

# **A BUMPER CROP**

The Western farmer looks to his wheat fields for his harvest. The dairy farmer depends largely on the product of his dairy. A great deal of the dairy farmer's



success depends on the make of Cream Separator he uses. The up-to-date dairy farmer will use none but the best. Are you up-to-date?

FARM AND DAIRY

Much Information of Value

Information of the most practical ad valuable nature and covering

lege. Then in the report from the dairy department are set forth the results

department are set forth the results of many experiments in cheese mak-ing and butter making. Professor Dean has tabulated his conclusions in his usual lucid style, making his sec-tion of the report of inestimable value to dairymen.

AYRSHIRES IN THE LEAD ATRSUMES IN THE LEAD The summary of the records for the dairy herd show the cost of milk pro-duction and the average net profit, which latter is in favor of the grades, followed by the Jerseys, after which come the Ayrshires, leading the Hol-steins. This comparison is scarcely fair or the record clearly states All

fair as the report clearly states. All dairy farmers will want to read this

This is the report clearly states. And dairy farmers will want to read this section of the report. Reports on the cost of raising lambs and experiments with awine are of more than ordin-ary interest and furnish data, which fill a long-felt want. In the swine experiments alfalfa made a remarkable showing and indi-cated the great possibilities of this erop in reducing the cost of produc-ing pork when it is fed along with a meal ration. Concluding his report on swine, Professor Day states that the hog is able to give a good account of the food it consumes when sold at six cents or more a pound. FACTS ADDUT FOULTRY

FACTS ABOUT POULTRY

sulta. Prof. C. A. Zavitz, in his section of the report, sets forth a vast fund of things worth knowing in regard to field hushandry, or farm crops, which every farmer may read and study for some evenings with great profit to himself.

ABOUT FARMERS COOPERATING While it is not possible in a short view to cover all of the features of

review to cover all of the features of the College report, we would draw mechal at lecture in Economics, has been as the enture in Economics, has the feature in Economics of the visit to the British Isles and Europe to study the methods of cooperation as employed by the farmers in three parts. What he has to say on "Why Ontario Farmers do not Cooperate; and "The Place of the Middleman" will prove of interest and value to every farmer.

will prove of interest and value very farmer. The College report is free to those who ask for it from routon. Every-none not on the list and receiving the report should produce for themselves a copy and profit in so far as pue-sible from what is contained therein.

sults

The "SIMPLEX" Link - Blade Cream Separator is built on scientific lines. It is the only cream separator having the Link - Blade Device and the Self-Balancing Bowl. These are features exclusive

that you can get in no other cream separator.

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FIG.173

The other states in the set of th

BEATTY BROS. - FERGUS, ONT. The BT Line also includes Steel Stalls and Stanchions, Feed and Litter Carriers May 18, 1011

### Results of O.A.C. Exams.

The medals, scholarships, and prize awarded to students at the Ontario Agricultural College for work during Information of the most practical and valuable nature and covering many lines of agricultural endeavor is contained in the 36th Annual Report of the Ontario Agricultural College and the Experimental Farm, which report has been received. Although issued later than it should have been, to be of most use to the farmers, the report contains matter well worth taking time to read. There are many things featured in the report which will prove invaluable to neekers after information along special and diverawarded to students at the Ontaria Agricultural College for work during the past year are as follow: Governer, General's Silver Medal, S. H. Ho-kins, Lower Nicola, B. C.; the Genrge Chapman Scholarshin, J. Miller, Mt. Elgin, Ont. typics in books, Valution, Ont. for in general preference first and even year work, S. H. Hopkins, Lower Nicola, B.C. Scholarships awarded on first year work, theory and practice, §20 in cash: Agriculture, S. G. Freelorm, Magnetawan, Ont.; Biological Sci-ence, J. F. Nash, Windor, Ont.; English and Mathematics, J. H. Winalow, Chelsea Green, Ont.; Skilli-ney, Ireland and Mathematics, J. H. Winalow, Chelsea Green, Ont.; Phy-sical Science, P. Waterhouse, Killi-ney, Ireland, H. King, Hokson, Ont.; Superial Pringer, Oakville, Ont.; Scholarshie, H. King, Hokson, Ont.; Scholarshier, J. King, Hokson, Ont.; Scholarshier, J. H. King, Hokson, Ont.; Scholarshier, J. King, Hokson, Ont.; Scholarshier, Scholar will prove invaluable to neekers after information along special and diver-sified lines. For instance, we might mention a detailed report of the com-prehensive experiments of Prot. Wm. H. Day, on the matter of the co-coment till, could be the detailing of the results secured from making ce-ment till experimentally at the Col-leco.

first year 147 students wrote upon the

the proficiency may in fair, and the first year 147 students wrote upon the examinations, 81 in the second year, and 49 in the third year. The results of first year examina-tions, arranged in order of pref-ciency, for the first year examina-low. The maximum 2000 to the the low. The maximum 2000 to the 2,142: 3. Freeborns, 2,007; 4, Nee-lands, 2,019; 5, David, 2002; 6, Water-house, 1,961; 9, Milcher, 1,997; 10, 1,981; 7, Thiple, 1,062; 8, Water-house, 1,961; 9, Milcher, 1,997; 10, Puleston, 1,905; 31; 13; Robb, 1,88; 14, Good, 1,840; 16, Rogers, 1,89; 16, McLaurin, 1,780; 19, Lauidas, 1,775; 20, McResie, 1,977.

McLaurin, 1,780; 19. Laidlas, 1,775; 20. McRastie, 1,767.
 McRastie, 2,378; 4. King, 2,981; 6. Kay, 2,261; 6. Daries, 2,981; 7. Britton, 2,247; 8. Branhil, 2,169; 9. Henry, 2,189; 10. Harding, 2,169; 9. Henry, 2,189; 10. Harding, 2,169; 11. Reidl, 2,155; 12. Beckett, 2,137; 13. Trengillus, 2,135; 14. Nixon, 2,106; 15. Wilson, 2,082; 16. Fry, 2. 703; 17. Stark, 2,038; 18. Stairs, 2, 3,109; 1. Van Sickle, 1,88, Stairs, 2, 3,109; 1. Van Sickle, 1,664; 2. Ghès; 4. Beaupre, 1,552; 5. Phillips, 1,409; 6. Reaves, 1,405; 7. Lund, 1,411; 8. Be-man, 1,400; 9. Bradt, 1,382; 10. McCould, 1,297; 14. Dias, 1,298; 15. McCould, 1,287; 16. Bland, 1,288; 17. Wilk, 1,287; 18. Ghand, 1,285; 17. Wilk, 1,287; 18. Green, 1277; 19. Ros, 1,275; 20. Murray, 1,271.

# FACTS ABOUT POULTRY Farm and Dairy readers who have to do with poultry will be inforested in some features of Prof. W. R. Graham's report in which he deaus with the matter of "breeding layers" and "hatching quality of the egg as influenced by the stock." Professor Graham has secured what may ce termed wonderful results from his laying hens, and in his report are given the facts which will enable others to place themselves in the way of appr ximating his satisfactory re-sults. The Rural Publishing Co., Ltd

The Annual meeting of the Rural

Issued Each Week Vol. XXX. SUPPLEN

Crops to Supplement

HERE are but fe

can afford to no crops to supple While I claim strong should be greatly im also wish to emphasiz ance of supplementin best kinds of fodder of hot, dry periods durin greatly reduce the an duced from the past not made, there is of of milk of the dairy h of young stock, and in increase in the weight ing animals. A wise f careful provision to pastures either by the mer fodders or by furn of silage which can be quired in the summer are a number of supp that can be used to a of which are as follow (2) A mixture of oat Millet, (4) Corn.

ALFALFA AS A GREET

The growth of alf: has been increasing few years. It can b lent advantage for th hay, of green fodder As a green fodder cro the pasture lands, it very best. The gro large and is continu the senson; its stoolin excellent; it will stan four cuttings in one y nishes a large amount able and nutritious. cropbit possesses a gr green fodder for sever out re-seeding. It i land, as so much of is obtained from the from the atmosphere. relished by practically fodder is so rich in that it becomes partic the summer when the tively light in produc

A MIXED CROP Numerous experime the Ontario Agricult comparative yields of and peas both separa the production of gre tory results have be tures as compared w

502 (2) Issued Each Week

Vol. XXX.

### FOR WEEK ENDING MAY 18, 1911.

RURAL HOME

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### SUPPLEMENTARY FODDER CROPS—MERITS OF SEVERAL DISCUSSED Prof. C. A. Zavits, Ontario Agricultural College, Guelph, Ont.

### Crops to Supplement the Pasture are Necessary. Alfalfa a Splendid Supplementary Crop. Some Good Mixtures. Fodder Corn for Late Feeding.

THERE are but few farmers in Ontario who can afford to neglect the raising of fodder crops to supplement the pasture lands. While I claim strongly that our pasture lands should be greatly improved in this province, I also wish to emphasize emphatically the importance of supplementing those pastures with the best kinds of fodder crops. We frequently have bot, dry periods during the summer seasons that greatly reduce the amount of animal food produced from the pasture fields. If provision is not made, there is often a great loss in the flow of milk of the dairy herd, in the vigroux growth

of young stock, and in the satisfactory increase in the weights of the fattening animals. A wise farmer will make careful provision to supplement his pastures either by the growing of summer fodders or by furnishing a supply of silage which can be used when required in the summer season. There are a number of supplementary feeds that can be used to advantage, a few of which are as follows: (1) Alfalfa, (2) A mixture of oats and peas, (3) Millet, (4) Corn.

ALFALTA AS A GREEN FOODER GOOP The growth of alfalfa in Ontario has been increasing during the past few years. It can be used to excellent advantage for the production of hay, of green fodder, and of seed. As a green fodder crop to supplement the pasture lands, it is one of the very best. The growth is usually large and is continuous throughout the senson; its stooling properties are excellent; it will stand two, three, or four cuttings in one year; and it tur-

nishes a large amount of feed which is both palatable, and nutritions. As alfalfa is a perennial coeffit possess a great advantage in furnishing green folder for several years in succession withland, as so much of its valuable mineral matter is obtained from the subsoil, and of its nitrogen from the atmosphere. As a green folder, it is relished by practically all kinds of farm stock. The folder is so frich in fields forming constituents that its becomes particularly valuable as a feed and the summer when the pasture lands are comparativel light in productiveness.

### A MIXED CROP AS A GREEN FODDER

Numerous experiments have been conducted at the Ontario Agricultural College in testing the comparative yields of oats, barley, syring wheat, and poas both separately and in combination for the production of green fodder. Very satisfactory results have been obtained from the mixture as compared with the same grains grown separately. Of the different mixtures used, a combination of oats and peas has given the best satisfaction.

Of the different proportions of oats and peas that have been tested, it has been found that two bushels of oats and one bushel of peas has given a large yield of crop that is of excellent quality. It is important, however, to select those varieties roots unitable for the desired results. Such varieties as the Siberian or the Banner oats, and the Prussian Blue or the Golden Vine peas work nicely together. The oats are of good length of straw and are quite productive.



One Reason Why Dairying Should Be Profitable in Manitoba

Corn ensilage and alfalfa hay constitute the cheapest ration possible for getting results from dairy cows. Both of these crops can be grown in Manitoba. The illustration shows the corn binder at work at the Brandov Excerimental Farm. -Courtes O.A.C., Review,

> dues long slender vinas which are not so apt to lodge as some of the other varieties. All these preins are ready for cutting as green folder at rbut the same time. In the six experiments conducted in duplicate in each of six years, it was found that the mixture here referred to produced a crop, 96 per cent. of which was standing at the time it was ready to cut for green folder.

### PEAS AND OATS MAKE GOOD FEED

Not only is the mixture referred to abundant in growth, but it is of good feeding quality. The oats furnish a large amount of carbohydrates, or the heat and fat forming constituents, and the peas a large quantity of protein, or the flesh forming constituents:, hence a combination of these two crops forms a food ration in which the different constituents are very well Lalanced. This mixture can be sown at two or three times in the apring, allowing from 10 days to two weeks between each two seedings, and the season in which the crop is available is thereby considerably lengthened.

One great advantage in growing a crop of this bird is the fact that it can be used in so many different ways. If the weather conditions are favorable and the growth of pasture is abundant and the green folder is not required, the crop can be cub and cured as hay and fed in the winter season. If it is not required for either the production of green folder or of hay, it can be allowed to ripen and can then be threshed in the winter, and the gravit of the oats and the peas can be ground together and used in the form of meal.

In some sections, Common Spring vetches have been used in the place of the peas. In the experiments at Guelph we have obtained rather better results, however, from oats and peas than we have from oats and vetches. Those desiring to

use the vetches could sow either one bushel of the vetches or one-half bushel of peas and one-half bushel of vetches with the two bushels of oats per acre.

### MILLET AS A GREEN FODDER CROP

Millet does not, as a rule, thrive well when sown in the early spring and its growth is not as rapid as either that of alfalfa or of the mixture of oats and peas. As a green fodder erop, I consider millet of minor importance. Of the various varieties grown at Gnelph, the greatest yield per acre of green fodder has been obtained from the Japanese Panicle variety. The plants are tall and upright in their growth, produce an abundance of leaves, and furnish a large yield per acre.

As a supplementary green fodder crop, corn is sometimes used to good advantage in the latter part of the season. Owing to the late time of planting corn, however, and to its slow growth during the earlier parts of its existence it is usually not a very valuable crop to supplement the pasture lands. In Ontario, it is frequently in the months of June or July that the hot, dry weather occurs and that the pasture lands become deficient in growth. Occasionally however, a drouth occurs in the latter part of the season, especially in August or the beginning of September, and it is well to have a good supply of fodder corn which could be out for feeding the stock, if required at that season of the year. As in the case of all of the other crops here referred to, if it is not required to supplement the pasture, it can be devoted to

I would not want to separate milk when it had reached a temperature under 90 degrees. The best results are obtained at 97, although 94 degrees and 95 degrees will give satisfactory results. --Geo. H. Barr, Chief, Dairy Division, Ottawa, Ont.

other purposes to excellent advantage.

### Alfalfa in Quebec Province

G. P. England, Missisquoi Co., Que. The popularizing of sl.sifa through the articles in Farm and Dairy will result in great profit to the Canadian farmer. This forage plant offers the best means of redeeming the abandoned farms in the New England States, and it will put on a paying basis many farms in the Eastern Townships of Quebec that are not at present paying three per cent. on the invest-

ment. I have been experimenting with alfalfa for the past nine years. The first plot that I seeded was seeded with a nurse crop. It was an absolute failure. I know several farmers in this section that have tried growing it without success. (I give you this information in reply to Mr. Marsh's query in Farm and Dairy, April 13th). I have had more alfalfa killed during the second winter than any other time. Is this the experience of anyone else?

### WHEN INOCULATION IS UNNECESSARY

I have usually inoculated the greater part of my alfalfa with soil and have used the culture also. I am convinced, however, that if field well manured the previous year with a hoed erop will failure in mixing alfalfa with other seeds.

Much can be done with alfalfa in the careful selection of the seed. I have had best success with Grimm alfalfa. I have a plot seeded in 1909. On a part of it, a side hill, I used the Grimm seed. The stand is much better than the rest. This has invariably been my experience. Three years ago I gave my order early in January for seeds to one of the best seed houses in Canada. I ordered alfalfa seed among the rest, stating that I intended to use the alfalfa seed alongside of some supplied me by the Bureau of Plant Industry of the United States, and that I wished the Lest seed possible. Mr Clark, the seed commissioner, reported on this seed as follows: "This sample is Turkestan alfalfa, easily recognized by its dull appearance Its sale is not prohibited, but it can not be sold as No. 1." I sowed just double of this Turkestan alfalfa to the acre that I did of that supplied by the U. S. Bureau, and this spring I have over twice as many plants to the square foot of the Grimm and Sand Lucerne, furnished by them, as I have from the seed purchased from the Canadian house.

Given a well drained field of corn stubble that has been well manured on the sod and fairly free



Striking Proof of the Benefits of Nitro-Bacteria Inoculation on Alfalfa Seed

This illustration shows the result of experiments conducted in triplicate at the Illinois experiment etation with alfalfa seed sowed without and with alfalfa bacteria. All the pots at the outset were filled with his sense kind of soil, were keyt on the same table in the greenhouse, watered at the same times with exactly alfalfa bacteria whilster; and in every way freated exactly alike, except that three were incoulated with alfalfa bacteria while in order the were not. On another page we reproduce a photograph showing the nodules on alfalfa roots in order the were plant part and Datry readers may know and recognize these nodules when they look for them on alfalfa roots.

be sufficiently inoculated of itself. The system here in vogue of growing hoed crops with little or no manure but using a commercial fertilizer as a stimulant and using the green manure as a dressing with the grain crop when seeding down, is the greatest deterrent to getting a catch of alfalfa. Mr. Grisdale has been advising each year that farmers in this section use their manure on the hoed crops and to seed down the following year without manuring. What surprises me is that this advice is not usually followed. The only other crop for mixed farming that can compare with alfalfa is corn Dairying will only Lecome truly profitable in this hilly countryideal corn land-when manuro instead of a commercial fertilizer is used to grow corn. The year following corn I seed down to alfalfa as our new agricultural director has been pounding into the farmers for the past decade. If a nurse crop be used three pecks of barley is sufficient. If the ground is suitable for alfalfa we will get just as much grain from three pecks of good seed barley as if we used two or three times that amount.

Alfalfa is a very tender plant for the first year or two and the field should ue fairly free from weeds or it will be choked out. For this reason I am surprised that Mr. Marsh advises sowing red clover and timothy with the alfalfa. If we get a catch of alfalfa we have a better forage than the red clover or timothy. The only reason for sowing them together is that a failure of the alfalfa is expected. We surely are bidding for from weeds and a first quality of alfalfa seed of a hardy strain (Grimm, Canadian, Montana, or Sand Lucerce), and anyone can grow alfalfa even without inoculation. I do not however, wish to depreciate the value of inoculation, as it is well worth the trouble and expense.

A farmer asked my opinion this spring as to the suitability of a hill for growing alfalfa upon which roots had been grown last year. The land was fortile and well drained naturally, but I noticed still the residue of a rank growth of weeds where the rows of eorn had been, and consequently I could not guarantee a catch of alfalfa. I advise experiments on small fleiv: until one learns the idiosyncrasies of the plant and land. I have known farmers to keep at alfalfa growing for eight years before gotting a really good catch. Even these failures are valuable experience, as the farmer is learning all the time and has acelimatized a valuable forage plant.

I should like to find where in Canada one can be sure of purchasing alfalfa seed of a hardy strain and good quality. Possibly you or some of your correspondents can supply this information.

I am thoroughly convinced that alfalfa can be grown in this part of Canada if one is systematic and persevering, and dairy farming in these Eastern Townships of Quebec will be much more profitable when our rolling land and well drained hills are green with corn and alfalfa.

### Sore Shoulders How to Treat Them N. C. Campbell, Brant Co., Ont.

Where reasonable precautions have been execised there will be no sore shoulders or sore necks on horses necessitating treatment or requiring that the horses be given rest from their usual work. So many people, however, do not seem to know how to fit a collar and the hama to a horse; so many horses are allowed to become thin in condition, while the harness remains the same as before; and on account of accidents and working horses not previously conditioned for spring work, there are a great number of horses at this season of the year that must work at a decided disadvantage through having sores, while cause them disconfort and pain far and beyond what their drivers realize.

A good horseman in sympathy with his animals and who grooms and cares for them Jupperly will rarrely have sore shoulders on his holds. He will have a collar and the hames adjusted is a nicety on each hore. Some of the best borsemen of my acquaintance, and I follow this practice myself, remove the collars at noon in buweather when the horses are working hard. It is well to butbe the shoulders at noon and each evening with water to which salt has been add ed. Then should sores threaten to appear sweatpads may be used, these being hollowed out to relieve the pressure over the injured spots and give them a chance to heal.

After sores have appeared some treatment is required. There are many ointments of various kinds on the market, some of which give excellent cures. Most every farmer has his own favorite remedy for sores on horses and on that account I hesitate to prescribe a recipe as being better than others. However, I find that the following is very effective and it is cheap and may be obtained at any drug store. Get 1/4 ounce of zinc sulphate and 1/2 ounce lead of acetate (sugar of lead). Dissolve these in one pint of soft water. Apply this solution to sores with a swab attached to the end of a stick. This solution and swab can conveniently be kept in an ordinary quart jam jar.

### **Jottings from Farmere**

If all farmers could be induced to grow alfalfa it would mean millions of dollars to us not caly in added returns but in labor saved.—Ansen Grob, Waterloo Co., Ont.

When seed is the object, alsike should be sown on clean ground and at the rate of six pounds an acre. Clay soil is best for alsike seed if it contains lime encugh. The honey bee is useful for fertilization purposes. Alsike should be cut on the green side to prevent excessive shelling. -T. G. Raynor, B.S.A., Seed Branch, Ottawa. It was specially difficult to procure good seed corn last season as there were early frosts in the corn producing districts and the fall weather was generally unfavorable for maturing This applied to the states as well as to Ontario if anything, to an even greater extent. So"that if the results last year were not everything that might be desired from Ontario grown corn, it is almost certain that they would have been no better and perhaps considerably worse if imported corn had been used .- E. D. Eddy, Ottawa

I treat all seed potatoes for scab with formain. Lower the cut potatoes into a solution of formalin, one to 30, and let them stay there while you are sutting another let to take their place...J. W. Clark, Brant Co., Ont.

Alfalfa hay is great for horses, and the idle cnes will fatten upon it. For working horses, one cannot feed enough of it to keep them up, and must feed some grain along with the aifalfa if they are to be kept in condition. There is nothing like alfalfa for colts and calves.-Cecil Schulyer, Brant Co., Ont.

### May 18, 1911

### The Silo fe

C. F. Whiter, i My idea of soilin short pasturage is i work can be done and putting it int following year. If vision in this way August, and let the before turning the or the pasture from o serve part of my e if I had to feed i Cattle will do fairly but they will not te It should not be

It should not be the cows of ensila, raise plenty for bo alout raising corn, the ground in pro the cultivation it si 10 we get a good cr one-third more cattl them better than w

### Experience

Edward St Before tile drains a threshing machine had started tile dra the crops on tiled fu ity and gave larger When I saw the go getting from their than I put on mintiling also an let ti

I horrowed \$1,000 draw the tile and g in ny outlet that fa field and as soon a cora. The next fa also. By the time working it, it was 1 Lors not being able ever, as it was to belp me and pla That was on Thuras to help me neighbon ground was still qui corn, however, and 1 lidel fields with the

### RESU

In the fall I hired so I knew how much From field No. 1 we No. 2 yielded 75 bus offered 80e a bushel neighbors secured fr bus. an acre, and c corn. The year 190 corn, and untiled lan time. If the reade gel labour saved, and the quantity of corn he

of the value of tiling

The land in this see with black ash and elland costs us about it tile cost \$10 a thoo rods apart and two f rod for digging and la \$2 a day for laying have since advanced or tile in comparison

CARE I It is very importan put in. To insure th left uncovered until Every day I look at struction and if I not a stone from the botto tile to see if they ar

### The Silo for Summer Feeding

C. F. Whitely, in Charge of Records, Ottawa My idea of soiling cows during the months of short pasturage is the silo. There is no way the work can be done as profitably as raising corn and putting it into a silo for summer feed the following year. If dairymen would make provision in this way for feed through July and August, and let the after grass get a good start before turning the cattle on, we would get double the pasture from our after grass. I would reserve part of my enailage for the summer, even if I had to feed more hay during the winter. Cattle will do fairly well on dry feed in winter, but they will not east it in the summer.

It should not be necessary, however, to stint the cows of enailage through the winter. We raise plenty for both seasons. There is no risk about raising corn. If we have good seed, and the ground in proper shape and give the crop the cultivation is should have, nine times out of 10 we get a good crop. In this way we can keep one-third more cattle on the same land, and keep them better than we could without the silo.

### Experience in Tile Draining Edward Sykes, Kent Co. (nt

Before tile drains were laid in my district I ran a threshing machine for 15 years. When farmers had started tile draining, however, I noticed that the crops on tiled fields were of much better quaity and gave larger yields than on fields not tiled. When I saw the good results my neighbors were getting from their tiled land with loss labour than I put on mine I decided in 1902 to begm tiling also an let threshing go.

I borrowed \$1,000 and started three teams to draw the tile and got them home in time to put in my outlet that fall. In 1903 I tiled a 12 acre field and as soon as we had finished I planted corn. The next field to this one was 12 acres By the time we had finished tiling and also. working it, it was late to plant corn. My neigh-Lors not being able to get on their ground, however, as it was too wet, came over the next day to help me and planted the 12 acres with corn. That was on Thursday. When I sent my teams to help my neighbors on the next Monday their ground was still quite wet. They planted their corn, however, and I will compare my yields from tiled fields with their untiled ones.

### RESULTS OF TILING

In the fall I hired my corn husked by the bushel s) I knew how much it turned out in the fields. From field No. 1 we harrested 110 bus. per acre; No. 2 yielded 75 buss, ail good hard corn. I was offered 30e a bushel for seed of this corn. My neighbors secured from their fields only 55 to 00 bus. an acre, and quite a lot of that was soft corn. The year 1003 was a very poor year for corn, and untiled land was very wet at planting time. If the reader threefore, will figure the 2 labour saved, and the increased quality and quantity of corn he will be able to form an idea of the value of tiling to us.

The land in this section is clay chiefly timbered with black ash and elm and lies very flat. Tilling land costs us about \$2, an acre. The three inch tile cost \$10 a thousand. They are laid three reds apart and two feet deep. It costs us 20c a red for digging and laying them. The outlet costs \$2 a day for laying them. The three inch tile have since advanced to \$112 a thousand and larger tile in comparison.

### CARE IN LAYING TILE

It is very important that the tiles are properly put in. To insure that they are I have all drains left uncovered until I thoroughly inspect them. Every day I look at all drains in process of construction and if I notice that the digger has taken a stone from the bottom of the trench I step on the ille to see if they are solid for the dirt must be packed thoroughly in the hollow or the tile will sink out of place.

I have 175 acres of tiled land and should judge from experience that we can get on our land from six to 10 days sconer than our neighbors on untiled land. We get more and better crops with a great deal less work.

### Plenty of Time Yet to Sow Alfalfa Geo. Marsh, Peterboro Co., Ont.

Although personally I prefer sowing alfalfa in the spring with a grain crop, as being more economical, I have seen a large number of successful fields of alfalfa that had been sown in June with-

out a nurse crop. These gave a good cutting of hay about the first of September. Because of



### Alfalfa Roots Showing Nodules

Nitrogen.acoumulating bacteria are nerseary to the well-being and successful growth of alfalfa. Make cortain that your alfalfa plants have these notates If they are lacking provide the task form these notates in the manner as has been explained on several occasions of late in Farm and Dairy.

these later splendid crops that I have seen I confess that I am sometimes in doubt as to which is the best time to sow alfalfa.

If any of the Farm and Dairy readers have not sown alfalfa this spring there is still lots of time to sow it and those who have sown alfalfa this spring may yet sow a few acres more.

One may to advantage plow up a few acres of an old pasture field or a part of a hay field which has suffered from the frosts of last winter. Such a field plowed and rolled down firmly and cultivated thoroughly and harrow-d every week until the end of May or beginning of June to kill all the weeds will be in good shape for alfalfa. Have the soil rolled firmly then sow 20 lis. of good seed to the acre harrowing it in with a light harrow. Either treat the seed with nitro-culture from Guolph or what I like better, apply 200 lis. per acre of soil from an old successful alfalfa field and should the season be favorable you should cut a good orop of alfalfa about the end of August or early September.

Rural free mail delivery costs money, but our Government should supply the service even if it does cost money. I would willingly pay \$4 or \$5 a year to have my mail delivered at my farm gate.-Alfred Smith, Brant Co., Ont.

# (5)

### The Net Profit per Cow

C. F. Whitely, In charge of Records, Ottawa What is profit, and how can dairy profits be increased? Profit is the excess of receipts over expenditure; true prcfit in dairying is the value of those cow products, milk, calf and manure, which are produced over and above what is necessary to satisfy legitimate charges against the cows. There is often considerable discussion as to what should constitute such charges. For example, dairying presupposes a certain sum, often a very large sum, of money invested in land, Luildings, implements, and cows. That investment is worth interest, which is a charge against receipts; but for simplicity, profit is generally reckoned as the excess of cash received for milk over the estimated cost of feed, produced or purchased.

One point needs to be clearly understood; the total cash received for milk is very different indeed from the profit made. A business may be very extensive and the daily cash receipts very large, but unless profit is made bankruptcy is certain. The expense side of the account must be considered; as regards dairying particularly

the lower the expense the greater the profit. The price received for the product is fairly steady, no general or local shortage forces up milk prices materially, neither do bargain sales compel the producer to accept any absurd figure. Poor cows court RUTM

To keep poor ccws is to court ruin. A poor cow is a heavy expense and can make no profit; a good cow, though she may cost more originally, costs cnly a trifle more for her feed; consequently the profit she earns is vastly superior. Net profit is increased in rapid ratio as the heavy dead wood of the herd is lopped off; cows that consume a greater value of feed than the value of the milk they produce are a double drag and burden, they incur a loss individually and lower the average net profit of the whole herd. Frequently such losing propositions are believed to be fairly good. The only way to detect them is to weigh and test each individual. Conversion of such calamities into blessings, of loss into profit, is comparatively simple when once cow testing is commenced. Large profit with good cows is a higher return than savings bank interest where the Lank is just borrowing farmers' good money at three per cent. and loaning it out at seven per cent. Some dairymen make 20 per cent. on their investment. If we concede that there is of recent years an increase in the price of grain, of hired help, of living expenses, if we cannot escape an occasional drought and shortage of feed, then how emphatic the necessity of keeping only such cows as do return a large profit! Cow testing provides a simple, effective and cheap method of determining which to keep, which to beef.

### REAL DAIRY BUSINESS

A farmer's future income depends on selecting his best cows. The vital point is to ascertain the difference in yield, and whether Bess or Spot returns §5 or §30 net profit, whether for every dollar's worth of feed consumed she gives a return of 90 cents or §2.50, whether the milk costs 60 cents per 100 pounds, or §1.40. That is the essence of real dairy business.

Study of each cow will lower expenses through the use of scales and test in eliminating the pcor cow, and thus increasing the net profit. What we need is to get at it, and to keep at it. The streets of by and by lead to nowhere. Procrastination in cow testing retards general progress and development. Farmers who have achieved success in increasing the yield of milk and fat per cow, all invariably date the commencement of the improveto the time they began weighing and sampling This is no chance occurrence; cow testing is necessary—it is foundation work.



Distance Apart to Seed Corn

keri	e between aels in ow s	acre	of		0E
**		76		*******.0,2	
	******* **	77		····	610
14			*******	·····	39
**			******		93
44	********	89.	******		80
as pr	ill be not anted th ll, the la	ree in	hat w	hen cor	n
stible	aubeton.	ri Best	amoui	b to an	1-
- th	substanc	e was	obtai	ned. Th	e
isilage	is "stro	nger,"	howe	ver, an	d

For husking, seed corn, to produce the largest number of good ears, should be dropped 12 inches apart in the dail

Planting in hills three to three and Planting in hills three to three such a half feet apart each way has an advantage in that by cultivating both ways, little hand work is needed in the weedlest ground. Experiments ways, little hand work is needed in the weediest ground. Experiments carried on by Professor Zavitz at the O.A.C. would indicate also that lar ger ecops are obtained from corn so planted.—Professor Zavitz obtaining 33 per cent. more of both ears and total weight for ensilage.

I have a field of sandy loam with a I have a field of sandy loam with a the table of the sandy loam with a the table of the sand being about the table of tab

Co. Ont. A field such as you describe should be well shited to alfalfa. If man-ured and plowed this spring, well worked and 20 lbs. of good seel used per sere with incoulation, a good crop should be assured. Barley is preferable to other grains for a nurse preferable to other grains for a nurse crop in that it does not stool greatly and can be taken off early. All al falfa seed should be inoculated be fore sowing. A bottle sufficient to in-oculate one bushel of seed, with directions for using the same, can be obtained from the Ontaric Agricul-

of grass, western rye grass is prob-ably the most likely to succeed. Tim-othy will do well on irrigated land in your district, but if land can be irrigated alfalfa is certainly the best crop to grow. I would suggest in-tendmains irrigated alfalfa is certainly the best crop to grow. I would suggest in troducing a rotation similar to the alfalfa following on non-irrigated land: First wear, fall wheat; second year, fall wheat; third year, fallow; fourth wear, seed down to grass, -15 hs. weas. Ten ryo grass, 6 ths. alfalfa, 2 ths. better, red clover per acre. Sow the grass odd with the seed wear red clover per acre. Sow the first human. Wears.

### May 18, 19:1

year. Fifth year, hay; sixth hay; seventh and eighth year,ture. Break up the soil for fall w in June or July, to be sown the season. Very little is known a season. Very little is known as to best rotations to be followed in South ern Alberta. Experiments are built conducted at Lethbridge, but inform-ation available is as yet very linter but Ayrshires are good dairy eattle but not such heavy milkers as are bud-steins. The Ayrshire grant data a better carcase of beef than ground a boltstein and on foor purallocation a better carcase of beef than does the Holstein and, on foot, usually sells at a somewhat higher price to the butch-er than will the latter, although the meat from either the Holstein or Ayr shire is quite as good as from any other animal of the bovine species,

when properly fatted. J.H.G.

### Sugar Beet Queries

Sugar beets will not do very wel on sandy soil. The best kind of roots to grow on sandy soil or light soil turnips. Sugar beets can, however be grown on light soil provided the season be fairly favorable and the roots be handled in the proper way. roots be handled in the piper way. Well rotted and rev piper way. Well rotted and rev handled by the second ure should be used. It should be the land well rolled and the seed way on the flat. Seed should be sown as the rate of about 10 lbs, an arce. Danish sugar Leets, and Kleinewant Lebner are the varieties likely to give the bast satisfaction for forage. If the seed is allowed to stand in water for about 12 hours it will ge-minate with considerable more cer-tainty. After taking out of the way

minate with considerable more cer-tainty. After taking out of the wa-ter if should be spread thinly on a table or floor to allow of partial dry-ing out, when it may be sown from one of the regular machines. Sode abould be sown in rows absort 28 inches apart and the land well rulid after sowing as well as before. -J.H.G.

### His Alfalfa Killed Out

Last year I out a field of alfalfa which gave me good returns. I out it three times, the third cutting on September 7th. I got about four tons to the acre in the three cuttings. I did not pasture the allow anything to go on it. This in the three cutsings, i did not pasture it or allow anything to go on it. This spring I find it killed out by the frost. The field is a heavy clay loam. What would you advise to be done with it? I feel annoved at it being killed out, as I have about its acres sowed.—J. G., Peter-hore Ge. Out. ro Co., Ont.

The answer to this question was given in Farm and Dairy last week, but we will repeat. You do not say given in Farm and Dairy last week, but we will repeat. You do not say if the roots of the alfalfa are thor-oughly inoculated. The usual cause of winter-killing is lack of inoculation, but about once in six or eight years we get a season like last winter which has been particularly disastrough-to some old fields that are thoroughly inoculated

The only thing to do in such cases The only thing to do in such cases is the same as when fall wheat or rod clover is killed out—sow it over again. If the alfalfa is ontirely kill-d out the only thing to do is to pluy the field and seed over again, which is rather poor comfort with seed at Size - trubel

is rather poor comfort with seed at \$15 a bushel. If, as is likely the case, there is quite a sprinkling of living plants. I would cut it up thoroughly with a springtooth cultivator and sow more springtooth cultivator and sow meet alfalfa seed. Examine the roots at the living plants, and if no nodules are found on them, either treat the seed with culture obtained from the O. A. C., Guelph, or, what I like better, sow 200 lbs, of soil from in old successful alfalfa field to the acce and harrow it in well.—Geo. F. Weather

### May 18, 1911

### Questions

How is soil prepared ive directions for so sees Co., Ont. Land to be sown t lowed and thorough plowed and thorougi little time before so this crop. Any op-ness in the seed bed disastrously. If it i for use before the e-laid should be plowe soon as possible, ther before seeding to rap. It may be sown or in drills from 20 in south. If sown horo apart. If sown bro require from six to e per acre; sowing in a to four lbs. would l far as crop results an methods are almost tory .--- J.H.G.

### Alfalfa on S

I have seven acres of sod this spring. Would alfalfa? What time sl A. L.

On your field the would be to work the



### AB

One of the first farm betition being conducted petition standing in the compe

to the first of June then sow alfalfa withou using 20 lbs. of good s inoculated with nitro-ed from the O. A. C Ont.

### **Re Benefits** of

Is it considered advisa when sown one bushel acre, seeded with 20 lbs would it injure the yo Lincoln Co. is a debateable It

just when and how mube rolled. It depen reed to be entirely far fore a definite and s

swer can be given. Our editors have new use of the roller on loa in the ordinary cours On lighter land the rol in compacting the soil firm.

In so far as your falfa field, seeded this cerned, the roller wou likely to do it any ha blem is would it do it your time would be there are stones or co flattened out of the way On your heavy soil at is likely that you wou your time in using th there was a heavy crus in which case it might tage to roll. There

### Questions on Rape

Questions on Rape The issue of the organical for rape flows between the second of the second of the second between the theorem of the second of the second between the theorem of the second of the second of the between the before seeding down to this crop. Any openness or loose-ness in the seed bed is sure to result disationally. If it is desired to any for the before the end of July the the second be plowed and worked as as possible, then the to rank the defore seeding to rape. It is may be soon either broadcast or in drills from 20 inches to 28 inches apart. If soon broadcast is would repute from 20 inches to 28 inches apart. If soon broadcast is would repute from the would be at from these for a scrop results are contended.

are almost equally satisfactory .- J.H.G.

probability result some injury to the young alfalfa plants that have sprout-ed and are showing above the sur-face. This may be determined ex-perimentally as you try a strip with the roller. the roller.

### A New Way of Inoculating

I tried spraying a second year's crop of alfalfa with nitro-culture, obtained from Prof. Bottomley of London. I used from rot notcomer of London 1 used on a quarter of an acre what was recommended for one acre so as to be sure of results. I have seen no difference between the portion sprayed and that not so treated. Why is this -C. F. B., Tenebonne Co., Que.

Our correspondent does not state whether or not the nodules were pre-sent on the alfalfa roots. If they were he could not expect to see an imovement

Personally, for alfalfa inoculation, Alfalfa on Sod Land I have seven acres of land ployed from sof this spring. Would it be suitable for afalla? What time should 1 sow itt-A, L. On your field the best practice would be to work the land thoroughly

### A Barn of a Desirable and Popular Type

One of the first farms to be entered in the interprovincial Prise Farms Com-petition being conducted by Farm and Dairy this year was that of Chas. Wat-son, Aginoury, Ont. whose barn is here shown. This farm should take a good standing in the competition.--Photo by an editor of Farm and Dairy.

to the first of June or even later, then sow alfalfa without a nurse crop, saing 20 lbs. of good seed to the acre inoculated with nitro-culture obtain-inoculated with nitro-culture obtain-de from the O. A. College, Guelph, Ont.

### **Re Benefits of Rolling**

Ke Denerits of Kolling Is it conditered advisable to roll land when sown one bushel of barley to the arrs seeded with 20 hs, of alfarla, or would it injure the young alfalfar-G. W., Lucoln Ce. It is a debateable question as to just when and how much land should be volled. It depends much upon 'ary.sg conditions, which one would need to be entirely familiar with be-fore a definite and satisfactory anfore a definite and satisfactory answer can be given.

Our editors have never favored the use of the roller on loam or and in the ordinary course On lighter land the roller in compacting the soil and firm

In so far as your barley and fails field, seeded this spring, seem fails would be assumed to be the set of the series of the binds of the see set of the series of the binds in the bogs, all he needs to, in order to above his mainliness, and the bogs only snort income would be wasting in disgust and lefs it go as that. We have seen many a hog turn up its nose and even wiggle its snout viol-notify when a man or boy began ranning your time in using the roller unless the have seen the bid heavy can be there was a heavy crust on the field, in which case it might be an advantage to roll. There would in all

Cows Require to be Respected

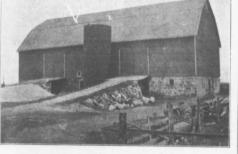
A dairy cow is a lady. Sho is re-fined, essailive almost to a degree of delicacy. She is gentle, a gentle-woman in all of her taske and nicci-ties. She cheves the cud of reflection with a poise and innate dignity, at-tributable to her consciousness of her unquestionable position as a lady, born from a long line of ancestors who belonged to the same rank in society, which she graces. And so a good dairy cow is to be recognized in polite circles as leding an altogether superior personage. No, mere man who fails to accord her the respect due her ladyabin has any right A dairy cow is a lady. She is re-

respect due her ladyship has any right to enter her boudoir or sit at her feet upon a three-legged or one-legged

# FARM AND DAIRY

Is





508

(8)



160 ACRES of LAND FOR THE SETTLER

Large areas of rich agricultural lands, convenient to railways, are now available for settlement in Northern Ontario.

The soil is rich and productive and covered with valuable timber. For full information regarding homestead regulations, and special colonization rates to settlers, write

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### PARAFFINE WAX

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Branch Office :- North Battleford, Sask. During 1910 we sold over 133,400 acres; during the past four years we have sold over 400,000.

### FARM AND DAIRY

# Reserves severes that traffic should be hindered as lit-BURITULI Com

The farmers of Peterbero Co., Ont., as well as elsewhere, are tak-ing a new interest in their orchards this year. This interest is typifed in the case of Mr. John Elliott, a local farmer some miles out from Peterboro. He has but Go trees, Re-cently while in the office of Farm and Dairy he told our adires that he hed Dairy he told our editors that he had pruned them thoroughly and will spray them this season with the ccm-mercial lime-sulphur.

mercial lime-sulphur. Speaking of spraying Mr. Elliott said: "We have simply got to spray or the fruit will be no good. It will be small, scabby and wormy. I have be small, scabby and wormy. I have never sprayed before; but this year I have purchased a new sprayer to do the work. I have concluded that we must spray if we want to get any-thing out of our crehards."

### Free Entry of Fruit to U.S. Markets

Elmer Lick, Ontario Co., Ont.

Discussion along the lines of tariffs and reciprocity with the United States naturally gives rise to the question, "What would free entry to the United States market mean Ontario apple growers?" Ontario has as good men, able to care for apple trees and with experience in marketing as any part of America. We have the soil and climate suited for have the soil and chimate suited tor, the production of high class apples of the very best quality. We have Fameuse, McIntosh Red, Graven-stein, Spy, and other high class apple that cannot be excelled in any of the world. of the world.

Now with the men, the soil and we be closed or almost closed out of the large United States markets? Bethe large United States markets? Be-fore the heavy duties were placed on apples entering the United States a large share of our apples was ship-ped there. In spite of the 75 cent duty even now some are shipped every year. It would appear that with that duty of that we would find oursolves close to one of the best mar-kets for the varieties already named, and also for Belleflower and Talman Sweet. To-day we can place apples on most of the Old Country markets and is Winner and the second

on most of the Old Country markets and in Winnipeg as cheaply or cheap-er than in Buffalo. If there was a high range of moun-tains between Oshawa and Buffalo, every pressure would be brought to bear on the Government to have the mountains of the second mountain range tunnelled through the as possible. But we have a tariff wall that is equally obstructive of trade. I can remember when the duttrade. I can remember when the dut-ies came on apples that we had sold to a United States buyer. He can-celled the bargain. We sold to England

We want the widest market pos-



**Before** Pruning

berget right has tend to grow arge, upright heads, difficult to apray and harvest a crop, should be wererely beaded back and made to conform to the shape desired. All varieties require some pruning to shape the head properly.

sible. It would appear that the en-largement of the market would en-courage producers, and especially simulate careless growers to im-prove their varieties and thus event-ually lead to further development of apple growing in this country.

### Experience in Spraying

Hamilton Flemming, Lincoln Co., Ont.

I have always used the home-made I have always used the home-made lime and sulphur mixture in almost equal proportions, and applied while warm. My spraying outfit consists of an ordinary 40 gallon barrel with hand pump, hose rod and a double need. nozzl

In an orchard of 1,100 peach trees, I applied 24 barrels of spray at a cest of 90 cents a barrel. The trees were sprayed very thoroughly. The direction of the wind was carefully watched. The lime in the mixture made it possible to see where bran-ches had been missed, and so made a final targing market of the mixture

ches had been missed, and so made a final touching up an easy task. I had very little curl-leaf, except on fifty "Trimmph" trees, which, however, yielded an average of nine II-quart baskets a tree. No thinning was necessary. From 800 srees in bearing. I marketed 7,200 quart bas-kets, chiefly "selects" or No. 1. My trees appear clean and in a healthy condition.

### Horticultural Notes

R. E. Reeves of Guelph, and W. E. Smith of Chatham, Ont., will as-sist Mr. A. D. Campbell, district representative in Dundas Co., Ont.,

representative in Dundas Co., Unt., in his orchard demonstration work. Mr. R. S. Duncan, district repre-sentative in Northumberland and Durham counties, has gone into or-chard demonstration work this sea-

coard demonstration work this sea-son on a large scale. Mr. H. S. Fry, of Vineland, Ont., will assist Mr. Duncan in this work. Thirty thousand apple trees are now under lease to the English Syn-dicate operating in Prince Edward Co. Ont. Co., Ont.

### May 18, 1911

### Many Orchards Leased

Many Orchards Leased Some idea of the extent of the operations of the communication and part of Quelee may be guided and part of Quelee may be guided 140,000 trees, representing along 4,600 acress of orchard under have Upwards of 1,000 acress of additional lind ia being purchased outright. Most of the orchards have been icas-ed for periods of 10 years. The ed for periods of 10 years. The majority of them are located in the counties of Prince Edward, Grey and

Industry of the second seco four men, each in charge of a for-man. These parties report both to Mr. Anderson and to the head office in Toronto. They have charge of the in Toronto. They have charge of the pruning and spraying operations in the orenards as well as cf all of the work required to maintain the orchards in a good thrifty condition.

### "Three Pound Pickers"

"Infee Found Fickers" In Farm and Dairy's merics reports I notice the expression "these foots is used for a class of beam that in determining the price of a bushel of which allowance is made for three pounds of deteriorated atock. "Three pound of deteriorated atock." Three pound of the lowest grade of leans in the market and are in contrast to the hand-picked variety, which are of the highest grade and price.



### After Pruning

This may seem to the inexperience be severe pruning for the young Many orchardists would take off more than this. Both photos by a tor of Farm and Dairy in an orcha H. R. Nixon's farm, Brant Co., Ont

Manure the Orchard .-- To main tain the fertility of the soil we draw manure from town in the winter, spreading about 10 tons to the acre spreading about 10 tons to the area We get over the orchard every three years. In this way we do not ob-the rest of the farm to keep up the orchard. We have no scruples about putting town manure in the orchard, as the orther aultivation gets rid of as the extra cultivation gets rid of any foul weeds that may come for seeds in the manure.—John Wat.cn, Ontario Co., Ont. May 18, 1911

### \*\*\*\*\*\*\*\*\*\*\*\*\*\* POULTRY

Now For Fre

Canadian eggs direct ducer in the winter m tically all of first qua summer that fresh egg that commission continually troubled w ignments of inferior those of us who take are subjected to engs oss unless some special keting is adopted P

estimate that taking ye out, 17 per cent. of t ed on consignment are fit for use and have to I We poultry keepers selve to take special collect eggs daily and r least twice a week du weather of summer. H weather of summer. eggs are collected reg marketed in the u are marketed in the u is to the village merch to the wholesaler and f saler to the cold storag on through the hands middlemen before they sumer, the chances are percentage of them wil they are finally sold. get returns for extra market the eggs so t reach the consumer as

It is not possible for farmers to market egg advantage, but several ther on the cooperative ket eggs regularly in w titles to the big deale ger centres. In son

ger centres. In son local creamery man ta the marketing of eggs turns to his patrons. That 17 per cent. of we egg producers pay) sary. The way to get through cooperation an it the marketing of our in the marketing of our

### Care of the Brood

C. E. Brown, University The rules for feeding hatched chicks are the for feeding hea-hatched course the little fellow mother to teach them a tract bad habits. Some found it a good plan older chicken with the start them off and it how quickly sthey will how to distinguish a fe They v is not a food. the litter and sand on preference to the food reason we sometimes u the floor fer a few days. or wheat chaff is good fe dust or anything that injurious to them if th it should neve. te used.

Was feed the young b five times a day for the weeks. After that if out on nice, clean grass a good range, three tin When quite sufficient. hours old we give the feed, which is usually being taken not to over-f is given than they will in 10 minutes. After a cracked grains may be f increasing the quantity t of cracked grain and two given. Water and grit them at all times.

We are having very from feeding the mash from the beginning, but able box or hopper is us ens will waste the food of

When the chickens are weeks old we give them and feed them from hopp

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### Now For Fresh Eggs

Canadian eggs direct from the producer in the winter months are pra-tically all of first quality. It is in summer that fresh eggs are at a premium, that commission merchants are continually troubled with large concontinuiny of uncertainty of the second seco keting is adopted. Froduce dealers estimate that taking year in and year out, 17 per cent. of the eggs receiv-ed on consignment are altogether un-fit for use and have to be thrown away We poultry keepers owe it to our-selven to take special precautions to collect eggs daily and market them at collect eggs daily and market them at least twice a week during the warm weather of summer. Even where the eggs are collected regularly if they are marketed in the usual way, that is to the village merchant, from him to the wholesaler and from the wholeto the wholesafer and from the whole-saler to the cold storage man and so on through the hands of four or five middlemen before they reach the consumer, the chances are that a large percentage of them will be bad when bereatage of them will be bad when they are finally sold. If we are to get returns for extra care we must market the eggs so that they will reach the consumer as soon as pos-

It is not possible for all individual farmers to market eggs to the best advantage, but several working togeadvantage, but several working toge-ther on the cooperative plan can mar-ket eggs regularly in wholesale quan-tities to the big dealers at our lar-ger centres. In some places the local creamery man takes charge of the marketing of eggs with good re-

the markening of eggs with good re-turns to his patrons. That 17 per cent. of loss (which we egg producers pay) is not neces-sary. The way to get around it is through cooperation among ourselves in the marketing of our produce

### Care of the Brooder Chicks

C. E. Brown, University of Minnesota The rules for feeding incubatorhatched chicks are the same as those for feeding hon-hatched chicks. Of course the little fellows without a mother to teach them are apt to contract bad habits. Sometimes we have found it a good plan to put in an older chicken with the young ones to start them off and it is surprising start them off how quickly they will learn from it how to distinguish a food from what is not a food. They will often eat the litter and sand on the floor in preference to the food and for this reason we sometimes use paper on the floor for a few days. Clover chaff or wheat chaff is good for litter. Saw dust or anything that would prove injurious to them if they should eat it should near the should eat it should neve. te used.

We feed the young brooder chicks five times a day for the first three weeks. After that if they can get out on nice, clean grass and are given a good range, three times a day is uits sufficient. When they do quite sufficient. When they are 48 quite sufficient. When they are so hours old we give them their first feed, which is usually a mash, care being taken not to over-feed. No more the sufficient to characteristic sectors and the sectors will east up clean is given than they will eat up two in 10 minutes. After a day or two cracked grains may be fed, gradually increasing the quantity till three feeds increasing the and two of mash are of cracked grain and two of mash are given. Water and grit are before them at all times.

We are having very good results from feeding the mash dry, right from the beginning, but unless a suft-able box or hopper is used the chick-ens will waste the food considerably. Enclosed find \$1.00 for my renewal aubsoription to Farm and Dairy for 1911. I am well pleased with Farm and Dairy, and think it is a great benefit to the farmer and dairymen in general.—R. Laycock, Hastings Co., Ont. When the chickens are eight to ten

weeks old we give them a free range and feed them from hoppers which are

and

into a pan just fast enough to pre-vent wasting. This plan is followed till the time comes for rounding up the chicks for winter.

Water Glass For Preserving

Now is the season when eggs are most plentiful on the farm and prices are at their lowest. Later in

prices are at their lowest. Later in the season the hens may not be laying

use of water glass. Eggs can be kept in water glass solution for a whole year and be almost as good for cook-ing purposes at the end of that time

as fresh eggs. Water glass, or sodium silicate, can be bought at drug stores for \$1 to \$1.25 a gallon. This is sufficient to make 10 gallons of preserving fluid that will suffice for 300 dozen eggs.

In selecting the eggs for storage clean eggs with strong shells that are not more than two or three days old should be selected.

The water with which the sodium silicate is mixed should be first boil-ed. A most thorough mixing of the

ed. A most thorough mixing of the water glass and the water is necessary. When the eggs are to be preserved in several receptacles the water glass and water should be mixed in each receptacle sparately. If mixed in one receptacles and then poured into the others there is a line billy of getting different percentacles of water should be in each receptacles.

of water glass in each receptacle. The mixture should be covered to prevent evaporation. A cool cellar is the best place in which to keep the

eggs. The preserving mixture can be made in any quantity, but the per-centage should be nine parts of water to one part of water glass.

Our Veterinary Adviser

HODSE CAN'T SWALLOW Old horse

The trouble is with the teeth. He

RECURRENT OPHTHALMIA .- Dog has RECURRENT OPHTRALMIA-Dog has recurrent trouble with his eyes. They become sore and itchy and discharge matter. At the same time his nose be-comes itchy, and he rubs it until raw. Then a seab forms. After a lime he gets all right, but the trouble recurs. It is not possible to rub anything on his nose.

These attacks cannot be prevented and it is possible that the dog will eventually go blind. When he is suf-

foring from an attack bathe the eyes frequently with hot water and put a

each eye twice daily, five grains at-ropine to one oz. distilled water. He must be controlled so as to allow a little oxide of zinc ointment to be rubbed on his nose three times daily.

drops of the following lotion into

not possil -A. McK.

t. He can swallow apples.—A. McK.

as fresh eggs.

ba

# FOULTRY YARD filled once a week. These hoppers have two compartments, one for the meal mixture and the other for the cracked grains. Some poultrymen ANENT RECIPROCITY meal mixture and the other for the cracked grains. Some poultrymen-even water their chicks once a week. They use a good-sized barrel, fill it with water and haul it to a shady place where it will keep cool. The barrel is fitted with a tap which is open enough to let the water drop into a nam just fast anough to nee Determined Fight by Grangers

Unexpected strength in opposition to the Canadian reciprocity bill has developed in Washington due to the developed in washington due to the determined battle being waged by the Grangers. The staff correspondent of the Globe in Washington reported last week that the Grangers are working in cooperation with the protected interests of the cities.

It is reported that the Grangers have undertaken a systematic cam-paign and have gone so far as to solicsubscriptions from manufacturers to carry on the propaganda against to carry on the propaganda against the bill. The farmer delegates are camping in the city with head quar-ters and rooms at the Williard, the care season the neas may not be laying enough eggs to supply the family; hence the advisalility of packing eggo-now. A satisfactory means of carry-ing eggs over from this season of large production to the months of scarcity later on will be found in the use of water class. Fore each where ters and rooms at the Williard, the most expensive hotel in the city-and that means something in Washington -and are bringing every pressure possible to bear on the Senate. A highly paid counsel from New York highly paid is advising them with the knowledge and experience of an expert, and ev-ery move they make is carefully ditod

The manner of this United States Grange campaign, while it is not of so much importance as its effect will be, is nevertheless interesting. It goes to show the effective way in which farmers are making themselves heard once they are thoroughly organized in one body such as the Grange.

### **Red and White Holsteins**

Holstein cow was bred to pure bred Holstein bull. She produced a calf mark. ed red and white. Can you tell me the cause? Both cow and bull are register-ed.—D. McD., Hastings Co., Ont.

Red and white Holsteins on rare occasions are produced by what are the purest of registered stock. It is said that red and white Holsteins are common in their home country and that a herd book is there kept for

The cause of your calf being mark-d red and white may be set down to having "harked" back to some of ed it having "harked" its ancestry, probably many genera-tions back, in which were red and tions back white markings.

### The Silo in Lambton

Editor, Farm and Dairy,-We have had a few wooden silos here in our district for the past 20 years. They have not been altogether satisfactory, as they soon decay and become very open and shaky. Some of them have en taken down and the staves turned end for end. Some of the newer ones have been blown down several times, although well braced. As lumber became higher in price

the total of the section of the continuation of the section of the some of our more progressive farmers began to turn their attention to cement, and a few solid cement silos were built. There is a lot of labor about building these, and some claim that the ensilage in them freezes badly.

About three years ago Mr. D. Brownlee began to make enquiries about cement block silos. He went look at some of these at a distance and the result of his investigations was that he built a cement block silo, the first one in our district. (Mr. Brownlee's silo is shown on the front Browniee's sito is shown on the front cover of Farm and Dairy this week.) Some of the advantages of the ce-ment block sito are that the blocks can be made in the early spring, or in slack times. There is no heavy iron form required to build it by and 500

ment block sho may be taken down and be rebuilt if need be. The en-silage keeps better since in the wall there is an air space which prevents freezing. The silo has a fine appear-ance and may be built higher at any time should one desire it. Mr. Brownlee is weil pleased with his in-vestment in this silo.-D. N. Ander-son, Lambton Co., Ont.



W. F. YOUNG, P.D.F., 123 TEMPLE ST., SPRINGFIELD MASS LYMANS Ltd., Montreal, Canadian Agents AUCTION SALE OF FIFTEEN



AT ORMSPY GRANGE STOCK FARM, ORMS, TOWN, ON the second day of the great spring show, 30th May, They are by Baron's Best Lad Derwent Pride of the Lothians Sil Geoffray & Silver Uup. This is a rare opportunity to buy the best at lowest prices. EACHRAN D. McEACHRAN

### FOR SALE AND WANT ADVERTISING TWO CENTS & WORD CASH WITH ORDER

URE BRED FOWLS GIVEN .AWAY Free in return for new yearly sub-scriptions to Farm and Dairy. A olub of pair and subsections will bring you of pair and subsections will bring you of pair and subsections will bring you write Orcentiation Manager, Farm and Dairy, Peterboro, Ont. PURE

BARRED ROCKS and Single Comb Whit Leghorns. Eggs 31.00 and 31.50 per 15 Incubator lots a specialty. J. J Latour, Brighton. Leghorns. Eggs Incubator lots Latour, Brighton.

BUFF ORPINGTONS, PURE BRED COCK-erels, Pullets and Eggs for sale. Prices reasonable.-James McGregor, Galedonia, Ont.

### P. E. ISLAND SEED OATS

P. E. ISLAND SEED CATS The best in the world Framers sowing our selected, separated seed cats will for sead to be catter yield than will pay to sead to be catter yield than will pay special Power Bruah Olipper Separator. Only the large, Diamo, Yiata grain, pay for one acre, offered whise, autificant for one acre, offered whise, and and sion, Agricultural Department, Obshibat town, Bensaltural Department, Obshibat town, and tor' Maritime Dominion Beed

JUS. READ & CO., Ltd., Summerside, P.E.I





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A. Brethen Peterboro Co., Ont. 4. A. Brethen Peterboro Co., Ont. Editor, Farm and Dairy,—In a re-cent issue of Farm and Dairy I was quite anused by Mr. Carlyle's com-parison of the great dairy breeds, Ayrshires and Holstein - Friesians. Under ordinary circumstances you howe the old advance area (Communic) Under ordinary circumstances you know the old adage says "Compari-sons are odious," but I do not think this holds good in this particular case, because Holstein breeders the country over have enough confidence country over have enough confidence in the merits of their cattle to wel-come comparison from any source,

come comparison from any source, and with any breed. Now, Mr. Editor, I am not ac-quainted with Mr. Cartyle, but as I have been doing quite a lot of that extra work he speaks of, namely, milking three times a day, I have had quite a good opportunity to get pretty familiar with the Holstein cow "Friendship does not breed con-tempt." There is just enough cowtempt temple. There is fast enough cut-man about me to get right under that cow once in every eight hours and take her milk away if she is willing to do her part in pruting it up, and I have found her willing.

AYRSHIRES PREFERABLE SOMETIMES. I have no quarrel with the man who is favorable to the Ayrshire cow, not the slightest—nor with the cow. I candidly acknowledge that in some

Another Reply to Mr. Carlyle respects (well developed fore udder, respects (well developed fore udder, for instance) she is quite superor to the Holstein as they have been bred in recent years. As a forager on hilly, rocky pasturage, I would sup-pose her to be able to show better that than ber heavier rival, and hered, be it in cattle, horess, or ma-try, takes into consideration the uses to which they will be subjected. which they will be subjected. Granted that each dairy breed has

some one quality at least superior to the others, and we can truthfully say regarding these prominent qualities in the diffreent breeds-

"All are needed by each one; None are pure and good alone;" I think the time will come when o breed will combine all or nearly all of the excellencies of the different breed existing at present, and that breed that first reaches this ideal will be the one with men behind it who have confidence in the merits of their cattle and are enthusiastic and uni-ted in the advancement of their favorites

Mr. Carlyle asks, "Why do Holstein cattle sell so much higher than any other breed of cattle?" I would answer just simply the old question of big demand, small supply; same as \$10 cwt. pigs and \$7 beef.

EVERYTHING IN BLACK AND WHITE "If farmers will get down to busi-ness and keep records of what the

cow consumes, milk, etc., they would not be running after the breed so much." I am afraid, Mr. Carlyle, this method you advocate would prove a failure in heading off these crasy people because the fact of the matter is that these measures the The Financial Statement shows that matter is that those men who do keep records of everything in black and white are the very men the country over who go to auction sales and pay a long price to get cattle of the same complexion as their business methods. creased grants have also been maseveral of the Associations including the Clydesdale Horse Association the Dominion Shorthorn Association and

complexion as their business methods, (everything in black and white.) Re your Old Country comparisons, Mr. Carlyle, I am afraid you will have to seek a more reliable authority than the one you quoted. He may te an honest man, but a mighty poor prophet. "What would Holsteins do in the Highlands?" You quote your in the Highlands?" You quote your authority as saying "in two genera-I have a Clyde mare with six top crosses of Clydesdale blood. I know the owner of the dam, grand dam, and ... 'at. grand dam. What steps should be "faken to have her registered? tions they would have nothing. hardly corresponds with a recent write-up of the Ayrshire breed by no less an authority than Mr. Drummond in which, if I remember him correctly, he makes the statement that the original Scotch Ayrshires were imoriginal scotch Ayrshires were im-ported from the Netherlands. So this rather disqualifies the theories of your traveller friend as to how Holsteins would thrive in the High-lands and the complete annihilation of Holsteins in their native land if they are let the Avender of the state of the state they are let the Avender of the state of the state of Holsteins in their native land if has four top crosses by sires recorded in the Clydesdale Stud Book of Can-Brant, Accountant, Live Stock Records, Ottawa, Ont. they only let the Ayrshires at them.

HOLSTEINS AND NET PROFITS

As the question of profit over feed ansumed has been quite frequently Cement lie Experiments The readers of Farm and Dairy who contemplate installing under-draining will find information of prime interest to them in that sec-tion of the 1910 report of the 0n-tario Agricultural College and Ex-perimental Farm dealing with the coment tile experiments conducted by Prof. Wm. H. Day at the Col-lege. The experiments go to show that ecoment tiles are outle durable advanced of late, when comparing the relative qualities of the different relative qualities of the different breeds I would just like to ask Mr. Carlyle this question: In the light of the fact that the Holstein breeders of Canada at a recent meeting announced their readiness to compete in dairy tests at winter fairs on the basis of profit over feed consumed with the one condition that all money divided among different breeds pooled and Ayrshires, Jerseys, Holsteins, etc., compete in an open class, the cow showing the highest score on above basis to take the bunch, if there is so much confidence among the breeders of other classes of cattle nexts with one of the hand machines now on the market is estimated at \$10.64 per 1,000. The cost varies, depending upon the strength of the mixture, the cost of hauling sand, and the price of cement (and, of course, the men who run the ma-chine.)

breeders of other classes of cattle about profit over feed consumed, why don't they take it up? Holstein cattle sell high because people want them. They want them because they are money makers. They want them more, the more they learn about them. The knockers are the more they are them the and one price of the mean who run the machine.) Concluding his report upon these experiments in tile making Prof. Day publishes the following war-ing: "There is, we think, an element of grave danger in the cement tile situation, via, that in some cases the tile made by inexperimenced men will be of very inferior quality. To show how easy it is for this to occur aw might note that if cement tile just made are exposed to strong sun or drying wind or both so that they dry in a few hours the "first set" of the tile is interfered with and the quality permanently injured. So that am learn about them. The knockers are the ones who never knew them. If Mr. Carlyle wishes to boost the Ayr-The ones who never knew (nem., If Mr. Carlyle wishes to house the Ayr-ahire cow, one good Lig record like the one made by R. R. Ness at the recent Winter Fair, Ottawa, would do more to boom his favorite than 1,000 letters on breed comparison. All honor to men like "Bobbie" Ness, who are big and broad enough (in mind) to see good qualities in other cattle than their own. I think every Holstein breeder in Canada owes the genial Bobbie a world of gratitude for providing the excep-tion necessary for proving the rule "That the Holstein sinners are the Dairy Test winners." who may think of making coment the should take every precation that me inferior tile are made, and if per-chance any should be, they should be discarded rather than placed in the drains. It takes only one defective tile to render a whole drain useless." The College report may be had,'rec on application to the Department of Agriculture, Toronto. Members d Farmer' Institutes will have receir-ed the renort ere this, or will receive

# Eastern Show Had Successful Year

The report of the Board of Direc-tors of the Eastern Ontario Live Stock and Poultry Show on the past year shows that a wonderful increase in exhibits and attendance has taken place in the last few years while the has thow was by far the best yet held. The farmers of Eastern Ontario and Western Quebec are realizing the eduvestern Quepec are realizing the edu-cational possibilities of the show and are becoming most enthusiastic in their support of it. The attendance last year totalled about 18,000 as com-The following is a comparative statement of exhibits and prizes for the Shows of 1910 and 1911:

1910 1911

Number of exhilits.... 2722 3028 Prize money offered \$8000.00 \$9000.00 Prize money paid \$6428.50 \$7078.25

the Canadian Ayrshire and Holstein

**Registering a Clyde Mare** 

A mare can be considered pure bred

and is legible for registration in t

Clydesdale Stud Book of Canada that

ada. Before your mare can be regis-tered it will be necessary to have her dam and grand dam recorded.-...J.

**Cement Tile Experiments** 

that cement tiles are quite durable

permanently injured.

tion

who may think of making cement til

ed the report ere this, or will receive it shortly. Others wishing to inform themselves upon this new and impor-tant subject should avail themselve of

this opportunity to get the informa-

Interest and Profit.—Just noticed in reading my Farm and Dairy ye-terday (May 5th) that the label said my subscription was due in Ayni. Kindly pardon this oversight on my part. While I am not a farmer sail every article in Farm and Dairy sp-neals to me for they are all writer

every articly in Parin and Dury are all written with good, common sense and in a practical style that one cannot inde-reading them other than with great interest and profit.—S. Way Kent,

So that

The cost of making cement tile by hand with one of the hand machine

Associations.

May 18, 1911 \*\*\*\*\*\*\*\*\*\*

receipts for the past year amount to \$14,044.77 while the expenditures were SWINE DE \$14,445.48. The largest receipt was the grant of \$7,500.00 from the On-Our readers questions in reg will be answer ment. You ar offer helpful su experiences throu tario Legislature. The next show will open at Ottawa,

on Tuesday, Jan. 16th and close on Friday, Jan 19th, 1912. Several large increases in the prize list will be made as the Legislative grant has been in-creased to \$8,500.00, while further in-\*\*\*\*\*\*\*\*\*\*\*

Notes on Swi The following

from the results of at the O. A. Col forth by Prof. G annual report of The average of weeks old, omit labor and manur

average is struc that raised 72 pi In 1906 with 12 found that on an weeks old cost th Last year higher for food than in of \$2.45 for a pip ter record than provement is due that the sows rai POOR RESULTS

Feeding on past economical of the experiments of 19 be a surprise to mony with previo turing hogs at t tion.

Feeding green a hogs in pens gave Skim milk and turns, but the co milk, alfalfa and gest returns. One pound of m

One pound of m equal to 4.2 lbs. g as one pound of strated to be equa milk. This is a for alfalfa, and possibilities for th of reducing the of reducing the pork when fed with Green alfalfa ca large quantities skimmed milk, but

cheaply that it ca better advantage for pigs over thre if skim milk can cents a cwt.

The alfalfa use Guelph was second of good quality, wable for pigs than

RETURNS In the College re is a table showing for food consume various selling p weight for the hog that if the hogs w

(a) 5c a lb., the a ton for meal, 20 and 10c a bushel (b) 6c a lb.; \$3 for milk, and 10c

(c) 7c a lb.; \$5 for milk, and 10c Regarding the 1910 test taking the ation as set forth following shows would be realized by these hogs had 5c a lb., 6c a lb.,

lt. live weight: (a) 5c a lb., \$20 20c a cwt. for mill 20c a cwt. for green alfalfa.

(b) 6c a lb., \$31 (c) be a lb., \$31
(c) 7c a lb., \$42
(d) 8c a lb., \$5
20c for skim milk alfalfa, in each cas It is of interest results agree fairl reported in 1907

reported in 1907. show that the hog good account of t sumes when it is s

# SOME HISTORY about Typewriters



Modern and Ancient CHAPTER ONE

YPEWRITER history is making fast. Real action commenced 14 years ago-with the Underwood.

FOR 20 years the type writer has been evolving and finding its place in business.

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THE public applauded — and bought. Naturally they preferred to be able to see what they wrote as they wrote it.

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SWINE DEPARTMENT

Our readers are invited to ask questions in regard to swine. These will be answered in this depart-ment. You are also invited to offer helpful suggestions or relate experiences through these columns.

Notes on Swine Experiments

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Notes on Swine Experiments The following notes are gleaned from the results of swine experiments at the O. A. College, Guelph, as set iorth by Frof. Geo. E. Day in the annual report of his Department. The average cost of one pig, 11 weeks old, omitting risk, interest, labor and manure is 82.46. This average is struck from nine sows that raised 72 pigs. In 1006 with 12 sows Professor Day found that on an average a pig six weeks old cost the Department 81.27 Las year higher prices were charged for food than in 1006, so that a cost of \$2.45 for a pig 11 weeks is a bet-ter record than in 1006. The im-provement is due mainly to the fact that he sows raised larger litters in 1000 e bred in the a that corded Canregis ve her 1.-J. k Re-

POOR RESULTS FROM PASTURE

Focding on pasture proved the least economical of the methods used in the experiments of 1910. While this will be a surprise to many it is in har-uring hogs at the Guelph Institu-tion tion.

tion. Feeding green alfalfa with meal to hogs in pens gave excellent results. Skim milk and meal gave large re-turns, but the combination of skim milk, alfalfa and meal gave the lar gest returns.

One pound of meal was shown to be Cone pound of meal was shown to be equal to 4.2 Ha. green alfalfa, where-as one pound of meal was demon-strated to be equal to 6.79 Hs. akim mik. This is a remarkable showing for alfalfa, and it indicates great possibilities for this crop as a means of reducing the cost of producing pork when fed with a meal ration. Green alfalfa cannot be used in as large quantities in the ration as akimmed milk, but it can be used to much better advantage than the skim milk for page over three months old, even if skim milk can be bought at 10 cents a ewt. One pound of meal was shown to be

for pigs over three months old, even if skin milk can be bought at 10 cents a cwt.
The alfafa used in the tests at Gueph was second and third growth to good quality, which is more suitable for pigs than the first cutting.
RETURNS FOR THE PRICES (1997)
RETURNS FOR THE PRICES (1997)
RETURNS FOR THE PRICES (1997)
The College report for 1907 there is a table showing the prices yielded for food consumed by 297 hogs at various selling price per lb. live weight for the hogs were sold at:
(a) So a lb., they would give \$23.87 at on for meal, 200 a wet, for milk, and 10e a bushel for roots.
(b) So a lb.; \$30.71 for meal, 20e for milk, and 10e for roots.
(c) To a lb.; \$33.75 for meal, 20e for milk, and 10e for roots.
Regarding the hogs used in the 1910 test taking things into consideration as set forth in the report the following shows the prices which would be called for food so callent to be, de a lb., de y ben, and Se a lb., live would the called for food so callent to be a lb., and 300 at a consideration as set for a lb., and Se a lb., live would be realized for food so callent to be a lb., and 300 at a ton for meal, 300 at a ton for meal.

a lo, be a lb., \$20.45 a ton for meal, (a) 5c a lb., \$20.45 a ton for meal, 0c a cwt. for milk, and \$3 a ton for 20c a cwt. for green alfalfa.

green alfalfa. (b) 6c a lb., \$21.80 for meal. (c) 7c a lb., \$42.16 for meal. (d) 8c a lb., \$42.30 for meal and 20 for akim milk and \$26 for green alfalfa, in each case. It is of interest to note that the results agree fairly well with these reported in 1007. These results also abov that the hog is able to give a good account of the food he con-sumes when it is sold at 6c or more a lb.

### **Alfalfa For Swine**

Alfalfa For Swine Alfalfa will give better results for forage known. It is an itrogenous forage known. It is an itrogenous for the second state of the

plowed and worked until a firm bot-tom with a fine seed bed on top was obtained. This was then worked once each wock thereafter until August the average final weight was 55.6 lbs., and each wock thereafter until August from a field growing accessfully a löth, when two bushels of soil, taken from a field growing accessfully a used work and the solution of the solution of a pound per hundred seeded to alfalfa at the rate of 30 pounds are are. A very thick, havy tared for the first season in 1910. The stand was obtained, which was pas-tered for the first season in 1910. The set of logs at the rate of 12 an are; ber of he season work of the holds of the season work of the outs an experiment. The were farrowed in early winter, and wore in thin to

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Montreal, P.Q.



25 Front Street, East, Toronto, Ont.

91 Youville Square,

AN INTERPROVINCIAL PRIZE DAIRY FARMS COMPETITION

Another dairy farms competition, similar to the one held so successfully during 1909 and 1910, will be held this year (1911) throughout Ontario and in the Beauharnois District, Quebec. The contest will be continued during 1912, and possibly during 1913, to decide the best dairy farms and farmers in the two provinces. The competition will be conducted by FARM AND DAIRY, of Peterboro, Ont, the only farm and dairy paper published in Canada, assisted by a committee of prominent farmers and dairymen.

### FIFTY HANDSOME PRIZES

**FIFTY HANDSOME PRIZES** During 1911 Ontario will be divided into four dis-tricts, which with the Beauharnois District, Que, will make five districts in all. A special competition will be held in each district. Ten handsome prizes will be offered in each of these divisions or 50 in all. Next year (1912) it is proposed to hold a final or semi-final competition between the leading prize winning farms in each of these five districts to decide the best dairy farms in all these districts. A special Ontario and another prize for the farm either in Que-bec or Ontario that scores the most points in an inter-provincial contest.

In this year's contest (1911) the first five prize winning farms in the provincial contest held in On-tario during 1910, as well as the four farms that won the first prizes in their districts in 1909, will not be allowed to take part

### THE DISTRICTS

The five districts in which contests will be held this year (1911) will be approximately as follows: DISTRICT No. 1.—The Beaubarnois District, Que., comprising the counties of Beaubarnois, Chat-eauguay and Huntingdon.

DISTRICT No. 2.—That portion of Eastern Ontario lying East of a line running North from Kingston.

DISTRICT No. 3.—The counties in Eastern Ontario between Kingston and Yonge St., Toronto. DIS' RICT No. 4.—Western Ontario, North of a line running from Hamilton to Goderich.

DISTRICT No. 5.-Western Ontario, South of a line running from Hamilton to Goderich.

For further particulars, entry forms, etc., write the Secretary of the Committee, H. B. COWAN, FARM & DAIRY, - PETERBORO

These districts (except No. 1) are subject to re-vision after the entries have been received to facili-tate the judging of the farms.

### JUDCING THE FARMS, THE POINTS OFFERED

The farms will be judged in July, (1911), by two judges. Where competition is close for some of the leading prizes in any or all of the districts, the judges will have the privilege of visiting such farms again next winter, before making their final awards.

All departments of the farm will be included in the competition. A total of 1050 points will be of-fered, subdivided as follows:

House, 156, viz., plan, finish and approaches, 25, lawn 20, garden and orchard 35, arrangement of house 25, sanitation 15, ice and water supply 15, education, including books and periodicals, 20; total, 136.

Buildings, 175, viz., provision and size 25; loca-tion 25, condition 20, neatness 20, convenience 25, light and ventilation 25, water supply 25, yard, 10: total, 175.

Live stock, 210, number 40, quality and condi-tion 40, breeding 40, feeding 20, horses 30, swine 25, poultry 15; total, 210.

Crops, 215, viz., suitability for milk production 50, yields and condition 75, freedom from weeds 75, pastures and shade 15; total. 215.

pastures and shade 15, total 200. Management, 140, viz., arrangement of fields 20, vorknanship and neatness 25, preservation of man-ure 20, bookkeeping and records 20, summer water supply 10; total, 140. Machinery 75, viz., supply 25, housing 20, condi-tion of repair 20, character 10; total 75. Permanent improvement 80, viz., public roads 10, freedom from obstacles 25, drainage 25, beautifying 20, total, 80. Grand total, 1050. The farms in each district scoring the highest on compete in a final or semi-final competition to de-cide the best ten dairy farms in Ontario and in a special competition to determine the best dairy farm in Ontario and Quebec.

PETERBORO, ONT.

### FARM AND DAIRY AND RURAL HOME

Published by The Rural Publishing Company, Limited.

de Antes

1. FARM AND DAIRY is published every Thureday. It is the official organ of the British Columbia, Manitoba, Eastern and Western Ontario, and Bedford District, Quebec, Dairymen's Associations, and of the Oanadian Holstein, Ayrahire, and Jer-sey Oattle Breeders' Associations. Quebec, I the Canad

the Ganadian Holstein, Ayranira, and ser-sey Cattle Breeders' Associations. 2. SUBSCRIPTION PRICE, \$1.00 a year, strictly in advance. Great Britain, 51.20 a year. For all countries, except Canada and Great Britain, add 500 for postage. A year's subscription free for a club of two

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CIRCULATION STATEMENT

CIRCULATION STATEMENT The poid subscriptions to Farm and siry exceed 8.306. The netual circulation each issue, including copies of the upper sent subscribers who are but slight-in blow are, not sample copies, varies not subscription rates. Thus our mailing lists not contain any dead circulation. Before, and the subscription rates, the state of the subscription rates, the subscription rates. Thus our mailing lists the contain any dead circulation. Use of the paper, showing its distribu-net y countries and provinces, will be alled free on request. OUR PROTECTIVE POLICY We want the readers of Farm, and Dairy j

lation

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### FARM AND DAIRY PETERBORO, ONT.

### FACTS ABOUT ALFALFA BACTERIA

Experiments conducted at the Geneva, (N.Y.) Experiment Station to determine whether or not inoculation is a necessary factor in the successful growing of alfalfa prove that it is well worth while to provide the Lacteria for the alfalfa. The conclusion was drawn that inoculated soil taken from an old successful alfalfa field (plenty of nodules being present on the alfalfa roots) and sown on the new seeding at the rate of 200 to 300 lbs. per acre, raised the chance ot success of the new crop to about 60 per cent. over and above the uninoculated fields.

Last year from the Ontario Agricultural College, Guelph, there were sent out 3,375 cultures of nitrogenaccumulating bacteria for inoculating the seeds of alfalfa and from these 65.7 per cent. of the farmers claimed the cultures to have been an aid in securing a better crop.

One should need no further evidence than this to be convinced that it pays bother. A simple method of keepfor the alfalfa seed they have sown may yet provide inoculation by sowing at least 200 lbs. per acre of soil from a successful field in the soil of which alfalfa roots with plenty of nodules thereon have been growing.

### THE PEOPLE AND THE "WITNESS"

The competition of a less scrupulusly conducted paper is reported to have embarassed financially the Montreal Witness. Owing to its policy of refusing to publish liquor and questionable forms of advertising the Witness has lost large sums of money during the last few years and on this account it has been published at a loss. An appeal to its readers has been made and unless the Witness can double its circulation it will have to suspend publication.

Friends of the Witness all over Canada have been asked to forward their subscriptions to the Montreal Witness at the rate of \$1 a year and to get their friends to subscribe at the same rate.

The Montreal Witness is to be commended for its high editorial standard and as another has said: "If there is one paper in the whole Dominion worthy of the sincere support and esteem of the Canadian people it is the Montreal Witness." We urge the friends of good clean journalism to send their subscriptions and support the paper in the present, its hour of need.

### WHERE ARE THE PROFITS?

"The weakest point in farm management to-day is the carelessness of our farmers in the matter of keeping accounts," said Mr. B. J. Case, president of the New York State Fruit Growers' Association, at the annual meeting of the Ontario Fruit Growers' Association in Toronto last fall. The judges in Farm and Dairy's recent Prize Farms Competition reported the same carelessness even on the part of the prize farmers. On ncne of the farms visited was an adequate system of keeping accounts found.

For the farmer who is engaged in three or fcur lines of farming, as most of us are, some system of keeping accounts whereby we can tell what lines are yielding a profit and what lines we would be better off without from a business point of view, is necessary. If we do not keep accounts, how can we tell whether the profits of the farm are coming from the dairy herd, the swine, the poultry or the crops marketed directly? Perhaps one of these branches is unprofitable, and is therefore drawing on one of the profitable branches of the farm to keep it going. A proper system of bookkeeping would show us where the profit comes and we would be enabled to go in more extensively for certain profitable lines and drop others which we have proved to be unprofitable. Bookkeeping has not been adopted more extensively by farmers because

most of us regard it as too much to inoculate for alfalfa. Those who ing accounts of the various departhave neglected to make such provision ments of the farm, however, could easily be worked out which would not require more than four or five minutes a day, and would be just as satisfactory as a most elaborate system of bookkeeping. A cash book noting the receipts and expenditures is a lot better than no accounts at all. With very little trouble separate accounts could be kept with the farm proper, the dairy department, horses, swine, poultry and so forth. A few minutes each day could not be spent to better advantage than in keeping such a set of accounts.

### WHY CONSERVE SOIL MOISTURE ?

The total rainfall in Ontario in the ummer months is much short of sufficient to supply the moisture demands of growing crops. The moisture stored in the soil during fall and winter is the great supply on which crops must depend. The greater facilities we give the soil for storing this mois ture and for holding it to be used gradually by the plants the more certain are we of good crops, be the season dry or wet.

The incorporation with the soil of organic matter, or humus, and the tile draining of wet soil, increases the porosity of the soil and therefore 'ts water holding capacity. Thorough cultivation of the soil as early in the spring as possible, the early seeding of crops and in the case of hoe crops, thorough cultivation to maintain a dust mulch, are the Lest methods of conserving soil moisture from evaporation during summer.

Proper attention to these two factors in the conservation of soil moisture will place our crops practically independent of summer rains. These principles underlie the dry farming that is practised in countries where there is little rainfall and these same principles applied to farming in the more favored sections of eastern Canada will result in larger and better crops.

### THEY KNOW TOO MUCH

The source from which comes the opposition to the rural phone and to the information that is disseminated by farm papers should convince us farmers of the value of both of these agencies for the improvement of country life. A hog buyer speaking to an editor of Farm and Dairy recently said that he would like to see every rural phone and every farm paper in Canada put out of business. "When you go to buy hogs from a farmer now-a-days," said the irate buyer, "he knows as much about prices as you do and there is nothing like the mon ey in buying hogs that there used to

In the good old days, of which we have heard so much, when we farmers had no ready means of following the market we were practically at the mercy of the buyer and had to take just whatever was offered. Competition between buyers was the only factor that ensured us a tair price for produce and as we well know the com-

### May 18, 19:1

petition as well as the price was logo. lated. Those were the good old days all right-but from the buyer's point of view only.

A farmer who for several years has had a phone in his house recently informed Farm and Dairy that the first year he had it he saved the cust of the phone on a single deal. A buyer came to the house and offered him what he supposed was a good price for hogs. He stepped to the phone and ascertained in a few minutes that the price he was offered as half a cent a pound below the prevailing market price.

Valuable market information is giv. en in the market pages of the agracultural journals. The rural phone and the market page of the farm papers enable us farmers to market produce to the best advantage. we cannot afford to be without either

Prof. Geo. E. Day, in the report of the Ontario Agricultural College for 1910, again respectfully urges

the importance of A Dairy building a new dairy Stable. stable at the College. The present dairy

stable is antiquated and unsanitary, and it is high time that steps were being taken to improve the accommodation for the College Dairy herd. Of the many things yet needed at the College a new dairy stable is one of the most pressing. It is to be hoped that the authorities that be will take the necessary steps to provide this much needed building at the Guelph institution.

A farms competition affords incentive to all competitors therein to greatly improve their farms. This was most noticeable in You and Loth of the two Dairy Your Farm. Farms' Competitions that have in years gone by been conducted by Farm and

Dairy. Competitors found the necessary time to make improvements and to clean away piles of rubbish and obstacles that, once they were disposed of, considerable value thereby was added to the farm. And then the splendid trophies awarded the win ning competitors and the lessons they learned from the scoring of the judges compensated them times over for having entered the competition. A big list of valuable prizes is offered again this year in the interprovincial competition. The other advantages will be available as before. You should take advantage of them. Enter your farm and induce a neighbor to do likewise with his farm. So may you truly prosper yourself and your community.

The management of an apiary for honey must be approached in the same business-like manner as the management of a dairy herd for milk. There is no more "luck" or "chance" in the one than in the other. Sciontific principles govern both. Failure in either is due to some definite cause that must be discovered and mastered before success can be at tained.

May 18, 19

### Pure Bred Li W. W. Hubbard. Freder

The province s natural raising unexcelle



### W. W. Hubbard

wealth producing nected that the a great increase provement in que herds and flocks.

There is urgen stock in New Br to-day great stret excellent pastura Westmoreland, counties and alor of the various i ducing no wealt to consume their grasses. To be su of hay are export valuable fodder le while not market feed for stock. (as well, thousand and sheep might that is now practime the same time the ing horses in co and beef, mutton. ducts to the value Dairy proc imported.

SOME G It is not the o however, to give nothing is being some good stockn the province. It where in America better herds of a are kept in the vi a few elsewhere. w scattering her Jerseys and here Guernseys and here Guernseys. A fe and one herd eau and French Can French Cana found. Indiffe pure tred sire mand upon breede in the past the r stock has not been osition nor has th call for importatio There are, how change. Many fa to realize that mo

them to utilize th the past year th portations of Clyd nares from Scotla Shorthorn and A Great Britain and coming in from v ported by private ave been quite la distributed by auc The Department been and is trying mand for good st value upon the I ies and also assis ight into the p

there were o Societies, receiving There are now 88 ceiving in 1910, \$1 vincial treasury. most of these socie stock of their distr are to a consideral for the purchase and the bonusing forth

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Pure Bred Live Stock in N.B. W. W. Hubbard, Sec. for Agriculture, Fredericton, N. B.



Frederican, N. B. The province of New Brunswick possesse natural advantages for stock raising unexcelled by any portion of the American con-tinent. The breed-ing of horses, compared but scant attention from her received but scant attention from her people. This is un-fortunate for New Brunawick agricul-ture. There are, www. Hubbard the importance of the ture.

wealth producing asset. It is expected that the next decade will see a great increase in numbers and im-provement in quality in the studs, There is expected.

There is urgent necessity for more stock in New Brunswick. There are to-day great stretches of haylands and Look in Yeas Drinnston. There are today great stretches of haylands and excellent pasturage on the marshes of Westmoreland, Albert and St. John counties and along the bottom lands of the various rivers that are pro-ducing no wealth for lack of stock to consume their annual growth of grasses. To be sure thousands of tons of hay are exported but there is much valuable foldder left to lie down that, while not marketable, will afford good feed for stock. On the upland farms as well, thousands of horses, cattle and abeep might be kept upon land that is now practically unused. At the same time the province is import-ing horses in considerable numbers and bed, mutton, pork and pork pro-ducts to the value of over \$1,000,000 a var. Dairy products also are largely imported.

imported. SOME GOOD HERDS

BOME GOOD HTERDS It is not the object of this article, however, to give the impression that nothing is being done for there are some good atoektmen and breeders in the province. It is doubtful if any-where in America there can be found better hards of Ayrabire cattle than are kept in the vicinity of Sussex and a few elseptime. There are also as are kept in the vicinity of Sussex and a few elsewhere. There are also a few scattering herds of Holsteins and Jerseys and here and there some Guernseys. A few Shorthorn herds and one herd each of Dutch Belted and French Canadian cattle are to be found. Indifference to the value of pure Lred sires by farmers gener-ally is responsible for a lack of de-mand upon breeders and consequently in the past the raising of nure herd in the past the raising of pure bred stock has not been an attractive prop-osition nor has there been any great call for importations.

call for importations. There are, however, signs of a change. Many farmers are beginning to realize that more stock and better stock is what they need to enable them to utilise their lands. During the past year there have been im-portations of Clydesdale stallions and mares from Scotland and Ontario, of Shorthorn and Ayrshire cattle from Great Britain and always a few head coming in from various sources. imcoming in from various sources, im-ported by private individuals. Sheep have been quite largely imported and distributed by auction sales.

The seen quite largely importent and distributed by auction sales. The Department of Agriculture has been and is trying to stimulate a de-mand for good stock, by urging its value upon the people, encouraging the formation of Agricultural Societ-ies and also assisting to have stock brought into the province for sale. In 10<sup>60</sup> three were only 57 Agricultural Societies, receiving \$3,000 in grants. There are now \$8 such societies re-ceiving in 1910, \$13,000 from the pre-vincial treasury. It is the policy of most of these accieties to improve the stock of their districts and their funds are to a considerable extent available for the purchase of pure hered stock and the bonusing of stallions and so forth.

In response to a very general re-quest from Agricultural Societies and individual farmers, the Department of Agriculture has under considera-tion the making of an importation of spring type Shortborns before next aprimat lean support of this type of an under the support of this type of where there is a good opportunity for stock raising and where the owners do not wish to follow dairying ex-clusively. In many districts local conditions are such that farmers can make the most out of their opportun-ture the support of this system where there is a good opportunity for stock raising atters, while milking a small number of cows. It is urged that the English milking Shorthern with her well known milking capacity by year is thool to 1,0000 lbs. of milk a year is though the time of the purpose, as her early days in New Beurge fitable beef carcases.

fitable beef carcases. In the early days in New Bruns-wick the Shorthorn grade was the the days of the subversion of the many men changed off to the special days breeds. While they did not improve their stock over the old Short-horn grade for milk production they absolutely ruined is for beef and many men for this reason have sold of all their cattle down to one or two cows and depend upon commercial fertili-izers to keep up their crop yields. BFECLA PULFORS COWS

SPECIAL PURPOSE COWS

iners to keep up their crop yields. SPECIAL PURFORE COWE Theoretically the special purpose cow should be the most profitalle bur practically in New Brunwick she has only been a success when she had the special purpose man behind her. There the compose man behind her. There the compose man behind her. There the standpoint of milk production, will nick in with the Shorthorn grace and improve the stock greatly from the standpoint of milk production, without altogether destroying are young stock for beef. The may be urged that the men wao the standpoint of milk be true in some localities at least but we have to take conditions as we find then. It mud be difficult to make the New Would be so profitable foryer that it would be so profitable serve that it would be so profitable she for beef than to keep cows that will give him from 4,000 to 5,000 lbs. milk or more, thas you say ary remene of \$40 to \$50 per cow in addition to a good Leef carcase. A small importa-tion of Shorthorn bulls from the North of England sold lass at June at Shorth of England sold age at from \$75 to \$16 to exampt on the site of the North of England sold short strue a good Leef carcase. A small importa-tion of Shorthorn bulls from the North of England sold short strue Short Shorthorn bulls from the North of England sold short strue the DIMAND SOB BARY STOCK For special dairy stock there is also

THE DEMAND FOR DAIRY STOCK

THE DEMAND FOR BAIRY STOCK For special dairy stock there is also a demand and it is growing. Our Maritime breeders should be able to largely supply this domand. They in turn will import privately, choice animals with which to replenish their herds and there will be places here for some of the choicest individuals of leading breeders, both in Britain and Canada. Canada.

Canada. There cannot be any very great de-mand for special dairy stock, however, until the business of dairying is more serioualy taken up. In the past 10 years labour has been so scarce both on the farm and in the household that dairying has not increased. Now, however, that the provincial govern-ment has organized a system of bringing labour to the province con-ditions are casier in this regard and farmers may be induced to increase their dairy operations. their dairy operations.



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Distrume and stock relaters to snapply here least markets with butter, poulity, veget-tion, and cattle. The best lands in per acre. Let us holp you to get a farm in Alabama, where the citmate is after in Alabama, where the citmate is after a ready marks for asme. We are apported by the State and sell no lands. "Butter and literature"

State Board of Immigration Montgomery, Alabama



### FARM AND DAIRY

### second adopt this method of dividing proceeds, as it seems to give the best satisfaction. Creamery Department

Butter makers are invited to send con-tributions to his department, to ask ques-tions on matters relating to butter making and to suggest subjects for discussion. Address letters to Creamery Department. 

### **Dairy Regulations in Illinois**

Dairy regulators in innova F. A. Jorgenson, Dept, of Dairying, University of Illinois The great majority of creameries and cheese factories in Illinois are individual concerns. We have very few cooperative or farmer's creamer-is, though the majority started as though the majority started as a. Cream is always bought on butter fat basis and fat per cent. de-termined by the Babcock test. The laws of this state compel creamery operators to use scales in cream test-ing, though the few who used to test cream by pipette as well as applying other slovenly methods, were nearly all put out of Lusiness by competitors all put out of Lusiness by competitors adopting homest and up-to-date meth-ods and there has never been any geed of administering the law. Ad-opting up-to-date methods has also been the cause of individuals suc-cerns failed. In cheme formerly farmers' con-

In cheese factories and condensories In cheese factories and condensories as well as for the city trade, milk is generally bought by the cwt., and on contract and must test up to a cer-tain per cent., generally 3.5 or 3.6 per cent. Besides the dairy interests are produced by law in that milk of. per cent. Besides the dairy interests are protected by law in that milk of-fered for sale below three per cent. fat and 11.5 per cent. solids, is con-sidered adulterated and punishable under the law.

### TIME OF PAYMENT

In cheese factories, condensories, bottling plants, and some creameries. settlements are generally made month-ly or semi-monthly and the composite system of taking samples used. Most of the butter factories are operated on the centralizer system; the major-ity testing each delivery of cream ity testing each derivery or cream and in many instances, especially where shippers are mostly depended on, payment is also made for each delivery of cream and in some in-stances payment is made weakly. Inasmuch as I am not familiar with conditions in Outario. I arm unable to

Inasmuch as I am not raminar with conditions in Ontario, I am unable to say whether the methods in vogue there are used here. In some of our farmers' creameries they charge so farmers' creameries they charge so farmers' creameries they charge so much per pound for making of the butter from which the creamery pays running expenses and dividenda, and the rest is divided among the patrons according to the amount of butter fat delivered. But in nearly all individ-ual plants butter fat is paid for on the basis of some market quotation and the operator keeps the over-run. Competition has also compelled most

in the same order, being 93.33, 93. 88.66 and 87, respectively. CONCLUSIONS

### Test Acid Before Using

Editor, Farm and Dairy,-There is more or less difficulty in getting sul-phuric acid of the proper strength for making a Babcock test. The inventor of the test allowed a limit in specific gravity of 1.82 to 1.83 and most of the manufacturers are able to get gravity of 1.82 to 1.83 and most of the manufacturers are able to get their sulphurie acid within this limit. Good results can be got with even a wider variation by using a little more or less acid according to the specific gravity of the acid used in testing. testing.

There is room for improvement ho ever, in the methods of obtaining sul-phuric acid for this work. In our own experience, we have usually had some difficulty when changing from one firm to another, as we have been obliged to do on one or two occasions. After the new firm understands the strength of acid required we have little or no difficulty.

Dairymen will do well to test a new

Dairymen will do well to test a new carboy on new bottle of acid, using the full amount (17.5c.c.) and also a little less than full quantity in order to see which amount of acid gives the best reading. Where the fat is bright yellow in color, no curdy matter and no charred material is: Tat is oright yellow in color, no curdy matter and no charred material in the fat, the tester may be reasonably sure that his acid is of correct strength. Sometimes an acid hydro-meter is recommended but 1 do not consider these instruments very re-liable-...Prof. H. H. Dean, O.A.C., Guelph.

### Experiments in Butter Making

Experiments on the effect of culture

Experiments on the effect of culture (starter) on raw and pasteurized or ant for butter making as carried on at the dairy department of the Ontario Agricultural College are de-tailed in the 1910 report by Prof. H. H. Dean as follows: Four experiments were made dur-ing May to see the effects of a culture varying in amount from 10 to 20 per varying in amount from 20 per varying in amount from 20 per varying in the other was divided in-to four loss. One raw lot in each test was wided. The percentry, a culture was added. The percentry of far in the acidity of the raw cream varied from an each of the simeed of the acidity of the raw cream varied from .35 to .46; and of the ripened cream from .34 to .63, being in every case highest in the raw cream lots to which culture had been added, and least in the pasteurized lots without culture—in fact, these lots usually showed slightly less acid at the time of churning than they contained beof churning than they contained be-fore pasteurization took place; the lots were churned at temperatures ranging from 49 degrees F. to 54 de-grees F.; the time required for churning ranged from 17 to 115 material to the start of the material starts of the start of the .3, the highest test being found in a lot of raw cream without culture, churned at 52 degrees F., in 20 min-utes. The average tests of buttermilk

utes. The so register r. in 20 min fat of the raw, raw with culture, pas-teurized, and pasteurized with cul-ture lots, being, respectively, .205, .16. .202, and .177 per cent. When we come to consider the qual-ity of the butter, we find the order of morit in flavor to be, first, pas-teurized without culture, which re-ceived an average score of 44.33 out of 50; pasteurized with culture, 38.66; and raw cream with culture, 38.66; and raw average total scores are also

The average total scores are also

### May 18, 1911

### May 18, 191

# \*\*\*\*\*\*\*\*\*\*\* Cheese D Makers are invited to this department, matters relating to suggest subjects for letters to The Cheese

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Mr. Ruddick Ans

Editor, Farm an porter," whose le Farm and Dairy o that "ordinary" cu

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cheese in a proper curing room, and t tain cool cured el "wet ends" should cool curing, but to tions, and in some in manufacture.

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that weather will give than the same che cured," then I say

1. Pasteurization of sour crean 182 degrees stopped the further de-velopment of lactic acid, unless cul-

velopment of factic acta, unless cul-ture was added afterwards. 2. The lots of cream pasteurized, both with and without culture, churn-ed in less time than did the raw cream lots. 3. In these experiments there

3. In these experiments there was little difference in the fat lost in the buttermilk, by churning raw cream or pasteurized lots. 4. The quality of the butter made from the pasteurized cream was

superior.

### Iced Butter Car Service

Commencing Tuesday, May 16th and until further notice, an iced re rigerator car service will frigerator car service will be estab-lished for the carriage of butter only to Toronto and Montreal also ship-ments for export forwarded via Mon-treal or Quebec; the intention being to have the car arrive at Outremont (Montreal) Friday so that the con-tents may be delivered Friday after-noon or Saturday morning. The service will be four cars weekly as follows: Le estal

as foilows:

as follows: 1. From Windsor iced car every Tuesday on "Way-Freight Extra." This car will leave London by "Way. Freight Extra" Wednesday and and Toronto by No. 62 Thursday nicht. Shivmanta from intermedia and Toronto by No. 62 Thursday night. Shipments from intermediate main line stations west of Toronto will be loaded in this car. Shipments from Port Burwell, Ingersoll, and St. Mary's Subdivisions should be way freighted to Woodstock for tranship-ment to iced car from Windsor.

2. From Goderich, iced car every Wednesday on "Way-Freight Extra," wednessay on "Way-Freight Extra," connecting with Train 56 at Guelph Junction. Shipments from Listowel Subdivision should be way-freighted to Linwood Junction for tranship-ment to iced car from Goderich.

3. From Owen Sound iced car every Wednesday on "Way-Freight Extra" for West Toronto to be transferred at Toronte when the second for west foronto to be transferred at Toronto, whenever possible, to car from Windsor. Shipments from Walkerton Subdivision iced car every Tuesday on "Way-Freight Extra" to Walkerton Subdivision iced car every Tuesday on "Way-Freight Extra" to be consolidated at Owen Sound. Ship-ments from Muskoka Subdivision should be way-freighted to Bolton for transhipment to iced car from Owen Sound

4. From Teeswater, iced car every Wednesday on "Way-Freight Extra" running via Orangeville and Streetsville Junction for connection at Tor-onto, whenever possible, with car from Windsor.

from Windsor. Note.-If cars from Owen Sound and Teewwater, should fail to arrive in To-ronto in time to allow transfer of butter to car on train No. 82 from Toronto, they may be consolidated, and seat east from may be consolidated, and seat east from Torront are trough freight train. Our of the than carload rates will work of the than carload rates will

Current less-than-carload rates will apply without any charge for icing. This service will be operated for the transportation of butter ahip-ments only. Cheese and other dai P products must not be accepted for shipment in these iced cars.

Good Cream .- Everything is kent sweet and clean around our milking and separator utensils. We have good ventilation in our separator room order to keep it sweet. The cream is set on the cold cellar floor in a granite pail. It is left there from one mikpail. It is left there from one mile-ing to another and then emptided into a cream can which is kept sitting on the collar foror. We never empty warm oream into the sold cream. I find a 30 or 37 per cent. cream. We never make a practice of covering the oream sight until it is thoroughly cold....Ed. Burten, Vicebris Go., Ort.

The two essentials to good cream are cleanliness and cold.-E. 2. Eaton, Colchester Co., N.S.

### paraffined too soon made are more apt A few years ago i

Britain were com about 'heated' che with good reason t fect threatened the our cheese trade. transportation faci the increase in the cured cheese we have

If a low temperat vantage, why comp ed' cheese? If coo tionable, why ask cars for cheese shipr Editor, it is rather all the evidence av this question any fu want to be misund as minimizing the i defect referred to b is a serious defect. I am to some extent of cool curing, and ledge of the subject perience, I cannot cast a doubt on the ing without a protes

### FOR SALE AND WAL

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FOR SALE-Iron Pipe Rails, Chain Wire F etc., all sizes, very c stating what you w Waste and Metal Co. street, Montreal.

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A FIRST-CLASS DANI Choesemaker, all ro 24 years old, single, ence in Denmark as Can talk and write P. Nielsen, Darion, Y FOR SALE-New No. 3 A Hard Semanar.

A Hard Separator, bridge, 1695 Dundas S

HAND SEPARATOR-60

Steel Cheese Vats are no longer an Ex-periment-a striking Success-tried out and found to be A1 EXTRA. tried out You take no

You take no risk, very and is graaranteed. We iake all responsi-bility, only order Catalogue with of delay. I anks have solved the problem of he problem of he problem of the problem of

What We Say-



"Perfect" Steel Cheese Vats

I have examined and carefully test-ed your steel cheese vat and consider it the best vat I have ever seen and take pleasure in recommending it to all catery men actory men H.E. BRINTELL. Kingston, Dairy Instructor.

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Am pleased to state that your steel cheese vat is the coming vat. After testing it carefully during the past year, T can recommend it very highly to all dairymen.

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THE STEEL TROUCH AND MACHINE CO. LTD., - TWEED, ONT. Live Hustling Agents Wanted. Write for Territory and Terms.

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### FARM AND DAIRY

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## \* Cheese Department Makers are invited to send contributions to this department, to ask questions en matters relating to cheesemaking and to suggest subjects for discussion. Address letters to The Cheese Maker's D partment.

### Mr. Ruddick Answers"Importer"

Mi-RudditarAnswer's Importer' Editor, Farm and Dairy, --H ''Im-porter,' whose letter appeared in Farm and Dairy of April 27, means that 'ordinary' cured cheese in hot avealher will give batter satisfaction than the same cheese would if ''cool inco auch a statement. If hand be, here such a statement if the other there must be a lot of duffers in the cheese business on both sides of the cheese business on both sides of the water, considering all we have heard about the improvements due to cool

about the improvements due to con-curing. The cool curing of July and Au-gust cheese gives it the quality of September make, for which importers have always expressed a preference. The conditions which surround the cheese in a cool curing room are as marky as possible like those under which the finest English and Soutch cheiddras are cured. It is not true that there is no evaporation from cheese in a properly regulated cool curing room, and the fact that cer-tain cool cured cheese have shown "evet endit" should not be blaned to cools, and n sone on factor they are made are more apt to show wet ends. A for years ago importers in freest the sone approaches the sone of the sone of the sone of the sone conduction in the sone of the sone wet ends. ande arz more apt to show wet ends. A few years ago importers in Great Britsin were complaining Litterly about "heated" cheese, and claimed, with good reason too, that this de-iect threatened the very existence of our cheese trade. By improving our transportation facilities along with the increase in the quantity of cool defect.

If a low temperature is not an ad-If a low temperature is not an ad-vantage, why complain about "heat-ed" cheese? If cool curing is objec-tionable, why ask for refrigerator cars for cheese abipment? Really, Mr. Editor, it is rather absurd in face of all the evidence available to discuss this question any further. I do not want to be misunderstood, however, as minimizing the importance of the defect reference to by "Importer". Is an to some extent for the adoution is a serious detect, but responsible as I am to some extent for the adoption of cool curing, and with my know-ledge of the subject from actual ex-perience. I cannot allow anyone to cast a doubt on the value of cool cur-ing without a protest.

### FOR SALE AND WANT ADVERTISING

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I wish to assure "Importer" that milk to make a pound of cheese as the trouble he mentions is not to be the average for the season, when com-turbuted to cool curing.-J. A. Ruddick, Dairy Commissioner, Otthe trouble he mentions is not to be attributed to cool curing.-J. A. Ruddick, Dairy Commissioner, Ottawa.

### Short Weight Canadian Cheese

The inspector of imported cheese at Glasgow has published a severe in-dictment of Canadian cheese makers dictingit of Canadian cheese makers and shippers as insecuably carcless if not criminally dishonest, in the mat-ter of weight. The Scottish impor-ters find it absolutely necessary to shipment for misotrage, particularly during the or months. He adds that "it is a merimonths. He adds during the summer months. He adds that 'it is a serious matter to im-porters, who have contracted to take a factory's weekly output, to find the cheese arrive showing from one-half to two or three pounds short weight per box, not to speak of odd boxes turning nu fixe, a fixed.

fat (3).

2. As casein is the moisture carry-2. As casein is the moisture carry-ing constituent of milk we should naturally expect the curd and cheese from the higher casein lots to have the more moisture, but in the eight lots tested for moisture thre was not but tested for moisture thre was not much difference in the results, what difference there was being a higher moisture content in the curd and cheese made from the milk with a lower preprint are 6 case in These lower percentage of casein. These lots (low casein) also lost more by shrinkage while ripening or curing for one month.

### Eastern Ontario Dairy Instructors

cheese arrive showing from on-half to two or three pounds short weight. The following are the dairy instruc-tors for Eastern Ontario for the sea-turning up five to ten pounds lighter; than the marked weight." In some way or other this grievance of British importers must be faced and remedied by the Canadian cheese boro, 646 George Street; S. S. Cheet-makers, under pressure, if need be, ham, Gananoque; W. W. Dool, Ot-



Home and Factory of a Peterboro County Cheese Maker

Tome and Factory of a remove coming Cases inhart of J. P. Piod, maker and proprietor of the Myrtle Checkes Factory, believes in enjoying the comforts of life as he goes along. His residence, as here shown, has all the modern conveniences—a complete water system, bathroom, gas light-ing, and is heated by a hot air furnace. The factory may be seen to the right. ing, and is heated by a hot air furnace.

cheese is of too much importance to be lost or even imported through the carclessness or the dishonesty of some makers or alippers of cheese. Such men imperil their own industry and de incalculable damage to the whole Dominion. It should always the borne in mind that Canadian cheese has won its high place in the British mar-ket in the face of keen and continuous competition, and that such a place is much harder to regain after being lost than it was to secure in the first place.—The Globe.

### Anent the Value of Casein

Interesting experiments in regard to the value of casein in milk for cheese making and its relation to the The value or case in in mix or precentage with the United States in fat content in milk have been ear-ried on for the past three years by Montreal, in addressing the Brockville the Dairy Department of the On-tario Agricultural College. Professor procity would be of no benefit to the Dean comments upon these experi-menta in considerable detail in the 1910 annual report of the Ontario Agricultural College and Experi-mental Farm. His conclusions are summarized of case in (2, 96)
 The milk containing the higher proceed ago (case in (2, 96))
 I am enclosing my renewal subscrip-produced over 45(ks. (4.64) more choese per 1,000 lbs. milk, and re-quired over one-half pound (.51) less

Ingr. and is neated by a hot air invince. The factory may be seen to the right. from the Canadian Government. An tawa; J. H. Echlin, Balderson; T. J. equally annoying grievance existed a glilis, Chesterville; R. E. Elliott, few years ago in relation to the grad-ing and labelling of apples put up in manufed to meet that kind of fraud, and is diminishing every year. So if equally short-weight chesses (if equally short-weight chesses quarked by parliaments are promul-candian inspectors, and applied by Canadian inspectors, and through the lost or even imported through the cardessness or the dishonesty of same men imperil their own, industry and by makers or shippers of chesses. Such men imperil ther own, industry and by and the stores to the whole

### Dairy Notes

Dairy Netces Mr. Allan McDonaid, Dairy In-structor in Glengarry Co., Ont., re-cently gave a milk testing demonstra-tion to the cheese makers in the em-ploy of K. D. McLeod. Mr. Mc-leod has concluded to pay for the milk received at his factorics by test, and he took this means of familiarizing his makers with the practice.

familiarizing his makers who dis-practice. Mr. M. K. Everrets of Smiths Falls recently demonstrated his faith in reciprocity with the United States in a novel way. Mr. A. J. Brice, of Montreal, in addressing the Brockvilk-cheese board, claimed that reci-procity would be of no benefit to the dairy farmer. Mr. Everrets offered to sell Mr. Brice his cheese at the price that would rule on the United States market on July 15th. Mr. Brice accepted the offer.



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ENGER and worry are like echoes; they do not exist untill we call for them; and the louder we call the louder is the response. - Horace Fletcher.

### ...

# The Road to Providence

### (Copyrighted)

### MARIA THOMPSON DAVIESS

### (Continued from last week.)

### SYNOPSIS OF "THE ROAD TO PROVIDENCE."

STROPHS OF "THE ROAD TO PROVIDENCE." Mrs. Mayhery, a comutry physicalism widow, has indone into here the mome Hillinger wingste. a famous dinger, who has mystericupy is the mome Mine Mayhery is much loved thr-aghout the countrysic. Here see, from us we dire Mayhery the dity, but suong the home neighbors there is a humoroum preference for "Mo-ther" Mayhery a remedies. Mise Wigness hecomes happier than the has been an Marking and the momentary of the second second second second Marking and the second second second second second second marking and the second second second second second second marking wingste upon one occasion that the is as happen; the does not have any set desire is to be able to restore her power to sing. Dr. Mayherry is toid by Mise Wingste upon one occasion that the is as happen; the does not have any disavior of the second second second second second second second second marking her does not know why he knowing this Dr. Mayherry tells her that al-though he does not know why he knowing this Dr. Mayherry tells her that al-though he does not them. The serving circle meets with Mother Mayherry, ready to respond to them. The serving circle meets with Mother Mayherry, will without and philosophic kindness are as usual bounditilly served to her guests we and philosophic kindness are as usual bounditilly served to her guests withore mayherry for the difference of the the circle early in the morning without letting Mise Wings beside Pratt, the preparations for which were supervised by Mother Mayherry.

Prissy and Mr. Petway. It's liable to be serious when two folks as old as they is—but go on with your tale.

"Well, Buck wrote two of them beautiful 'Remember me' verses on nice pieces of white paper, in them curlypieces of white paper, in them curly-cues the Deacon taught him, before he got one to suit him, and he left one on the counter, right by the cheese box. While we was gone, along come 'Lias and Bud and Henry and dis-graced Aunt Prissy.''

graced Aunt Prissy." "Why. what did them scamps do?" demanded Mother Mayberry, looking over her glasses in some perturbation as the end of the involved narration

as the end of the involved narration began to dawn upon her. "They tooken the other box of soap outen the window and put the yerse in it, and carried it down to Aunt Prissy, and told her Mr. Petway sent it to her. It was a joke they said, but they was good and skered. I god home then, and I seen her and Maw laughing about it, and pleased and lov-ing looking as Pattie were, and Maw was a-joking of her like Mis' Pratt-

hicted on the dencacy of the chica and the tale began to assume serious proportions in her mind as she thought of the probable result to the incipient affair between the elderly lovers that had been a subject of prayerful hope to be for a subject of prayerful hope to

had been a subject of prayerful hope to her for some time past. "What did you do?". "I prayed," answered Elira in a per-fectly practical tone of voice, "and as I prayed I ran to Mr. Petway as fast as I could. He was filling molasses cans at the barrel when I got there, and they wasn't nobody in the store, only I seen Bud and Henny peeping from behind the blacksmith shop and they was rist white. they was so they was right white, they was so skeered by that time. Then I told him all about it, and begged him to let Aunt Prissy have the box of soap and think he sent it, so her feelings would not get hurted. I told him I would picking peas to pay for it, and that Aunt,Prissy cried so when her feelings was hurted, and she thought so much was hurted, and she thought so mucn of him that she kept her frizzes rolled up all day when she hoped her might be coming that night to see her and got Maw to bake tea-cakes to phas him out on the front porch and he *might* let her have just that one little box of sam."

"What did he say, child?" asked Mother Mayberry in a voice that was positively weak from anxiety and suppressed mirth at Eliza's own account of her management of the outraged

lover, "He didn't say a thing, but he sat down on a cracker box and just hug-ged one, and haughed, until Mc cried and laughed tess, and I hugged back and laughed tess, and I hugged back and laughed the same that he and laughed the same that he and laughed the same that he about them had lover foolish joke. cause he wanted to war foolish joke. cause he wanted to marry Aunt Prissy and didn't event for an arry Aunt Prissy and didn't want he same the same the three young scallent to find out that i'll d he cau oil that the your file

"Did he say all that to you, 'Liza honey, are you sure?" asked Mother Mayberry, beginning to beam with de-



"She laid one of her strong hands on her son's arm."

"She laid one of her strong hands on her son's arm." I was so skeered I could't swaller isomething in my throat 'cause I something in my throat 'cause I situation. 'Yes'm he did, and I went out and but po often hee Rock. Prissy would 'Yes'm he did, and I went out and the were so disgraced with Mr. Per way. I woulder done it myself, for I got about it." And the blush that was a takawn of the eternal feminine again rose to the little bud-woman's face. 'It were awful, Eliza child, and I boys cross they hearts and bodies not don't blame you for being mortified to reliable to a singer to the low see I have a quick appreciation of the wound in-

### May 18, 1911

flicted on the delicacy of the child, the mystic sign, thus locking the barn door of her secret chambers after hav-ing quartered the troublesome steed of confidence on the ranges of Mother

condence on the ranges of another Mayberry's conscience. "Well, 'Liza, a secret oughter al-ways be wrapped up tight and dropped down the well inside a person, and supdown the well inside a person, and sup-pose you and me do it to this one. And, child, I want to tell you that you did the right thing all along this line, and it were the Heavenly Father you asked to help you out that put the right notion in your heart of what to do?

do." "Yes'm, I believe He did, and He got hold of Mr. Petway some too, to make him kind about wanting to mar-ry Aunt Prissy. He are a-going to ask her to-night and I promised to keep Paw outen the way for him, 'cause Paw will get away from Maw, and come talk crons with him second." 'cause Paw will get away' from Mar, and come talk crops with him some-times on the front porch. May I co-out to the kitchen and get Cindy to make a little chicken soup for Ma' Bostick now? I can't get her to eat mout to-day.' Mayberry heartly, and she shook with Mayberry heartly, and she shook with Mayberry heartly, and she shook with Mayberry and she to the blue calica aughter as the ead of the blue calica aughter as the ead in the hall. "The little rawappered in the hall.

in the hall. "The little raven have actually begun to sprour cupid wings." she said to herself as she went around the corner of the house toward the Doctor's office. "Co'ting are a bomb-shell that explodes in the big Road of life, and look out who it hits." she further observed to herself as she round to fire and out of the range

further observed to herself as she paused to train up a shoot of the ram-bler over the office door. The Doctor had just come from over the Ridge, put up his horse and made his way through the kitchen and hall into his office, where he fourd his Mother sitting in his chait by the table. He smiled in a de-jected way and seated himself oppos-ite her, leaned his clows on the table and dropped his chin into his hands. "Now, what's your trouble. Tom

"Now, what's your trouble, Tom Mayberry?" demanded his Mother, as

"Now, what's your 'trouble. "This Mayberry" demanded his Mother, as she gazed across at him with anxiety and tenderness striving in glance and tone. "You've been agoing around like a dropped-wing young rooster with a touch of malia for a week. If it's just moorgaps you can keep 'em and welcome, but if it's trouble. I claim my share, son." "I'l meant to tell you to-day, Moth-er," he answered slowly. After a moment's silence he looked up and said steadily, "I've failed with Miss Wingate, and I'm too much of a chard by the like I'le le sure now that she'll never be able to use her to a she'll never be able to use her to a she'll never be able to use her shook the table hands and his arms shook the table hands and his arms shook the table hands and his arms shook the table there Mayberry sat perfectly still and from Mayberry sat

Smook the table they rested upon. For a moment Mother Mayberry sat perfectly still and from the whispered words on her lips her son knew she was praying. "The Lord's will be done," she said at last, in a deep, quiet voice, and she laid one of her strong hands on her son's arm. "Tell me about it, Tom. You ain't done no operation yet." "Yes, Mother, I have," he answered quety. "All the different iaryngeal treatments she had tried under the greatest specialists. Her one hope was to be built up to the point of standing a bloodless operation with the galvanic shock. I have tried the galvanic shock. I have tried the tries in the last week to

was no be built up to the point or standing a bloodless operation with the galvanic shock. I have tried the galvanic shock. I have tried the muscles and start life in the new the muscles and start life in the new the muscles and start life in which I have succeeded the first pone-tion. Now I dare not risk another tear of the muscles. One reason I did not tell her is that I had to count on her losing the fear that she wouldn't gain the control. You know she thinks they have been only preliminary trei-ments and you have heard her lauch as I held her white throat in my hands. *(To be concluded next week)* 

May 18, 1911

### ----The Upwa \*\*\*\*\*\*\*\*\*\*\*\* The Broad

### No.

My kingdom is no St. John 18, 38. Thinkest thou the pray to my rather, sently give me more ions of angels? Bu

it must be?-St. Ma Une of the sadde is to see men and standing Christ three with the multitude attracts more attent sionary, the politicia Even among profe there are too many towards God. Havi for Christ they appet that is about all th pected of them and continue once more on earth rather than In this respect forget that faith en. that is works for God

What then is true cess for which each of It is to accomplish life. And what is is to do the will of to us in His word. of us so poor and



r

### \* The Upward Look The Broader Vision

No. 8

My kingdom is not of this world .--St. John 18, 38. Thinkest thou that I cannot now

pray to my Father, and ite shall preany give me more than tweive legsensity gives me more than tweive leg-ions of angels? But how taken sould take s.riptures be fulfilled that thus it must be?--St. Matthew 26, 53, 54. One of the saddest sights of hife is to see men and women misunder-

standing Christ through their inabil-ity to comprehend His true greatness. With the multitudes the millionaire with the multitudes the minimulare attracts more attention than the mis-sionary, the politician than the priest. Even among professing Christians there are too many who lack in zeal towards God. Having taken a stand for Christ they appear to think that that is about all that should be expected of them and forthwith they continue once more to lay up riches on earth rather than riches in Heaven. In this respect we are all prone to forget that faith without works, that is works for God, is dead. (James

What then is true success, the suc-What then is true success, the suc-cess for which each of us should strive? It is to accomplish our mission? It is to do the will of God as revealed to us in His word. There are none

FARM AND DAIRY

we have not got a special mission of our own that no one else can fill. Uod does not require nor dasire that we shall all be missionaries or ordained as ministers of the gospel, we are not all fitted for such quites. were we to ask to be permitted to undertake such work the message would be the same for us as it was for the man that had been possessed with the devil who prayed onrists ...at he might go with Him but Christ replied: "to home to tay friends, and cell them how great things the Lord nath done for thee and hath had compassion on thee." (St. Mark 5, 18, 10)

19). Uur gifts differ "according to the arace that is given to us." (Homans 42, 6). For this reason, like Paul, we must ask: "Lord, what wilt thou have me to dor." (Acts 9, 6) and having received our answer we must put our hands to the plow and never cok back. (St. Luke 9, 62). When we feel in our hearts that the work which God would have is to do then we should expect with absolute confidence that God will bless that work. It may be that we have that work. It may be that we have

19)

absolute connence that don will blee that work. It may be that we have been called for service in the kitchen, on the farm, in the office or the workshop. No matter what or where it is, how humble or how exalted, God will bless it. We may then well ask: "If God be for us who can be against :18 }

in washing for a living can have parts -she can mingle payson for the saints, and for how passon for the saints, and for how passon for the best of the same set of the same set of the bends over the wash tub, and not do the washing any more poorly on that account; the hard driven man of tusi-ness can have part in it, praying as he hurries from duty to duty. But of course we must, if we would maintain this spirit of constant prayer, take time and take plenty of it, when we shall shut ourselves up in the secret shall shut ourselves up in the secret place alone with God for nothing but praver.

This was the secret of Christ's life. dis kingdom was not of this world. He could have called legions of angels to his aid and confounded His enem-es but by so doing He would have defeated His own object which was to the would but usher Him into His Father's kingdom. We need to have the would but usher Him into His Father's kingdom. We need to have the Christ a vision that comprehends the things of Eternity as well as of this world and which holds both in their right relations to each other. When we have this we will then under-stand something of the grandour and wublimity of Christ's life and of the moaning that it has for us. Until we have this world no weedens we will not know what the moaning that it has for us. Until we have this world wision true succease can ner-the ours for we will not know what This was the secret of Christ's life If is to accompts our mission? If The only way in which we can meaning that is our mission? If The only way in which we can meaning that is it has for us. Until we to us in His word. There are none at rength and blessing we require is  $r \to 0$  ours for which not know what of us so poor and insignificant that

### Mr. Can't and Mr. Can

Oh, Mr. Can't from Mr. Can Is a very different sort of man. For Mr. Can he always trice And Mr. Can't he always crice; Now Mr. Can gots many a blow, But he gots the best in the end, you know.

know

While Mr. Can't gets nothing at all— For he's down too low to suffer a fall, Oh, Mr. Can gets up with a grin, And he says—"I'm bound in the end to win."

to win." But Mr. Can't is a pitiful sight, For he's whipped before he's begun to fight;

to ngnt; And he says it puzzles him quite a lot Why some can win and some can not. Oh, poor Mr. Can't he never knew The secret I'm going to whipper to

That you can win if you only try, And you certainly can't if you only

erv

And that is the reason why Mr. Can From Mr. Can't is a different man.

### **Useful Hints**

Fresh air and exercise are the best tonics for young folks, but too much of the latter will do harm to a child.

of the latter will do harm to a child. Eggs are excellent food for children, especially those who are nervous. They are easily digested when lightly or under-cooked, but only one child in the main direct the robit of the child in ten can digest the white of a hard. boiled egg.

Have you forgotten to renew your subscription to Farm and Dairy?



### Household Economy

Before putting away winter wools, be sure that they are clean and free from mcths. Those that cannot be washed should be well brushed, and may be pressed with a rather warm iron. If carefully done, this will destroy the larvae of moths that may be therein. be therein.

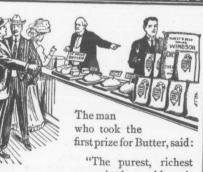
Wash wools in two suds waters and wash wools in two suds waters and one rinse water. The first suds loos-ens the dirt and removes some of it. The second suds removes the dirty suds and any remaining dirt. The rinse water removes the soapy water. PREVENTING SHRINKAGE

The temperature of the different waters, and of the air in which the garments are dried, should be as near the same as possible. This aids in proventing shrinkage. Use a good wild near the same better the same but the same as possible. This aids in preventing shrinkage. Use a good mild soap in making the suds, but do not rul soap directly on the wools. Wocls should be cleansed by squeezing

and punching in the water, not rubb-ed on the board. When properly cleansed, wrap the wools carefully in newspaper and tie. Then wrap the Then wrap the wspapers, being newspaper and tie. Then wrap the package again in newspapers, being sure there are no openings left in either wrapping, and moths will not trouble them. Label each package. This will take only a few moments, saves time and patience later, and gives the drawers or chest an orderly husingasilic air.

gives the drawers or chest an orderly businessible air. Theroughly bruah, clean and re-pair winter coats, jackets, casp, etc., before hanging them away for the summer. You may be busy, lut there will be less time in the fail, when they are necked. Hang them up care-tion in shape. They wear longer and locus in shape. They wear longer and locus in the start of the start wools and furn hinger and for the summer should be aired and for the every two or three weeks, to prevent moths attacking them.

Tacked-down rugs or carpets may CHEESEC



cream in the world won't make prize butter without Windsor Salt.

Of course, I know how to make good butter and I am careful to use the best cream-but I consider Windsor Dairy Sait the biggest help that we dairymen have.

Practically every butter prize awarded at the Fairs last summer, went to those who like myself, used Windsor Dairy Salt".



### FARM AND DAIRY

be cleaned on the floor by the follow-ing method: Wring mediumly dry a soft solot for convenient size (1 yd. square) from hot salt water. Spread this on the carpet, and with a fur-reports and bulletins containing the niture whip, or any light limber whip or stick, beat the surface of the cloby, take it up, rinse and spread on the

11-1

### A Farm House of Unusual Design

The farm frome of Mr. dec. W. Anderson, Rossmore, and the sub-built 50 yearsa ago by Mr. Anderson's father. Mr. Anderson may be one of the sub-cessful competitors in Parm and Dairy's Prise Farma Competition this year. —Photo by an Editor of Parm and Dairy.

asking.

floor again. Go over the entire car-pet in this way, working at each place until the dust no longer col-lects on the cloth. In this way all of the dust is taken out of the rug, and litle dust is made in the room. The salt in the water tends to bright-en and freshen the colors in the car-net: and if there are moths present. en and freshen the colors in the can pet; and if there are moths present, they are brought to the surface, they are brought to the surface, where they can be properly dealt with. If moths are present, spread a paper on the carpet, and press with a hot iron. This destroys moths and

\*



The number of male members of our club has been rather smaller than our club has been rather smaller than that of the fair acx, and we have been trying to increase the men members. We have much pleasure in introduc-ing to the other members, a real live man member. He comes to us under the guise of "Nephew Frank," and has first contribution appears in this issue. Judging from what he writes we can expect quite a treat from our new member. our new member.

### THE FARM HOME LIBRARY

The low cost of good vo'ames at the resent day has enabled many a man of moderate means to acquire a home library. For the small sum of 25 cents per volume one can obtain the very cream of the world's literature from the "Dramas of Aeschylus" to "Gulliver's Travels." Well bound little volumes, in a nice book case they impart an atmosphere of study and culture to a farmer's best room. The mere mention of books, to the The more mention of books, to the average farmer, augeosite profound classics or trashy movels. He will perhaps express a liking for good ag-ricultural works and add, "but they cost like the decor." These members paying two or three dollars for a Yankee stock breeder's Look or mul-tum-in-prarve and maybe a dollar or two for "something about nothing" and concludes book collecting to be expensive. Yet out in the wood shed are possibly a number of blue covered books, that cost him nothing directly: are possibly a number of blue covered books, that cost him nothing directly ; well printed and illustrated; bound in neat paper covers and containing more reliable information in 50 pages than the Yankee book in 250. Soon

### May 18, 1911

and the hard earned experience of practical and successful farmers; vill go up in smoke. A good reliable farmers' library for less than the

How many farmers would appre-ciate a home library any way? My cpinion is one in 50...."Nephew Frank."

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produced in raised l joyed by the blind. This library has a of free instruction in or the instruction in ing tactile print. W for those of us who sight to realize full tile books, and the them, will mean to Canadians who are their days, as well in utter darkness, peal for public supp arian ground is eloq When we add to

tion of what it mer to educate the blind, should induce generate to the endowment of It is of paramount in State to make the State to make the self-supporting, and this is to educate seeing man without hundreds of avenues open to him that a blind brother. Indee little normal labor th serform and none th rform, and none th while in the realm of deavor their opportun able.

A good circulating they can read is mo the blind than is suc the blind than is suc to people who can see of cheap literature, e small means can at le library. For the bli cheap literature, owi (for the sheets can on one side) and to the r ed sale. A book print costs several dollars, work can be owned a secure parson be: a seeing person by few cents.

This library is estab Ontario Public Librar under government ins accounts are carefully scriptions towards its a are solicited. Remitt to E. W. Hermon, Tr mute St., Toronto, wi received. The library all the blind of Cana-fax to Vancouver. B fax to Vancouver. mitted free of postage ian promptly mails boo the catalogue.

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### May 18, 1911 order that it may b

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order that it may be more easy of ac-cess, and to improve its usefulness by placing some bundreds of additional rulnnes on its shelves. An effort will also be made to install a press for the manufacture of taxill elocks, in order that some of the gems of Canadian literature which have never been te-produced in raised letters may be en-iored by the blind.

produced in raised letters may be en-pointed by the blind. This library has also a department of free instruction in the art of read-ing tastile print. While it is difficult for those of us who are blessed with sight to realize fully how much tac-tile books, and the ability to read them, will mean to our 5,000 follow. Candinaw who are doomed to pass the there will as their nights, in statice when are no man and seal for public support on humanit

in utter darkness, this librarys appeal for public support on humanit arian ground is eloquent. When we add to this a considera-tion of what it means to the State to educate the blind, patriotic motives should induce generous contributions to the endowment of the institution. to the endowment of the institution. It is of paramount importance to the State to make the blind population self-supporting, and the way to do this is to educate the blind. The this is to educate the blind. The seeing man without education has hundreds of avenues of employment open to him that are closed to his blind brother. Indeed, there is very little normal labor that the blind can perform, and none that is profitable; while in the realm of intellectual en-dearc their concentrations. leavor their opportunities are illimit able.

A good circulating library of books A good circulating library of books they can read is more important to the blind than is sure in institution to people who can see. In these days of cheap literatures, even the man of small means can at least own a small librar. For the blind there is no cheap literature, owing to its bulk (for the sheets can only be printed on one side) and to the necessarily limit-est work on the owned rand enjoyed by a seeing person by the outlay of a few cents. few cents

ion conta. This library is established under the Ontario Public Libraries Act. It is under government inspection, and its accounts are carefully audited. Sub-eriptions towards its endowment fund are solicited. Remittances addressed to E. W. Hermon, Treasurer, 37 Bal-mute St., Toronto, will be gratefully received. The library is available to all the blind of Canada, from Hali-fax to Vancouver. Books are trans-mitted free of postage, and the libra-in promptly mails books ordered from the cytalogue. the catalogue.



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FRONT, 6994

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Be sure and state size, also number of

patterns. Do not send illustrations of pat-

terns. Order by number and size only.



of the season. The quantity of material required for the medium size is 3½ yards 37. 3 yards 36 or 2½ yards 44 inches wide. This pattern is cut in sizes 34, 36, 39

### THE COOK'S CORNER .....

### COCOANUT CARE

### PLAIN SPONGE CAKE

size of a breakfast plate.

### MOLASSES CAKE

LEMON PUBLIC Put in a basin one-fourth pound of four, the same of sugar, same of bread crambs and chopped suck, the juice of one good sized lemon, and the peel grated; two eggs, and enough the peel grated; two eugstance of the such and the peel grated; the cousistency of milk to make it the consistency o porridge; boil in a lasin for one hour serve with or without sauce. 10



THE CONTRACTOR

The simple little frock that closes at the side of the front is a favorite one this season. This model expectively will be found pretty for all seasonable materials. For a child of 4 years will be required of subroidery to trim as illustrated. This pattern is cut in sizes for children of 2,4 and 5 years of age.

One cup of butter, one cup of su-gar, one cup of molasses, one cup ot coffee cold, one cup of currants, one teaspoonful of soda, one teaspoonful of mixed spices, two or four eggs, flour to thicken.

One cup of butter, two cups of white sugar, one cup of milk, three coffee-cups of flour, whites of six eggs, well beaten, three teaspoons Cook's Friend baking powder, one cocoanut grated; do not use the milk of nut.

One egg, one teacup of sugar, one cup of sweet milk, two cups and a half of flour, one dessert spoon of butter, two teaspoons cream of tar-tar, one teaspoon of soda, and a little salt. Bake fifteen minutes in pans eiter of a heatfoat nigto.

One cup of butter, one cup of brown sugar, one cup of molasses, one cup of sweet milk, three cups of flour, four eggs, one and a half teaspoon of cream tarter, one teaspoon of so-da, two pounds of raisins chopped fine, nutmeg; bake in a slow oven.



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# **TWENTY SIX-FOOTERS**

# A Startling Example of How Oats Create Height

Archdeacon Sinclair, in advising boys to eat much oatmeal, said this: "Among my brothers and my father's brothers and sis-ters there were 20 six-footers, all brought up on oatmeal."

ters there were 20 skrtooters, all prougat up on oatmeal." Oats contain more body-building food, more brain-building food, more nerve-build-ing food than any other grain that grows. No other item in all human diet compares in importance with oats. Nothing else greates ao much enerve.

in importance with oats. Nothing else creates so much energy. But thousands of people buy this food from oats at hey run-rely catineal made small, the rich and the worthless. Quaker Oats is made from the creat. Of Quaker Oats is made from the creat. Of pounds in a bushel you for a strikings. Only ten pounds in a bushel you for a strikings and favor that all enjoy, and the maximum var buth of the data the strikings.

Value as rood. Yet Quaker Oats, despite its quality, costs but one-half cent per dish. Does it pay to take something inferior? Made in Canada.



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The Ontario Wind Engine and Pump Company, Ltd. WINNIPEG TORONTO CALGARY

SYNOPSIS OF CANADIAN NORTH-WEST LAND REGULATIONS

WEST LAND REGULATIONS TANDESS OF CANADIAN NORTH-WEST LAND REGULATIONS Any person who is the sole head of a may to car any mole over 18 years old have to car any mole over 18 years old have to car any mole over 18 years old have to car any mole over 18 years old have to car any the sole of the sole have to car any the sole of the sole agency, on certain conditions, by father, meher, son, daughter, brocher or sister agency, on certain conditions, by father, meher, son, daughter, brocher or sister agency, on certain conditions, by father, meher, son, daughter, brocher or sister agency, on certain conditions, by father, meher, son, daughter, brocher or sister the sole of the land in each of three years. A homesteader may live within it least 80 certs brocher do as a ara of agenter, brocher or sister the sole of the land in each of three sole standing may a sole sole sole of the per acre. Duties-Must reside upon the seach of sity, brown procession and cultivation to earth homestead patent) and cultivation to earth of the sole of the sole of the sole of the stead entry (including the time formired to earth homestead patent) and cultivation the sole of the the sole of the the sole of the the sole of the

fity acres extra. A homestender who has exhausted his homestend right and cannot obtain a bomestend linevianter for: a purchased bomestend linevianter for: a purchased bomestend fither vars, cultivate fity acres and erect a house works \$300. W. W. COBY.

eouty of the Minister of the Interior. B.-Unauthorized publication of this ertisement will not be paid for.

FARM AND DAIRY

**HOLSTEIN-FRIESIAN NEWS** 

Farm and Dairy is the official organ of The Canadian Holstein - Friesian Association, all of whose members are readers of the paper. Members of the Association are invited to send the Association are invited to send for publication in this column.

man was and

A BULL WITH A RECORD A BULL WITH a RECOMP A built that promises to become one of the great Holstein buils of Canada is Yel-atra Triumph (imp.) that heads the herd of Mr. Geo. W. Anderson, of Rossmore, Ont. An editor of Farm and Dairy who

Evergreen Farm recently

visited

cord of 13.9 lbs. at maturity. Frin Maggie Keyres has a record of 151 is 3 years and is likely to do much is when she freshens again. Edler Triud der, at one year 11 months produced lbs. butter in 7 days, militing 31 lbs structures and the structure of the Korndyke recently purchased from D Flatt & Son. His dam, Frincey Bourg Ormsby is the Canadian champion 1; do with a record of about 21 hs. (1 has an excellent top line, is full behind the shoulder, thoroughly masculine and possesses true dairy quality.

Ormsby is the Canadian champion old with a record of about 27 Hz., -ter in 7 days. This bull is sired son of Pontiac Korndyke the sire world's champion Pontiac Clothi Kol 2nd, with a record of 37.90 Hz ter in 7 days. Pontiac Korndyke sire of 7 daughters whose 7 day -average 31.50 Hz. each. This rec-umentualled by the daughters of any sine of the breed living or dead. -umentation by the daughters of any sine of the breed living or dead. -to do a lot of testing in the mar ( breergreen farm comprises some 5%).



### A Holstein Bull With Many Record of Merit Daughters

A Hoistein bull with Many Record of Merit Daughters: Velata Triumbh, here shown, imported by Geo. W. Anderson, Bossmore, Ont., is said to be the only bull in Canada whose dam and sire's fam have each given over 100 hs. of milk a day. This daughters, when tested the dirers, have made better records than their dams at maturity; surely the best restores that there?! Notice the great depth, straight lines and low-setness of this bull.--Photo by an editor of Farm and Dairy.

much impressed with this bull as well as with the stock he is insting. Velstra Tri-umph is seven years old the stock of the stock from the noted Homestead herd at Urica, N.Y., of W. A. Matteson, an expression Asociation. This bull is said to be the original stock of the stock of the stock of the and the stock of the stock of the stock of milk in a day. His dam, Teketra Sa-cond's Velstra gave 101% (hs. of milk in one day. His sirve dam has a record of 101 Hz. milk in one day. In a presence this bull is remarkable in the stock of the stock of the stock of the stock of milk in one day. In a stock of the length at the same time being low down and well proportiored throughout. In spite of his are he is active and full of vigor and direly as the great constitution that he is transmitting to his get He



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Among the females of note being offere is Counters De Kol 2nd, a four-year-ol A sister of this cow sold at Brown Broa sale for \$1,000. She will freshen on Api 7th. Clintonia Gelsche Sagus, althoug a youngster, is richly bred. Her tw days She stands fith in the Jyear oid list in Canada and first in the Jyear oid list at her age. She shows every indi-cation of developing into an exceptionally fine animal, showing great strength of constitution and pronounced dairy quali-tins. Mr. Anderson believes that she will thus. Mr. Anderson believes that she will reshma negative that the she freshma into the state of the she freshma into the state. Hist in Canada and first in the 5-year of a youngster, is richty bred. Her mit and a severage over 1 ha, while a severage over 1 ha severag



### Four Heifer Calves That Are Good Ones

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many good things that will be offered at this sale. Mr. Elliott's farm is two miles north of York Station on the G. T. B and two miles south of Wexford Statist on the C.P.R.

Your Stock and Sell it

A Week for this

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Ibs. of butter in seven days. (See Gossip of the champion cow May Echo, while under 2 years made a record of 15% (he, in 7 days, 15 is possible that within a day belater Friumch will have more day belater friumch will have more than the living size in Canada Evergreen's De Kol, a ful sister to Vel-stra Triumch De Kol, is a young animal of great promise. For her age she shows a of great promise. You her age she shows a remarkable udder development, plenty of size and strong dairy individuality. Mr Anderson considers her to be a much better helfer at her age than her sister. There are a number of animals in this herd worthy of sgeelal meetion. Ninn De Kol, a half sister of May Echo, has a re-

### May 18, 1011

Evergreen farm comprises some 25 me Evergreen farm comprises some 25 me The farm home and buildings are o modious and attractive. This farm r be entered in Farm and Dairy's fai competition this year.

GREAT SALE OF HOLSTEINS Among the many finely bred Helste being offered by W. F. Elliott, Colem Ont., at his sale on May 23rd is Oakla Sir Maida. This is a young sire that a

### \*\*\*\*\*\*\*\*\*\*\* MARKI \*\*\*\*\*\*\*\*\*\*

to, Monday, M To steady and seasonab sale circles large or are reported. The dairy season has incr try districts.

and y season has her try district neoduce to notable changes this of grain, live stock firm. Eggs are in while the butter mu-unsettied condition e noted last week. Che cent higher than at and demand is brick. Call money here rui

WHE

Wheat prices have weather reports have unfavorable this past unfavorable this past rains in the Western down at Chicago first ports of droughts for went up again. At no the high level reaches weeks been lost. The wheat is being stead the market is almost no matter how favora out may be No. ports may be. No a have been made in lo

> Save of the price range "Don direct from the factor



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FARM AND DAIRY

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### MARKET REVIEW AND FORECAST

Toronto, Monday, May 15.-Trade shows steady and seasonable gains. In whole-sale circles large orders from the west are reported. The opening up of the dairy season has increased trade in coun-

airy elsaton has increased trade in coun-try districts. In farm produce there have been no motable changes this past week. All kinds of grain, live stock and vegetables are firm. Begs are in stronger domand, which is the stock and vegetables are first and the stock of the stock of the metable stronger domand, each tight that the stime last year and demand is brisk.

### WHEAT

WHAT Wheat prices have been non-sawing as weather reports have been favorable or unfavorable this past weak. Report of or aims in the Western States sent prices down at Cheage find of last weak. Re-went up again. At no time, however, has the high level reached in this last two weaks to being steadily dorerased and on the two favorable the to be firm, parts may be. No appreciable changes have been made in local quotations. No.

Northern is quoted at \$1; No. 2, 971/2C 1 Northern is quinted at \$11 No. 2, \$77/sc: No. 3, \$95/sc. Ontario wheat was very strong at \$66 to \$26 th heat of last week, but prices declined towards the ond of the week. Although millers and the strong ing freely, the trade in Ontario buring two encouraging cables. No. 2 winter wheat is quoted at \$66 outside. On the Farmers' Market fall wheat is quoted \$66 to \$66, and goosewheat \$80.

### COARSE GRAINS

COARSE GRAINS The market for coarse grains has been the visit of the changes one way or a the visit of the changes one way or the visit of the changes of the changes of the visit of the changes tations are: cats, Canada Western, 2015 tations, 2015

# 39% to 39%; No. 4, 38% to 39; corn, 60; to 61; barley, malting, 75; to 77; feed, 50; to 51; peas, \$1.05; to \$1.15; buckwheat, 56;

### MILL FEEDS AND MEALS

MILL FEEDS AND MEALS A further decline in mill feeds has been recorded this part two faces in the face of the small and there is their faces moving. Manitoba bran is quoted target faces in the S23; Ontario bran, 823; editors; 8240; Oatmeal is quoted at 82.06 per 90 lb, sack. The Montreal market also is easy with little coming in. Owing to the lateness of the season buyers are cau-tions are: Manitoba bran, 821; shorts, 825; Ontario bran, 825; shorts, 824.

### HAY AND STRAW

HAY AND STRAW The situation in regard to hay in un-termaged. There is a good demand for all so immuts min path, bed us, house hair, 32c; call skins, 16c to 18c; house hids, 52; house hair, 32c; call skins, 16c to 18c; house high so the straw and prices are maintained with difficulty. Contations are as follow No. 1 timothy, 812 to 813; mixed clover and to the straw and prices are maintained with difficulty. Contations are as follow No. 1 timothy, 812 to 813; mixed clover and to the straw straw and prices are maintained with difficulty. Contations are as follow No. 1 timothy, 812 to 813; mixed clover and the straw and prices are maintained with difficulty. Contations are as follow No. 1 timothy, 812 to 813; mixed clover and the straw and prices are maintained to the straw and the straw to all the straw and prices are maintained with difficulty. Contations are as follow No. 1 timothy, 812 to 813; mixed clover and the straw and prices are short of hay and competition for the hay offered on the Nontreal markets is unuauxily keen. The Western States are short of hay and which Canadian have head prices and which Canadian have head to all bits prices and at competi-tion from wester to meet the competition the straw and shortes markets is unuauxily keen. The shortes markets is unuauxily keen. The which Canadian have head to be prices and at store this the Montreal market is being flooded which canadian have head to be prices and the straw are also be the this the Montreal market is being flooded this the Montreal market

### \$13.50; No. 2, \$9.50 to \$12.50; inferior, \$8.50 to \$9.50. SEEDS

 
 SEEDS

 Wholesale seed merchants are selling to the trade at the following prices all sike No. 1.8 in buds. No. 2.89 60, No. 3, 88.75; red clover, No. 1, \$10.50; No. 4, 83.00; No. 5, 88.40; timothy, No. 1, \$700; No. 2, \$6.75; alfalfa, No. 1, \$13.75; No. 2, \$12.26.
 HIDES

 HIDES

 The market for hides is firm at the recent advance. Quotations are as fol-low: No. 1 impected steers and cows, 100; No. 2, %0; No. 5, %0; calf skins, 15c. evered, % to quoted as follows: Hides, evered, % to quoted as follows: Hides, shins, st to \$1.2; imple and to be in the shins, st to \$1.2; imple and to be in the pring lambs, fet to 20c; horse hides, \$2; horse hair, 32c; calf skins, 14c to 15c.

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would cost from \$69 to \$78 it sold by retail stores. Our square doal way of dealing direct with you-and saving you all the profiles made on ordinary ranges-mables you to have a "Dominion Pride" Range for \$41 to \$40. "On the store of the state of the state of the store of the state root of the store of the state of the store of the store of the root of the store of the store of the store of the store of the root of the store of the store of the store of the store and by farming Inplement Makers, because of its superior strength. Cast from Parage store of the store because they are out it root of the right materials, by people who know SAVE OVER S02 OF YOUR FUEL SAVE OVER 30% OF YOUR FUEL

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Ryckman's Corners, Ont. 3 miles south of Hamilton.

### FARM AND DAIRY

the other side, but they were not brought into Canada. \$4.50 to \$4.75. Very little butcher stock was offered. Good indviduals sold at POTATOES AND BEANS

POTATOES AND BEANS Quotations for potatoes have not chang-ed for the last two weeks. The market has been firm on small receipts, but lower prices are looked for when seeding is completed. Wholessle quotations are SI for Ontarios out of store and site to Se Maritime provinces are allow, and the Maritime provinces are allow, and the desipts, haveer, are not large and prices are purely nominal at \$1 to \$1.0 a hag. DARY PRODUCE

DAIRY PRODUCE

Receipts of both butter and cheese are increasing, and in the case of butter further declines are anticipated. The market, however, is on a firmer basis than it was at this time last year when declines of from 5c to 16c were recorded in a short time. declines of from 56 to 16e were recorded in a short ime. Orcamery prints are quoted at 326 to 36c; solids, 21c to 22c; dairy prints, 15e to 16c; The demand is firm of the constant of the second of the second out on the old Country markets. The falling off in the export of New Zealand cheese last sesson also tends to keep cheese prices firm, and quotations are this time last lefter than they were at this time last for area of 35c; and this, 15c. twins, 131/2c.

### HORSE MARKET

HOHSE MARKET Conditions on the horse market remain unchanged-a fair demand, but little Im-provement. Quotations are as follow: Good heary draughters, 850 to 850, and medium weight, 850 to 850, and cultural horses bring 816 to 820 and horses are quoted 8170 to 830, drives, 8159 to 850; and sadders, 8160 to 8365.

### LIVE STOCK

LIVE STOCA stock markets opened with a snap k ago to-day. Consignments were large and were cleaned up in good large aviews were fully 10 cents a week ago to-day. Consignments were fairly large and were cleaned up in good time. Top prices were fully 10 cents higher than on the Monday previous, and higher than on the Monday previous, and heavy export cattle sold well under en-couraging cables from the Old Country. Most of the export stock offered was of splendid quality. A feature of the trade was the selling of 15 loads of Michigan steers at an average price of \$5.10. The wave the present from entitide nonixit.

teers at an average price of \$6.10. The demand for buckher catile was also good, buyers being present from outside points. Firm price on light deliveries is the whole story as far as the rest of the week had deliveries been at all liberal prices would not have been maintained. At the last market of the week a few loads sold at \$6.65 to \$6.10, but the general price for heavy was \$5.50 to \$8.0. have been at all liberal prices have no fars of a good mand. Drovers have no fars of a good market for their butcher cattle. As much cannot be aaid for the export trade. Apparently 01d Country prices cannot be depended upon, cables report trade. Apparently 01d Country prices cannot be depended upon, cables report trade. Apparently 01d Country prices cannot be depended upon, cables report trade. Apparently 01d Country prices cannot be depended upon, cables report adde. Apparently 01d Country prices cannot be depended upon, cables report of the week were: Export demand for stockers is good, but none are offered. As high as \$55 has been offered for short keep steers. Quotatious at the dlose of the week were: Export \$5.85; bulls, \$5 to \$5.15; butcher cown, choice, \$5.40; bulls, \$4 to \$5.15; butcher cown, choice, \$5.50; bulls, \$4.50; butcher cown, choice, \$5.50; bulls, \$5.50; butcher cown, choice, \$5.50; bulls, \$5.50; butcher cown, choice, \$5.50; bu

Trade in milch cows is not so brisk as it has been. There is a fair demand for first class cows, but inferiors are not wanted. Mikers, choice, 860 to 885; com-mon to medium, \$30 to \$50; springers, \$25 to \$60.

825 to 880. Lack of a steady supply has lessened demand for mutton, and butchers have turned to beef and pork where they are certain of getting what they want. Eves are quoted at 475 to 855; bucks and culls. 83.25 to 84; spring lambs, each. 83 to 85.59; versiling lambs, excl. 85.60 56.60. Veal calves are not as plentiful as they were two weeks are and price

86.6. Yeal calves are not as plentiful as they were two weeks ago, and prices are firm at \$4 to \$6.0. During the carly part of the week logs prices at Chicago attraction \$5 for at counter prices at Chicago attracted is cents, which increased values locally. On the closing prices at Chicago attracted is cents, which increased values locally. On the solution intro work and \$6.15 on the market. At Montreal the cattle market weakence the first of last week and prices cortinued stady at the deeline. Demand was choice steres selling at \$6.25; good, \$5.75 to \$6; fair, \$5.75 to \$5.50; and common,

94.50 to \$4.75. Very little butcher stock was offered. Good indviduals sold at \$5.55, and lower grades down to \$3.50 according to quality. Sheep and lambs according to quality. Sheep and lambs according to quality. Sheep and lambs according to quality. Solved at \$4 to \$7 each. Solve ext and lambs at \$4 to \$7 each. prices rule down at \$2 to \$5 each.

### MONTREAL HOG MARKET

Montreal, Saturday, May 13.—A stronger feeling developed in the market here for live hogs this week, and prices advanced 25c to 50c over those current a week ago, due to the small service of the state 226 to 56e over those current a week ago, due to the small supplies and three good demand from packers and the good of selected to the bing made has a first \$7.25 a cvt. weighed off cars. It is doubtful if these prices will be main-tained, as the Western markets this week are ruling coniderably lower. The mar-ket for dressed hogs is also closing firmer, with fresh killed abbatoir stock quoted at \$9.20 to \$9.75 a cvt.

### EXPORT BUTTER AND CHEESE

Montreal, Saturday, May 13 .- The market for cheese opened firm with prices practically unchanged from those current last week, the markets at Campbellford and Stirling selling at 11/20 to 112/20 a lb., but orbho zdding at 11/20 to 112/20 a lb., and writes, use middle at 11% to 11% to 11% to 10% to 11% to 10% to 11% were we may combinently expect still movement being bound to continue with the demand for export comes on in suffi-cient volume to absorb the receipts from the factories. The shipments last week aminined to hardly L&O botts, a very aminined to hardly L&O botts, a very fibe year. The receipts amounted to illow boxes, a decrease from the corre-sponding week last year instead of the increase which was confidently expected, on, and there is no doubt that the re-ceipts after this will be more on a parity. The butter market is very firm and the week is closing with all dealers practi-erest bulk of the receipts having been used to fill orders coming from the west, sufficient husmes having been area to an orders county from the weak, afficient business having been done there to maintain prices, and, in fact, to bring about an advance during the past fore days, as high as 25% having been paid for facey fresh goods. The receipts are increasing very rapidly, how-eer, and a serious break can be looked for almost any day

### CHEESE MARKETS

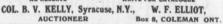
Farnham, Que., May 8.—Eight factories offered 179 boxes of butter. No cheese. 109 boxes of butter sold at 221/60; 70 boxes nt 22c

Campbellford, May 9.-Four hundred and seventy boxes boarded; all sold at

Stirling, May 9.-Four hundred and seventy-one boarded, 280 sold at 11%c, balance at 119.16c.

balance at 119-16c. Brockville, May 11.-1,406 colored and 770 white were boarded. The sales were: 150 white and 320 colored at 11%c. No more was paid on the curb. Day sales

LARGE CLEARING AUCTION SALE Holstein Friesian Cattle, Clyde Horses, Other Farm Stock and Implements **48-REGISTERED HOLSTEIN CATTLE-48** (44 PEMALES, 4 BULLS) 6 Grade Cows, 5 Clyde Mares, from 1 to 5 years old, and a number of other horses. Also Holstein-Friesian Herd Books TUESDAY, MAY 23rd 1911 The property of W. F. ELLIOT, at the farm, 2 miles north of York Sta-tion G.T.R. Main Line; 2 miles south of Wexford flag Station, C.P.R. Sale to commence at 9 o'clock. If necessary provision wil be made for holding sale under cover, NO RESERVE WRITE FOR CATALOGUE



### May 18, 1911

all white, which sold at 11% and 111 if Kingston, May 11.-459 boxes of white and 53 or colored boarded. Sales were made at 13% and 11%. Alternative solution of the solution of the solution of the solution of the Alternative solution of the solution of Alternative solution of the solution of the solution of the solution of Napowership all sold at 11%. If our one is all sold at 11% of the solution of white cheese boarded; 1113.16c offered as also.

sales. Picton, May 12.-17 factories boarded & white and 961 colored. Highest bid 11 3-16c; 776 sold at 11 3-16c, 165 at 11'-c. London, Ont., May 13.-Five factories offered 406 cases; 75 white, balance color ed: bidding, 11e to 11%; no sales. St. Hyacinthe, Que., May 13.-Five hun

81. Hynchithe, Quee, May 13.—Five hus, dred packages of butter solid at 212: co Lowannelle, Gute, May 13.—Hwents one Cowannelle, Gute, May 13.—Hwents one ter, Sales: 339 packages of butter, ter, Sales: 339 public, and 70 puck-ages of butter, 161 packages of hu-ages of butter, 161 packages on ages of public, and 70 puck-ages un 21%. Number of packages un sold, 185.

sold, 195. Canton, N.Y., May 13.—Twelve hundred tubs of butter sold at 21½; 1,000 boxes cheese, at 10½c. Output more than last week. Dairies all out to pasture, and doing well.

Watertown, N.Y., May 13.-Cheese sales, 5,000, at 10c to 10%c.

### HOLSTEINS "LES CHENAUX FARMS"

VAUDREUIL, QUE. HOLSTEINS-Winners-in the ring and t the pail. Gold Medal herd at Ottawa

nir. They combine Conformation and Pro. du

on. I and Heifer Calves from our win-for sale. Bull DR. HARWOOD, Prop. D. BODEN, Man.

### AYRSHIRES

### AYRSHIRE BULLS

Young Bulls all ages up to one year. hree fit for immediate service, all from R.O.P. stock. Write for prices. JAMES BEGG. ST. THOMAS, ONT. R.R. No. 1

### MISCELLANEOUS

TAMWORTH AND BERKSHIRE SWINE. Boars and Sows for Sale. J. W. Tod Corinth. Ont. Maple Leaf Stock Farm

### HOLSTEINS AND TAMWORTHS

FOR SALE-Seven bulls from 6 months to 15 months; 65 pigs either sex, all ages; write for prices. Phone in residence con-nection via Cobourg. nectio BERTRAM HOSKIN. The Gully, Ont

TAMWORTHS AND SHORT HORNS FOR SALE

Reveral colos young Some sired by Imp Boar, dams by Colvell's Choice, Canada bred to young stock host. Also a few ma tured sows. A few very choice yearing and two.resrold Shorthorn heffers. Fire class family. Excellent milking strais Prices right.

A. A. OOLWILL, Box 9, Nowaastle, Ont CHOICE PURE BRED CHESTER WHITES Two sows of 10 months (in pig) one

Bel'eville, May 11.-1.500 boxes of cheese.

### THOROLD. O SUNNYD/

Offers something good, of De Kol Plus, Champion formance cow of 1910, also of Pieterje Hengervelds Tormance cow of 1910, also f Picterje Hengervelds from official dams at low A. D. FOSTER, BLO

### Cows War

to 12 Holsteins, due cash price with particula BOX 317, COCHRAN

### Lynden Ho

Am offering bulls and sale, all ages from dams as 67 lbs, a day, and fro lbs, butter each in 7 da cows, and testing over 4 write for particulars. Pr SAMUEL LEMON. LYNE

### HOLSTEIN BULL

Netherland King De Ko is a nice animal, 4 years marked. Perfectly quiet way. Dame's record 91% 605% lbs. in 7 days. H. D. COONS, - LAK

A few o N for sale; s old. Son Girl De K and gran 22nd. Recently tube . T. S. a II. S. Inspector. grees and prices. WOODCREST

RIFTON: ULSTER CO.,

May 18, 1911

WOODCREST I

HOLST

**GLENSPRING** ix fine pure bred bul 10 weeks old. Every ly tested dam. Color ry taste. Those that ly tested dam. Color ery taste. Those that ood secure one of Con ose that wish Carme sch blood secure one ets Posch. Prices mod

B. MALLORY, FRA MOTHERAL'S HOLSTE

MOTHERALS HOLSTE First. 16 Second. 8 Thin Herd's under expert choice bull calves for JAMES MOTHERAL. WO DRUMBO ST/

### RIVERVIEW

Offers Bull Calf born F Sire Sir Aaggie Beets Se pedigree average 25.60 lbs P. J. BALL Laci

# BUY SUMMER HIL More high record cows in any other in Ganad present five heifers and over 37 los. butter in 7 ds Present offering:--1 Buil Calf from a 27 1 Buil Calf from a 25 lb

1 Buil Calf from a 20 ID year old. 1 Buil Calf from a 20 II These are all sired by 5 by (4171) our herd Buil. World's Record Senior ty year old for 7 days, an record 4 year old for 7 set the Herd. Trains me advised. Bell Phones 2071. Hamilton

D. C. FLATT & SON, -

Choice ball calves by i and Aaggie De Kol chan Performance cow for 1909 buiter. 880 lbs., and out Record of Performance cords from 10,000 to 13,00 from aged Record of P with records from 14,000 t Write for particulars.

J. M. VAN PATTER & SO Bural Route No. 1

Are bred with a view to ation as well as heavy pu stock of that class for dence and personal insp

MONRO & LAWLESS, ET

Elmdale Ho

WOODLAND HO

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for sale; six to ten months old. Sons of Homestead Girl De Kol Sarcastic Lad, N and grandsons of Pietje 22nd. Recently tuberculin tested by 5 II. S. Inspector. Write for pedi-grees and prices.

WOODCREST FARM RIFTON: ULSTER CO., - - NEW YORK

### **GLENSPRINGS OFFERS**

Bit fine pure bred buil carres from two to 19 weeks old. Every one from an offic-list's week old. Every one from an offic-list's week offic. The service from the blood secure one of Count Gerben's some Those that wieh Carmen Bilva and Alta Pach blood secure one from Inks Bilva Beet Poch. Prices moderata.

E. B. MALLORY, FRANKFORD, ONT.

MOTHERAL'S HOLSTEINS have won 16 First. 16 Record. 8 Third and 2 First for Herd's under expert judge. We have choice bull calves for sale. JAMES MOTHERAL. WOLVERTON, ONT. DRUMBO STATION

### RIVERVIEW HERD

Offers Bull Calf born February 14th, 1910, Sire Sir Aaggie Beets Segis. Six dams in pedigree average 25.50 lbs, in seven days. P. J. SALLEY 4 10.10

Lachine Ranids, Que

BUY SUMMER HILL HOLSTEINS More high record cows in our herd than in any other in Canada. We have at present five helfers and cows averaging over 27 lbs. butter in 7 days. Present offering:-

1 Bull Calf from a 27 lb. dam. 1 Bull Calf from a 25 lb. Junior and four

1 built can rrout a so to sum or and rout 1 built can from a 20 lb. three year old Thuil call from a 20 lb. three year old y (47) our head Built. The size of our world's Record Schoor two year old for yearly work, our Canadian record three record 4 year old for 7 days. Come and see the Herd. Trains met at Hamilton if sorted. Beil Phone 347. Hamilton. R.F.D. No. 2

D. C. FLATT & SON, - HAMILTON, ONT.

WOODLAND HOLSTEINS Cholos bull caives by a son of Mether land Aagrie De Kol champion Record of Performance even for 1990, mill El,666 hea, huiter. 600 hea, and out of two year old Record of Performance heafters with re-cords from 18,000 to 18,000 hea, milk, and with records from 14,000 to 18,000 hea, milk Write for particulars, to 18,000 hea, milk Write for particulars.

J. M. VAN PATTER & SONS, Aylmer, Ont Rural Route No. 1

### **Elmdale Holsteins**

Are bred with a view to correct conform-ation as well as heavy production. Young stock of that class for sale. Correspon-dence and personal inspection solicited. dence and personal inspection solicited. MONRO & LAWLESS, ELMDALE FARMS THOROLD, ONT.

### SUNNYDALE

Offers something good, two grand sons of De Kol Plus, Champion Record of Per-Yormance cow of 1910, also two grand sons of Pieterje Hengervelds Count De Kol, from official dams at lew mission from official dams at low prices. A. D. FOSTER. - BLOOMFIELD. ONT.

### **Cows Wanted**

12 to 12 Holsteins, due to calve. Lowest cash price with particulars, free on rail. BOX 317, COCHRANE, ALTA.

### Lynden Holsteins

Am offering bulls and bull calves for sale, all ages from dams milking as high as 57 lbs, a day, and from 20.46 to 25.17 lbs, butter each in 7 days for full age coss, and testing over 4 per cost. fat. Write for particulars. Prices reasonable SAMUEL LEMON. LYNDEN. ONTARIO

### HOLSTEIN BULL FOR SALE

Netherland King De Kol No. 6231. He s a nice animal, 4 years old, beautifully aarked. Perfectly quiet and right every ray. Dame's record 91% lbs. in 1 day, 6% lbs. in 7 days. way. Da 606% 1bs H. D. COONS,

FARM AND DAIRY

### LAMBTON CO., ONT.

LAMBTON CO., ONT. WYOMING, May 11.-A large number of farmers are purple and and an another of the factories in Michang an. Mr. Smith, of Winoma, is building an. Mr. Smith, of Winoma, is building an. Mr. Smith, gatory at Petrolla. The area canning \$7 and \$7.59 a ton for corn, \$21 and tor peas, and 27 cents a builded for ton matoes. We would like to hear from other farmers how these prices compare with theirs. Cows have been selling from 850 to \$80; horses, heavy enough for work, from \$200 to \$303-D, N. A.

### BRITISH COLUMBIA

NEW WESTMINSTER DIST., B.C. NEW WESTMINSTER DIST., B.C. OHILLUWACK, May 3.-Grass is grow-ing very fast. Cows stay out at nights. Crops are up. Eggs have advanced in price. Potators have also taken another stride. The snow on the mountains is nearly all gone. Labor is high and hard to get.-J. C.

### GOSSIP

COUSSIP One of the finest trophics ever offered for ear corn is that donated by the In-ternational Harvester Company of Ame-ica, to be given for the best 30 ears of corn at the American Land and Irriga-tion and the American Land and Irriga-tion of the Amer

The Canadian Porato Machinery Co., Ldd. of Galt, Ont., have recently an nounced that they are adding to their line of O. K. Canadian machinery, a line of O. K. Canadian machinery, a The line or tanchand stable auplices. The line or tanchand stable auplices have a shich they are now putting on the market have for arone time been manufactured by Mr. Rush, of Preston, and Mr. Rush has been retained in the emilibry of the company to look after the emilibry of the company to look after the stable and the stable and the stable and thet assures have for more and for an even better than Mr. Rush was formerly putting out. putting out.

As an evidence of the sylidatory re-mile of feeding Molassine Meal, manufac-nured by The Galdwell Feed Co., Ltd., of feressed One. the following leiter ad, feressed One. the following leiter ad, plains itself: "We have loss and consider able of your molassine to as herd the heantal, where we keep quite a herd the heantal, where we keep quite a herd The most part model for the many test model is the many test model i



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### Lyndale Holsteins

We are now offering two young bulls fit for service, one from a 20 lb. Junior 3 year old and sired by a son of a 22.87 lb. cow. Both bulls are good individuals light in color.

BROWN BROS., - - LYN, ONT.

### LAKEVIEW HOLSTEINS

LARKTIKW IVLOTICING Tours builtorn June Sith, 510, 617erd, Te is sired by Count Hengerveld Payme be Wol, whose sire Pieterie Hengerveld De State Site Sith Sith Sith Sith Sith and Whose dam is \$5 A.E.O. damghters and whose dam is \$5 A.E.O. damghters and whose dam is a bar in the sith and storm good individual his own dam as extra good individual his own dam wilk thing should the 1100 lb. mark in milk thing should be 1000 lb.mark in milk t E. F. OSLER. Telephone. BRONTE

## FAIRVIEW FARMS HERD

PARVIEW FARMS HERD — "IAS POR SALE—" Sons of Pontias Korndyks, site of the rownds record cow Pontias (Otchilds Die the site of seven daughters where 7 day roomds average 31.31 bits each, usequalide bread, living there of any other site of the bread, living there of any other site of the the site of seven daughters where 7 day roomds average 31.31 bits each, usequalide bread, living there on the site of the the site of seven daughters where 7 day roomers thull of the bread to site a 30 bits daughter. Where the metrics and the seven daughter daughter where show metrics are on the seven daughter where the metrics are on the seven daughter daughter where the metrics are seven daughter daughter daughter where the metrics are seven daughter daughter daughter where the metrics are seven daughter daughter daughter where daughter daughter daughter daughter where daughter daughter daughter daughter where daughter daughter daughter daughter where daughter daughter daughter daughter where daughter daughter where daughter daughter daugh

bords that average for the two M.41 ins. each. We have in service, and can offer you sen of the bighens Columbia Gladi se fenereveld De Kol. 114 A.B.O. daughlers, four over 80 lbs. each. This young site is a fereneveld De Kol. 114 A.B.O. daughlers, four over 80 lbs. each. This young site is a fereneveld De Kol. 114 A.B.O. daughlers, a fereneveld De Kol. 116 A.B.O. daughlers, a fereneveld De Kol. 116 and and a fereneveld De Kol. 116 and a fereneveld bigher than thas of a lbs. each which is breed. Let me send you breeding and quote price on any thing you want in fre-breed. Let me send you breeding and quote price on any thing on the fereneveld and the fereneveld De Kol. 116 and 116 and

BREEDER'S DIRECTORY

CLYDESDALE HORSES. SHORTHORN CAT TLE-Large selection of best stock. Prices reasonable.-Smith & Richardson, hreeders and importers. Columbus, Ont.

HAMPSHIRE PIGS-Canadian champion herd. Boar herd headers. Bows three months and under.-Hastings Bros. Crosshill, Ont.

CLYDESDALES-Many by that great sire Acme. (Imp.) Write us. E. M. Holby, Manchester P.O., and O.T.B. Station, Myrtla C.P.R. Long Distance Phone.

DR. LEE'S COMPOUND.ABSORBENT SPA-VIN BLISTER-Gures, Reientifically cor-rect. Write The Absorbent Spavin Blist-er Co., Toronto. Ont.

# NOVA SCOTIA

### ANTIGONISH CO., N.S.

ANTIGONISH CO, N.S. ANTIGONISH, May 2-There has been no seeding done, but the lass few days has been very fine, and if is contines there will be a considerable amount done this week. The annual horse fair was held on May 2nd. There was a good turn-out of colis, particularly of the draft. class. Prizes were placed by R. Robert-son, of the Experimental Farm, Nappan. -Tom Brown. ONTARIO

DISTORTED ONTARIO FIRTH CO., ONT. ' LISTOWEL, May 11.-Prom reports of farmers in this vicinity the fail wheat that the last snowfail was result. It was that the last snowfail was result to the proving in acattered patches.

NORTHUMBERLAND CO., ONT.

NORTHUMBERLAND CO., ONT. WICKLOW, May tht-Spring work is nearly done. Clover is almost as com-plete failure. Winter wheat appoar un-usually good and but little winter killed. Much more interest in orchard appraying is taken than ever before. Stock has wintered exceptionally well. Hogs are los in preserved in the stock of a still lower press. - El.0.

HALIBURTON CO., ONT.

BALIBURION CO., ONT. KINMOUNY. Seeding have 1-Very warm and dry. Beeding have 1-Very warm and dry. Beeding have 1-Very warm and the ground works well. In fall swing. Taplid growth. Cattle were turned out on the 24th, requiring very little feed alone. The lamb erop promises to be large. The former high price caused a large number of gows to be bred. The group the price laws to be dred. The group the price laws to be dred. The group the price laws be bred with American eggs. The first rain since the snow dis-appeared came on the 29th-S. T. OXTABLO CO. DAY

### ONTARIO CO., ONT.

ONTARIO CO., ONT. WHITDY, May 11.-Mr. J. H. Hare and Mr. T. A. Benson, recently organized a cooperative poultry circle here. The directors for the Whitby circle are: H. C. Obsone, E. T. Phills, David Bath, G. C. Obsone, E. T. Phills, David Bath, G. C. Casten, E. T. Phills, David Bath, G. Hare pointed out the large base, which are sustained by poultry keepers under the present system of marketing, and sug-corted cooperation as a renedy. Mr. Benson gave much practical information or hole care of fork.-T. B

on the care of fowlm-T B BROOKLIN, May 10-Poultry keepers are very enthusiantic over the new method of marketing eggs that is being the second second second second second tive. We have recently out represents tive. We have recently the second second operative poultry circle at Brooklin with Mr. Jos. Barnet as ehsirman, Norman White second second second second white second second second second white second second second second second culter as directors. A. C.

### WENTWORTH CO., ONT.

WENTWORTH CO. ONT. KIEKWALL, May 6-The hast week of April vas very warm and dry. A great the meadors, padore a the lind and the meadors, padore a the lind and made rapid growth. A large acreage of spring grain was sown, but very few have finished apring seeding. Fall wheat looks better than it has for several year, looks better than it has for several years. Several farmers seeded a field to a that several inches high. Quite a large acre-age will be sown to corn this year. Several gray stock has been turned out innue low in price. Six cents per h. is the highcet that has been paid as yet. Young cattle and milch cows are scarce and hich. Hors are down. A number be privated their lambs received To ab. Friete the loss received to a short \$25. real short \$25. C. A. F. OXDED CO. ONT.

### OXFORD CO., ONT.

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S UPPOSE your friend Bob Wilson, on the next concession, "pulled up" at your front gate on the way back from market

and asked you about that silo or barn foundation you built, you would be glad to tell him, wouldn't you? And it wouldn't take you long either, would it? And, as a matter of fact, you'd find as much pleasure telling him as he would in listening-isn't that right?

First, you would take him over to view the silo or barn foundation. Then you would start to describe it- its dimensions--the kind of aggregate used--the proportions of cement used--number of men employed--number of hours' working time required-method of mixing--kind of forms used--method of reinforcing, if any--and finally, what the job cost. So that by the time you finished, neighbor Wilson would have a pretty accurate idea of how to go about building the particular piece of work which you described.

Now, couldn't you do the same for us, with this differencethat you stand a good chance of getting well paid for your time?

In Prize "D" of our contest, open to the farmers of Canada, we offer \$100.00 to the farmer in each province who will furnish us with the best and most complete description of how any particular piece of concrete work shown by photograph sent in was done. The size of the work described makes no difference. The only important thing to remember is that the work must be done in 1911, and "CANADA" Cement used.

In writing your description, don't be too particular about grammar or spelling or punctuation. Leave that to literary folk. Tell it to us as you would tell it to your neighbor. What we want are the facts, plainly and clearly told! Sounds simple, doesn't it? And it is simple. And surely it is well worth your while when you think of the reward in view.

Now, sit right down, take your pen or pencil-fill out the attached coupon-or a post card if it's handier-and write for the circular which fully describes the conditions of this, the first contest of the kind ever held in Canada.

Every dealer who handles "CANADA" Cement will also be given a supply of these circulars—and you can get one from the dealer in your town, if that seems more convenient than writing for it.

Contest will close on November 15th, 1911-all photos and descriptions must be sent in by that date, to be eligible for one of these prizes. Awards will be made as soon as possible thereafter. The decisions will be made by a disinterested committee, the following gentlemen having consented to act for us, as the jury of award: Prof. Peter Gillespie. Lecturer in Theory of Construction, University of Toronto: Prof. W. H. Day, Professor of Physics. Ontario Agricultural College, Guelph; and Ivan S. Macdonald, Editor of "Construction."

Having decided to compete for one of the prizes, your first step should be to get all the information you can on the subject of Concrete Construction on the Farm. Fortunately, most of the pointers that anyone can possibly need, are contained in our wonderfully complete book, entitled "What the Farmer Can Do with Concrete." A large number of Canadian farmers have already sent for and obtained copies of this free book. Have you got your copy yet? If not you'd better send for it to-day. Whether you are a contestant for one of our prizes or not, you really ought to have this book in your library. Plo end full For it contains a vast amount of information Darticulars and hints that are invaluable to the farmer. and book

Name

Addres

