But they are all very anxious about the clovers. Mostly all of the large bee-keepers would rather have a severe winter, with lots of snow, than a winter like the one through which we are now passing.

a winter like the one through which we are now passing. Beckeepers who did not feed their bees well last fall will have to watch very closely towards spring for the bees are likely to consume more stores this winter than usual, on account of the mild winter.

Over 500 short course students were recently in attendance at a school in Prince Edward Island to learn how to pack apples in boxes.

FARM AND DAIRY



(15)

341

Buy an Engine with Reserve Power

FARM power needs are seldom the same for any

FARM power needs are seniori the same for any two days together. You never can tell when extra power will be needed. For this reason it is best to buy an engine a little larger than you ordinarily need. The engine with ten to twenty per cent of reserve power will often save enough to pay for itself just by its capacity for carrying you through emergencies.

I H C Oil and Gas Engines

are large for their rated capacity. They are designed to run at the lowest possible speed to develop their power because that increases the durability of their rated capacity. They are designed to run at the overst present speed at which are complete will develop from ten to vary the speed at will rate of the speed speed at the speed or un your feed grinder, pump grindstope power. You can use it separator or any farm machine to which power can short pools, cream 1 H C engines are built vertical, horizontal, stationary, portable, askided, air cooled — in 1 to Schores power sizes. They operate on gas, gasoline, kerosene, naphtha, distillato or alcohol. 1 H C trac-tors in sizes from 210 colo-horse power. See the 1 H C local agent. The speed from hin, or, address the nearest branch house.

International Harvester Company of Canada, Ltd BRANCH HOUSES At Brandon, Calgary, Edmonton, Esteran, Hamilton, Lethbridge, London, Montre N. Battleford, Ottawa, Quebec, Regina, Sankatoon, St. John, Winniper, Yorki



A RIDCE OR A FURROW can both be cultivated at the same time and at the same depth with the PETER HAMILTON FLASTIC CULTIVA-TOR, because more pressure can be applied to the Gang Sections of Teeth in the furrow, and less pressure to the teeth on the ridge, and the adjustment can be made in a jiffy, without loosening any nuts or bolts.

THE WHIFFLE TREES are attached in line with the sections. The draft is light, and there is no chafing of the horses' necks.

THE SECTIONS are made out of heavy extra stiff steel, and will not bend, and the teeth are reinforced with an exceptionally good helper, and will stand all kinds of rough usage.

For "RESULTS" buy a Peter Hamilton Cultivator. It means Dollars in your pocket.

The Peter Hamilton Co., Limited Peterborough, Ont.

Sold by THE JOHN DEERE PLOW COMPANY DEALERS

FARM AND DAIRY AND RURAL HOME

Published by the Rural Publishing Company, Limited.

and Date

1. FARM AND DAIRY is published every Thuraday. It is the official organ of the British Columbia, Eastern and Western Dairymen's Associations, and of the Cana-dian Holstein Cattle Breeders' Association, U.S. Representative: W. H. Stockwell, 63 People's Gas Building, Chicago, III.

629 People's Gas Buildings, Chicago, Ill. 2. SUBSCRIPTION PRICE, SLee a year. Great Britain, SLOB a year. For all scan-distribution of subscriptions are sent to all subscribers, who then continue to receive the paper until they send notice of the subscribers, who then continue to receive the paper and the sent scale of the distribution of subscriptions are sent of timed for more than one year after date of expiration. A year's subscription free for a sciub of two new subscriptions.

Tor a club of two new subseribers. 3. REMITANCES should be made by Post Office or Money Order, or Registered Lotter. Postage stamps accepted for amounts less than \$100. On all checks add 20 cents for exchange fee required at the banks.

4. CHANGE OF ADDRESS. - When change of address is ordered, both old and new addresses must be given. the

5. ADVERTISING RATES quoted on ap plication. Copy received up to the Friday preceding the following week's issue.

WE INVITE FARMERS to write us on Any agricultural topic. We are always pleased to receive practical articles.

CIRCULATION STATEMENT CIRCULATION STATEMENT The paids subscriptions to Farm and Dairy exceed 15,318. The actual circula-tion of each issue, including copies of the paper steat subscripters who are but alight-from 15,184 to 17,380 copies. No subscrip-tions are accepted at less than the full subscription rates. Sworn detailed statements of the circu-lation of the paper, showing its distribu-mailed free on request. OUR GUARANTEE

OUR GUARANTEE

OUR BUARANCE We successful a very advertise to the processe the advertising columns of farm and Durity are as carefully edited as the coar rescent, we not beyond the interruptions advertisers. Should any ad-vertiser herein deal dishonity with you scribers, we will make good the amount of your loss, provided such transaction issue, that it is reported to us within a vertiser you state: "I saw your ad-vertisers you state: "I saw your ad-tion of the source of the state of the read of the section of the col-tering the weak to be a stated on advertise, ner-and the section of the source of the state of the section of the source of the state of the section of the source of the state of the section of the source of the state of the section of the source of the state of the section of the source of the state of the section of the source of the state of the section of the source of the state of the section of the source of the state of the section of the source of the state of the section of the source of the state of the section of the source of the state of the section of the source of the state of the section of the source of the state of the section of the source of the state of the section of the source of the state of the section of the source of the state of the section of the section of the section of the state of the section of the section of the section of the state of the section of the section of the section of the state of the section of the secti We guarantee that every advertiser in his issue is reliable. We are able to do

FARM AND DAIRY PETERBORO, ONT.

COMMUNITY LIVE STOCK ADVERTISING

A sound and tangible argument in favor of community breeding manifests itself in the great advantage to be had when advertising. You will have noted and read the ads. of the Oxford Breeders' Club in this and recent issues of Farm and Dairy. You will also have read those of the individual consignors to the sale. How greatly this advertising has impressed you! Consider one man working alone, or the same number of men each with a different breed and not united: What could they accomplish in the way of carrying to you an impression and get you to act as the Oxford breeders these last few weeks have done?

It is the same with the Belleville Breeders' Club. They have been organized for a somewhat longer time. You can already anticipate what they

will have at their great forthcoming sale, April 2. They are attracting your favorable attention in Farm and Dairy and elsewhere in a manner that no one man working alone and in a community by himself would be likely to do.

More and more the "community breeding" idea is catching on. And it is well for the advancement of live stock and the general welfare of the community adopting and working out the principle. And advertising is but one feature in the way of benefit that flows from community breeding. Before there is any need for advertising, community effort is of advantage in securing good stock, in the purchasing and interchange of the best sires to maintain the high quality of that stock and in getting sufficient stock to make the adver tising worth while and profitable.

THE WORST RENTING SYSTEM

"On country roads at this season "you meet creaking waggons piled "high with household goods, crates "of chickens, and the smaller imple-"ments of the farm, while behind "trail the larger implements and the "family cow. On top of the load is 'a renter and his family. It is the "time when farm leases expire."

Thus does the "Nebraska Farmer" describe a scene made common by the bad system of renting farms that is practised in both the United States and in Canada. There are few farms either in the United States or in Canada that are held on more than a one-year lease. In many cases the owner of the farm is looking for an opportunity to sell and does not wish to tie his farm up for a term of years. In all cases farm owners who rent wish to get the full benefit of increasing land values, and this they think they could not do 'f the rental were fixed to extend over a term of eight or ten years. Hence we have the one-year lease, which is positively the worst system of leasing in the world.

This system of short leasing is a strong incentive to the tenant to skin the land for all it will stand. He does not dare to apply fertilizers or to make improvements. If he did the farm owner at the time of readjustment would have an excellent opportunity to shove up his rent. He has no guarantee that he may not be asked to leave altogether at the end of the year and give to the following tenant or purchaser the full benefit of his industry.

But the worst results of our one year leasing system lie in the deadening effect that it has on the social life of the community. The tenant, not being permanently attached to any one community, takes little interest in its social institutions. He is not an enthuslastic church supporter. The only interest he takes in roads is to cut expenses down to a minimum. He is not likely to be active in the formation of any cooperative organization because he may not long be able to participate in its advantages. And can we blame him?

We in Canada have not yet experienced to such an extent as they have in some sections of the United States the depressing effect of tenancy on rural activities; most of our farmers work their own farms. But we believe that the time is not far distant when we will have in this country the same conditions that now prevail in the corn belt states of the United States.

We believe it is an inevitable law of nature that, as land values increase, so does the proportion of tenants. In the State of Maine, where land is very cheap - about fourteen dollars an acre-eightyseven per cent. of the farmers own their own farms. In Illinois, where farm lands are worth two hundred dollars an acre, some townships have as high as sixty-seven per cent. of tenant farmers. In European countries, where land values, in proportion to their natural productiveness. are even higher than they are here. the proportion of tenants is still greater. In some cases all of the farms are in the hands of tenants. We in Canada have no reason to expect that the tenant evil will not develop in this country as it has in every other country.

If we would avoid the evils of the tenant system, lack of community activity and a system of farming that more resembles mining than agriculture, we must get away from the short time lease and adopt a system of leases extending from eight to ten years, so that the tenant may have more incentive to improve his farm and the community in which he lives. Long leases are to the best interest of the tenant, of the community in which he lives, and, in the long run, the land owner will profit as well from the long lease system.

CORPORATION "CHEEK"

A Chicago packing concern, the Swift Company, have recently advanced just about the cheekiest suggestion of which we have heard in some time. In their annual report, this company draws attention to the ever growing scarcity of meat products for city consumption. They tell us that in 1911 over eight million calves were slaughtered in the United States. Their argument is that if legislation could be invoked to compel every farmer in the United States to retain his heifer calves until they were three years old and all their calves until they had reached a suitable marketing age, the breeding stock of the country would soon be replenished and there would be a plentiful supply of meat products on the market.

Could anyone imagine a more barefaced, brazen attempt at interference in the farmer's business than is this suggestion of the Swift Company? The suggestion was so ridiculous that we did not suppose that anyone would pay any attention to it. But not so. Apparently the Swift Company is not the only corporation endowed with a most plentiful supply of "cheek." The Canadian packers,

March 20, 1913

too, it would seem, would like to make the farmer run his business according to their ideas, and some of them have warmly seconded the Swift suggestion. Two leading daily papers published in Toronto have also spoken approvingly of this suggested interference.

Fortunately, the agricultural vote is of too much importance on election day for any government to sanction such legislation as the Swift Company has proposed. We mention this incident only to show how little the farmer's interests would be considered did the corporations get absolute control of our government. We would also suggest that if the farmers could make as great profits on rearing cattle as the packing companies make in butchering them, there would be few calves slaughtered.

Two factors seriously hinder the progress of the cooperative movement in this country. In the first

place we have no suit-To Hasten suitable cooperative Cooperation. legislation dealing with the formation of

cooperative societies and in the second place our provincial governments have not taken the steps that they might to spread abroad among our people a fuller knowledge of cooperation, its principles and how to apply them. In both of these connections we may learn a lesson from the State of Wisconsin, which has already passed a series of laws to facilitate the cooperative organization of the farmer's business, and has also instructed the state University to add to its economic faculty a new Professorship, which is to specialize in cooperation and marketing. It is proposed at a later date to extend the teaching of cooperation to the public schools of the state. Provincial legislators in all of our Canadian provinces would do well to look into this legislation recently adopted in Wisconsin.

Why 16 Cents a Pound?

(Montreal Witness) (Montreal Witness) A parcel may be mailed from Van-couver to Newfoundland for 15 cents a pcund, though if the same parcel were only to be carried from Pictou to Halifax the rate would be 16 cents Still worse, a parcel may be mailed in Vancouver for Bermuda, and the sender will only have to pay 12 cents a pound postage, while were he mailing the same package to a friend at New Westminster ten miles away or anywhere in his own coutry, to pro wide for intercommunication within which the post office specially exists, and for the rates within which his own government has its own way and where that government might he expected to give him the most favorable rate possible, he would have to pay 16 cents. Still again the Van couver man can mail his package for 12 cents a pound to any place Great Britain or the Leeward lands for 12 cents, while to mail it tands for 12 cents, while to main in to the address across the street from his office a very benevclent Canadian Government will charge him 16 cents. Some will reply that these are special rates to places in the empire for the purpose of binding it together. Does that explain why it costs less to post a package to England than to

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Newfoundland, a near neighbor whose good will we most especially desire to cultivate? It certainly does not to cultivate? It certainly does not explain how our benerotist govern-ment has done the kindness of allow-ing us to mail parcels to Mexico for 12 cents, while they demand every cent of 16 cents a pound to carry parcels between Montreal and Lach-ine, Letween persons who are both paying taxes for its support.

AD. TALK LXX.

You have probably considered the marked difference there is between dairy farmers and just ordinary farmers.

A tremendous business is being done by the Dairy farmer over and above the average farmer. It is even much greater with the breeders of pure-bred dairy cat-Their sales of pure-bred tle. cattle over and above the envia-ble income received from the products of the dairy and of the dairy farm are immense.

An especially big business is being done in pure bred stock by the breeders of Holstein cattle. You see this reflected in the live stock advertising columns of Farm and Dairy

It is self-evident that farmer people, who are doing a business such as "Our People" are doing, are live and responsive prospects for you to reach and do business with through your advertising.

As to the extent of their business a recent census which we have taken shows "Our People" to have FARMS, WHICH THEY OWN, averaging in value \$9,-000 to \$12,000, many being over \$25,000 and on up to figures so big that we would not ask you to believe them without seeing the original evidence which we have in our office for you, from one out of every 25 of all "Our People." They enjoy incomes exceeding on the average \$2,000 each annually. Our Holstein breeders have incomes from \$3,-

000 to \$5,000 and a way above ! Thus you see "OUR" PEO-PLE" HAVE THE 'COBALT'!

Holstein breeders advertise in Farm and Dairy in preference to other farm papers-not so much alone because we support them and foster their interests, but because they realize that it is a breeder who has been educated up to the value of pure bred Holsteins and other pure bred dairy stock who will buy and pay the price the stock is worth, and such people are the readers of Farm and Dairy.

Put this in your pipe and smoke it, Brother! Then you'll surely favor Farm and Dairy even more and more in future.

There is nothing else like it as a "quality" proposition,-and then you know something about our service and our guarantee and our general policy, which has brought Farm and Dairy to be known as

"A Paper Farmers Swear By"

FARM AND DAIRY

Stable Rules

By the Boston Work-Horse Parade Association.

1. The best order in feeding is:

The best order in resump is. Water, hay, water again, grain.
 Nøver give grain to a tired horse. Let him rest and nibble hay for an hour or two first. Grain in the manger before the horse comes in hour had.

3. Water the horses as often as possible; but let the horse that comes in hot drink a few swallows only.

4. A'ways water the horse after he has eaten his hay at night. This is important not only for his comfort, but for his health.

5. Do not forget to salt the horse once a week; or, better yet, keep salt always before him.

always before nim. 6. Give a bran mash Saturday night or Sunday noon; and on Wed-needay night also, if work is elack. After a long day in very cold or wet weather, a hot mash, half bran and haif oats, with a tablesponful of gin-ger, will do the horse good.

7. Keep a good, deep, dry bed un-der the horse while he is in the stable, day or night, on Sundays especially. The more he lies down, the longer his legs and feet will last.

8. In order to do well, the horse must be kept warm. Give him a blanket on cool nights in late sum-mer or early fall, and an extra blan-ket on an extra cold night in winter.

9. In cold rains do not tie up the horse's tail. The long tail prevents the water from running down the in-side of his legs, and keeps off a cur-rent of air from his belly.

10. Take off the harness, collar and all, when the horse comes in to feed. He will rest better without it.

11. Never put a horse up dirty or muddy for the night. At least brush his legs and belly, and straighten his hair.

12. In hot weather, and in all weathers if the horse is hot, sponge his eyes, nose, dock, the harness marks, and the inside of his hindquarters when he first comes in.

13. When the horse comes in. 13. When the horse comes in wet with rain, first scrape him, then blanket him, and rub his head, neck, loins and legs. If the weather is cold loins and legs. If the weather is cold put on an extra blanket in 20 min-utes. Change the wet blanket when the horse drise. Do not wash the legs. Rub them dry, or bandages loosely with thick bandages. It is far more important to have the legs warm and due the do have on be legs warm and dry than clean.

14. Examine the horse's feet when 14. Extained the norses here when if he does not wear pads. If a horse in the city is not shod in front with pads, tar and oakum, which is the best way, it is absolutely necessary to here him to be added a solution of the solution of the here him forth and here here him to be added to be added a solution of the solution of the solution of the here him forth and here here him to be added to be added a solution of the solution of the solution of the here him to be added a solution of the solution of the here him to be added a solution of the solution of the solution of the here him to be added a solution of the solution of the solution of the here him to be added a solution of the solution of the solution of the here him to be added a solution of the solution of the solution of the here him to be added a solution of the solution of the solution of the here him to be added a solution of the solution of the solution of the here him to be added a solution of the solution of the solution of the here him to be added a solution of the solution of the solution of the here him to be added a solution of the here him to be added a solution of the solution of t keep his feet soft by packing them, or by wrapping a wet piece of old blanket or carpet around the foot, or by applying some hoof dressing, in-side and out, at least three times a

week. 16. Speak gently to the horse, and do not swear or yell at him. He is a gentleman by inskinct, and should be treated as such. The stable is the horse's home, and it is your privilege to make it a happy one.

The by-products in a great many industries result in a great deal of money. It ought to be so in the ap-ple business. Why not have a co-operative exportator, even as we now have cooperative creameries, cheese factories, and cooperative apple growers' associations, etc.? I have known evaporated apples to be car-ried over for several years and then be sold at a handsome profit.—J. Dixon, Apple Buyer, Wentworth Co., Ont. Ont



Are in a Class by Themselves

They cost but a little more than the cheapest, while they

save twice as much and last five times as long as other separators.

They save their cost every six months over gravity setting systems and every year over other separators, while they may be bought for cash or on such liberal terms that they actually pay for themselves.

Every assertion thus briefly made is subject to demonstrative proof to your own satisfaction by the nearest DE LAVAL local agent, or by writing to the Company direct.

Why then, in the name of simple common sense, should anyone who has use for a Cream Separator go without one, buy other than a DE LAVAL, or con-

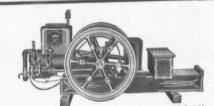
tinue the use of an inferior separator?





344 (18)

FARM AND DAIRY



h.p. Semi-Portable as illustrated; Stationary and Portable

Tested With Boiling Water

Every Renfrew Standard Gasoline Engine is thoroughly tested before shipment. It must show at least 10\% more horse power than it is rated, by an actual brake test, with boiling water in the hopper. This test also proves the soundness of the workmanship. Every

Renfrew - Standard

Engine is also tested for balance. It must be so perfectly balanced Engine is also tested tor balance. It must be so perfectly balanced that it will run with clock-like precision and smoothness. It must start easily without cranking. In short, the engine must be absolutely right in every particular before our Inspectors affit their O.K.'s. If you were at the factory, you might think we were over-particular. But just think what our painstaking care means to the purchaser of a Renfrew Standard Engine. It assures him getting an engine whose reliability has been proven under test—one that will give him great subsection. satisfaction.

Write for our Engine Catalog. It describes the Renfrew Standard in detail, and contains information about Gasoline Engines that every progressive farmer would like to know.

THE RENFREW MACHINERY CO., Ltd. Head Office and Works: RENFREW, ONT.

AGENTS EVERYWHERE IN CANADA Write for particulars about our 13 H. P. Gifford Engines



BURGESSVILLE CHEESE AND BUTTER FACTORY. BURGESSVILLE, ONT.

WANTED Unmarried Buttermaker for cream-gathe ed creamery. State qualifications. Full particulars on application () Box 1025, FARM AND DAIRY, PETERBORO, ONT.





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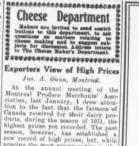
use of dairy products as we know Reservessessessessessessesses

them today. Dr. De Laval well deserved the Dr. De Laval well deserved the comparison so often made of him with the great Edison. As the inven-tions of Edison have made possible the tremendous advance in the develthe tramendous advance in the devel-opment of electricity and its practi-cal application, so dairy machines in-vented by Dr. De Laval have made possible the equally wonderful pro-gress in the last 25 years in the field of dairying, and Dr. De Laval has rightly been called "the Edison of dairying."

Artificial Refrigeration

1.00

There seems to be a growing ten-There seems to be a growing ten-dency in many creameries to adopt mechanical refrigeration. This, like every other modern improvement in every other modern impresents in new record of high prices, out, while our creameries, has gone through the proving the most renumerative in the experimental stages and it can not history of the produce trade as far has been developed to meet the re-has been most unsatisfactory from quirements of the average creamery. I the exporter's standpoint.



P. Aller

A Busy Morning Scene at A New Zealand Cheese Factory

New Zealand farmers have more interest in the success of their cheese factories that have the majority of Canadian farmers. Most of their factories, like the Kaupkonin factory here illustrated, are owned cooperative factories, like the problem of the factory. Here they can afford the very best of equipment, including cool of the factories, and their ebcesse command a pre-mium over the Canadian articles.

The old and expensive way of putting up ice is becoming obsolete and mcd-ern methods of the ice machine are ern methods of the ice machine are fast taking its place. When we stop to consider what is now required in the way of refrigoration we begin to wonder how we have managed to get along with the old system of ice cool-ing as easy as we have. Temperature is now regarded as methon of family factors in the pro-motion of family factors in the pro-motion of family factors in the pro-motion of family factors in the pro-te the heiter and move uniform the

auction of nue butter and if this be for the better and more uniform the scatrol of temperature, the better the results that can be obtained. Mo-chanical refrigeration has heretofore been considered to expensive and im-practical for the small creamery, but s we said before we believe the ques-ion has been solved to meet the needs these small creameries and we feel e can safely urge the small cream-ry to investigate the cost of the ficiency of mechanical refrigeration Mciency or meenanical retrigeration nd compare it with the coast of equip-ent, expense of handling, natural aste and lack of results of refrigera-on by natural ice. We believe crything will be found in favor of penanical refrigeration. In consider-ather are in the construction of the construction the construction of the construction of the construction the construction of the construction this question the growing demand the part of the consumer for a ther product should be given due asideration. The very best product we can pro-

the very best product we can pro-ce is none too good, and if we pro-ce it we must have the best of erything to produce it with. — icago Dairy Produce.

ower tests; kicking patrons. Be dy for them.

While the high prices paid for Canadian cheese wore justified at the open the season on account of the ext of the season on account of the ext of the season on account of the ext of the factor seemed to close sight of the factor seemed to the ext of the factor seemed to hardly be expected that the same con-ditions which prevailed last year would occur again this season. Last year, the dry weather the regular decese, while the weather this year was favorable throughout the whole season, the result being that While the high prices paid for year was favorable throughout the whole season, the result being that the English make of cheese was the largest on record and the price reas-onable when compared with the prices being paid for the Canadian produce. As the eason advanced, the demand for Canadian cheese fell off and Conduction superstant have since found

As the season advanced, the demand for Canadian operators have since found the trade dragging and unprofitable. In sympathy with the high prices which prevailed for cheese and but-the sum of the season prices of low and season of the season of the season difference of near 10% cents a pound, while hutter 2% cents a pound, while hutter 2% cents a cents in May, 1012, are strateging a cents and higher. The season of 1012 will go down in history as the year which saw the passing of the export butter trade, there being only 70 packages export-ed, and these to South Africa, in 1012, as against 134,000 packages in 1911.

FARM AND DAIRY



Absolutely guaranteed for 18 years. Write for free catalog and opinions of satisfied users. Special offer in new territory. S to 15 horse-power We pay Duty and Freight Ellis Engine Co., 90 Mullett Street DETROIT, MICH.

(19)345



THE Easter glory dawns for all of every race and creed.

And every soul is thrilled with joy. Since Christ is risen indeed.-Elisabeth Hardy. . . .

> Rose of Old Harpeth ByaMARIA THOMPSON DAVIESS "Copyright, 1912, The Bobbs-Merrill Company"

> > (Continued from last week)

64 T O think that would be worth all the lonelines," an imorning. I'm the mother bird, and the first year I had to come back from college. I used to sit here by the hour and watch Providence Road wind away over the Ridge and nowhile away over the kigge and ho-thing ever seemed to come or go for me. But that was only for a little while, and now I never get the time to breathe between the things that to breathe between the things that happen along Providence Road ior me to attend to. I came back to Sweetbriat like an empty crock, with just dregs of disappointment at the bottom, and now I'm all ready every morning to have five gallons of love-ly folk-shappening poured into a two-and-a-half-gallon capacity. I uside I see the set in the set of the set of the like as much as the set of the se wish I were twins or twice as much

"Why, you have never told me be "Why, you have never told me be-fore, Rose Mary, that you belorg to the new-woman persuasion, with a college hall-mark and suffragist lean-ings. I have made the mistake of putting you in the home-gurd bri-gade and classing you fifty years behind your times. Don't tell me you have an M.A. I can't stand it to-might."

"No, I haven't got one," answered Rose Mary with both a smile and a longing in her voice. "I came home in the winter of my junior year. My father was one of the Harpeth Valley boys who went out into the world, and he came back to die under the roof where his fathers had fought root where his lathers had longing off the Indians, and he brought poor little motherless me to live with the aunts and Uncle Tucker. They lov-ed me and cared for me just as they did Uncle Tucker's son, who was motherless, too, and a few years did Uncle Tucker's son, who was motherless, too, and a few years after he went out into the world to seek the fortune he felt so sure of, I was given my chance at college. In my senior year his tragedy came and I hurried back to find Uncle Tucker old and broken with the hor-Tucker old and broken with the hor-ror of it, and with the place practi-cally sold to avoid open disgrace. His son died that year and left-left --some day I will tell you the rest of it. I might have gone back juo the world and made a success of things and helped them in that way, from a distance. but what them end from a distance--but what they needed was-was me. And so I sat here many sunset hours of loneliness and many sunset hours of loneliness and looked along Providence Road until --until 1 think the Master must have passed this way and left me His peace, though my mortal eyes didn't see Him. And now there lies mo-home nell string do besetie birds, the boy the calf, puppy bables, pes-ter chickens and--and I'm going to take a large grev, prowing night take a large, grey, prowling night-bird back and tuck him away for fear



the end of a frilled white petitioat with a huge clod of earth and stretched its oa sto cover quite two yards of the green shoots. "I huven't taken a thing of your last summer seersucker costs. Im going to mend the split up the back in it for the wash Monday. Aunt Amandy lent metitioat for the record hubbes, and a meticioat for the neons hubbes. me two aprons and a sack and a petiticat for the peony bushes, and Aunt Viney gave me this shawl and three chemises that cover all the pinks. I've taken all the tablecloths for the early peas, and Stonie's shirts each one of them, have covered a lot of the petry anarcissus. All the rest of the thing's are my own clothes, and I've still got a clean dress for thometoria. I got a clean dress for thometoria. I work and the afraid of thing to-night, I won't be afraid of the frost any more. You don't want all the lovely little green things to die, do you, and not have any snaps or peas or peonies at all?"

"Oh, fly-away !" answered Uncle Tucker as he tucked in the last end of a nondescript frill over a group of tiny cabbage plants, "there's not even a smack of frost in the air! It's all in your mind."

"Well, a mind ought to be sensi-tive about covering up its friends from frost hurts," answered Rose Mary propitiatingly as she took a



"I Hope You Feel Easy in Your Mind Now"

CHAPTER IV.

MOONLIGHT AND APPLE-BLOW. "I hope you feel easy in your mind, child, now you've put this whole garden to bed and tucked 'em under cover, heads and all," said Uncle Tucker, as he spread the last bit Tucker, as he spread the last bit of old sacking down over the end of the row of little sprouting bean vines. "When I look at the garden I'm half skeared to go in the house to bed for fear I haven't got a quilt to my joints."

"Now, honey sweet, you know bet-ter than that," answered Rose Mary as she rose from weighting down

satisfied survey of the bedded gar-den, which looked like the scene of a disorganized washday. "Thank a disorganized washday. you, Uncle Tucker, for helping me-keep off the frost from my dreams, anyway. Don't you think

"Well, howdy, folks?" came a cheerfully interruptive hail from across the brick wall that separated the garden from the cinder walk that lay along Providence Road, which ran as the only street through Sweet-briar, and Caleb Rucker's long face presented itself framed in a wreath of budding rose briars that topped the wall in their garden growth.

March 20 1913

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"Tenting up the garden sass ag'in, Miss Rose Mary?"

Miss Rose Mary?" "No, we're jest giving all the bousehold duds a mooning instead of a sunning, Cal," answered Uncle Tucker with a chuckle as bæ came over to the wall beside the visitor. "What's the word along the Road?" "Gid Newsome have sent the news as he'll be here Sa'day night to lay

off and plow up this here dram or no-dram question for Sweetbriar voters, so as to tote our will up to the state house for us next election. As a state senator, we can depend on As a state senator, we can depend on Gid to expend some and have notice taken of this district, if for nothing, but his corn-silk voice and white weskit. It must take no less'n a pound of taller a week to keep them shoes and top hat of his'n so slick I should jedge his courting to be kinder like soft soap and molasses. Miss Rose Mary." And Mr. Rucker's smile was of the saddest as he handed this bit of gentle banter over the wall to Rose Mary, who had come over to stand beside Uncle Tucker in

over to stand beside Uncle Tucker in the end of the long path. "'It's wonderful how devoted Mr. Newsome is to all his friends." an-swered Rose Mary with a blush. "He sent me three copies of the Bolivar 'Herald' with the poem of yours he had them printed last week. yours he had them printed last week, and I was just going over to take you and Mrs. Rucker one as soon as I got the time to--'' "Johnnie-jump-ups, Miss Roše Mary, don't you never do nothing like that to me!" exclaimed Mr.

Rucker with a very fire of despera tion lighting his thin face. "If Mis Rucker was to see one verse of that there poetry I would have to plough the whole creek-bottom cornfield jest to pacify her. I've done almost per-suaded her to hire Bob Nickols to do it with his two teams and young Bob on account of a sciatica in my left side that ploughing don't do no kind of good to. I have took at least two bottles of her sasparilla and sorgum water and have let Granny put a plotter or big word load on the water and have let Granny put a plaster as big and loud-smelling as a mill swamp on my back jest to git that matter of the cornfield fixed up and here you most go and stir up the ruckus again with that poor little 'Trees in the Breeze' poem that Gid took and had printed unbeknownst Please, mam, burn them to me. papers!"

"Oh, I wouldn't tell her for the world if you don't want me to, Mr. Rucker!" exclaimed Rose Mary in distress. "But I am sure she would be proud of—" "No, it looks like women don't

"No, it looks like women don't take to poetry for a husband; they prefers the befting of a hoe and plough handles. It's hard on Mis' Rucker that I an't got no constitu-tion to work with, and I feel it right to keep all my soul-squirmings and sech outen her sight. The other night as I was aputting Petie to head while be and Roh was at the bed, while she and Bob was at the front gate a-trying to trade on that

(Continued on page 22.)

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uncle Uncle came visitor. Road?"

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*********************** The Upward Look Ine Upward Look Good Measure

Give and it shall be given unto gout good measure, pressed down, and shaken together, and running over, shall men give unto your bosom. For with the same measure that ye mete withal it shall be measured to you again.—Luke 6:38.

between strain the hearance to pool again. Luke 6:38.
If we were to go into a groocr's to purchase some sugar and he gave us purchase some sugar and he gave us good measure, then pressed it does and filled again to overflowing we would certainly think we were getting full value indeed. But how many of us always give good measure, no matter in what way it may be? Are the president of the second s

FARM AND DAIRY

The most of us are quite willing to give our time and substance towards some object for the substance towards some object in the substance to the some thing in from which we expect something in the substantiant of the sacrifice on our part and mothins rela-it appears to us) in return, that we are tempted to give light measure. But we are told if we give good measure, in like maner will it be returned to us. Although we may not see the fruits of our labors, yet in some manner it will be measured to us again.

We cite an instance of where good We cite an instance of where good measure was given: A man was once asked how it was that he had such luck in raising potatoes, for those he sole were good to the bot-those he sole were good to the bot-tom of the bag. He replied that in tom of the bag. such luck in raising potates, for those he sold were good to the bot-tom of the bag. He replied that in picking over potatoes, if he was tempted to fill up with poor ones, he always turned the transaction round, and looked at it from the buyer's point of vice. "If I think." he said, "that the man or woman who buys the potatoes will say when they go to cook them, 'I should think any farmer would be ashamed to sell such potatoes,' I just throw them out for the said be eat. I'm none the worse off, and somebody is a little better of do the square thing." Is this not a noble square thing." Is this not a noble dean Rai e a lesson in giving good measure? Over and above all ways in which we may give good measure to those

around us, we should ever keep be-fore us the thought of giving good measure to God. For did He not show his great love for us by giving Himself to die on the cross; and in event for such unmeasured love the state of the such and the second state "pressed down of sive him our best." and running over?"--R.M.M.

* * *

The Story of Owen Kildare Young man:

Young man: If you think you have not had a fair chance in life, read this brief sketch of the rise of Owen Kildare of New York City. Think of it! This young man at 30 years of age was unable to read or write. To-day he supports him-solver with the supports him-

or issues of the was unable to read or series of the was unable to read self by writingay he supports him-self by writing and the supports him-couth, ignorant. He had been or-phaned at the age of seven years and cast into the streets. Living the precarious life of a bootblack and newshoy, he slept in doorways, alleys, in barrels. He had but one ambi-tion, He dearly loved a fight, and several yes ha prize fighter. For saloon bouncer. Can any good come out of the

Can any good come out of the Bowery?

Bowery? Yes. At 30 years of age Kildare came into contact with a gentle girl, who was a school teacher—a sweet, affectionate, wise young woman, pure as a pearl. The association

changed the whole current of his life. The young woman helped Kil-dare to the rudiments of an educa-tion. As studied his ideals of life were changed. He had a hard strug-eft of the got field wild ways. Finally he got employment in the circulation department of a news-paper. He studied every spare mo-ment.

One could well wish, in reading the story of Owen Kildare, that he might have married his Mamie Rose, might have married his Mamie Rose. the girl with whom he fell in love and who wrought so great a change in him. But fate was unkind—or was it unkind?—and his idol died.

was it unkind?--and his idel died. To make a long story short: Owen Kildare began to write stories, sub-mitting them to the editor of the newspaper where he worked for criti-cism. He persevered until his sketches possessed value. They were heart to heart stories from real life. Owen Kildare was well known in journalistic circles. In newspaper parlance his stories of slum life are esteemed "good stuff."

Young man:

Fate is feminine. She is capri-cious. If you are afraid of her, you would better not woo her. She will turn you down.

But-

If you will look her boldly in the face and smile at her, she will smile back at you and shower her gifts upon you.—Western Farmer.



(21) 347 348 (22)



brought out this year by our Immigra-tion Department. Also Boys and Domestic Servants

We are making a special effort this year in country districts and will have the best class of immigrants. We seek desirable places for these. Apply early for application form to

The Salvation Army Immigration Dept. Albert Street, . . TORONTO, Ont.

The Call of The North

Do you know of the many ad-vantages that New Ontario. With its Millone of Fertile settler? Do you know that these rich agricultural lands, obtainable free and at a nomin-al cost, are already producing grain and vegetables second to nose in the world?

For literature descriptive of this great territory, and for in-formation as to terms, homstead regulations, settlers' rates, etc., write to

H. A. MACDONELL Director of Colonization. Parliament Buildings. Toronto, Ontario

THE REAL CURE FOR CONSTIPATION **AND PILES**

No, this does not consist of some spe cial or new form of drug, because drugs are not a permanent cure for Constipation. The real cure for Constipation is something that will appeal at once to on-sense, because this cure consists simply of pure sterilized water.

The sufferer from Constignation usually realizes the danger of his affliction be-cause from Constignation arises the wast number of more scrious diseases brought about by the retention and promutiga-tion of germ life in the system, in turn anumed by our failure to get rid of this

Such a sufferer has probably tried all kinds of drugs, and his experience is en-ough to prove that drugs form only a temporary relief and require constant use in constantly increasing doese to be at all efficacious. The sufferer greatly adds to his illness by becoming a alave to this drug habit

drug natu: How much simpler and samer is this method of Dr. Charles A. Tyrreli, Inventor of the J. B. L. Gascade-an angplanze now ditter of the C. B. L. Gascade-an angplanze now used by over 300,000 people with drugs entirely and you secure a per-fectly matural treatment, boy dispenses with drugs entirely and you secure a per-fectly matural treatment, boy dispenses tains a sure and permanent curs.

tains a sure and permanent cure. Itundreds of people have enthusiastical-it endormed this treatment as Mr. B. Writes "For years (Laws been troubled with Constipation, ulcere in the bowes, and pide, which all the morey and doc-and pide, which all the morey and doc-ditions the treatment of the second second of these troubles, and I feel is a duty I of these troubles, and the is a duty I and the troubles, and the is a duty I and the troubles, and the is a duty I and the troubles, and the second second these troubles, and the is a duty I and the troubles, and the second second the troubles, and the second second second the troubles and the second second second the troubles and the second second second the second second second second second second second second the second second second second second second second the second second second second second second second to the second second second second second second second the second second second second second second second second to the second se

FARM AND DAIRY

Rose of Old Harpeth

(Continued from page 20.)

vine or flower. A row of bright tin buckets hung along the picket fence that separated the yard from the store enclosure, and rain-barrels sat under the two front gutters with stolid practicability, in contrast to the usual relegation of such storehouses of the rainfall to the back of the house and the planting of ferns and water plants under the front and water plants under the front sprouts, as was the custom from the beginning of time in Sweetbriar. Mrs. Rucker in a clean print dress and with glossy and uncompromisingly smoothed hair stood at the newly whitewashed front gate. "Send him on home, Rose Mary, or grass'll grow in his tracks and yours, too, if can hold you long enough," she

he can hold you long enouge, added by way of badinage. "I'm accoming, Sally, right on the minute," answered the poet-by-stealth, and he hurried across the burne alacrity. The steet with hungry alacrity. The poem-maker was tall and loose-joint-cd, and the breadth of his shoulders and long muscular limbs decidedly suggested success at the anvil or field furrow. He made a jocular pass at placing his arm around the uncompromising waist-line of his port-ly wife, and when warded off by an only half-impatient shove he contentonly nan-imparient shove he content ed himself by winding one of her white apron strings around one of his long fingers as they leaved to gether over the gate for further par-ley with the Alloways across the

road. "When did you get back, Mrs. Rucker?" asked Rose Mary inter-estedly, as she rested her arms on the wall and Uncle Tucker planted himself beside her, having brushed away one of the long briar shoots to make room for them both.

"About two hours ago," answered Mrs. Rucker. "I found everybody in fine shape up at Providence, and Mis' Mayberry sent Mr. Tucker a new quinzy medicine that Tom wrote back to her from New York just day before yesterday. I made a good trade in hogs with Mr. Hoover for myself and Bob Nickols, too. Mr. Petway had a half-barrel of flour in his store he were willing to let go cheap, and I bought it for us and you-all and the Poteets. Me and you cheap, and I bought it for us and you all and the Poteets. Me and you can even up on that timothy seed with the flour, Mr. Tucker, and I'm just a-going to give a measure to the Poteets as a compliment to that the Potects as a compliment to that onew Potect baby, which is the seventh mouth to feed on them eighty-five acces. I've set yeast for ourn and your rolls for to-morrow, tell your kunt Mandy, Rose Mary, and I brought that copy of the Chris-tian Advocate for your Aunt Viney that she lost last month. Mis' May-berry don't keep hern, but spreads lem abund, so as glad boot, it be-fore I had got my bonnet-strings un-tide. Ves, Cal, I'm a-going on in to give you your supper, for I expect I'll find the children's and Grampy's stomicks and backbones growing to stomicks and backbones growing to-gether if I don't hurry. That's one thing Mr. Satterwhite said in his last illness, he never had to wait-yes, I'm coming, Granny," and with the enconium of the late Mr. Satter-white still unfinished Mrs. Rucker hurried up the front path at the behest of a hugh, querulous old voice issuing from the front windows. "Well, there's no doubt about it, no

finer woman lives along Providence Road than Sallie Rucker, Marthy Mayberry, and Selina Lue Lovell down at the Bluff not excepted, to down at the Bluff not excepted, to say nothing of Rose Mary Alloway standing right here in the midat of my own sweet potato vines," said Uncle Tucker reflectively as he glanced at the retreating figure of his sturdy neighbor, which was followed by that

of the lean and hungry poet. "Yes, she's wonderful," answered Rose Mary enthusiastically, "but-but I wish she had just a little sym-pathy for-or poetry. If a hushand sprouts little spirit wings under his shoulders it's a kind thing for his wife not to pick them right out alive. ion't it? When I get a hushand." isn't it? When I get a husband..." "When you get a husband, Rose Mary, I hope he'll hump his shoulders over a plough-line the number of hours allotted for a man's work and then fly poetry kites off times and only when the wind is right," answered Uncle Tucker with a quiz-zical smile in his bie eyes and a quirk at the corner of his mouth.

"But I'm going always to admire the kites anyway, even if they don't

THE command, be diligent in busi-ness, fervent in spirit, serving the Lord, is for every day in the week right in our homes. It is the stady, every day diligence, doing each day the work of that day that tells.

fly," answered Rose Mary with the teasing lift of her long lashes up at him. "Maybe just a woman's puff might start a man's kite sky high that couldn't get off right without it. You can't tell."

it. Yes, child." answered Uncle Tucker as he looked into the dark eves level with his own with a sudden tenderness, "and you never fail to start off all kites in your neigh-borhood. When I took you as a borhood. When I took you as a bundle of nothing outen Brother John's arms nearly thirty years ago this spring jest a perky encourag-ing little smile in your blue eves started my kite that was a-trailing weary like, and it's sailed mostly by your wind ever since-especially

your wind ever since expension these last few years. Don't let the breeze give out on me yet, child." "It never will, old sweetie," an-swered Rose Mary as she took Uncle Tucker's lean old hand in hers and rubbed her check against the alever "his yourh farm coat. "Is the interest of the mortgage ready for this quarter?" she asked quiathe in at quarter?" she asked quietly in al-most a whisper, as if afraid to dis-turb some listening ear with a private matter.

"It lacks more than a hundred," answered Uncle Tucker in just as quiet a voice, in which a note of pain sounded plainly. "And this is answered Uncle Tucker in just as quiet a woice, in which a note of pain sounded planhy. "And this is not the first time I have fallen be-hind with Newsome, either. The repairs on the ploughs and the food chopper for the barn have cost a good deal, and the coal bill was large this winter. Sometimes, Rose Mary, I-I am afraid to look forward to the end. Maybe if I was younger is would be different and I could pay to the end. Maybe if I was you it would be different and I could pas the debt, but I am afraid-if it wasn't for your aunt, looks like you and I could let it go and make our way somewhere out in the world be-yond the Ridge, but they are older home than us and we must keep their in a few years-Newsome won't press me, I'm mighty sure. Do you press me, I'm mighty sure. Do you think you can help me hold on for 'em? I don't matter." "We'll never let it go, Uncle Tuck, never!" answered Rose Mary

passionately, as she pre cheek closer to his arm. she pressed her is arm. "I don't know why I know, but we are to have it as long as they—and you, you need it—and I'm going to die here myself," she added with a laughing sob as she shook two tears out of her lashes and looked up at him with adorning stars in her eyes.

(Continued next week)

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When a lamp has stood long enough to get hot it should be moved with very great care.

March 20, 1913

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ZINE

SURE CURE FOR THRUSH Worst Cases Yield To Douglas' Egyptian Liniment

Mr. J. L. Boyes, secretary of the Nap-ance Driving Park Association, has had a good deal of experience with thrush on horses' feet, and has tried various reme-dies. He writes:

dime. He writes: "I have curred bad cases of diseased feet or thrush on horses with Egyptian liniment with two or three applications, after calonel, sait, coal oil, etc. had completely failed to do the work. I con-sider it a waste of time to use anything but Egyptian Liniment for thrush."

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says: "One of my horses had thrush so bad that his feet became offensive, and the neighbors advised me to aboot him. He fore doing so I decided to trr Egyptian Liminent, and in a short time my horse's feet were as sound as ever."

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with the horse. Only i work wait for people to age me. [1006 first, and 1100 fravity" Washer on a month's free first as "1000 fravity" Washer on a month's free first as "1000 fravity" Washer on a month's free first as "2000 fravity" washer on a beck and pay the first first of the state state of the state of the state of the state of the state state of the state of the state of the state of the state state of the state of the state of the state of the state state of the state of the state of the state of the state state of the state of the state of the state of the state state of the state of the state of the state of the state state of the state state of the state state of the state of

R. U. MOREIS, Manager, 1900 Washer J. J. MOREIS, Manager, 1900 Washer J. J. Tonge St. Toronto, Gan.

FARM AND DAIRY

A Heroic Conductor By C. H. Caruthers.

"HE desire to accumulate something for one's children is a commendable one; but it is well to bear in mind that the best things are those given to the children personally, a good example, kind words, and thoughtful teachings. Gentlemen and good women are home made. There is nothing on earth for which one ought to be more thankful than for having been brought up in the

from the city they were so rapidly approaching, but that to be rdismy three hundred miles were of the railway centre, that the train would measure concess, to avia there for another train to finish her journey. The conductor knowing this to be unrue, requested her to point out and the forward end of the sitting mear the forward end of the sitting mean the forward end of the sitting means the sitting means the forward end of the sitting means the sit

her informant, whereuron she indi-cated a well-dressed midd-sagod man sitting near the forward end of the coach. Going to him, the conductor asked his reason for making such a gross mistatement to the young girl, and was answered with an oath that it was none of his busines! The official, though small of stature and somewhat delicate, was fearless: and somewhat delicate, was fearless: the instantly informed the party that if the official, though small of stature damaged, or if he interfered in any way speed, with the girl, he would find data with the girl, he would find a statue with the girl. He would but both an office run due to the statu-the conductor took the young girl into the dining-room of the Jinow conductor of the local trainibut the conductor of the local trainibut the

Into the uninground of the behavior of the book of the second or the second or the second or the second of the sec

from his run at the close of an after-noon, was summoned to the office of the superintendent of his division, and found awaiting him there the young girl already mentioned, in company with her father and mother who had joined her later at the friend's home where also was "isiting, and were now en route to their home in the East, but had stopped to be gratitude to the max who had so carefully guarded her against the de-signs of the vile creature whose only and were now on route to the hold of the state in decay of the state in the state i

ductor, the father, who was p By C. H. Caruthers. One morning a number of years ago, an express train of one of this leading railways of our land was ap-proaching the Union Station of the Union Station the Station of Union Station of the Union Station of Union Station of the Station of Union Station of the Station Station of Union Station of the Station Station of Union Station of the Station Station of Union Station of Union Station the Station Station of Union Station of Union Station of Union the Station Station of Union Station of Union Station of Union the Station Station of Union Station of Union the Station Station of Union Station of Union Station of Union the Station Station of Union Station of Union Station of Union the Station Station of Union Station of Union Station of Union Station Station of Union Station of Union Station of Union Station Station Station of Union Station of Union Station of Union Station Station Station of Union Station of Union Station Station Station Station of Union Station Station Station of Station Stati of considerable means, asked if a re-ward in the form of a handsome check hoseos

atmosphere of a pure home.

Mrs. A. B. G., York Co., Ont. So many of our farm women have such beautiful flower in their win-dows, that has we pass by their homes we almost envy them how they manage to have such beautiful plants. While examing the beautiful of following description of how one woman was successful in growing cer-tian flowers: 'At a farm house we visited two

"At a farm house we visited two or three years ago the house mother had a most beautiful flat, which was quite as handsomic as a nay we had ever seen, but not as all familiar to us. Our curiosity held familiar the name of this showy stranger when we were surprised to learn this it was the result of planting a single custor learn.

it was the result of planting a single castor team. "A medium-sized pot had been used for this purpose filled with rich, sterilized soil. The result was a well shaped plant, of luxrirus was a well whose waxy leaves gave it for work, whose waxy leaves gave it for an early paramee of a much choicer waring. I am as proud of my castor bean as f it were a rubber plant.' remarked 'I am as proud of my castor bean as if it were a rubber plant' remarked our hostess, who, by the way, might have been considered very poor in-deed if it had not been for hew on-derful ability to make all of the won-host muits predentions. look quite pretentious.

look quite pretentions. The window of this clever house "The window of this clever house mahors asiting room was literally investigated and the second second investigation of the second second we exclude the second second second of the bright blossoms. Some of the plants I rented from my summer garden, somethed from my summer has lar of others were some in this lox out of does in the late summer and brought in before the frost.



(23)

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Athrob with joy expectant All nature seems aglow.

Whe

All nature seems agrow. E'en where the snow lies thickly In many a woodland spot, Out from its hood of purple Peeps the forget-me-not. Bravely the bloodroot pushes

Its way through leaves of brown; Arbutus, subtly fragrant, Displays her Easter gown From tree to tree the squirrel Pursues his frisky mate, While rabbits from their burrows

An Easter Message

By Helen M. Richardson.

en spring unlocks the storehouse Whence Easter blessings flow,

Seek to investigate.

From winter stalls the cattle With restive feet declare A vague unrest and longing

That permeate the air

And, as the barn doors slowly On hinges open swing,

They view in silent wonder The miracle of Spring.

There is an Easter message For you as well as me, When through the fields and wood-lands

Once more the dumb roam free.

Would we with hearts unsullied Partake this Easter joy, What God's hand hath created Let not man's hand destroy!

. . .

A"Home of a Well Kept House

A woman hopes and desires to be a home maker. She is also expected to be a housekeeper. She cannot be a successful home maker without being a reasonable success as a house-keeper, but unfortunately she can be a very succes ful housekeeper and fail mpletely as a home maker." Thus Mrs. H. W. Calvin, dean of

home economics at the Oregon Agri-cultural College, stated a serious problem of American life in a recent

"If her time is consumed in the routine of housekeeping, she has lit-tle strength or courage to put into that high occupation of converting the house into a home," continued

"The woman who has bent over the wash tub or ironing board all day is not apt to be a cheerful companion to her husband at supper time, or a willing assistant to her children in the preparation of their lessons in the evening. If she has spent the day in evening. If she has spent the day in sweeping, scrubbing and dusting, her smile will probably not be genial or her voice gentle when the small boy forgats to wipe his shoes or take off his rubbers. If, throughout the hot summer day, she has baked bread or summer day, she has baked bread or cooked food over a hot stove, it is not probable that she will desire to spend a social evening with friends at some distance from her home.

distance from her home. "Since she cannot substitute other manual labor for her own (it is im-possible to hire household workers), she must avail herself, as her hus-band has of the best up-to-date machinery and the latest scientific know-ledge. Many housewives of to-day started the h-me in the days when there was little money and extremely rigid economy was absolutely necessary. So fixed have these habits of

sary. So fixed have these habits of economy become that now, when there is a greater income, these same women hesitate to spend any of it in lessening their own burdens. They have labored as long with poor tools that their husbands have forgotten that good tools greatly lesson the labor of the how sheetrical power that in work here is little reason why

March 20, 1913

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not be in every home where there is not be in every nome where there is modern machinery in the barn. An abundant supply of pure running water too, for they need good tools as well as the men."

. . .

The Instinct to Live

Dr. J. N. Hurty, State Health Commissioner The instinct to live is deeply plant

ed within us. The commandment says -"Honor thy father and thy mother that thy days may be long in the land which the Lord thy God giveth thee

These restainly commendable to live long, and it is within our power to prolong our lives. The infant that is killed by over or under care, smothered with veils, or poisoned with impure milk, or other unwhole-some food, (cholera infantum) is not, of ourse, here considered. But un-der ordinary conditions the ordinary person who has reached 10 years of age, has only to live simply and fru-gally that his days may be long and his life a success. Dr. J. Marion Simms America's great original sur-goon, he whon Queen Victoria cafled "The Evangelist of Healing to Wom-en," and It is certainly commendable to live

en," said : "No man lives as long as he should ; most of us die prematurely, even when we die in moderate old age, because we violate some law of hygiene, or perpetrate some seemingly unimportant act that lays the foundation of disease, which terminates in death

ILL BEALTH MAY START IN SCHOOL In our illy ventilated, unevenly warmed, insufficiently and wrongly impairments ighted schoolhouses, and defects of seemingly minor im. portance are forced upon children, and in consequence they die in early manhood or womanhood. But after all, it is wrong eating which destroys most lives. Stimulating foods, ca-cessive amounts of food, fancy cook-ing, insufficient matication, kill more people than alcohol, and its victims cannot be counted. Eating should be a deliberate act. Even poor food deliberately eaten in presentable manhood or womanhood. But after

be a deliberate act. Even poor room deliberately eaten in reasonable amounts, is less injurious than good food, hastly eaten and washed down. Even the advertisers of nostrums for the cure of preventable diseases, tell us-"II is a well-known fact that ill health and disease are induced by the close illy ventilated office, the failure to score a sufficient amount the close illy ventilated office, the failure to secure a sufficient amount of sumshine and air, a thousand dipath errors, or a fierce attack the sufficient organs, the stomach, liver, postpane, ducations, proceeds to the locateme discriming proceeds to the pancreas and intestines." Then the nostrum advertiser proceeds to tell us he has medicines which will cure all ills caused by foolishness, and we buy them. Mark Twain somewhere buy them. Mark Twain somewhere says:--"Nature has made man all right; he makes a fool of himself."

. . . Soap Powders

By J. L. Shepperd.

Soap powders or washing powders are not desirable as a general rule, because so liable to be adulterated because so liable to be adulterated with caustic soda which injures clothes washed with it. There are said to be a few good washing pow-ders however, but the only way to judge of their merits is by trial. Since there are marked and for

Since there are many poor and few good powders, it is wiser for house-keepers to buy soap for washing and women hesitate to spend any of it in lessening their own burdens. They soda ash for water adfening purposes have labored as long with poor tools as they are both cheaper and better that their husbands have forgotten in the long run then soap powders of that good tools greatly lessen the labor of the housekeeper. "With all the electrical power that is possible there is little reason why soda, while the latter a carbonate of flat irrons and electric light abouid properly used.

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1911. \$185; Riverside Sir Azie, born 1906 1971. \$185; Riverside Sir Azie, born 1906 1970. \$1000 the buryer in attendance were Pred Rowe. Curries Crossing: Mr. Ha-wood. Hickenson: Alex Walve, Stratford Prank Orale, Braufford, Henry Walsh Suradford, R. Dymant, Dundes, A. Wai Suradford, S. A. Wunter, Drumbo, Rober Danasa, Owen Sould. Suradford: J. A. Wunter, Drumbo, Rober Danasa, Owen Sould. With State State

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Willow Creek herd has been select (Continued on page 29)

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1. Camille milk 12461 1. 658.65 lbs. Britannia 1 2. Della J 10622.3 lbs.; lbs. butter. annia Heigj 3. Teake 175d.: milk 1 to 426.98 lbs. less. Thorob

1. Buffalo 17d ; milk i 17d ; milk i 17d ; milk i 17d ; 17d ; 2. Poseh & 3. Poseh & 3. Poseh & 4. Molie 1 4. Molie 1 4. Molie 1 4. Breta, 9; 10e ; 1471; 10e, 17d ; 10e ; 1477; 10e ; 10e ;

T Alta P Alta Poes d.: milk 13 598.39 lbs. on. Cheetee 2 Posch Me 2 V. 20d.: n ual to 598.3 nt. Woodst Corinne 1 k 134610 1 68 lbs. bu rwood, Ont Sadle Koo 4.: milk 928 534 42 lbs. t. Chester Rhetta De Hus.; fai butter. orold, Ont. Blanche K 10339.75 1 Ibs. butt rd Junctio

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: Rosa bekerk Favne Segis thi'de born n 1909

Were Har stford Welsh Peter undas Walby . Wat aming larence mpbell Rober ioneer n. Pul

Belect

YEARLY RECORD OF PERFORMANCE TESTS OF MOLSTINS. Merric Market States (Construction) 1 Junice Jane Posch, 7002, at 57; mills 9573 MBs; 186 5761 Bs., could to 734 68 186 bitter, Owner H. F. Patterson, Al-2. Pastey of Brockhöme, 958, at 57; milk 18634 Bs.; fat 539 Bb., could to 187 Bs. butter. Owner F. B. Passmore, B. Bower, On. B. Bas, Market States, 757, milk 1698 Bs.; fat 535 Jin, 576, at 77; milk 1638 Bs.; fat 635 Jin, 106 To, 106 1638 Bs.; fat 635 Jin, 106 To, 106 1639 Bs.; fat 635 Jin, 106 To, 101 163, 104, 105 To, 105 To, 105 To, 101 163, 104, 105 To, 105 To,

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7. Власватся Рімстрія. 1999, ак 3р. тура, пійк 1993 рак. так 200 рак. 1999, ак 3р. тура, пійк 1993 рак. 1994 рак

W. A. ULERNAME. Secretary. A NAME FOR THE FARM What's in a name. Perhaps for the farm is only a concession to the sentimental; nevertheless, it is becoming a main of pride. Possibly his knowing him to farm is manued may stimulate thin to farm is manued may stimulate thin to farm is manued may stimulate the conv work on the farm. No doubt the conv work on the farm. No doubt the conv ork on the farm. No doubt the conv ork on the farm and the things for which it is noted. Is may carry discredit as well as credit, and truly its reputation will be only

Cooperation Did It

Cooperation Lift It I all of the apples grown in Nev. Tolk Co., ont. in 1912, were packed in boxs. they would all show bushel boxes and form a double bushel boxes and form a double line from Hamilton to Toronto. If all of the apples had been packed in barrels the line would exited for 30 miles. And it is not many years since Norfolk was not known out-side of Norfolk as an apple coun-try.

that which the farmer makes for it. The mane for the farm should not be thing. It may and should mean some thing. It may and should mean some thing. It more than the demands and have of the owner, but preferably some of the farm or the line of farming pur-sued. The selection of the name, and the selection of the selection of the name, and the selection of the selection of the name, and the selection of the selection of the name, and the selection of the selection of the selection is on letter-based and corvelopes, but it should adorn the sateway, in order that all who chance to pass may read. Believ-tag that a well-selected name may farning, we sug-tered the following list: Airy Kenall. Hayeroft,

Airy Hill, Airy Knoll, Arrowdale,

Beechwood, Breezy Point, Brookdale,

Clover Orest, Cloverdale, Clearbrook,

Deer Lodge, Daisy Meadow, Dairy Downs,

Haycroft Jerseyland, Lakeside, Lakeview, Lakewood, Lyndale, Lawnview, Maple Gro Morning Glory, Meadows, Northwood, Bannerland, Branching Brook, North Star, Oak Grove, Oakland, Oak Park, Oaklawn, Dverview. Osage, Plainview, Pinehurst. Pine Ridge, Poplar Lane, Rockwood, Riverdale. (Riverside, Stillwater, Sunnyslope South Shore. Sunset. Sunrise The Willows.



B. E. Hagerman, Harold P.O. Ont.



have restored to me my own hearing—that' ow I happened to discover the secret of their access in my own desperate endeavors to be theved of my deafness after physicians had meatedly clad.

relieved or my dealness after physics are traped of my dealness after physics and any more plated to be and any more just drop me a line. I want to send you free si charge my books and enters and plate try of evidence to books and any more sitely worthy of your confidence. Why not write me today?

CEORGE H. WILSON, President WILSON EAR DRUM CO., Incorporated 1047 Inter-Southern Bidg. LOUISVILLE, KY

FARM AND DAIRY

and you will get a gem. I am also consigning a daughter I am also consigning a daughter Can. H. D' RE DE ROL BOS (11.618), Can. H. D' RE DE ROL BOS (11.618), Can. H. D' RE DE ROL BOS (11.618), E' Of fut a day, and just on good E' Of fut a day, and just on good chop. Last year (12 yurts of out chop. Last year (12 yurts of chop. Last year (12 yurts of tho be of milk a day, running wit the berg.

with the berd. The next once is her daughter, KORNDYKE HENGERVELD DE KORNDYKE HENGERVELD DE great time, Pinne's side, and of that great time, Pinne's side. Thread De Kol, on the sire's side. Thread is large and straight and should prove a great producer. Where can you buy this kind? at Joar own price except

At The BELLEVILLE SALE

These cattle have all been TUBER-CULIN TESTED and a certificate will be furnished with each animal Come to the Belleville Sale and get some of the "Plus" family.



11 Mos. High-class Holstein Bull From King Segis Walker, his average record of dam gr-dam, and first-gr-dams butter 28-36, milk 544.2, Fat 4.242. The dam has two gr-dams, which average over 31 lbs. butter in 7

Also Ball 8 mos. sired by gr.-son of King Segis W A. PATERSON, AGINCOURT, ONT.

CHOICE HOLSTEIN BULL CALF Very large strong nicely marked call Born, March 9, 1913. His dam has an of ficial record of 3422 like butter and cell like milk in 7 days. This is a grand op-putually for some breeder to secure a putually for some breeder to secure a like milk in a days. This is a trand op-putually for some breeder to secure a like milk in a secure butter and secure like milk in a secure butter and secure a secure butter and secure butter and secure butter and secure butter and butter and secure butter and secure a secure butter and secure butter and butter and secure butter an

JAS. M. SHIELDS. SMITH'S FALLS, ONT. Maple Shade Holsteins.

FOR SALE AND WANT ADVERTISING

WANTED-By the first of April, a Man, with one or two years' experience, to work in Culloden Cheese Factory. Good wages.-John Borland, Verschoyle P.O.

CHEESE FACTORY EQUIPMENT-One of the best bargains in Ontario if sold at once: 2 Engines, 1 Boiler with 5 vats, 4 agitators, 3 Presses, Curd Sinks, Scales, etc. Address A. Burns, Box 39, Smith-ville, Lincoln Oo, Ont.

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353

Bateman-Wilkinson Co., 41 Limited Campbell Are., Toronto, Canada

A Year Old Bull, closely related to May Echo, will sell or exchange

SAM ARMSTRONG, R.R. No. 1, INDIAN RIVER. ONT. (Peterboro Co.)

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Jessie Inka De Kol is a show cow of unusual merit, and is bred to freshen just right for Toronto; she is in my consignment to

KEITH'S FARM SEED

pure. Bagi Press. per bas. Degenerated Banner The State St	cotton bags for Clovers and Timothy.	
Abundance The No. 1 sample	KEITH'S SEED OATS Good yielders,	ot
Abundance The No. 1 sample	Regenerated Banner 750	8t
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Hallbeiney, So. 1 sample So. Daubeney, No. 3 sample So. Daubeney, No. 3 sample So. Daubeney, No. 3 sample So. These Daubeney, Oats are all free Free Garton's Block Vielor Block Therman Garton's Block Vielor Block Therman Block Therman 173 Garton's Block Vielor Block Therman KETTY'S SEED MRLEY. per bas. Marquis 1.03 Marquis 1.05 Marquis 1.15 Yild Goose, best 1.15 Wild Goose, best 1.15 KITTY'S SEED WHEAT per bas. Marquis 1.73 Garton's Block There and the bost. sec KITY'S SEED COMP. 1.15 KITY'S SEED COMP. 1.15 KITY'S SEED COMP. 1.16 Serif's cool sample 1.46 KITY'S SEED COMP. 1.65 Serif's cool sample 1.65 Serif's cool sample 1.65 Martin's SEEDS. 1.66 Add & op ro's low role if washied by mail. row Protes 1.60 1.65 So collabors over if bo. row Or over at 160. 1.60 Nor over at 160.<	White Cluster 700	bu
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These Daubency Oats are all free from noise weed seck. They are uf distribution of the sector of the sector hay contain. great sector of the sec- garants Black Vision	Daubeney, No. 3 sample	do
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KETTT'S SELD RARLEY. per bus. as O. A. C. No. II. Beginserd. B.10 O. A. C. No. II. Beginserd. B.10 O. A. C. No. II. Beginserd. B.10 Will Goose. B.20 Wild Goose. B.20 M. Torne Service. B.20 Maraulis B.20	Victory Oats 1.75	
O. A. C. No. II. Registered 8:50 O. A. C. No. II. Registered 8:50 O. A. C. No. II. Interstanding and the semigliour of the semigli	KEITH'S SEED BARLEY. per bus.	
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O. A. C. No. 21, our near best 1.00 or Martuna series while AT we have been series while an analysis of the Wild Goose, best 1.45 T. Nild Goose, best 1.45 T. Red Fyfe, good sample 1.46 T. Second Sample 1.46 T. Red Fyfe, good sample 1.46 T. R	O. A. C. No. 21, our best sample 1.10	
REITH'S SEED WHEAT per bus, 1 Marquits E.46 Marquits E.46 Marquits E.46 Marquits E.46 Marquits E.46 Wild Goose, good sample 1.5 T E.46 Red Fyfe, good sample 1.5 T T Red Fyfe, good sample 1.6 If you are an anionat to get the best, serie Serie Barly Could Sample 1.66 Barly Difo Barly Bureka Barly Difo Barly Bureka Mad So per DoTATOES. per bag	O. A. C. No. 21, our near best 1.00	
Wild Goose, best	KEITH'S SEED WHEAT per bus.	5
Wild icone: good sample	Marquis \$2.15	
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Red Fyrfs good sample	Wild Goose, good sample 1.15	
RETTYS SEED CORN. 86 If you are antions to get the best, are out catalogue. 86 Retry Extreme 81 Retry Extreme 81 Retry Extreme 126 Retry Extreme 126 <td>Red Fyfe, very fancy 1.75</td> <td></td>	Red Fyfe, very fancy 1.75	
If you are antion to get the ber, essee our catalogue. We will give you see autoration. Start St	Red Fyfe, good sample 1.40	1
ace our catalogue. We will give you actifaction. KEITTYS SLD POTATOES. per bag by KEITTYS SLD POTATOES. per bag per bag hardy Europa 156 Early Europa 156 SWEDE TURNIP SEEDS. Add So per b. if wanted by mail. Printinger, per b. Job; 5 bbs. or over add so per b. Job; 5 bbs. or over socials Champion, per bb, 36c; 5 bbs. bab euror at 156.		
mitifraction. 818 Kullvis SELP POTATOES. per bag Barly Durbla		
KITTINS SELD POTATOLS. per bag per Barry Oho. 82.56 vi- Barry Charles Selection 176 belaware viewife Selection 176 belaware viewife Selection 176 Add Go per Lo 300; 5 km or over Add Selection 156; 5 km or over at 305; Socials (Charlongion, per lb, 306; 5 km, or over at 305; New Century, per lb, 306; 5 km, or over at 406.		
Early Dollo		
Early Euroka 1.65 at Early Euroka 1.65 at European State 1.75 Elevante 1.15 times 1.15 Margine State 1.15 Add is per 1b. 36 at 10 mail. at Princtaker, per 1b. 360 i 50 ks. or over at 55c. Elevante or Jumbo, per 1b. 360 i 51 bs. For over at 15c. New Century, per 1b., 300; 5 1bs. or at 15c.	KEITH'S SEED POTATOES. per bag	
Trail Cobblers 1.00 Rempire Bates 1.75 SWEDE TUENEP SEEDS. 1.00 Add So per D. 16 wanted by mall. 10 Prinetaker, per D. 300; 5 lbs. or over 100 Social Champion, per Lb. 300; 5 lbs. 100 Social Champion, per Lb. 300; 5 lbs. 100 New Century, per Lb. 300; 5 lbs. 100 New Century, per Lb. 300; 5 lbs. 100	Early Ohio	
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Delaware 1.5 in Neurophysics of the second s	Preside Cooblers	
WEDE TURNIP SEEDS. Add 50 per 1b. if wanted by mail. Prisctaker, per 1b. 360; 5 lbs. or over at 350. or over at 300. or over at 300. or over at 400. New Century, per 1b., 300; 5 lbs. or over at 400.	Talana 195	
Add So por lb if wanted by mall Prischater, per lb, 30; 5 lbs. or over at 55c. Sotiah Champion, per lb., 25c; 5 lbs. Second at 30c. Elephant or Jumbo, per lb, 30c; 5 lbs. or over at 18c. New Century, per lb, 30c; 5 lbs. or aver at 18c.	SWEDE THENE SEEDS	
Prisc-taker, per 1b., 36; 5 ibs. or over at 25c. Boottish Champion, per 1b., 35c; 5 lbs. or over at 30c. Slephnst or Jumbo, per 1b., 30c; 5 lbs. or over at 18c. New Century, per 1b., 30c; 5 lbs. or at over at 18c.		
at 25c. Scottah Champion, per lb., 25c; 5 lbs. Elephant or Jumbo, per lb., 20c; 5 lbs. To ever at 18c. New Century, per lb., 20c; 5 lbs. or over at 18c.	Princ taker per lb 30o: 5 lbs or over	1
Scottish Champion, per lb., 250; 5 lbe. or over at 200. Elephant or Jumbo, per lb., 200; 5 lbe. or over at 180. New Century, per lb., 200; 5 lbe. or over at 180.	at 250	í
or over at 200. Elephant or Jumbo, per lb., 20e; 5 lbs. or over at 180. New Century, per lb., 20e; 5 lbs. or at over at 180.	Scottish Champion, per 1b., 250; 5 lbs.	1
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GEO. KEITH & SONS. 124		
	GEO. KEITH & SONS, 12	4
Seed Merchants	Seed Merchants	1

EITH'S BEST. Clovers and Tim-py Gold Brand Alfalfa No. 1 Gort. andard is the choicest grade of ribern Grown Alfalfa, \$200 per a. Our seed is obtained from eec-ne where plants have andured the reme cold of hard winters, and will well in our country.

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isily fancy Timothy on the market, before thus. CEAN BRAND ALSYKE CEAN BRAND SILO Ser bus. CEAN BRAND SILO Ser bus. UN BRAND MEMORY CLOVER. . 1 Gort. Mandard. 5160 per bus. . 1 Gort. Mandard. 5160 per bus. . 1 Gort. Mandard. 5100 per bus. . 1 Gort. 1 Gort. Band. . 1 Gort. 1 Gort. 1 Gort. 1 Gort. 1 Gort. . 1 Gort. 1 Gort. 1 Gort. 1 Gort. 1 Gort. 1 Gort. . 1 Gort. . 1 Gort. 1 Gort.

e will be pleased to send samples.

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ter fai testing Duckess Ormsby encon, test-over t% and the equally famous deep and long distance miliking Oreamelle Difference and the second second second methods and the second second second methods and the second second second time local and the second second second time local Rengerveld whose II many for Afri lise, and 5 of them over 100 lise. Milk in a day milk in a day State of the second second second second setable difference and second second field of the second second second second setablese (or which apply to it. G. Bee-field, Woodstoch, will tell you all about them. At the Sale at Woodstock



DYKE STH, the HEUVELTON, NEW YORK E. H. DOLLAR,

(Near Prescott, Ont.)

DJALLY HOLSTEIN TERS, FEB. 1-13 HOLSTEIN TERS, FEB. 1-13 Mature Class. Mature

mi. Ibs. Fr

lbs. butter. Fourteen-day record, at 5y. 1m. 8d.; milk 894. lbs.; fat 31.83 lbs., equal to 39.79 lbs. butter. Owner A. O. Hallman, Breebutte Ont. lau, Or 9. Flo

Ont. lossic Keyes, 9379, at 5y. 6m. 15d.; 456.2 lbs.; fat 15.96 lbs., equal to lbs. butter. Owner A. Dunn, Ingermil) 19.96

9. Flowin Kayes, 507, at 57 cm. 3d.; mills 662, 108; 1at 1369 Max.equal to solution the second second second second to Lady Paulis effect 108; fac 1569 May 47, 500, 501, 301, 301, 302, 1360, 304, 305, 1360, 304, Mailay, Granit's Corners, Oat. 11 Metric Kue Silonweld, 6606, at 67, equal to 1940 Mas, butter, Owner M. 3, Markay, Granit's Corners, Oat. 12 Peteric Hose, 507, at 77, 7m. 354, 13 Peteric Hose, 507, at 77, 7m. 354, 14 Peteric Hose, 507, at 77, 7m. 354, 15 Peteric Hose, 507, at 77, 7m. 354, 15 Peteric Packet Boys, 507, at 77, 7m. 16 Second Second Second Second Second 10 de las butter. Owner A. Dunn, Inger-soll, Ont. Units, Fast 1558 Mas, equal to 1580 Has, butter. Owner Lakorieus Fam. Bronic A.; mills 607 J He, fast 1658 Has, equal to 1580 Has, butter.

Junior Three-Year-Old Class.

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Tyrrell, Out. Senior Two-Year-Old Class. 1. Resta DeScol Maida, 4820, as 2y, 9m, 7d, milk 853 line, fast 145 line, equita lo 1. Inger Maid, 1609, est 7 fm, 1d.; 1. Inger Maid, 1609, est 7 fm, 1d.; 1. Rest Maid, 1

Birenhan, Ott. Herahan, Ott. 4. Grace Irene DaKol, 19973, at 3y, 9m. 54. mill 467 1bs; fat 33:11 Bbs, equal to 152B hs. butter. Owner W. C. Prouse, filenohurg, Ont. 5. Faforit Tehee, 1529; at 2y, 151, 154, at 154 at 154

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1913

7m. 16d. equal to Hallman Kol, 22245. ; fat 13.23 r. Owner

103, at 3y 12.29 lbs. mer L. A 383, at 3y 12.13 lbs., mer L. A.

73, at 33 11.14 lbs Owner A lass.

13251, at 15.56 lbs, ner Brown

at 3y. 0m. lbs., equal A. Dunn, 4m. 11d : equal to E. Mason,

ass. at 2y. 9m. ., equal to '. Stewart,

. 7m. id ; equal to Inksetter,

at 2y. 9m. lbs., equal 9m. 29d ; equal to Hallman,

at 2y. 9m. lbs., equal C. Prouse

iim. 18d.; equal to inn, Inger-

941, at 2y 10.43 lbs. ner W. W

y. 8m. 5d.; equal to allace H.

969, at 2y. 10.11 lbs., wnor Lake 9m. 2d : equal to fallace H.

ty. 9m. 6d. ual to 11.64 ew Farm, at 2y. 8m. hbs., equal hbs. G. Cur

lass. 7488, at 2y. 13.13 lbs. ner Allison

700, at 2y. bs., equal Wm. He

, 18267, a t 11.51 lbs r A. Dunn 17690, a

at 2y. im ibs., equal Dunn. In-

14720, 10.42 lbs. ner Lake 10.4 wner

veld, 1836. s.; fat 10.4 er. Owner

G. Ourria A: 16540. at at 9.65 lbs. ner Allison at 9.91 lbs. Owner A

2nd, 1968. e.; fat 935 er. Owner , Ont. 4841, at 27. t 8.55 lbs. wner A. C Clemots.

MAXWELTON FARM

March 20, 1913

AYRSHIRES LAKESIDE AYRSHIRES

We are offering a number of fine Young Bulls of different ages, sind by "Backs eskis Cheerill Boy" (Imp.) No. 52,87, Two of the Arm are from dams already entered in the Arm are the sinter, while the dams of a number of the sinter, while the dams of a number of the sinter, are as present un-der test for the Becord of Performance.

LAKESIBE FARM, PHILIPSBURG, QUE, GEO. H. MONTGOMERY, Prop. 164 St. James St., Montreal

TANGLEWYLD AYRSHIRES

HARDLETTILW AIROPING Bocial offering Yearing Bull dam, Prinrose of Tangiewyld ind. R. of P. st a. Sycaroid, 48075 lbs. milk. 2628 lbs. fat, average test 444; grand-dam, Prin-roll, off angiewyld. E. of P. (16956 Dis-nell, 500 angiewyld. E. of P. (16956 Dis-Bonnie Hr. 188, 5544 bis., R. of P., 1,8265 Dis. milk, 6554 bis., S. of P., WOODDISSE BROS. - BOTHSAY, ONT

SUNNYSIDE AYRSHIRES

Imported and Home-bred, are of the obcioest breeding of good type and have been selected for production. THREE Young Bulls dropped this fall, sired by "Notiser Hail Good-time"-26,4d-(Imp.), as well as a few females of various ages, for sele. Write or oome and see.

J. W. LOGAN, Howick Station ('Phone in house.) 1-6-1

TROUT RUN AYRSHIRE BULLS

TROUT RUM ATRISHIRE BULLS I offer our particularly choice Arrishin Hulls ft for arrive, all from high record performance dams, and sirely Biolehouse Brinales affreent ages, some now freshendheirs females affreent ages, some now freshendheirs graulity. Also one wir-hilditon sair of large Trainlouse Greese St., H.P. hilditon sair of large Trainlouse Greese St., H.P. Million sair of large Trainlouse Greese St., H.P. ULLIAM THEOR For particular write WILLIAM THEOR TO RECORD.

Burnside Ayrshires

Winners in the show ring and dairy tests. Animals of both serses, Imported or Canadian bred, for sals. Long distance 'Phone in house.

R. R. NESS. . . HOWICE, QUE.

AYRSHIRE BULLS

AYRSHIPE BULLS Of chooses individual merick sides by Duke of Arry. The particularly good son (one of of P. ow (1616) [b, only changing the butter), and from dame of heavy milking potential and the son of the son with ing and records will be gladly given. Can spare a few holters of Fall of 916 hirth-spare a few holters of Fall of 916 hirth-R. R. No. 1. STREPORT, ONT.

FOR SALE

Two Ayrshire bulls, 12 and 7 mos-old. The oldest bull is mostly white, and well developed for age, from R. O. P. dam and sire. A fine animal. Write for particulars. E. B. PALMER & SONS, Norwich, Ont.

AYRSHIRE CATTLE AND YORKSHIRE PIGS For Sale-Archire Caires and mine fit for service. Yorkshire Piga, Bid each or, if registered, 86.00. All the above are form first price nock. Send in orders now. with instructions re BON. W. OWERS, "A POP to ONTON, Ras. BIN. W. OWERS, The Piga. Mark Balls, Que.

WOULD YOU LIKE TO HAVE A SPECIAL WRITE-UP

Of your herd in our GRATE DATRY NO, out April 10? F. R. Mallory, of Frank-ford, had one in December 5th special; is made him sales over \$2,000 for his Holsteins. Write Farm and Dairy at once for reservation April 10 and com-plete arrangements.

MISCELLANEOUS **MAXWELTON FARM** Has some of the BEST JERSEY CATTLE in the land. Also BERKSHIRE SWINE. Make your wants known to the Manager,

STE. ANNE DE BELLEVUE, QUE.

FARM AND DAIRY

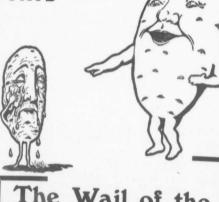
PAYS"

W. G. HUFFMAN'S OFFERING (Continued from page 2) d with carrell attempts of a come-ventil attempt of the second second enterty, attempt of the second second second hat under contary farm conditions who has a second the second second second the second second second second attempt of the second second

some fortunate buyer. GRIATEST VIEW HERD AT BELLEVILLE Mr. Archibiato Price Napane, Ont., is to the Belleville sale. A feature of this to the Belleville sale of the Belleville sale every indication of a splendia frame, should make them good buying. T do is a way a man crupy of this kind. The State of the Belleville sale of the Belleville to the general appearance of the many price from Mr. Kurff at last year's sale. The several support of the sale of the State to the general appearance of the many parts, they beautiful square doesn's and from the general appearance of the many parts, they beautiful square doesn's and to the general appearance of the many parts, they beautiful square doesn's and to the general appearance of the many they be the sale of the sale of the sale to the general appearance of the sale to the sale of the board of the sale of the they be the sale of the sale of the sale of the they bear of the sale of the sale of the the sale and the bar of the sale of the the sale and they bear of the sale of the the sale and the bar of the sale of the the sale of the above females are in sale to porter of the great May falls. The sale and the sale of the sale of the sale of the the sale of the above females are in sale to porter of the great May falls. The sale and the the sale of the sale of the sale of the above females are in sale to porter of the great May falls. The sale and the sale of the sale of the sale and the sale of the sale of the sale and the sale of the sale of the sale and the sale of the sale of the sale and the sale of the sale of the sale and the sale of the sale of the sale and the sale of the sale of the sale and the sale of the sale of the sale and the sale of the sale of the sale and the sale of the sale of the sale and the sale of the sale of the the sale of the sal GREATEST VIEW HERD AT BELLEVILLE

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HOLSTEINS Who will be the lucky one to own son of 20.6-th. junior 2-year-old? Combines blood of King Begis Paul Beets, King of Pontiacs and Pietertje Hongerveld Count De Kol. First obeck for \$100 takes him. HET LOO STOCK FARM, VAUDREUIL, QUE. Dr. L. de L. HARWOOD, Proprietor GORDON H. MANHARD, Manager "Potash



The Wail of the **Starved Potato**

Look at that poor, shriveled-up, good-for-nothing potato

He is wailing because he is starved to desth, and the mat that grew him is wailing because he is not making the mone; he should out of his farm.

The about fails as walling because ho is not making the mono-wall of the sain farm. We have the source of the source of the Look at Mr. Potash Hard, BR Bill because this potato IS started the and hundred of his fillence as been how folly and fails ho is a start of the sain farmer of the source of the sain the sain started of the sain source of the sain the sain the sain started of the sain source of the sain the sain the sain derivation to bring his grower a good profit, and all because derivation the sain approximation for the sain the sain the server may be sain the sain the sain the sain the sain the derivation of the sain the sain the sain the sain the form the sain the proving sain the same horizont. It has a sain the same horizont. It has a sain the sain the sain the sain sain much POTABEI. Any sain the sain the sain the sain the sain much POTABEI. Any sain the sain the sain the sain the sain sain the sain the sain the sain the sain the sain the sain sain the sai

This Applies to All Crops in Canada

It makes no difference what crop you raise, you'll find the ordinary fertilizer does not contain the amount of POTASH ne-cessary to secure the largest possible crops from your farm lands.

centrally to secure the largest possible crops from your farm Hare is that you. Mr. Farmer, should do if you wish to make more money from the farmer, should do if you wish to the provide the second second second second second provide the second second second second second second provide the second second second second second second provide second seco

(29)355 356 (30)

FARM AND DAIRY

March 20, 1913



A Son of Hengerveld De Kol

Sunnydale offers calves, grandwons and grand-daugh-ters of Hengerveld De Kol. from good official record dams of our Helena family. Price: Heifers, \$100.00;

A. D. FOSTER

Elmcrest Stock Farm ELINCREST SIGCK FATM Offres a Built Calt, mostly white, low st, straight and block, whose stree strength and strength and was prespirates over 35 the builter from 863 like, of multiple distribution was and the strength and the calculation of the strength and aughter of Netherland Bauty Teoch – secondate System and a strength and strength and the strength and strength and strength and the strength a GARNET, ONT. H. CHERRY. w.

DaleView Holstein Farm

Bull Caives for sale, and a limited number of Heifers and Heifer Caives, sired by a brother of Fet Posch De Kol, 3588 lbs. of butter in 7 days. Champion weekly record cow of Gan-ada, and grandsons of Mercedes Julip's Pietertje's Paul, sire of 63 A. B. O. Pietertje's Paul, sire of 63 laughters and 15 proven sons.

F S. FERGUSON, Inverary, Ont. Long Distance Phone Frontenac Co.

Of my Excellent Breeding Herd HOLSTEINS At the WILLOW CREEK FARM, will be made on APRIL 2nd, in connection with the EAT BELLEVILLE SA My splendid herd of Holsteins must now be disposed of b

have taken an opportunity in a business way in the City of Belleville, and am giving up my farm.

Catalogue gives full particulars of breeding. Get one by writing F. R Mallory, Frankford, Ont., Secretary of sale.

You will note that my youngest stock is from

Entire Dispersion

ADMIRAL FRANCY ORMSBY

A Crandson of Sir Admiral Ormsby and Francy 3rd, out of a 19lb. grand-daughter of Carmen Sylvia, and a brother of Evergreen March.

Cows all in calf to this richly-bred and splendid sire.

While I have never had the opportunity to go in for official 7-day work, I am told by practical men, competent to judge because of their own experience at the work, that my cows can do superior work.

I have always selected them with great care as to the individuality and production. You will find them A. I stuff and profitable buying for you.

Come to Belleville to the Sale, April 2nd. You'll find great buying in my consignment,

W. G. HUFFMAN, Gilead, Ontario WILLOW CREEK FARM.

BREEDERS' DIRECTORY

Cards under this basd insorted at the rate of \$4.00 a line per year. I d accepted under two lines nor for less than six months, or 26 insertio card accepted under during twelve months

pte-H. U. Benneld. Woldstock. ODBATO. HULSTEINS--Young stock for sain Sired postrest dams average 350 has obtained rearest dams average 350 has obtained for TANWORTH SWINE--Write John W. Todd. Corinth. Ont. E. P. D. No. 1.

YORSHIRE PIGS. all ages, either sei. Cholos young Boars, fis for serice. Also Cholos young Boars, fis for serice. Also Bows of all ages, braft and heary with Dire -H. C. Benheld. Woodhock, Ontario. -fi. M. Holthy, Mänehester, Ont.

MARKET REVIEW AND FORECAST

and in eggs.

serious reductions have been in barley and in eggs. WHEAT Three has been a slight advance in hard wheat in the local exchange, but it only amounts to about one-hall a cent. Dr-mand from the slight advance in the explices are larger than ever before, and the winter wheat erop is in good condi-tion. Hence no decide future. Ontario wheat is in excees of the drmand. We quote as follows: No. 1 McTherm, 97.55: No. 2, Soc. No. 5, So to 15, So to 16, So to 16, and down to 7bs for poor grades. COARSE GRAINS for poor grades. COARSE GRAINS

FOTATOES AND BEANS Receipts of polators continue likewal have prevailed for some weeks. New Brunswicks are quoted at 5% out of store and 8% in car lots. Ontario, polators we well supplied. Green Mountains being pur-chased at 6% to 7% on track. Beans are quoted at 55% of primes are \$2.50 for being pixed. At Mourtail three are all sources and a store and a store that the store on track. Beans are quoted at 55% explicit put and pixed at 50% of the pixed at the pixe. Beans are Gas AND polity pixed at the pixe and a store of the pixed at the pixel.

pound pickers are 82.36 eight@Dind por-ent, 82.15 EGG AND POLLTRY Parther declines are noted for all class-se of ages. The fact are picked by a sufficient, low quotations at the United States centres would keep prices down, at fact by the sufficient of the state of the table of the state of the state of the marked at Sec to the state of the sate of the state of the state of the state of the marked at Sec to the state. New show the state of the state of the state of the state of the marked at Sec to the state. The state of the stat

malering into 10 hos many two Now is the desirable season to market some of the old fowl that are not to be earried over another winter All lines of dressed positivy are grown. White the table of the start of the source of the the table of the source of the source of the to 20 host of the source of the source of the the source of the source of the source of the lines are book function for the source of th

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LIVE STOCK

harge i.e. LIVE STOCK There are leve price changes to note on the live stock market. Choice lots of Faster cathe are brinning the same too prices as when model as and string arcrived \$630 to \$7. Picked lots of butchers cather like set lat \$650 to \$675, good, \$625 to \$561; com, to set, \$5, to \$615; ertas down to \$3; stockers and feeders are in good dewand at \$475 to \$576; canners bring \$250 to \$3.

are quoted at 95.0 fed and watered on the market and 85.0 f.o. b. country points Rows bring 97.0 f.o.b. Mannreal and State 197.0 f.o.b. Mannreal and State 197

WHY NOT SELL THROUGH AD-VERTISING IN FARM AND DAIRY?

Do you ever figure out just what it costs you to keep surplus pure bred stock, such as bull calves, bulls ready for service, and which you want to sell, and other surplus pure-bred stock, which someone else can make better use of than you can?

Fam

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There is a great market amongst There is a great market amongst the people reached by Farm and Dairy. Many of these people right now are looking for the very kind of stock you have for sale. Why shouldn't you adopt the progressive way of selling your pure-bred stock? Why not adver-tise it in Farm and Dairy?

Space in Farm and Dairy costs you only \$1.40 per inch. It will pay you to fix up your ad to night and send it in to Farm and Dairy so as

to catch next issue. Send orders to have your ad. in Farm and Dairy for several issues, beginning next week

maining in Canada is probably from 30,000 to 40,000 boxes, it shows that our total production this season is something like 100,000 boxes less that has a blight this season that it is generally expected that more milk will be turned fits butter next year at the expense of the produc-tion of choses, and consequently a fur-ther decline in the output must be looked

tion of cheese, and consequently a fur-ther decline in the output must be looked The market for butter is rather firmer, with prices on New Zealands advanced to 2016 a pound here. Finest Switchmer-ond selected loss of all made at 28 to 2016. Fresh butter will be conting in wearing a final selection of the selec-tion in the market. Here the two here the selection of the selection of the arrs expected next weak. Selected lots are united at 3125 to 51610 or selection of the sel

to \$13.25. SALE DATE CLAIMED Erra F. Summers, Slate Hill Farm, Win-chester, Ont., will disperse his herd of pure-bred Holsteins on April 17. Watch for Mr. Summers' ads. in future issues of Farm and Dairy

SOME NEWS OF THE WALKEP FAMILY (Continued from page 29) no doubt but that this Walker family, headed by Prilly, is the greatest trans-mitting family in the wh-le breed. Two of the daughters of King Walker 20 years, 28,30 Hes, butter in seven days, and Prilly Portiac Walker, 25/ pages, 25:30 He. but-Portiac Walker, 25/ pages, 25:30 He. but-

ter. I have recently sold the remaining bull ier. That on head and be argone to Best-the on head and be has groot to Best-the L could have sold him 40 times, but I would not lower the price. As soon as which man at Seattle got his pedirare he wired to faim. Ho realized what here-ing in U. 8. for double the money. Why is it that Canadians will go to the United States and pay hig prove when they can built only on hand. My last eight only built only on hand. My last eight only of mins is gring for comes female and by weights nearly a ton more, and un cating attern the sum-mer, and un cating attern the sum-a better chance.

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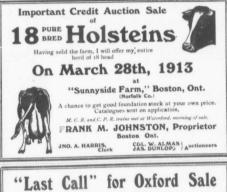
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Jas. Rettie's Consignment

DEAR FRIENDS:

You will be mighty glad in the years to come that you attended the Oxford Breeders' Club Sale at Woodstock, on TUESDAY, MARCH 25th. You can get the right cattle at this sale to go ahead with and build a success with Holsteins. Of course you'll set the price, absolutely inselves since there cannot possibly be any reserve whatever. big success

My own consignment of 5 young tested owns are such as I am proud to have go out as coming from my herd. Look them up in the herd book: They are: Canary Butter Girl, Jessie Posch, Olive Schulling 3rd, and her daughter Olive Mercena, and Elloree 2nd.

Just such cows as will make money for you as they have for me. Be at the sale sure and watch for the individuals in my consignment.

Yours truly, JAS. RETTIE, Norwich, Ont.

Surplus Stock All Sold

The bull recently advertised is sold, and I am now booking orders for bull calves coming, all from A.R.O. cows, from 17 lbs. as junior two-year-olds to 30 lbs., mature cows.

I have got so much good stuff here that I cannot begin to tell you about it all. Our latest is a 30-lb. three teater, best day's milk 88 lbs., and five lbs. butter. Another is a 35-lb.

days milk 88 lbs., and live lbs. butter. Another is a 35-lb. cow.
First time you come to Toronto bear in mind that I in this you to come out to The Manor Farm and inspect my stoke. Farm is easy of access from North Toronto on Meriodo ta is a so-ord. Rog are within a state of the so-ord. Rog are within the way of stable and dairy equipment, and there were used to the come through the toronto.
Met held of your pen and paper and write me to night about the Holsteins you are wanting. If I cannot supply to can tell you where some good stuff is.
Der Manor Farm, - Bedford Park, Ont.
The Manor Farm, - Bedfor

FARM AND DAIRY

------**OUR FARMERS' CLUB** Correspondence Invited Correspondence Invited PRINCE EDWARD ISLAND

PRINCE EDWARD ISLAND INGS CO. P. E. D. We are having very fine warm weather here now having very fine warm weather here now much has been handed yet. The seed fairs are being heid this month, also polity above. Eggs are very plentiful at 2000 butter seatce at 2000 brank. Also, ioleake, \$2.66 pork, 11:56; beef, 46 to 56 live weight-CO. A. OLIFERC

weight-G.A. OUEBEC BCHWOND CO. QUE. DANYLLE, March 11-Since control of the second second second being done, as there was not much channow the first part of the winter. Cattle are looking well on plenity of feed. Forth is salaten a slight rise again to 30s; butter, 305-M.D.B.

ONTARIO

Hint for "EI dress," and "ess have taken a align tree again 0.36; butter.
 MARLO
 HARLO
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March 20, 1913



Concentrates Linseed Oil-cake Meal, Cotton Seed Oil-cake Meal, "Good Lock' Cail Meal, Dairy Timail foils. Trices. F. O. B. *Ver handle the manify and can guide indexing price.* Write Oro price on quantify you want. CRAMPSEY & KELLY, Bovercent Rd, Taresse, Get.

GLENDALE HOLSTEINS

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ULLENDALL HOLS ILLING Butize crops of Pure-bread Holsisin Bull Caives and a limited number of Holses, whose three nearest sizes have sided May Eabo Spiris, over H ibs. butier in fass, second. Luin Keyes, 1346 bis, in B. O. P. as a senior two-sear-bid (world's repord), and Jewel Pet Peoch Da Kol, Skél Bas butter at 4 years (world's record). Prices restore able. All correspondence promults Ase 283

WM. A. SHAW, BOX 31, FOXBORO, ONT

ELMDALE DAIRY HOLSTEINS

A few Females for sale. Calves, Tear-lings or Cows. 50 head to celect from. Most of the young stuff sired by Paladim Ormsby (Rid). Service bulls, Paladim Ormsby and Highland Calamity Colantha (12,428).

FRED CARR. BOX 115. ST. THOMAS, ONT.

Registered Holsteins FOR SALE !

To make room I offer for sale 15 Heifers, due to freshen in March and April. They are coming 3 years old and are carrying their 2nd calf, after a son of a 29-lb, 5 year-old.

R. CONNELL, R. R. No. 2, SPENCERVILLE Grenville Co., Ont.

LAKESIDE DAIRY AND STOCK FARM Present offering, Bull Calves dams; also a few females.

W. P. BELL, BRITTANNIA HEIGHTS, ONT ttawa Bell 'Phone.

CLOVERLEA HERD OFFERS CLOVENLER HERDS OF Elses Two cover for sale, Princess Adrients, 11259 Iba milk, 444 Iba fast. Test 352. Dolly Gray, born 392, semi-official last year, 1278 Iba milk, 461 Iba fast. Test 355. Both due to calf in April, and in calf to Sir Rag Apple Korndyke, a double grandson of Yontias Korndyke.



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ELS 50 Tag \$2.00 \$1.50 \$1.00

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URAINT FARMA Offers is HEIPERS, rising 1 yr. old. is HEIFERS, rising 2 yr., 6 Bulls, rising 1 yr. old, aired by son of Also Ruil and Heiler Calves. Pur-nished in pairs not akin. Write, phone or come and inspect.

WM. HIGGINSON, INKERMAN, ONT.

LAKEVIEW HOLSTEINS

LARCVIEW HOLSTEINS We are now testing some of the daughters of Count liengeweid Payne De Kol, and they are running from whether they are the source of the source are offering at half their value, in order to make room. They are sired by Dutchland Colanths Bir Mona. Come bales farm and see the dama of these E. F. OSLER.

Purebred Registered HOLSTEIN CATTLE The Greatest Dairy Breed Ass rea FRE ILLUSTRATES BOOKE Holstein Friesian Asso., Box 148 Battleboro Vt

LYNDEN HERD

High Testing HOLSTEINS For Sale

Hulls, fis for service, one a son of Spot-ted Lady De Kol, 37.55, and all sired by Salves, O Lulu Ghaser, 57.7. Also Bull Also sny Fernals of a milking age has a price. Write or some and sees them. 5. LEMON. LYNDEN. ONT.

Ourvilla Holstein Herd Only one son of Dutchland Colantha Sir Abbekerk left. Speak quick if you want him. A dandy from a 24.50 b 4-year old. Write for pedigree and price.

LAIDLAW BROS., AYLMER WEST, ONT

RIVERVIEW HERD

9 Young Bula, from 2 to 12 months, sired by King Isabella Walker, whose sister, 3 nearest officially tested dama, a sister of his dam, and two sisters of his sire average for the eight 30.34 lbs. from R. O. M. and R. O. P. dams. P. J. SALLEY. . LACHINE RAPIDS, QUE.

YOUNG COWS AND HEIFERS

HOLSTEINS of different ages

Safe in oalf to a son of the great bull De Koi the End's Butter Hoy the Srd. Also Yearling Heifers, and Heifer and Bull Calves for spring delivery. Write for prices. W. W. GEORGE. CRAMPTON, ONT.

Avondale Stock Farm

A. C. HARDY, PROPRIETOR. HERD SIRES

A HERATURE TRUE TRUE TRUE TRUE HERATURE TRUE TRUE TRUE TRUE TRUE Dam, Prices Hengerveid De Kol, A.R.O., 3362. Highest record Gaughter of Hengerveid De King Pontise Artis Canada, 1841 (72:34) Bire, King of the Pontises. Dam, Pontise Artis, 317 Ibs. Butter 7 Daughters of Hengerveid De Kol, We are offerting buils from these great sites and high record dams, and also a Mo bailer only will be add to also them. No bailer only will be add to also them. Nother a correspondence to R. LORNE LOGAN, Mgr., BROCKVILLE

"PROOF OF THE PUDDING" Stamford, March sth. 1913 Mr, R, F, Hicks Newton Brook -100

Dear Sir The bull calf arrived last night at six o'clock,

The bull call arrives last negression was very in the negression of the size and if I can call keep many or priority of the size and the size and the any ones espectations. You will device a size of the size of the the amount One Hundred and Fifty Dollars. Thanking you for the spherid saminal. Yours very transfer for the size of the size of the the size of the Yours very transfer the size of the size of the size of the the size of the the size of the the size of the the size of the

NOTE !-- I have one of the satisfactory kind for you. Write for description, etc. R. F. HICKS, Newton Brook, Ont.

GOSSIP FROM MANOR FARM.

GOSSIP FROM MANOR FARM. In a record lotter from the Manor Parm, Mr. Gord lotter from the Manor that a sister of Inka Sirie informed and solution of the Sirie information of the base of the Sirie information of the hebit lotter is a factor. This makes the built carbon and the solution of the base of the solution of the solution of the solution of the solution of the base of the solution of the solution of the solution of the solution of the base of the solution of the solution. As the solution of the solution. Solution of the solution of

MR. TANNAHILL'S OFFERING.

MR. TANNAHILI'S OFFERING. Editor, Farm and Dairs. - The two cover we are affering in Jairs. - The two cover down deep bodied kind, as are the low-assing. We are offering them for este turne myse have too many for our par-years and we have been in our herd for years and we have been in our herd for both of them. Note the per cent. of cni is and 3.5. Both of them are in easif has always teach Korntike, whose dam call test, and whose grand-dam was off-cial test, and whose grand-dam was off-to all the price I was warring are to the price I was a start of the star-tion. Que

Volume One of the Canadian Holiston. Priorian Year Book, just to hand, pre-sents in handy form all records of mil-factors and the second of the second of the lectric of the second of the second of the decord of Merica and Becord of Perform of Canada unloss the second of the second incition of record own second of the second incition of record own second the second and under their dams affords invaluable and under the second second the second and the second second second the second and the second second second second second to the second second second second second the second sec

AYRSHIRES IN R. O. P.

ATRSHIRES IN R. O. F. (Continued from last weak) White Rose, 26,554, Hon. W. Owenes, 9,575 liss. milk, 30030 hs. fat. 397 per const fat. Mise Flora of Barciay, 25,542, H. W. Yan-denkov, Humingdon, B. O. 6,607.55 liss. Addition of Barciay, 25,542 per const fat. Edith of Barciay, 25,542 per const fat. Table of Barciay, 25,55 per const fat.

New Year, 29,577, Wooddisse Bros., Roth-say, Ont., 7,361.75 lbs. milk, 356.79 lbs. fat, 4.84 per cent fat.

434 per confine Primoso of Tanglewyld Edss <u>1270</u>, Wooddisse Euros, <u>56975</u> bib. milk. <u>5723</u> lis. fat. 44 per cent fat. Duratiker Biolo of Hickory Hill, <u>3478</u>, N. Duratiker Biolo of Hickory Hill, <u>3477</u>, N. L. Jannie of Monte Beilo, <u>3467</u>, Hon W, Owens, <u>2005</u> lis. milk. <u>3287</u> lis. fat. <u>379</u> per cent fat. <u>380</u> per cent fat. <u>381</u> per cent fat. <u>381</u> per cent fat. <u>381</u> per cent fat. <u>381</u> per cent fat. <u>382</u> per cent fat. <u>383</u> per cent fat. <u>384</u> per cent fat. <u>385</u> per cent fat.

Bpringhill Miss Owens, 28,931, H. W. Van-larhoof, 7,926.5 lbs. milk, 267,47 lbs. fat,

dermoor, 7,20.0 100. Hiss, 307.9 100. 100. 100. 3.37 per cent fat. Ruth of Monte Bello, 31,858, Hon. W. Owens, 7,730 lbs. milk, 308.9 lbs. fat, 3.99

ber soni fal.
 Pearl Blone Marigold of Byringbank, 36,553, Jos. Thompson, 7,5455 fas. milk, 26,868 bl. fal. 359 per cent. fal. Loch Fergus Boques, 33,500, J. A. Fringle, Huntingdon, que, 7,3845 blas. milk, 203.34 Barbhard, Burger cent fal.
 Barbhard, Lipper cent fal.
 Barbhard, Barger cent fal.
 Barbhard, Barger cent fal.
 Barbhard, Barder Charlier, 200.4 fal. Bard, 199 per cent fal.
 Beauty of Craiglicles, 32,704.8. Strumer & Son, 6,615,80 lbs. milk, 27162 lbs. fat, 440 per cent fal.

Beasie 20th of Neidpath, 32,129, W. W

Bessie 20th of Meddpath, 32,129, W. W. Ballantyne, Siraiford, Ont., 6,6315 Jhs. milk, 2012 Jhs. fat, 457 per cent fat Annie May. 35,081, H. C. Hamill, Box Grove, 0,56475 Hs. milk, 265,09 Hs. fat, 439 per cent fat. Lady fad, 2576, A. S. Turner & BOn., 6,525,65 Hs. milk, 366,69 Hs. fat, 4,19 per cent fat.

Tulip of Oraigielea, 30,712, H. C. Hamill, 6,338 lbs. milk, 259.34 lbs. fat, 4.09 per cent

fat.

fat.
Meg of Oakland, 32,138, George Stokes, Tweed, Ont., 6,000 lbs milk, 251.53 lbs, fat.
4.18 per cent fat.
W. F. STEPHEN, Secretary.



At the residence of John S. Rutherford, Tullochgorum, Chateauguay Co., Que., 1 mile east of McCaig's Corners

Tuesday, March 25th, 1913

19 Head Registered. |21 Head Grade

The foregoing stock are from such sires as Canadian Neth-erland (1973), Minto De Kol (2430), whose dam was Lady Col-antha De Kol (2026), who won the champion milk test at Ottawa, Wadie De Kol (3963), won the champion milk test at Ottawa, 1912; also holds the world's record in public milk test at Ottawa, 1928, also Hell SANGERER. BRED BY NEIL SANGSTER.

Stock Bull Senator Lad De Kol, 4 yrs. old (8913), will be sold at the sale; is a grandson of Maudie De Kol, and on the dam side a grandson of Lady Colantha De Kol.

Sale without reserve, at One o'clock p.m.

Will meet morning trains at Bryson's Station.

TERMS: TEN MONTHS CREDIT. Catalogues sent on application

-

Quebec

JOHN S. RUTHERFORD

Tullochgorum,

ANDREW PHILIPS, Auctioneer



sale at their Barns, Bealton, Ont.

WEDNESDAY, APRIL 2nd 1913

As I have purchased the entire herd of the estate of I. G. WYCKOFF, I will offer the whole herd, except calves and year-lings, 32 HEIFERS AND COWS, EITHER FRESH OR IN OALF, bred to the herd bull of this herd. Sir Diotine Paul Posch, which is getting fine strong vigorous calves, with the best of quality. This fine sire, which is two years old, rising three, will be sold in the sale. He is a beauty, light in color, and will make a 2000-lb. bull. He is as quiet as a cow. Seven Yearling Bulk, nearly all from Record of Merit Dame, make

and will make a 2200-1b. bull. He is as quiet as a cow. Seven Yearling Hulas merry all from Record of Merit Dams, mak-ing good records. They are serily all from Record of Merit Dams, mak-This Berd of cattle are of the larger provided the series of the series that perform the series of the series of the series of the series with Bis. each of Dutter in 7 days of the series of Tay Abbe-ser, official for harve see bable to officer such a choice lot of the series with Bis. each of Dutter in 7 days of the series of the series with Bis. each of Dutter in 7 days of the series of the series with Bis. each of Dutter in 7 days of the series of the series with Bis. Second the series of the series of the series of the series with Bis. Second the series of the series of the series of the series with Bis. Second the series of the series of the second the series second to start or to find the series of the second to the second Cataloguer will be made by March set, he series and and get the second all trains will be series of the second to the second

All trains will be met at Waterford and taken back for ovening train. Lunch at noon for those coming a distance. Sale held under over. Terms cash or time up to six months on approved notes, with interest at six per cent.



(33)358



The MeGregor Banwell Fence Co., Limited, Walkerville, Ont