

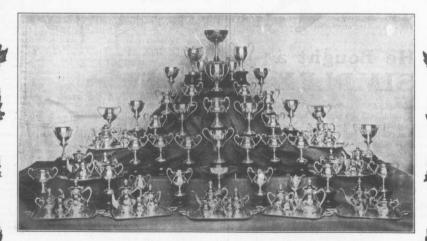
VOL. XXIX.

NUMBER 13.

RURAL HOME

PETERBORO, ONT.

MARCH 31, V 1910.



SOME OF THE PRIZES AWARDED IN FARM AND DAIRY'S PRIZE FARMS COMPETITION

Would you not like to own one of these prizes? They are the cups that were won last year by those farmers who competed in Farm and Dairy's prize farms competition. The province was divided into four districts, fifteen prizes being awarded in each district. This year the final competition covering the whole province is being held. Next year we purpose holding another competition that will again be open to the province, excepting only this years prize winners. The giving of these handsome prizes was made possible by the liberal cash contributions towards the expenses of the competition given by Dr. Jas.

W. Robertson, by the De Laval and Empire Cream Separator Companies, Mr. E. G. Hen.

derson, of Windsor, and the Goold, Shapley & Muir Co., of Brantford.

DEVOTED TO

BETTER FARMING AND

GANADIAN GOUNTRY LIFE

He Didn't Blame the Cows

He was one of these mer who look for a reason for everything. When the cheese factory closed, and he started using a separator and sending his cream to the nearest butter factory, his pay cheques were not as large as he thought they should be. He investigated. His cows were milking well. He was getting a good price for his cream. Evidently he was not getting all of the cream. He decided to get a new separator. What make should he buy?



to the merits of a number of

He Bought a SIMPLEX

He was delighted with the results. The size of his pay cheques increased. His new separator turned easier than any other separator he had ever handled. He was never troubled with the bowl getting out of balance, because it was fitted with the SELF-BALANCING BOWL, an exclusive feature of the "Simplex" Separators. His wife was delighted, too. The new separator could be washed in half the time it took to wash the old one.

When buying a separator, be sure that you get a "Simplex." Have one sent you for a month's free trial, and prove for yourself that it is the best machine made. Write for our illustrated booklet.

D. Derbyshire & Company

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

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e, the largest, exclusive and the only bona-fide Independent Telephone tebboard makers in Canada or Great Britain. Telephones are extensively used in Canada, England, France and by the vergment.

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It is desirable to mention the name of this publication when writing to advertisers

Warning to Buyers of Seed

Editor, Farm and Dairy :- Instances have come to light this spring of cer-tain dealers offering so-called pedi-greed seed for sale, when such seed is of very doubtful quality and of uncerof very doubtful quality and of uncertain origin. Every spring we hear of cases where farmers were been induced to buy such secend duced to buy such secend that they have been dupper. The is only one recognized bureau of tration of seed in Canada and that bureau is located at the headquarters of the Canadian Seed Growers' Association at Ottawa. ation at Ottawa.

sociation at Ottawa.

To be oligious as pedigreed or registered seed, all seed mut be grown according to the Association and mut be of the Association and mut be of the Association and mut be of the entire quality considered by the Execution 1 on the entired to public recognition. All entired to public recognition. All entired to public recognition of the Association muts be accompanied by a certificate of registration. Buyers who desire registered seed the according this state that these certificates accompany such seed, otherwise they are company such seed, otherwise they are

should mask that these certificates ac-company such seed, otherwise they are leaving themselves open to the trick-ery of the seed sharp.—L. H. New-man, Secretary C.S.G.A., Ottawa.

Leaves Experiments to Public Institutions

Ed tor, Farm and Dairy-I was Ed tor, Farm and Dairy—I was pleased to note in a recent issue of Farm and Dairy a few romarks by J. Kerr, particularly a few romarks to gard to our experimental facus asy "ours" because I think means institutions are supported by the Government for research and experimental work in order to benefit us farmers.

Too many of us look upon these institutions as simply a bill of expense to the country. This view is held on account of the ignorance of farmers regarding the benefits which these institutions confer upon some of us directly and upon us all indirectly. ds directly and upon as all indirectly. For instance, many farmers are growing every year varieties of grain that have been originated or imported and distributed by these very same farms which they despise.

If those who already do not do so

If those who already do not do so would write to the Department of Agriculture for their free bulletins and reports, and put the knowledge therein contained into practice, our experimental farms would become

ore popular. Like Mr. Kerr, I too have been Like Mr. Kerr, I too have been humbugged with potatoes. One spring I sent for a number of varieties, and must have received them from the same bin that he did. At any rate, in the fall I had a barrel of scably potatoes, and my exprisinges since the same bin that he did. tatoes and my experience, since which I intend to let our experimental farms experiment for me.—James Ferguson, Carleton Co., Ont.

Silo Corn for Carleton Co., Ont.*

L. H. Newman, Sec. C. S. G. A., Ottawa.

Successful dairying in the county of Carleton depends very largely upon soiling crops, and corn is the best crop for soiling purposes. In Carleton the silo is evidently gaining in oppularity. The great question for the corn grower is what variety will give the greatest food value per acre. A good ensiling variety is one that A good ensiling variety is one that a contract of the corn of the corn of the corn of the corn of the corn, but these many different varieties of corn, but these ferent varieties of corn, but these parts of the corn, but t Successful dairying in the county

ly, Flints and Dents. The dent varieties are natives to southern districts, The dent varieties are natives to southern districts, where the growing season is much longer. They are characterized by deep kernels with a rough or dented crown. The shallower the kernel, the sooner will the ear mature. This is the reason why our shallow kernelled

flint varieties will mature so much earlier and may, in fact, be matured in our northern climate.

In our northern climate.

The dent corns, as a class, produce
a heavier foliage than do the flints,
and where early maturing types may
be precured, these should give the
greatest amount of good ensilage per
acre, especially on the lighter earlier
soils. Where the season is late and
planting is delayed until early June,
it is not recommended, however, that

us oils. Where the season is lateraled soils. Where the season is lateraled planting is delayed until early Janting is delayed until early the depended upon. In Carleton county, corn has only about 114 days to grow the season of the side of the season of the side of the led by the fine appearance of the fodder in some of these late varieties. They should keep in mind that an ear They should keep in mind that an ear of the should be s

The following varieties are recommended for the country of Carleton: Compton's Early Dent. Early Learning and Early Mastodon also give good satisfaction as unitable and seed of the right quality is also and carly of the country of

Dairying Brought Up-to-date

Editor, Farm and Dairy-In going Editor, Farm and Dairy—In going through the country I cannot help but notice that many farmers who used to let their cattle browse all day around the straw stack have changed their method of caring for their stock their method of carring for their stock and now upon entering their stables we find their cows all lying comfort-ably in their stalls with water basins

In many cases a fine pure bred dairy bull is kept and he is given the run of a box stall. The scrubs are out of date. In fact, the only scrub that is of any use about a dairy is the scrub-brush.

the scrub-brush.

The erection of so many fine new
The erection of so many fine new
milk houses in the dairy districts is
conclusive evidence that the dairy inclustry is becoming more and more a
dustry is becoming more and more a
dustry is becoming more barn buildseience. In these buildings, which
acre separated from the barn buildings, all dairy utensils may be kept
in a perfectly sanitary condition, and
the milk is handled in a manner that
would certainly prove encouraging to would certainly prove encouraging to would certainly prove encouraging to the dairy instructors who have so faithfully endeavored to forward the cause of the dairy industry. I true, that the day is not far distant when our own fair province will occupy first place in this interest.—M. L. Haley, Oxford Co., Ont.

hi

The success of the short courses in The success of the short courses in Waterloo County was due in a large measure to the fact that the local Farmers' Clubs co-operate with the Dist. et Representative. The members where the growing season is much onger. They are characterized by deep kernels with a rough or dented rown. The shallower the kernel, the sooner will the ear mature. This is the reason why our shallow kernelled.

*An extract from an address delivered at Kinburn on the evening of Feb. 28. 910. much

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ially and overlook numerous defects on the part of

the producers.

When a man- a buttermaker-has about 300 farmers to please, not to mention the buyers and the consumers who are becoming more critical every year, he must needs be master of the situation. Again, to run a large creamery a butter-

maker must be an engineer and a mechanic of no



No. 13

Only \$1.00

a Year

DAIRYING, FROM THE BUTTERMAKERS' STANDPOINT H. B. Lowe, Waterloo Co., Ont.

The Buttermaker must be a Man of Many Parts. Some of the Problems He must Contend With. Points Wherein Producers-Farmers-May Well Pay Close Attention and Co-operate with the Buttermaker. AIRYING is the leading branch of Canadian Agriculture to-day. Its products are valued at nearly \$100,000,000. Stop and think of this enormous sum! When we consider that Canada is only as yet in her infancy we may well look with pride towards the glowing future that the dairy industry has before it. For a buttermaker to look at the situation from his standpoint it should cause his chest to swell with joy to think that he is engaged in such a business. To him it is not only a business, but a trade, a

science, a profession, accompanied by much hard labor and anxious thought. Dairying is full of

problems, which come almost daily to the lot of the buttermaker. The average farmer looks upon dairying merely as a side issue. He looks upon the creamery as a convenient place to send his cream during the summer when it becomes too hot for him to churn at home, or when too busy with other work to attend to it; and when prices at the corner store or on the market for dairy butter fall below zero Farmers look upon the buttermaker as one who is in that position simply be-

Each Week

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cause he is not employed in some other calling and I have often heard them remark: "what a snap

those creamery men have.' A BUTTERMAKER'S LIFE WORK From the buttermaker's standpoint it is quite to the contrary. Dairying is or should be the object of his life's energies and interest. He must take an

active interest in all its

branches. He must know

all the minute details of his work both practical and theoretical and work out his knowledge to the best of his ability. He must know the markets of the world. He must buy right. He must sell right. He must be progressive, tactful and honest in dealing with his patrons. He often has to listen to a great deal and say nothing or if he does reply, he must soften his speech very mater-

small means; for, unless he has an engineer to do the work, he is often called upon to do repairs to engine, boiler or machinery. In brief, a butter-

maker must be almost a genius, to do what is sometimes expected of him. BLAME FOR THE BUTTERMAKER A certain farmer complains that his herd is making only about \$2 a cow per month. He at once blames the buttermaker, who advises him to test each cow individually for a month or a year and find out what they really are doing This, the farmer complains, would be too much expense, and would take up too much time. When

asked what treed his cows are, he replies: "Oh,

just common grades of no particular breed." When

it is essential that the buttermaker know what he is talking about. He can do a great deal of good service by visiting his patrons, or by having a friendly talk with them when they come to the creamery. It has been said that "the less the patrons know about the business the better it will be for the manufacturer." This may be the case with a creamery owned by a private individual. but not so with a co-operative concern. I find from experience that the more the farmers know of the detail and working of the business.

the greater will be the interest taken in it, and they then have more confidence in the buttermaker and management. I regret that I was unable to be present at the creamerymen's meeting held at Guelph in December last when the question of "covering the other fellows territory," came up for discussion. It is

not always the buttermaker who is to blame for this kind of work. When he is hired by a proprietor or a creamery company, he is expected to canvass for and get as

much cream as possible providing that the cream will pay for the handling.

DAMAGING OPPOSITION Opposition to a certain extent is good for trade, but when carried to extremes it is the forerunner of evil, and the downfall of either one or the other -"the survival of the fittest." It would be far more pleasant for the buttermaker if the farmers in a given territory could be prevailed upon to produce more cream and thereby enable the haulers to secure a load without the long drives which some of them have. Then there would not be any necessity for covering or overlapping the ground covered by a neighboring creamery. Prof. Dean hit the nail on the head in his ad-

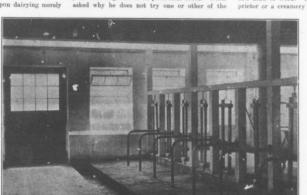
dress to the dairymen at St. Thomas in January, when he said: "We want more cream per cow per acre and more butter-fat per gallon of cream." It is to be regretted that more producers do not

avail themselves of the opportunities afforded them

by being present at such meetings.

A WIDE VARIATION When we consider that the cream from 235 patrons varies in fat content from 10 per cent. to 52 per cent. butter-fat, and the average for the whole year is only 26.2 per cent., we may well consider the advisability of securing a standard for the percentage of butter fat in cream delivered to creameries, and the individual can system for collecting the same. One patron keeps nine cows on 25 acres and in six months produces 131.5

lbs. of butter-fat per cow, or 47.3 lbs. an acre.



The Ideal in Light and Sanitation in a Cow Stable Our ideals as to what constitutes enough light in a cow stable are in dire need of being brought up to date. There are exceedingly few, if any, stables that have too much light, whereas hundreds upon hundreds of stables are so dark and unsanitary as to be a positive disgrane, to their owners, and a serious nemace to the health of stock. A section of the stables at the Canadian Experimental Farm, Ottawa, is shown in the libuaration. Why not have more window space in that stable of yours? It would pay.

dairy breeds, he replies: "What use would they be to us farmers who want beef steers?" This is but one common case of simple ignorance or lack of education on the principles underlying profitable dairying,-a man wants to breed beef cattle and go in for dairying with a herd of scrub cows

bred from a scrub sire. This example strongly em-

phasizes the necessity for farmers to specialize

either in dairying or beef raising and to let the other severely alone, instead of making a miserable failure of both.

THE BUTTERMAKER'S POSITION It is necessary then that the buttermaker be in a position to give instruction and to educate farmers along dairy lines. Before attempting such

Other patrons with more cows and 100 acres produced less than 10 lbs. of butter-fat an acre. This is conclusive proof that the small dairy farm has a decided advantage over the larger ones.

DAIRYING ON HIGH PRICED LAND

In some of the dairying countries of Europe where land is rented at \$15 to \$25 an acre per year, the farmers have to work every inch of it to good advantage to make it pay. There, we see cows tethered to a stake by a rope or chain and allowed only to eat from a certain area-not roaming all over the field eating a little here and a little there. These dairy cows eat up clean, everything within their reach. Then the stake is moved and they have a fresh patch to work on. By the time a field of two or three acres has been covered in this way the grass has had time to grow on the part which was grazed first, and the cows go through the same process again and again. Many farmers keep one, two and sometimes three cows an acre on the Island of Jersey. They have learned the art of intensive farming. They make large profits from small farms.

SUPPLY AND DEMAND

As the population of Canada increases, the demand for dairy produce will be greater than the supply if the farmers do not see to it and produce more milk and lessen the cost of production. If we do not do this, other countries will be called upon to supply us with dairy products, which should have been produced within our own Dominion and instead of an exporting country, we shall become an importing country. But, with united effort and co-operation on the part of Canadian farmers, with increased production in the older provinces, with the advent of dairying in the West where the soil is showing signs of depletion from over-cropping, with the growth of the industry in the valleys of British Columbia and the opening up of the great clay belt of Northern Ontario I do not hesitate to predict that in the distant future, Canada will lead every her country in the output and wealth of her dairy products.

Pruning the Apple Orchard

J. C. Harris, Ingersoll, Ont.

In your young trees, do not start more than three or four main limbs and avoid crotches as much as possible. If you want young trees to make fast growth and have large trunks and limbs at ten years of age, do not trim heavily or head back. I only trim enough to keep the tree symmetrical and balanced, cutting our only the cross limbs and a few suckers. If your trees grow fast, you must leave plenty of top which will spread the rot system and have an abundance of sap flowing up trunk and limbs. As an example, I grafted a rumber of Wealthy (a slow grower) trees over seven years ago to Baldwins and Greenings (fast growers). The trunks and limbs of these grafted trees to-day are about double the size of the Wealthys alongside in the same row. A tree prured heavily annually will make little growth.

After your trees are well into bearing keep them open to admit sunlight and air to give plenty of size and color. Encourage fruit spurs along the limbs so that the sunlight may get to almost every part of the tree. Endeavor to get all the bearing space possible in your tree, but by trimming do not have an abundance of fruit spurs in any one

In pruning the old neglected orchard, a few fair-sized cross limbs will have to be taken out. Cut these on the under side of large limbs and nearly horizontal if possible to avoid these fresh cuts holding the wet and rotting. After these cross limbs and dead limbs are cut, commence with a ladder on the outside and thin the ends of branches to admit sunlight and air freely to all parts of the tree. Encourage fruit spurs down the limbs on the inside of the tree to get all the bearing space you can without crowding.

To sum up: If you want fast wood growth, leave plenty of top; if you want good large fruit from your old trees and plenty of it, trim rather severely each year.

Economical Management of Hogs

S. J. Goodliffe, Kings Co., N.B.

Our main business as far as pigs are concerned is the raising of litters to supply Agricultural Societies and others with pure bred breeding stock. I used to fit pigs for the Amherst Winter Fair and in 1905 we took the first three premiums for dressed carcasses in pairs.

Those pigs were from April and May litters. We put them out on a rape field as soon as possible. In addition to the rape they received skim milk. In the fall they were brought to the piggery and fed mixed shorts and crushed oats with skim milk for about two months. Their dressed weight averaged 160 lbs. a piece.

HANDLING BREEDING STOCK Our breeding stock we similarly turn out on to a pasture field as soon as possible in the spring. They are given shelter in portable buildings. These buildings are on skids and are taken by the team . to a field of rape as soon as this latter is ready. Once a day while out they get a small feed of middlings and what skim milk we can spare them.

In winter up till this year we have made a prac-



A Thrifty Bunch of what is now Exceedingly Valuable Stock A liftly much of what is now Exceedingly Valuable Mock less hogs went on the market three weeks ago at \$8.85 a cwl. Since the has soared still higher. Baker, of Durham Co. Ont, who owend the rated, is one of these with has stayed by hogs through the low and s. Mr. Baker keeps his wine clean is amy be noted from hiow and ing their pens each day, as one would do with cattle or other stock.

tice of feeding a steamed ration consisting of pulped turnips, middlings and bran. But owing to the excessive price of mill-feeds I found their use created a deficit on the pigs annual profit and loss account. Accordingly this year we are feeding just raw pulped swedes and a small quantity of skim milk, except to sows that had late fall litters and needed to gain up a little. Results so far are entirely satisfactory. Later I shall add shorts to the ration for the sake of the sow's milk for the litter but the pulped turnips entirely satisfies them.

EXERCISE

For exercise we give them a turn in the manure shed under the cow stable. We recognize that exercise for breeding stock is most necessary, winter and summer, also that a good dry bed is

Our piggery floors are of concrete. On one side each pen is 10 feet x 12 feet, suited for sows with litters. They have portable wooden floors. Between alternate pens are gutters to which the concrete floors of the pens slope. Chaff is thrown in these gutters to absorb the liquid manure. Thus the pens remain dry and valuable The pens opposite are deeper and narrower with a raised bunk on the back with smaller portable wooden floors. Troughs are along the midwalk.

All the troughs are of concrete. They are easily

made and last for ever. With three of sand to one of cement made slush wet and poured into forms made of two boards placed on their edge and cores attached to cleats nailed across the upper edges of the boards. You can soon make them. It is an endless job making wooden troughs.

I am not able to give but very few figures as to quantity of feed; but we give the pigs as much grass and rape in the summer as they can eat and the same with pulped swedes in winter; these with a little skim milk will enable the pigs to grow and hold their own.

Grain must be used with judgment to get the pigs in flesh. We used to use it lavishly, but of late we must learn to do without. The price of middlings eight years ago was \$18, and now it is \$28. Of necessity this means a change of feeding

Sheep on the Average Farm A. Stevenson, Perth Co., Ont.

Every farmer should have a few sheep. Weeds do not need to be trimmed in a sheep pasture. It is almost impossible for weeds such as sow thistle and burdock to get any headway whatever when sheep are around. They will keep them trimmed to the ground, and none of them will get a chance to go to seed. Sheep a splendid for running over the stubble fields; may turn into money what would otherwise have gone to waste.

They will even lick peas up off the ground. And, again, what would we do in this cold country of ours without woolen clothes?

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Sheep furnish us with both food and clothing. Some say sheep are hard on pasture, and cattle will not pasture with them. Perhaps they are hard on pasture, Lut not nearly to the extent that some people think. A good many farmers do not have enough pasture even for their other stock. Then, when it becomes short, if there are sheep

around, the sheep get the blame for it. Of course sheep can graze closer than any other animal, and when pasture becomes short and dry, and there is very little growth, the sheep get ahead in the race.

SHEEP ON 100 ACRES.

It is a good policy to have a rough or an old pasture for the sheep. Keep them on this and by themselves until some of the harvest is off. Then they will feed on the stubble and not bother the pasture very much. I would not advise keeping too many sheep, about 10 or 13 breeding ewes on the average 100-acre farm are enough; that is, where mixed farming is practised.

Clover hay is the ideal feed for winter feeding A feed of pea straw may be given once a day. If no clover hay is to be had, give good pea straw, flail threshed, with a few turnips-not more than one fair-sized one to each ewe-with a little timothy once a day and a light grain feed each day. If any clover is being fed, then don't feed roots. They have a bad effect on the lambs. They will be very large and weak. Better save the roots until the lambs come, or until a few days before; they will help the milk supply. Give the ewes plenty of exercise. Feed in the open on the snow or dry ground. Let them run out and in as they wish. They will care for themselves.

Photos of farm buildings, farm houses and rural scenes are always welcome for publication.

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Foundation Stock and Its Importance Chester Nicholson, Wellington Co., Ont.

For many years the choice of foundation stock in our live stock industry has received great attention, but it is only recently that we have learned of the great importance of suitable foundation stock in the improvement of our crops.

Plants differ in their characteristics just as animals do. As in animal life, so it is in plant life,—like produces like. This might be more truly stated by saying that "like tends to produce like," for there is a continual variation in all



Prosperity (?) on the Sand Lands, Durham Co., Ont.

The illustration shows a typical farm steading on some of the better land in the north-eastern portion of Clarke Township, wherein much non-agricultural land is situated. The other illustration on this page shows a pasture field nearby on this same farm.

tife. We cannot wholly understand the causes of variation although environment is one of the chief factors. It is by means of this law of variation that we are able to improve our seed. By continuous selection we can fix in our cultivated crops desirable characteristics such as productiveness, strength of straw, resistance to diseases, It is through selection that we have the Dawson's Golden Chaff fall wheat and No. 21 barley, each variety having originated from a single plant which showed superiority over the entire crop in which it was growing.

ARTFUL SELECTION OF SEED.

In our work in the improvement of our crops probably the most important agency is the artful selecting of the seed. By continuous and systematic seed selection great results have been accomplished. In nature, selection is continually taking place through what might be called "natural selection," or the "survival of the fittest." In plant life and in animal life there is a struggle for existence going on continually. In nature we find that the strongest live and the wear st die, or in other words, those plants most firted for their surroundings survive. This is why we have to eternally fight weeds as they possess characteristics such as productiveness, vitality, etc., which enables them to survive, and often to greatly decrease the yields from our cultivated crops. Thus by aiding nature we can do a great deal towards preserving and improving upon the desirable characteristics of our farm crops.

Productiveness with good quality are the most important points that we have to consider in plant improvement. The choosing of a variety is one of the most important features to consider. It is rather difficult to say which variety of any particular crop is the best suited for a locality. One variety will do best in one locality while another variety will do best in one locality. am working on the Banner variety of oats, as I have found by experiment that this variety does best in my district. At the Experimental Farm, Guelph, the Joanette and the Siberian have given the best results, yielding over 15 bushels more per acre than the Black Tartarian and some other varieties. At the Ottawa station, the 20th Century stands first, while Joanette stands 23rd; the 20th Century yielding 24 bushel 20 lbs. more an acre than Joanette, and so on with the different varieties.

The only way in which we can determine the varieties that are best adapted to each district is to test them, side by side. I know of no way in which to carry on careful and accurate tests of varieties to greater advantage than through the medium of the Experimental Union. According to the last report of the Union I notice that experiments are now being conducted on 4,420 different farms in Ontario. The work of the Union is carefully and systematically planned so that it is not difficult to make accurate tests.

VALUE OF LARGE PLUMP SEED The size of seed is also important. It is generally known that the largest, plumpest seeds always give best results. During the past three years I have grown No. 21 barley which has taken first prize each year at our fair at Mount Forest. The crop of barley grown each year from this selected barley has shown a marked improvement over the crops grown from seed not so well selected. According to tests at the Experimental Farm at Guelph, results show that in every instance the largest seed produced the largest yields, and in the case of oats, where continuous selections were made for 12 years from heavy plump seed and from light seed, there was an average annual difference the first four years of 10.4 bushels an acre. During the next four years, there was an annual difference of 15.8 bushels an acre and in the last four years there was an annual difference of 22.4 bushels an acre. In every year the large plump seed produced a greater yield and a heavier weight per measured bushel than did the light seed, and the difference between the two selections became greater with each succeeding year.

Examine Clover and Grass Seed

T. G. Raynor, B.S.A., Seed Branch, Ottawa

Farmers should exercise the greatest care in the purchase of their seeds to see that they are getting pure, good vital seed. This cannot be determined unless a careful examination is made of the seed by spreading some out on a white piece of paper. One or two thimblefuls of red clover is sample enough. A thimbleful represents about 1,000 seeds of red clover. If there are more than five noxious weed seeds like buckhorn or ragweed in the sample it should not be offered for sale as it is contrary to the provisions of the Seed Act. Value of a Good Pure Bred Dairy Bull C. F. Whitely, Ottawa, Ont.

Dairy records prove conclusively the marvellous value of a good pure bred sire. Every dairy farmer ought to be keenly alive to both the value and economy of using only dairy sires for dairy purposes. Special dairy quality is a marked feature of some breeds and some families, their power and perfection come by reason of having been bred with a definite purpose in view from long lines of ancestors of like quality, veritable dairy kings and queens. Then, if breeds are crossed, or grades used on grades one can only be working at random, worse than that, actually demolishing the painstaking and patient building of the intelligent breeder who for years had striven for definite improvement.

What can be expected of a "scrub bull"? The very name, a term of reproach and contempt, is an instant index of his utter worthlessness. It is a good investment, and an excellent one, and will pay better than anything else on the farm to put \$150 into the right kind of dairy sire, for he will return practically 10 times \$150 within three years. There will be a gain in milking capacity of his daughters of about 1,000 lb. milk over their dams, worth \$10 a year. They are likely to be more persistent milkers, while there will be a marked improvement in the general efficiency of the herd as the good blood, the better breeding accumulates.

Men seeking real herd improvement should cooperate: 15 or 20 men could club together under a six-year agreement and purchase three good bulls. With the herds in three groups, the members of each group could have one bull two years; then redistribute the sires, and at the end of the second two-year period change again. Thus there is the use of three good sires for three years each at far lower cost than if each man bought one himself.

Pure dairy type is of utmost importance, some breeds of animals may produce milk and beef, but not with economy, and net profit is our object in view. A trotter is not expected to haul a load of hay, nor a pampered pug dog to go deer hunting-economic milk cannot be expected from beef type. The sire must not only be pure bred,



Pasture Land, which were it not for the Stones and Stumps would Blow Away

The photograph reproduced above was taken early in June has year, on the sand areas of Durham Co. Ont. Note that the produced on this page, and of which this field is a part. This land is quite unsuited for farming. It is well added to the page, and of which this field is a part. This land is quite unsuited for farming. It is well added to the produced the control of the produced the

Even 5: 1,000 spells 1,450 noxious weed seeds per pound or 10 pounds per acre and you have 14,500 noxious plants per acre.

This is simply outrageous and yet frequently samples of such seed are found being offered in the trade by dealers. Farmers too, in trading among themselves are getting even worse samples.

Old fashioned facilities will not do for the modern business. We do not want the old time cow, but let us have the best. Then give her the food that she always needs; give her the home that she surely requires; give her the air that her health demands, and give her product the care that its purity deserves and you will have accomplished all that can be asked of a good Canadian dairy-man.—Dr. C. A. Publow, Cornell University.

but he must be a good pure bred. Mere entry in a herd book is neither a guarantee of personal excellence nor a sound reason for a lofty price. See that the dam and grand dams have been fine producers and that the sire is a good individual of dairy type, not coarse and beefy Don't worry delving in the archives for records of five or six generations ago, the immediate ancestry counts.

The carefully selected sire should be used as a mature animal. A youngster is not ready for general or extensive use till three or four year; old, about the age many are killed, but he can continue till the age of 10 or 12, at least. Of untold damage, most serious detriment to herd improvement is the young, immature scrub sire running loose in a herd.

Varranted to Give Satisfaction. Gombault's **Gaustic Balsam**



Has Imitators But No Competitors. Cure for

Idinitators but my compatitud afe, Speedy and Positive Cure afe, Speedy and Positive Cure trained Tenders, Founder, Winterined Tenders, Founder, Winterined Tenders, Founder, Winterined Tenders, Founders, Founders, Founders, Fightheria. Removales, Tiphtheria. Removales, Tiphtheria. Removales, Tiphtheria. Removales, Tiphtheria. Removales from Horses or Cattle.

an Remedy for Rheumstism, e Throat, etc., it is invaluable Caustic Balsam satisfaction. Pri druggists, or ser with full direct The Lawrence-Williams Co., Toronto, Ont.

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

A 100 Acre Dairy Farm

Wm. W. Whitton, Northumberland Co., Ont.

Co., Ont.

Nine years ago, I purchased a 100

Nine years ago, I purchased a 100

Northumber farm in the township of Seymour,
Northumber farm is located in a fine county. The farm is located in a fine county. The farm is located in a fine county for the was in a bad state the fine of the farm is located in a fine farm of the fin

tained to date.

The first spring I bought \$25 worth
of clover seed. I always aow lots of
clover. I have since feath farm
and in 1908 I built a new larm with
stone basement 40 x 70 form with
barn was shown in the back ground
the front cover illustration in Farm barn was shown in the back ground on the front cover illustration in Farm and Dairy Issue week. The barn cost 8900. Last year built a drive house, 20 x 40 feet. The barn cost house is cement which keeps down all odors from the hogs. My farm and farm practice is so planned that I can keep 11 cows, six horses and colts along with some young attitude and grow 1,000 bushels of grain state and grow 1,000 bushels of grain state and grow 1,000 bushels of grain

From three to four of corn provide my cows with fall and

My herd of 11 dairy cows was enter-My herd of 11 dairy cows was entered in the dairy herd competition conducted by the Eastern Ontario Dairymen's Association last year. They won men's Association last year. They won second place veraging for the six months of the test, 5,140 pounds. I endeavot to have them freshen in April. I feed straw and corn stalks all winter and start them on hay the first of March. I am by no means a heavy feeder as I do not think it pays. When my cowa freshen, I start feed. heavy feeder as I do not think it pays. When my cows fresher is latar feed-ing hay, oat and barley chop mixed, law quarts, up until them out in close at which time I turn them out in close or up to their knees. Law tumner my cows averaged \$61 a piece returns from the chopse factors for the confrom the cheese factory from April 10th to November 20th. They also made \$50 worth of Lutter.

nade \$50 worth of tutter.

Cows in summer time require plenty
of grass, lots of salt and good water
they require to be milked at regular
oours and by no means should they be

The orchard illustrated on the front The orchard illustrated on the front cover of Farm and Dairy last week has been set out only 10 years. Pump-kins are grown between the trees and the pumpkins are used in the fall for the cows They are excellent feed for milk

I always exercise great care in buy-ing a cow. I go to a man that I can depend upon and pick the best from

his herd. I have to pay a good price for such cows, but they are the kind

How to Detect Sweet Clover in Alfalfa Seed

The detection of sweet clover in al-The detection of sweet clover in alfalfa seed is very important to the man buying seed; doubtess many are not aware that it. Comparatively easy to detect it, if comparatively easy to detect it, if comparatively can be seen to be seen that the comparative of the comparative of the seed as many than the seed as many length of the seeds.

To examine seed successfully many than the seed as many length magnifying five to 10 times, to determine the farm of the seeds.

or the seeds.

Alfalfa seeds are produced in spiral
pods. Normally the seeds are "bean"
or "kidney" shaped, and the scar of
attachment is usually near the centre The over-crowding of the seed. The over-crowding in the alfalfa pods causes irregular shap-ed seeds, so little dependence can be placed on the shape of the seeds of alfalfa; but the seeds of sweet clover are very regular in form as the seeds are very regular in form as the seeds are produced singly in little pods. The scar of attachment on the sweet clover seed is near one end and the seed is nearly oval in form, and quite regular, never in shape like alfalfa

seed.

By spreading a sample of seed thinly on a sheet of paper, any seeds suspected of being sweet clover can be
separated with the aid of the lens; separated with the aid of the lens, and then, by chewing them fine, their identity without a doubt. Alfalfa seed has without a doubt. Allalia seed has a distinct beany flavor, while sweet clover will taste like the sweet clover

Clover will taste like the sweet clover plant smells, strongly vernal. The form of the seed, and the taste, are the characteristic points to deter-mine the identity of the seed; and with a little practice, especially if one-can commare tha two, there will be can compare the two, there will be no mistake in determination.

Testing Seed Corn

E. G. Montgomery and C. W. Pugs-ley, Lincoln, Nebraska

Testing every ear of seed corn will st about five to 10 cents an acre, and cost about five to 10 cents an acre, and may mean five to 10 bushels an acre increased yield. Do it now before the rush of farm work. In many parts of the state not one-half the seed corn will grow. Reports from Farmers' Institutes in various sections indicate. the state not exports from Farmers' will grow. Reports from Farmers' Institutes in various sections indicate that the vitality is very low.

that the vitality is very low.

First make a preliminary test of your seed. Select 100 ears at random. Take three grains from each ear, each grain from a different part. Place any shallow box for germinator. Place any shallow box for germinator. Place sawdust, sand or soil in the bottom. Cover with clean cloth or blotter. Scatter grains, over with another cloth or blotter and put some more sawdust, and or soil on top. Wet down thoroughly and keep in a warm place. Grain should be sprouted in four to six days.

our to six days. If 95 per cent. of the grains gerin 35 per cent. of the grains germinate in the preliminary test, your corn is safe to plant. If less than 85 per cent. germinate, it will pay to make the ear test.

THE EAR TEST

Punch Holes Claims

53 Disks from Common Cream Separator Would you buy 40 horses, to do the work of one, simply because "a dealer with horses to sell" claimed you with hors

needed 40?
Will you buy a complicated cream separator just becau, o manufacturer with only complicated manufacturer with only complication with the fact that such as the fact chairs with the fact that such as the complication with the fact that such as the complication with the fact that such as the complication of the complication of the complication of the complex of the compl



Tubulars are The World's cest. Probably replace Tubulars are The World's Best. Probably replace Best. Probably replace more common separators more common separators and the separators of the separators of

Theoles 30 - Urs THE SHARPLES SEPARATOR CO.

Toronto, Ont. Winnipeg. Man

LAST CALL FOR COPY ON THE

Dairy Special APRIL 7th

that you have the ears laid out. move the kernels with a knife blade, and be careful not to injure the

Cover the kernels with a cloth, and over the genees with a cloth, and over this place some sawdust, sand or soil. Keep well moistened and in a warm room. In four to six days germination should be complete. Discard all the ears that have not shown a good, strong cormination.

a good, strong germination.

A handy rack for drying seed corn and for keeping track of the ears in and for keeping track of the ears in testing may be made by the use of 2 x 4's and heavy smooth wire. The ears in the rack correspond to the squares in the germinator, so that it is not necessary to number either the eary control of the squares. A representative test after it has been in the germinator for three days (it should be left longer to get the best results) in which six grains from each which six grains from each

pe is lis

an

(it should be left longer to get the one; results) in which six grains from each ear were taken, showed some of the ears to be absolutely lead. In others the sprouts were weak, while with some the sprouts were vigorous. If one ear in every 40 fails to grow, you will lose one acro out of every 40 acre and the second of the second purchased, as every farmer possessed to be seen and the second of the ears and to keep the germinator moist and in a warm place. results) in which six grains from each The East Test.

Lay out all your seed ears side by side on floor, shelves or boards. You should have at least Jears for each acre. Keep them auch order that you can easily load and the state of the st

Bruce's Giant Yellow Intermediate Mangel



This grand Mangel, which we introduced in 1895 is without a doubt the favorite with all size in the same and the present day. The large size of the at the present day. The large size of the most solid texture, and the same size of the most solid texture, and the same size of the most solid texture, and the same size of the most solid texture, and the same size of the same size

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It is desirable to mention the name of this publication when writing to advertis

See

Cow Sucks Herself—Dehorning
Can you give us a satisfactory say to
keep a cow from sucking herself? We
have used a halter on the head, a girth
behind the fore legs, with a straight stick
from halter to girth. It prevents sucking but we think it decreases the milk
tongue. Would it cure? Would there he
any danger of bleeding to death? How
far or how long a split would be safe
and effective? Would this be cruelty to
animals? Would it be worse than dehorning? Can you tell me what combest for local use? I would like to dehorn our own herd. What would stop
bleeding in stubb of horn?—M. J. S.,
Greaville Co., Ont.

There have been many devices tried,

There have been many devices tried. some of which have proven effective in preventing cows from sucking them-selves. Every effective device that I selves. Every effective device that I have seen tried has also been so unpleasant to the cow that she has fallen off greatly in her milk. My experience with cows that sucked themselves and the experience of most men with whom I have talked re this matter is that the best plan to follow is to fatten them up and send them to the block. It seems to be an incurable and cer-It seems to be an incurable and certainly a most annoying labit. Splitting the tongue might possibly stop them sucking but I have no personal experience on the matter nor have I seen any one who claims to have had any success by this means.

any success by this means. Deborners are sold by most hardware firms of any consequence. The oneration is very simple, the effects usually quite inconsequential, the bleeding generally stops a few minutes after the operation. If it is desired a hot iron might be used to sear the wound or some lime sprinkled thereon; or tar applied. However, in my experience they do just as well when mothing is applied. The horn should be cut in such a way as to remove shout 1.8 or 1.4 of an inch of skin at the same time.—J.H.G.

Imaginary Diseases of Cattle*

The names of the three old fallacies or superstitions known as hollow horn, loss of cud, and wolf in the tail, whenever and wherever used, seem to be invariably applied to some form of digestive derangement or disease of cattle having its origin in the stomach and bowels. It should be noted at the and bowels. It should be noted at the outset that the horns of all animals of the ox tribe are hollow. The horn cores are elongations of the frontal sinuses, which are the larger of the air spaces of the head, are prolonged into the horn cores. When a cow is sick, if the horns are hot it is an evidence of fever; if they are cold is indicates impaired circulation of the blood, but these manifestations of sickness are to these manifestations of sickness are to be regarded as symptoms of some con-stitutional disorder and do not in themselves require treatment. The treatment should be applied to the disease which causes the abnormal temperature of the horns. The usual temperature of the horns. The usual treatment for the supposed hollow horn, which consists of boring the horns with a ginlet and pouring tur-pentine in the openings thus made, is not only useless and cruel, but is liable to set up an acute inflammation and result in an abcess of the sinus. and result in an abcess of the sinus.

LOSS OF CUD

It is very common among farmers,

Cow Sucks Herself-Dehorning condition. Loss of cud is a symptom condition. Loss of cud is a symptom of a great many diseases, and when its existence is detected it should lead the observer to try to discover other symp-toms upon which to base a correct opinion as to the nature of the dis-ease from which the animal suffers. No local treatment is required.

WOLF IN THE TAIL

The so-called wolf in the tail is most generally treated by those who, are possessed of this fallacious belief by splitting the end of the tail with a knife, filling the cut with salt, and binding with a cloth. This imagined trouble is nothing more than a debili-tated condition of the system, resulttated condition of the system, result-ing in a relaxed or softened condition of the tail, especially at its extremity. It is evident that it is the constitu-tional disorder which requires treat-rent and not the relaxed tail. When the immense volume and com-plicated arrangement of the gastric purches of the cow are considered, to-costles with the creat quantities of all.

gether with the great quantities of ali-ment required in the elaboration of milk and for the animal's nutrition, it is small wonder, in view of the carelessness so often apparent as to both the kind and quality of food, that disease of the digestive organs in these animals is of more frequent occur-rence than other diseases. It is Lerence than other diseases. It is be-lieved that a recognition of the facts contained in the foregoing statements will not only tend to dissipate any re-maining belief in these old fallacies. but to a more humane and rational treatment of the various forms of indigestion or dyspegsia, of which those panifestations giving rise to impres-sions of hollow horn, loss of cud, and wolf in the tail are but symptoms.

Forage Questions Asked and Answered

After delivering an address on 'Rough Forage for Dairy Cattle,' at the recent Dairymen's convention at Belleville, Ont., Mr. J. H. Grisdale, of the Central Experimental Farm, Ottawa, was asked a large number of question. Some of these questions and

tawa, was asked a large number of ouestion. Some of these questions and Mr. Grisdale's answers follow: Q.—How much corn do you grow at the farm at Ottawa?

A.—We grow shout 50 acres a year, and it takes quite a little while to cut it. I would like to see every farmer grow the proportion of corn. The corn of the corn like to see every farmer who owns a 100-acre farm grow 25 acres of corn. You will say, "Where are we going to get the manure?" That may be the trouble for the first year or two, but that will soon right itself, because you will be able to keep a lot the corn early. We are well the soon of the corn of the cause you will be able to keep a lot more cattle. We can grow roughage with any other country under the sun. We have ideal conditions for growing feed in this country, and if we will cultivate our fields and crop them in the right way, we will have a solution of the whole problem.

Q.—Do you cut the hay and straw?

A.—No, I feed the hay long, I do not like to cut the hay but I would cut the straw.

cut the straw.
Q.—Is green alfalfa better to feed in the summer than corn?
A.—Yes it is better.

Q .- Is it a good practice to ensilo

alfalfa

It is very common among farmers, when a cow or ox is alling, to say that the sick animal has lost its end. If it is meant that the animal does not runninate or chew the cud, and that it consequently must be sick, no fault can be found with the expression. In most cases, however, the remark is intended to convex the idea that the loss of cud is a disease in itself. Such is not the case. It is simply a cessation of runnination, and frequently the first indication of some form of sickness, since runninants stop chewing the cud when feeling much out of "Extract from Circular & by A. J. Mer-Fixtract From Circular & by A. J. Mer-Fixtract From Circular & by B. Dept. of Agri

side, upon which they ran and the other side we kept a strip alongside the fence and fed them, and by the time we got to the end the other was

ready to cut again.
Q.—You did not really pasture them? them?

A.—We pastured eight acres and
then fed the other six acres until the
end of July, and then we gave them
the whole thing.

Q.—Tell us how you manage the

Q.—Tell us how you manage the 200 pigs you have there, do you feed managels?

mangels?

A.—Yes, we feed these 200 pigs between 50 and 60 tons of mangels and sugar beets and we have 10 acres of pasture that we run as a pig farm.
Q.—Do you have 10 acres set apart for pigs?

A.—Yes, and we follow a three-year totation. The first year roots, second year mixed crops, seeding down with different mixtures. We have tried two kinds of grass mixtures and clover kinds of grass mixtures and clover different mixtures. We have tried two kinds of grass mixtures and clover mixtures. We cut a crop early if it is going to fall; if it stands up we let it ripen and then the next year the pigs are nastured on that grass and clover. They have runs running right across and in that way we get a variety of feed for the pigs. Each run is

Q.—Do you use a horse planter for

A.—No, I use a common seed drill.
Q.—How much seed to the acre?
A.—About half a bushel.

Q.—Do you plant corn in drills? A.—We plant corn in rows 42 in-es apart, 7 or 8 juches in the rows ches apart, 7 or 8 inches in the row or in hills 42 inches apart each way You will get just as good results and it is a little nicer to harvest in rows and a little easier to keep it clean in hills. If you have dirty field would advise planting it in hills.

(Continued on page 13)

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The great stock bull "Oakland Sir Maida." with 2 records over 30 lbs. In his perfect of a 20 lbs. cert each 7 days, another daughted a 30 lbs. cow, 2 other half-staters to Francy 3rd 331-5. 7 young service but of a 30 lbs. cow, 2 other half-staters to Francy 3rd 331-5. 7 young service for the state of t

G. A. GILROY, Glen Buell, Ont.

Col. G. V. KELLEY, Syracuse, N.Y., Auctioneer.

Fruit Growing in New Ontario

Chas. Young, Algoma District In the past, fruit growing in New Ontario was attended with failure. Oncario was attended with failure. This was caused by planting unsuitable varieties and by planting on unsuitable soil. The heavy impervious clay, so common in New Ontario, is not adapted for the tree fruits, and it is quite a troubleague matter to not adapted for the tree fruits, and it is quite a troublesome matter to make it suitable. All bush fruits do exceedingly well except blackberries. There has been a general belief that there is no use trying to grow fruit in the north. This impression has althe north. This impression has al-most entirely disappeared, chiefly ow-ing to the perseverance of many who refused to accept this common opin-

The effects of this persistence may be seen today in many of the older settlements where the orchard is bringing more money than the rest of the farm and which bids fair in of the farm and which bids fair in of the farm and which bids fair in of the tark and the set of the farm and which bids fair in of the farm and which bids fair in of the farm and the more hardy fruits. In small fruits this is done now and about the only difficulty is in winter with all the more hardy fruits, with the kinds of winters that we have at present. Apples, cherries and plums can be given at less expense-than in the east of the farm and the common there as many of the pests of the fair than the fair th The effects of this persistence may we now have we may quite easily grow all the fruit we require and some for export farther north.

The Soil for Strawberries

W. T. Macoun, Central Experimental Farm. Ottawa

Farm, Uttawa

If possible, the site for the strawberry plantation should be chosen
where the snow will lie in winter. A
good covering of snow usually ensures
good crop of fruit. One of the mostimportant requisites in a soil for strawberries is thorough dainage, as where
water lies on a near the surface, the berries is thorough dainage, as where water lies on or near the surface, the water lies on or near the surface, the plants are sure to suffer either in summer or winter. While too much moister and the surface is had, too little moisture is unface in the surface in the surface

by growing a crop of roots which have been heavily manured. After the roots been heavily manured. After the roots or other crops have been moved in the autumn, the land should be stirred deeply, it being a good tie to use a subsoil plow after the ordinary kind for this purpose. By uning the subsoil plow the soil may be lossened to soil plow the soil may be lossened to

RIDE'S SAN JOSE SCALE

De Sala JUSE Series and Insect Destroyer reatest remedy ever discovered against Jose Scale 1: Jose S Room 166, 1001 Chanut St., Philadelphia, Pa.

HORTICULTURE the subsoil to the surface, which would probably happen if it were plored very deep with the ordinary plow. sod plowed in the autumn is also good, sod plowed in the autumn is also good, r the sod frurnishes humus, but grass-sod land should be avoided as there is great danger of injury from the white grant beautiful and the solid should be brought into good tilth with the harrows and when it is thought best it may be plowed be-forehand.—Extract from Rull W. 90 forehand.—Extract from Bull. No. 92.

The Use of Lime-Sulphur

The increasing importance of the lime-sulphur wash as an aid to fruit growers was well attested by the interest taken in Professor Harcourt's lectures on this insecticide and fungional cide at the short course in fruit growing that was held at Guelph. The professor stated that lime-sulphur, as a spray material, is a compound made a spray material, is a compound made

cinc at the anort course in the sering that was held at Guelph. The professor stated that lime-sulphur, as a spray material, is a compound made as a spray material, is a compound made and sulphur, either the flowers or the finely ground flour. From 45 minutes to one hour, sharp boiling is sufficient. On the lime with the sulphur, further boiling causes the wash to deteriorate in value sust the end of two hours the wash was to the deteriorate in value sust the end of two hours the wash as the end of two hours the wash at the end of two hours the wash at the end of two hours the wash as the end of two hours the wash as the end of two hours of these compounds used, and the commercial braid home-boiled and the commercial braid home-boiled and the commercial braid hours of lime (fresh stone) in about y of abarrel of water. When boiled sufficiently it is made up to 40 gals, and applied while warm. This gives a great excess of lime, which, when the wash cools, causes the sulphides to challing, thus lessening the value of the theory of the sum of t

COMMERCIAL BRANDS The commercial brands are made in The commercial brands are made in factories. In these a great excess of sulphur is used and they are made up in comcentrated form and shipped to the grew who is directed to dilute for winter spray at the rate of about 1 to 10 or 12, according to the make. As there is an excess of sulphur in these compounds, crystallization does not take place so that cold water can be used to dilute the spray and it can be used to dilute the spray and it can. not take place so that cold water can be used to dilute the spray and it can be applied cold. It has been generally found useful to add lime to these sprays in order to make them stick and to indicate the thoroughness of the amiliantion.

the application.

Home-made concentrated lime-sulphur is being used now as a substitute for the commencial brands. This is made by boiling the foliation of the

tion of the strength of a spray, units a great variability in the strength both of the commercial washes and both of the commercial washes and the home-made. A large number of lime-sulphur home-boiled sprays that were doing effectual work were gath-ored from various parts of Ontario and tested at the O.A.C. The aver-rage showed a specific gravity of 1008. and tested at the O.A.C. The average showed a specific gravity of 1.028 by the hydrometer. Experiments made in the United States indicate that this is about what the is about what the specific gravity of a good winter spray should be. It would seem that the hydrometer should be a satisfactory method of testing a spray. Many times unneces-sarily strong spray. testing a spray. Many times unnecessarily strong sprays are applied and again weak useless ones. By means of a hydrometer every barrel of spray applied could be made of uniform strength. If too strong, dilute; if too

weak, boil down. It will also form an accurate test for commercial sprays.

Although I am not actually engaged in farming, it is refreshing to get a paper like Farm and Dairy. It seems to come right from the solid rock. It is sound and shows what the farm can be made.—Chas. Blake, Frontenac Co. Ont.

The popularty of Farm and Dairy The popularty of Farm and Daily is growing greater than any other ag-ricultural paper published. This new is growing greater than any other ag-ricultural paper published, and the second feature Farm and Dairy, as of con-ducting prize competitions and con-ing and dairying should creatily tend to improve farming the dairy-ing throughout this Province, cally, and wherever Farm and Dairy goes.—W. G. Smith, Enfield, Ont.

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POULTRY YARD

Early Experiences of an Expert The Farmer's Friend-The Hen

Experiences of when he first start-Experiences of when he first start-ed in the poultry business 27 years ago were related by Mr. A. G. Gilbert, Poultry Manager at the Experimental Farm, Ottawa, at the recent Poultry Institute held at the O. A. C., Guelph. Commencing with a four-acre plot, a house, three Plymouth Rock pullets and one cockerel, and a dozen eggs, nine of which were lad, Mr. Gilbert soon raised birds for the market which took everyone. for the market which took everyone by surprise. At first he kept as many birds as possible in a tightly plas-tered, unventilated house, and fed them in the then most approved fash-

But he got no eggs in winter. A friend advised him to take half the friend advised him to take half the birds to another house. He did so and got a few eggs. Having learned by experience, he soon made such rapid strides that he was offered the position of Poultryman at the Ex-perimental Farm. He accepted it and, with the increased facilities, showed a return of 17,000 eggs, 13,000 of which were laid from December to May. He could then speak and lecture to farmers by experience, and he has ever since held strongly to, and always advocates the doctrine of "making hens lay in winter when eggs are scarce and fetch from 45c. to 50c. a dozen."

He urged that farmers should not let the business of poultry raising be so much in the hands of the special-ist, and should try to do away with the "middle men," who are unnecessary if the farmers will only work together properly. He quoted instances of farmers who had been very hostile to poultry raising, had tried it, had succeeded and were most enthusiastic about it now, proving that if only the indifferent men could be influenced, every farmer could raise poultry to enormous advantage.

A question was asked: "Is winter laying due to breed?" "No," said Mr. Gilbert, "it is due to strain and to treatment. As with milk cattle that are developed, so can poultry be developed to lay well. When you have got the strain, develop it."—W. J. S.

Rheumatism in Hens

KReumatism in Hens

A week ago I found one of my hens
unable to walk, and it acted as if its
back was badly injured. I gave it a pill
of red pepper and lard, and it is now
coming on all right. Recently I found
another lying apparently dead with water running from its mouth. After disovering some life still in it, I took it to
the house and forced a pill of pepper
and lard down its throat and then laid
and the still in the still of the pill
Today abe is able to look after herself.
Can you tell me what ailed them?—J. H.
S., Ontarlo Co.

Quite likely the trouble is rheumatism. The red nepper and the heat-

Quite likely the trouble is rheuma-tism. The red pepper and the heat-ing on the furnace relieved the trou-ble for the time being. The only per-manent cure is to remove the cause, whatever it may be. Keep hens in per-fectly dry place. Give plenty of laxa-tive food, such as roots or grass. Al-low fresh air and exercise.—F. O. E.

Hens Sickening and Dying

I have a sick hen, have lost one. They are heavy; in fact, one was fat. They mope, then refuse to eat. The skin is quite yellow; the head not particularly pale; the droppings soft, greenish and a little white, but not foamy. Have had similar cases other winters. It does not appear to be contagious. They usually similar cases other winters. It does not appear to be contagious. They usually die in less than a week after becoming affected. Have been liberally fed on grain and fresh vegetables and mash occasionally.—E. N. T., Middleser Co., Ont.

From your description the trouble

is not such as to cause alarm. Frequently a hen becomes out of condi-

meessessessessessesses tion and acts as you state. It may be a case of indigestion or liver trou-ble. Give a spoonful of castor oil and a Carter's little liver pill.—F. C. E.

One of the most practical and sensible articles that we have seen in a long time upon the subject of noultry raising is that by Mr. George A. Cosgrove, president of the Connecticut Poultry Association, which he wrote for the managers of the Connecticut Fair to use in connection with the educational work of the exhibition.
The article follows:

Comparatively few farmers realize the farm may be made. The old-fashioned farmer considers the hens as something for the women folks to look after, as not worthy of a man's time and attention. He thinks they are a kind of nuisance anyhow, and are a kind of huisance anything although he does not object to good, fresh eggs for breakfast or fried or broiled chicken for dinner, he grudges the money spent for feed, and absolutely will not clean out the poultry houses, or take any pains to make the hens happy and comfortable which has so much to do with their being also profitable. With reasonable care and profitable. With reasonable care and attention, the ordinary hen will lay a net cash profit of a dollar and a half a year. Estimating the hen's value at 75 cents, she pays a net profit of 125 to 200 per cent. This is where all the grain and feed is bought. If the farmer had to tuy all the hay and resizing the profit of 125 to 200 per cent. the hay and grain he feeds his cows, how many herds would pay even 50 per cent. profit? And yet the farmer is contented to keep cows.

The farmer has greater facilities for profitable poultry-keeping than the ordinary man; a field adjoining his poultry yards can be sown with wheat, oats and barley, and as soon as it oats and barley, and as soon as it ripens, the growing young chicks turned into it will save him all the trouble as to harvesting, and all the care as to feeding at the same time. The writer of this article has made a good living for himself and for 15 years from poultry keeping for 15 years from poultry keeping and has never kept over 500 hens to do it. And this has been done from commercial poultry keeping; that is, eggs and poultry sold at market prices. The prices obtained and the profits of profits of 'fancy' poultry are beyond the belief of the average farmer. When Mr. Northup, in New York State, obtained \$1,000 for a rose-combed Black Minorca cock, it was then the top notch as to price, but since then the wife of Paderewski—the pianist—paid Mr. Kellerstrass of St. Louis \$7,000 for a half dozen White Orpingtons, and Mr. Charles Brundage, of Danbury in this State has a Golden Wyandotte cock that he values at \$20,000 because the chicks sired by that bird in one year have actually sold for an amount equal to six per cent. in-terest on \$20,000. But only a few men are skilful enough as breeders to obtain such prices, the statement above is made to show what is possible.

People are realizing more and more reope are reasons is a business that poultry keeping is a business that needs special knowledge, and most of the agricultural colleges now give a short course in poultry keep-ing for the benefit of those who can-not attend the regular college course. Attendance at one of these courses will show the farmer where he is all wrong in his housing and feeding poultry, and will teach him methods whereby the profits may be materially increas-

There are seasons when the farmer finds the market glutted with milk or butter, and it is almost impossible to dispose of his products, but there is never a time when good, fresh eggs are not saleable, and the equivalent of cash almost anywhere. On the farm all the green food for winter -cabbage, mangels, beets, etc., may be easily raised, and an acre or two of oats, tied in bundles and stored of oats, in a rat-proof corn house, makes an ideal litter to throw in the scratching sheds, in which to scatter the wheat and cracked corn and thus compel the exercise which is so necessary to the production of eggs in cold weather No fear that any of the oats will be wasted, the hens will prove most excellent threshing machines. Among the points in favor of poultry ing is the small capital on wh on which start can be made, and the fact that the chick becomes a producer in six months from the time it is hatched, while the sale of the young cockerels for broilers usually pays the expense of raising the pullets to the laying age.—F.C.E.

Anna C. Webster says nearly all the Anna C. Webster says nearly all the diseases of poultry, summer and winter, can be put under one or two classes: inherited or caused by unnatural conditions of food. It we classify them thus broadly, it may be simplifying matters for some so they can more intelligently stamp them out more intelligently stamp them out.

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sage. At the end of ten days I tested out twenty-eight and opening the shells I found every one infertile. This left 72 in the Incubator; of these 61 came out sow healthy chickens, and the halmost addition in the shell or were too weak to go HIRST

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J. A. Caskey's Holstein Sale

Buyers from all points of Ontario, Nova Scotia and New Brunswick in Buyers from all points of Untario, Nova Scotia and New Brunswick in the east, and from Manitoba in the West, attended the big auction sale of Holsteins held by Mr. J. A. Caskey of Holsteins held by Mr. J. A. Caskey at Madee, Ont., on Friday, March 25th. The sale was a pronument of success. The cattle were of grand breeding and were brought out agood working shape. Col. D. L. L. Gray of Columbus, Ohio, wielded the large of the success. The success the success the success of the s were young calves, brought \$6,760. The 24 mature cattle averaged \$223.75 The list of cattle and buyers s: Jessie De Kol Echo, E. A. follows: Jessie De Kol Echo, E. A. Lloyd, Stonffville, 8240; Countress Zoo De Kol, P. Alliston, Chesterville, 8165; Heifer calf, Brown Brow Lives, 8565; Bolly Echo De Kol, Dwy Bros., Camp Chase, Ohio, 8295; Bull Calf, W. L. Woof, Hillier, 835; Jesses, 836; Keyes, A. F. Stevenson, Russell, 8366. W. L. Woot, Hiller, 859; Jesse Inka Keyes, A. F. Stevenson, Russell, §215; Heifer Calf, Brown Bros., Lyn, \$80; De Dik Kert Echo De Kol, Thos. Davidson, Spring Valley, \$175; Paul-ine De Kol, 2nd, A. D. Foster, Bloom-

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Jessie De Kol Ehol, bull calf, S. El-liott, Tweed, \$35. The great bull Sara Jewel Henger-veld's son, sold for \$400 to Mr. B. E. Hagerman, Minto.—G.A.B.

Spring Care of the Farm Team

Spring is at hand and it is time to be getting ready to put in the crops. Among other things to think of in this onnection is the matter of getting he horses into condition. The first the horses into condition. The first work in the spring is the hardest of the year, and the horses are the least prepared to do heavy work. To be deprived of the use of a horse in the spring is serious, even though the horse is not greatly depreciated in horse is not greatly depreciated in value or lost entirely. Young horses, especially, should be broken and given some work during the winter and should be fed some grain. This will toughen their shoulders and at the same time they will have been same time they will have become accustomed to grain and will, therefore, be less liable to colic, and in every way better able to stand the work.

A sudden change of food in horses

A sudden change of food in horses is always dangerous, but to start a colt in on grain, with heavy work, that has never had either, is almost arre to be disastrous. A young horse and the disastrous A young horse especially cannot stand heavy pulling all day on soft ground unless his shoulders are well hardened by regular work in the collar.

Here are a few suggestions which will be well worth remembering:
When a horse is tired he is much more subject to colic. Do not change the feed on the horse during heavy spring work. There is much more danger in feeding corn or wheat than there is in feeding oats. Water your Water .your horses when you first bring them in from the field; then let them eat hay from the neid; then let them eat hay for a half hour, and give them their grain last. Pull their shoes off while doing the spring work. Remember, the horse will have a

Remember, the horse will have a Remember, the horse will have a heavy coat of hair, and will, therefore, sweat easily and be all the more likely sweat easily and be all the more likely Sweat easily and be an the more likely to catch cold and get pneumonia. For the first week or two bathe the neck and shoulders with cold water every night and after the day's work every night and after the day's work is done. See that the collar fits snug and that the hames are buckled up tight. The shoulders are buckled up to be scalded and bruised without a pad than with it. If the sweenied, he will have to be to sweenied, he will have to be to for several months. Guraf against that dangerous disease—azoturia. This

Mecthilde De disease almost invariably comes on disease almost invariancy comes on after the horse has been resting two or three days during a storm and kept on full feed. Reduce the grain at least one-half while the horse is not at work

at work. Founder is caused from too much feed, a sudden change of food, or a drink of water when the animal is warm. Distemper we have been the arms to state to attack the young to the spring of the year, just we should be exercised against exposing the young horses to the infection. The young horses to the infection. The most common way that young horses most common way that young horses get this disease is when they are taken to town and allowed to drink out of public watering troughs and tied to

From Seven to Nine

As we are unable to secure pigs for premiums in return for clubs of new subscribers to Farm and Dairy at prices formerly paid, we are obliged to raise the club from seven to nine new subscribers.

Since March 10 note that it requires a club of 9 new sub-scribers to obtain a pure bred pig. Circulation Manager, Farm and Dairy, Peterboro, Ont.

hitching posts where other horses have been tied that had the disease.—G. H. Glover, D.V.S., Colorado Agricul-tural College.

Abundance of Water and Feed Many farmers would consider that they had a fortune were they providod with a water supply, the equal of that on Mr. David Duncan's farm at Don, Ont. Water is brought from a spring about three-quarters of a mile away through piping by means of gravitation, supplying the house and then flowing on to the barn. Water is before the cattle in individdrinking basins. ual drinking basins. In addition, two large troughs in the yard are full of water at all times and stock have access to it when outside. The sup-ply of water is so liberal that much more of it runs to waste than is used. In addition to the grong ordinarily

more on it runs to waste than is used. In addition to the crops ordinarily found upon dairy farms, Mr. Duncan, the Jersey breeder at Don grows a large acreage of corn. Two silos, having a combined capacity of 350 tons, provide the storage room fer this crop. Silage is fed extensive, and the storage room for the crop. Silage is fed extensive, and the storage of the addition to the crops ordinarily dupon dairy farms, Mr. Dunmeal ration as serves to meet their re-

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Comparison in Favor of Farm

One of our exchanges has in its

One of our exchanges has in its pages a controversy going on as to the comparative success of country and city boys in reaching high positions. The protagonist for the country boy gives the following figures secured by him in the United States:

ures more useful there should be some statement as to the relative number of inhabitants found in the cities and rural localities from which the statistics are gathered. It is interesting to read the opinions of several prominent men who have spoken of the country environment as being more favorable. One railway president says: "Life on the farm is pre-eminently in my judgment an experience which develops independence and self-reliance and, therefore, I think, the spirit of achievement more than any other I know of." Another railway president remarks: "I believe that farm

and, therefore, I think, the spirit of achievement more than any other I know of." Another railway presible the second of the se

the inconvenience to me of getting in and out between my office and the

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ARLE DF 2400 movines fracer P-GTURES OF DAY PATCH 1856 and a Wood Changer of the stable of

farm.

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all the water they will drink twice a day. The following method is used in feeding the grant. Corn is given in 5 o'clock in the morning; water at 7; the hay racks filled at 9 o'clock, when they are also given oats and bran, the proportion being two-thirds bran and one-third oats. Then at 12 o'clock they are fed corn ragain; at 3 in the afternoon oats and bran, and the hay racks are re-filled at 4 o'clock they are given a second watering; and at 6 the last feed of corn is given. The proportion for each horse when upon full feed is as follows; Corn. from 10 to 14 ears at each feed; cats and bran, about three quarts per feed.

and bran, about three quarts per feed.
making in all from 30 to 40 ears of
corn and six quarts of oats and bran

orse per day.

corn and six quarts of oats and bran a horse per day.

The horses are not given any exercise. It seems impossible to give them all sufficient exercise, thus they are not given any from the time they are put in the Larn until a few days before they are to be shipped. As a substitute for exercise, in order to keep the blood in good order, thus preventing stock legs, Glauber salts satisfactory and will, in the preventing stock legs, Glauber salts satisfactory and will, in the salts which we have been to be a substitute for exercise, in order to keep the blood in good order, thus preventing stock legs, Glauber salts satisfactory and will, in the work of the salts are feal about twice a week. They can be purchased very cheaply from the druggist when bought in considerable quantities. They are not so strong as the Epsom salts and they have a desirable effect upon the blood. The same firm also feeds oil meal. They claim that it all the statements of the same from a solid property of the same from the

alo that it gives the skin a soft, mellow touch.

The mangers and feed boxes should be cleaned out twice a day, and the cobs and all other refuse thrown out behind the horses and taken out with the manure. The horses should be given sufficient time to rest their stomachs, and this can be done by giving the first feed at 5 o'clock in the morning and the last between 6 and 7 at night. Horses fed as described usually make good gains. In some instances horses fed and one-half pounds a day for a period of 50 to 100 days. In many instances from one dozen to 20 horses there and an average daily gain of these and one-third pounds a day for a period of 60 days.—Prof. W. J. Kennedy, Iowa Experiment Station.

Our Legal Adviser

ANNIOUS ABOUT SURVEY—B's two lots butt on A's. A year ago B wanted a billed line run. A agreed to pay half, the old line being almost obliterated, the old line being almost obliterated, the old line being almost obliterated, and the old line was a measurement by township surveyor according to Crown Patent, 20 years ago, and was undisputed until hast payed and the old line was a measurement by township surveyor according to Crown Patent, 20 years ago, and was undisputed until hast payed and the patent of the for treepass, but later dropped it. The Fr. L. S. employed took by his line nearly five chains off south end of A's lots and added to B's. On west side, however, and added to B's. On west side, however, the contrast of th

Would A gain or lose by delay in re-survey of blind line. (Death or emigra-tion of witnesses being likely to result favorably to A.).—Rural, Frontenac Co.

is not bound to accept

A is not bound to accept as conclusive the lines run by the land surveyor. Even if A expressed satisfaction with the survey that, in our opinion, would not affect the matter. It is a question of fact where the lines should be properly placed and A is entitled to get other surveyors if he sees fit. A can place his fence on the line as run by the surveyor between himself and C without being considered as accepting the line as run bered as accepting the line as run between the seed of the seed of

DRAIN FROM CHURCH.—There is a church to be built on a lot adjoining my farm. The building committee intends to lay tile around the foundation wall, to drain off the water from the building. The lot on which the church is to be from the committee of the committe

The church authorities have no right to drain the water across your land without your consent even if

land without your consent even if they are willing to compensate you therefor. It would be possible for the parties to proceed under the drain-age act with the consent of the town-ship council, but this is an expensive procedure and is not at all likely to

procedure and is not at all likely to be resorted to under the circumstances of the case. If such proceedings were taken you would have to be fully com-pensated. Fattening Horses Rapidly

Fattening Horses Rapidly
In one of the large horse feeding
establishments of the West the following method is practiced: The
following method is practiced: The
following method is practiced: The
bear and feed gradually, as great care
must be taken for a few days to avoid
colic. It seems most profitable to
feed them grain about five times a
day, due to the fact that the stomach
of a horse being proportionately
smaller than the stomach of a cow,
he needs his feed in swaller quantities and oftener. The hay is placed
in racks so that they may have access
to it at all times. They are given

DRAIN FROM CHURCH-There

I have a metal roof and am well satisfied with it. I intend using more of it this year, because the dust

more of it this year, because the dust never collects on it and when it came through the wind storm in April last year without being injured in the slightest, it seems as if it would stand any gale and never leak.

Fine Barley.—The two tushels of barlev which Farm and Dairy sent to me for a club of four new subscrip-tions was received. It is fine plump grain. I am much pleased with it.— D. N. Anderson, Lambton Co., Ont.

The Forest and Mineral Wealth of Northern Ontario has attracted many people from all parts of the civilized world.

One-ninth of the world's reported output of Silver in 1908 was taken from Ontario mines. New discoveries of undoubted richness are being constantly reported from sections far distant from the far-famed Cobalt. Yet a more certain reward is insured to the Settler who acquires for himself

160 ACRES OF THE RICH ACRICUL-

TURAL LANDS

now open for settlement and made ac-cessible through the construction of Railways and Colonization Roads THE FERTILITY OF THE SOIL IS UNSURPASSED

UNSUFFASSED

The Timber is in demand at a rising price. Mining, Raliway and Colonization. Boad Construction, Lumbering, etc., afford work in abundance to those who have not the mean to realize provide a market for farm produce at prices unequaled anywhere. Cochrane, the Terminus of the T. & N. O. Ry., on the G.P. P. Transcentinental Raliway, now under construction, is in the same latitude as the southern part scaboard.

That the exercinental stage is past.

seaboard.

That the experimental stage is past is clearly demonstrated. The country is rapidly filling up with Settlers from many of the other Provincs, the United States and Europe.

For information as to Terms of Sale, Homestead Regulations and for Special Consistion Rates to Settlers and for Settlers' Effects. write to:

D. SUTHERLAND The Director of Colonization PARLIAMENT BUILDINGS, TORONTO HON. J. S. DUFF

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FARM AND DAIRY fully ten cents a pound difference in

AND RURAL HOME

Published by The Rural Publishing Com-pany, Limited.



1. FARM AND DAIRY is published ever Thursday. It is the official organ of the British Columbia, Manitoba, Eastern and Western Ontario, and Bedford District Quebec, Dairymen's Associations, and of the Canadian Holstein, Ayrshire, and Jer sey Cattle Breeder's Associations.

2. SUBSCRIPTION PRICE, \$1.00 a year. strictly in advance. Great Britain, \$1.20 a year. For all countries, except Canada and Great Britain, add 500 for postage. A year's subscription free for a club of two new subscribers.

new subscribers.

3. REMITTANCES should be made by Post Office or Money Order, or Registered etter. Postage stamps accepted for mounts less than \$1.00. On all checks dd 20 cents for exchange fee required at

the banks.

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

5. ADVERTISING RATES quoted on application. Copy received up to the Friday preceding the following preceding the following seeks issue.

6. WE INVITE FARMENS to write us on any agricultural topic. We are always pleased to receive practical articles.

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CIRCULATION STATEMENT
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Dairy exceed \$8.98. The actual deculation
of each issue, including only the paper sent subscribers who are but slightnames, and sample copies, varies
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Sworn detailed statements of the circu-lation of the paper, showing its distribu-tion by countries and provinces, will be mailed free on request.

OUR PROTECTIVE POLICY

OUR PROTECTIVE POLICY

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FARM AND DAIRY PETERBORO, ONT.

TRICKS IN THE SEED TRADE

It is difficult to adjust any trade so that there will not be misrepresentation in the goods offered. In the seed trade the temptation is strong and there is reason to believe that a good deal of trickery is practised. It is often done in such a way that it is hard to secure a conviction if it were tried. For instance the other day a seed dealer was offering some red clover seed of last year which would probably run three or four noxious weed seeds to the thousand, for 20 cents a pound. No grade name was given, Only the price served to indicate that the seed was represented as No. 1. This is unfair competition to other dealers who really have No. 1 seed to sell.

grades at a certain price. Another dealer, who only handles inferior grades, says to the buyer: "This is my best seed," and he charges two or three cents a pound less than the is hard to comprehend. Scores and

the value of the seeds. Herein is where purchasers of seed should be able to judge the quality of seed in order that they be not misled and for the sake of a few cents a pound buy the cheap seed, which is often the dearest seed in the long run.

Then again it is alleged and there is ground for suspicion on this point that some dealers place good samples of seed at their front doors, but when you buy, you are given seed kept in a rather dark place and much inferior in quality to what you saw at the front door. Thus it is evident that we should be able to judge the seed we buy to see that it lives up to what is required of good seed. We should remember too that we have only seven days from the time we purchase the seed to take an official sample so that if seed is wrong we may get redress against the dealer from whom the seed was purchased.

In every case buyers of seed should compare the seed they get with the sample they purchase by. Many dealers might take this advice too when they order from representatives of the wholesale houses. Furthermore, remember that it is a foolish policy to take notice of a lead seal on an open bag of seed, as inferior seed may have been emptied into such a bag.

A COMMENDABLE BILL

Hon. Frank Cochrane is the father of a bill introduced in the Ontario Legislature entitled "An Act Respecting Town Sites," which provides that where any lot or parcel of public land, which has not heretofore been sold or staked out by the province is opened for settlement. one-fourth of such land shall be reserved for the province whenever subdivided for sale. It would have been better had the bill provided one-half.

The public is slow to recognize that it owns the undeveloped lands of the province. Hitherto speculators have been allowed to rush in when new land was put on the market and reap fortunes when the land should have been sold and the proceeds used for the benefit of the people of the province at large. This is how many millionaires have been created. The proposal to hold part of this land in order that the public may reap the benefit of its increased values is a move in the right direction. It shows that public opinion is becoming educated and that we are beginning to recognize and demand our rights.

DAYLIGHT IN FARM STABLES

About 10 per cent. of the dairy farms visited by the members of the Ontario Milk Commission were reported to be totally unfit to be in the business of preducing human food. In the case of probably 60 per cent. of these, an expenditure of \$10 to Again, one dealer sells his best \$5% and a little extra work would efject an improvement of 50 to 75 per cent. Just why it is that any intelligent man is content to keep stock in stables little better than dungeons first dealer, and yet there may be scores of stables, yes thousands of spray!

them, throughout the Dominion, are Another Burden for the Farmer so dark and dirty and have so little ventilation that it is little short of marvellous that the stock contained therein thrives at all.

Very slight expenditures change all this and work a marked improvement. Why is such improvement not made? It must be largely because owners of such stables through long years of association with such conditions, have little realization of the need for improvement. Many do not go so far as to brush down the cobwebs that accumulate, seeming to think that this is part and parcel of conditions that should go with barns.

Light and air above all things are needed in any stable. Without daylight, the air in stables cannot be the best. Small windows in old stables should be enlarged. More should be put in. This question of light should receive first consideration when planning new stables. There is small danger of overdoing the matter in this particular.

The demonstration farm idea is developed to a considerable extent by Good Farms Competitions, such as those conducted by Farm and Dairy last year, and which are being continued this season. The practical information relative to modern farm practice as gleaned from inspection of these farms and made public through the columns of Farm and Dairy is of prime value to those who read. The essays by these practical and successful farmers, a series of which will shortly be featured, will be of even greater value. Although the competition from this standpoint is of most benefit to those who read, the prize winning farms themselves stand as object lessons, which may fends. well be recognized as such in their respective communities.

What is the Ontario Government going to do with the request of the united counties of Northumberland and Durham for aid in reforesting the thousands of acres of waste land in the united counties? Here is a case where the Government, which has had the question of reforesting the waste lands of Ontario under consideration for several years, has deferred action so long that finally the counties have initiated the movement for reform which should properly have come from the Government. Now, that a definite proposal has been made to the Government, which, if it is accepted, need not cost the Government a cent, the question is what is the Government going to do about

There should be a spray pump of some kind on every farm where fruit trees are grown. One season's trial will prove its worth and the owner will wonder why he did without it so long. There are many different kinds of spray mixtures to use. Good ones may be purchased from manufacturers. Buy a spray pump, find out what mixture to use and spray, spray,

(Weekly Sun)

Some rather startling figures were given by C. C. James in the address in which the Deputy Minister of Agriculture dealt with the decline in rural and increase in urban population of Ontario.

The change that has taken place is largely the result of legislation favoring certain classes of the community at the expense of agriculture. The balance between profit and loss is so nicely adjusted in all lines that a very little favoritism in one direction will make certain lines unduly profitable at the expense of others.

Care with Firearms

(The Globe, Toronto) If every handler of firearms could

be taught never to let a gun for a moment point towards himself or toward anyone else, many of the serious and fatal accidents of each returning season would be averted. It is this habit that distinguishes the experienced sportsman from the stupid tyro, and the man of experience, after watching a friend with a gun for a few minutes, can tell whether he is a safe companion or a man to be avoided. The rule should never be relaxed. Even if a man his looked through the barrels and knows they are empty he should still be careful every moment to cultivate the habit of avoiding a position of danger. The man who intentionally points a gun towards another deserves no consideration, and should always receive the punishment rightly provided by the law for that offence. It is the man who is sure the gun is not loaded who is guilty in this class of accidents. The doubtful man never of

It is unpardonable to allow a gun to point towards a companion. This offence occurs most frequently in boats, when climbing over logs or fences, or when walking single file through the woods or on the open shore. It becomes specially dangerous when loading or in any way adjusting or handling the mechanism of the gun. The most common and frequent piece of recklessness is the lifting of a gun by the muzzle. This most frequently occurs in boats, and the lives and arms that have been sacrificed in this way would make an astonishing list. Modern guns have done away with the old danger of an unsuspected load, but they have tended to induce recklessness. The halfraised hammers and shining caps were a perpetual warning. And the modern hammerless gun is much more likely to be discharged by a jar or shock than were guns of the hammer lock. In addition to the careless handling of guns, there is the danger of bursting through an obstruction of sand or snow scooped up by the muzzle. A very light obstruction will burst a gun, and there is always the possibility of serious consequences.

Even when no blunder has been committed there is a possibility of danger. It is on record that a partridge shooter was watching some wood-choppers, when a large chip flew from a log, striking one of the

or the Farmer

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hammers and discharging the gun. It kicked out of his hand, and, falling to the ground, was again discharged, the contents of the second beyond the second the contents of the second the s ing away part of the sportsman's foot, In that case the hammers must have been down. If properly carried, the accident could not have occurred. Safety can be insured only by eternal vigilance, and it is unfortunate that so healthful a recreation is dic edited by carelessness that is unpardonable.

March 31, 1910.

Depth of Cultivation and Soil Bacteria Activities

Bacteria Activities

Among the numerous agencies which help to produce a fertile soil, bacteria perform an important role. Comparatively little is known as to what extent these minute organisms play in their action on the soil. This much has been found out, that they are very necessary in maintaining and devery necessary in maintaining and every necessary in maintaining and every necessary in maintaining and every necessary in maintaining and leading the soil. The Kansas Experiment Station, in The Kansas Experiment Station, in the influence of depth of cultivation on literature of depth of cultivation upon soil bacteria and the results of these preliminary experiments suggest.

upon soil bacteria and the results of these preliminary experiments suggest the following conclusion:

1. Deep plowing (eight to ten inches) tends to increase the number of soil bacteria in both sandy and still sails.

stilt soils.

2. Deep plowing tends to increase bacterial activity. More ammonia is

3. Deep plowing tends to decrease dentrification, or the reduction of ni-trates and the liberation of the free

4. The volumetric method of quanti-4. The volumetric method of quanti-tative bacteriological soil analysis has the following possible advantages over gravimetric method: (a) It is more simple and convenient; (b) there is less danger of contamination; (c) the results are placed on a more ac-curate basis for comparison. The volu-metric method can be used to advan-tage when comparative results are de-sired. ter we opened it we found a ball of the stripe has the following possible advantages over the gravimetric method: (a) It is more simple and convenient; (b) there is less darger of contanniation; (c) are results are placed on a more accurate the graviment of the stripe of the stripe

Forage Questions Asked and Answered

Answered

(Continued from page 7)
Q.—What do you use for fertilizing for mangel?
A.—Just ordinary manure. We put on from 15 to 20 tons per acre.

Q.—Rotted or fresh?
A.—Fresh every time. Don't use rotted manure. At on of rotted manure is nor worth any more than a ton of green manure, and to make a ton of rotted manure takes two tons of green manure.

green manure.

Q.—Do you not get more growth from rotted than fresh manure?

A.—No.

Q.—Do you hoe any corn with the hand hee?

A.—Yes, we do, and I think it
would pay any one to do it; you cannot get quite as close to the corn with
a horse hoe. Being on an experimental
farm we probably give a little more
attention than the average farmer,
would and when our corn crop is off,

what it does look like; there is nothing else there.
Q.—How do you mix millet and corghum for fodder?
A.—I take about equal weights of Hungarian, millet and sorghum and use about 10 pounds of each and mix them together thoroughly and sow by hand 30 pounds to the acre. If you use Hungarian alone you want to use about 10 pounds but if you mix the three it is not necessary to sow quite so much.

three it is now.

Q.—You have plenty of men. Do
you think it would pay to have these
men cut the corn by hand?

A.—We have been experimenting A.—We have been experimenting with them for some years and we find that we lose about half a ton of

with them for some years and we find that we lose about half at on of corn by cutting with the Linder and a man will only cut about an aere, and the men just work the regular hours, and if the foreman is not looking they do not get a hump on them. Q.—Do you feed clover hay in connection with that feed?

A.—Yes, but not very much.

Q.—How many pounds?

A.—For or five pounds a day. We would feed more if we had it, but when you have 20 horses you would be astonished how many tons we use. You will got better results if you feed not a girl the the sensinge. Ensilage is not a girl the feed of the foods of in itself, but it helps other foods food in itself, but it helps other foods of the foo

silage?

A.—No; we never had any trouble except one time a fool calf thought that binder twine was hay and after we opened it we found a ball of twine inside. Q.—Do y

A.—Yes, if you get a forty foot, the silage is densely packed at the

bottom.
Q.—Do you prefer finely cut ensilage or coarse?
A.—The finer it is the better and the more the cattle will like it.
Q.—Is there more leading.
A.—I think there is.
A member—I am feeding finely cut ensilage and I find the cattle like it better than the coarse.
Q.—At what stage do you prefer to cut the corn!

Q.—At what stage do you prefer to cut the corn?

A.—About a week after you would like to eat it. I do not like it ripe.

Q.—Would you run the risk of frost?

A.—I have not found that frost does a great deal of harm except that you lose weight.

I like Farm and Dairy and would not like to be without it. I intend getting some new subscribers at our factory meetings which will be held soon.—B. E. Roy, Hastings Co., Ont.



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Will You Require any SEED

Yes, but where will you get it? Farm and Dairy has secured a quantity of seed corn that is guaranteed. It is from a reliable and well-known source in the corn belt of Essex Co., Ont. This seed will be delivered on the cob if requested. Seed corn of the following varieties is available:

This Year?

King Philip (Flint), Early Leeming White Cap Yellow Dent, North Da'ota

Farm and Dairy offers any one of these varieties as follows:

Two Bushels for Four New Subscriptions to Farm and Dairy; One Bushel for Two New Subscriptions (Subscriptions to be taken at \$1.00 each). The corn will be delivered f.o.b. at the grower's station in Essex County, Ont.

This great offer means much to you as a corn grower. It means that you can secure reliable seed corn, which will insure you, so far as the seed is concerned, a good crop of corn this coming season, all for the little trouble of canvassing your friends.

If you will grow corn during 1910 take advantage of this offer. Don't put it off until to-morrow. Take this matter up now. Show Farm and Dairy to your friends. Tell them of its many bright features, its practical articles, its special magazine numbers, its illustrated supplements and of the special articles from price winning farmers that will be featured during 1910. They are sure to subscribe. Name the variety of corn that you want, whether on the cob oshelled, and send in your subscriptions at the earliest possible date to

Circulation Manager

FARM and DAIRY -Peterboro, Ont.

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NEEDS THEM,
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If your dealer hasn't it, let us hear from you at once. List Price, \$8.00. We guarantee it to be the most accurate 22 caliber Repeating Rifle in the World-remember it carries the Stevens' Guarantee.

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You have fifteen quick shots without re-loading—twelve if you use 22 Long Riffe, cartridges. Pro Models. One takes 22 short only, the other takes any one of three cartridges—22 short, 22 long, and 22 long Riffe, but the greatest accuracy is obtained by uning 22 long Riffe exclusively in this model.

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mention the name of this publication when writing to advertisers

James Stonehouse, Ontario Co., Ont. The question of cream testing has apparently reached an acute stage judging by the articles appearing in Farm and Dairy during the past few months on this question. One would be led to think that a great injustice was being done to the barton sending. be led to think that a great injustice was being done to the patron sending rich cream to the creamery. Whether there is injustice or not under the present system of testing, creamery men, generally, will admit that pa-trons sending the richest cream are almost invariably the best satisfied with the creamer.

men, generally, will nume trons sending the richest crean are almost invariably the best satisfied with the creamery.

The 17.6 c.c. pipette should, unductedly, be condemned and prohibited for testing cream. I am not so sure, however, that we are going to sure, however, that we are going to cure all the o'lls by discarding the 18 c.c. or the 0 c.c. pipette and adoption of the control of the co

I have understood Mr. Singleton to I have understood Mr. Singleton to say that where the 9 c.c. was used and the work carefully done, the difference between that and the scales was slight. However, it would be more satisfactory to have data from our own institutions and let us see how results compare and if results arrant results compare and if results warrant doubt but what a good processing the second of the s in connection with testing by the pipette and where an operator does not rinse his pipette, a double injustice is done the patron with rich cream because a much larger proportion of rich cream sticks to the pipette.

cream sticks to the pipette.

The 9 c.c. pipette is much more
satisfactory than the 18 c.c. because
of water to be used in rinsing out the
pipette whereas the old style of bottle with a 17.6 c.c. or an 18 c.c. pipette only allows for a small proportion of water which is not sufficient to
clean aut the nignetic.

tion of water which is not sufficient to clean out the pipette.

Where the patrons of a creamery are all sending fairly rich cream and the testing is carefully done, I do not consider that much injustice is done to anyone and we know this, that the patron sending the rich cream always has a more constant test, not up one month and down the next, as is nearly always the case with a poor cream. always the case with a poor cream

Instruction at Western Ontario Creameries, 1909

Frank Herns, Chief Dairy Instructor,

London

There were in operation this year 73 creameries, four less than last year; seven of these make both cheese and butter; 15307 patrons sent milk and cream to these creameries,—1162 more than last year, and only 1678 less than are sending milk to the 211 cheese factories. This makes a total of 32,—232 patrons engaged in producing wilk and gram for the factories in factories. 292 patrons engaged in producing milk and cream for the factories in Western Ontario, 2852 more than last

Creamery Department

Butter makers are invited to send constitutions to this department, to sak guess titous on matter relating to butter making it tious on matter relating to butter making it constitutions to this department, to sak guess titous on matter relating to butter making it constitutions on matter relating to butter making cont. The average per cent. for fat in the cream this year was 24.8. This is a gain of 10 tons over 1908.

The average per cent. of fat in the Eastern & Northern Group 23.3 per cent. The average per cent. for the interest of the average per cent. for the cream for the cream has a constant to the cream this year was 24.8. This is a gain of 10 tons over 1908.

The average per cent. of fat in the cream for the cream for the cream has a constant to the cream for the cream for the cream for the cream for the cream has a constant to the cream for the cream for the cream has a constant to the cream for the cream for the cream for the cream for the cream has a constant to the cream for the cream for the cream has a constant to the cream for the cream for the cream for the cream for the cream has a constant to the cream for the cream has a constant to the cream for t

DETERMINATION OF BUTTER FAT

Sixty-six creameries are cream collecting and seven are both cream collecting and seven are suggested as the seven and collecting and seven are suggested as the seven as the seve lecting and seven are both cream col-

using the oil test.
Forty-nine creameries are using the pipette for taking the sample for testing, nine creameries are using the sacles, and five the scales and pipette together. This is six more than last year. Only three creameries are now using the box churn, fourteen creameries are using the pasteurizer the same tries are using the pasteurizer the same tries are using the pasteurizer the control of the pasteurizer than the pasteurizer than the control of the pasteurizer than the past year, twenty-two creameries are using large cans for collecting cream, nine are using jacketed cans, one creamers small cans, and only 17 creameries are now using the cream tank for collect-

VISITING PATRONS

VISITING PATRONS

There were 230 full day visits, 73 call visits made, making a total of 303 days at the creameries; 416 patrons were visited, the Instructors going out on the cream routes at different creameries and while the drawer was getting his cream weighed and sampled the Instructor had a short talk with the patron regarding the care with the patron regarding the care of the creamery has the sections where the creamery has the sections where the creamery has the section where the creamery has the section of soour. In some cases the Instructors found the separators in bad shape and pointed out to the patrons the necessity for proper cleaning and skimning of a richer cream to get best results.

There were 382 tests made for mois-

There were 382 tests made for mois-There were 382 tests made for moisture in butter, the average moisture content for the season 14.66 per cent., last year it was 14.33 per cent, fifty-five samples showed over 16 per cent. moisture. These samples were taken from 26 creameries, 14 in the South-orn Group, and 12 in the Northern orn Group, and 12 in the Northern that we are getting to mention here that we are getting from the first the line in the matter of motivation to butter; and I would strongly urge the creamery men to look out for this butter, and I would strongly urge the creamery men to look out for this point, and leg to point out that "quust not overdot this condition. The average heighest test for moisture was 15.9 per cent., and the lowest was 15.94. The average per cent of moisture in the Southern Group was 14.77 per cent., while in the Northern Group it was 14.56 per cent.

The total expenditure amounted to \$16.159, made up of four new creameries \$10.369, and \$5.791, spent in the usual improvements.

usual improvements.

The creamery meeting beld in Guelph on Dec. 8th., was exceptionally well attended. The change from having set addresses and confining ourselves to dicussions of special subjects seemed to work well and many valuable points were brought out by

the mak more not We say tory work after the *Part o last conv Dairymen

FOR SAL TWO CENT FIRST CL sition as \$75 TO \$10 Refining

date chee WANTEDson to s Dairy, Pe mission Write Ci Dairy, Pe for your applicatio

WANTED-

W Persons to waste space be made I week. Wri full particu

MONTR

facture cheese.

At present you have in Eastern Ontario about 30 dairy instructors. In the State of New York we have six cheese instructors, but we have over the State of New York we have six cheese instructors, but we have over the State of New York on the Interest of New York of New

*Part of an address delivered at the last convention of the Eastern Ontario Dairymen's Association.

FOR SALE AND WANT ADVERTISING

TWO CENTS A WORD CASH WITH ORDER

FIRST CLASS BUTTER MAKER seeks po-sition as butter maker. Apply to Box O., Rupert, Que.

\$75 TO \$100.00 weekly made handling our goods. Salary or commission.—Fairfax Refining Co., Cleveland, O., U.S.A.

WANTED—Situation in large and up to date cheese factory. Can take any posi tion.—Robert McMillan, Payne's Mills,

where the coming sea son to sell subscriptions to Farm and Dairy, Peterboro, Ont. Good cash commissin for each subscription taken. Write Circulation Manager, Farm and Dairy, Peterboro, Ont., for sample copies for your patrons. Samples sert free on application.

WANTED

Persons to grow mushrooms for us. Small waste space in yard, garden or farm can be made produce from \$15 to \$25 per week. Write for illustrated booklet and full particulars.

MONTREAL SUPPLY CO.

MONTREAL

got? I leave it with you to find the answers.

NO INTENTION OF DEING PERSONAL.
I may have been treading on the toes of some in this audience in mentioning these cases. If so, I desire to say that I have no intention of being so personal. I do not know what factories are referred to in the report of Dr. Connell. I have merely cited the property of t

When the temperature of the nights reaches 65 degrees or over we are bound to have over-ripe milk delivered at the factory the next morning, unless the milk has been cooled.—Geo. H. Barr, Chief of the Dairy Division, Ottawa, Ont.

Renew your subscription now.

4 142 31

AN UNIOUE STATE OF APPRISS.

We criticise the farmer, but gentlemen, the work of the larmer are the finest people in the larmer are the finest people are conservative and content the work of the proves better. Now it's up to us to show them the things that are better. The milk tusiness is theirs, the product is theirs, and they should the product in the product

Canadian Dairymen and Thoroughness*

J. A. Ruddick, Dairy Commissioner, Ottawa.

J. A. Ruddick, Dairy Commissioner, Ottouc.

It has been a sort of hobby of mine to study dairy conditions in other to the control of the cont

AN INSTANCE OF LACK OF CARE. Allow me to draw your attention to a circumstance which Dr. Connell mentions in his report of an investi-gation made last summer into the question of the pasteurization whey, which illustrates this point very sayir.

aptiv.
You all know that the cheese factories have been advised to pasteurine the whey, or at least to heat it to a temperature of 155 to 158 degrees, in order to destrop nearly all bacteria in it and thus prevent to a large extent the contamination of the milk cans and improve the feeding value

*Part of an address delivered at the On-ario Dairymen's Convention last winter,

aptly

TU Have

DRUMMOND

HARD MILKER

OUTFIT

consists of a Teat Bistoury, Teat
Opener, Milk Tube. Teat Expander
and a supply of Antiseptic Songle
total as a seat, compact case. Everytotal as a seat, compact case.
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PERFECT STEEL CHEESE VAT

Our 1910 Steel Vat is going to be just a little better than ever before Can't improve much over 1st of the provided in this year's vat will be 20 gauge — the heaviest ever used——I was a dandy. The tin lining in this year's vat will be 20 gauge — the heaviest ever used——I gauges where than your local tinamith uses. The outside frame will be a walker than your local tinamith uses. The outside frame will be a walker than your local tinamith uses. The outside frame will be a walker than the principle of the provided that wanted, and then painted, making the provided that wanted and then painted, making the provided that wanted and then painted that wanted and the painted that wanted tha

THE STEEL TROUGH AND MACHINE CO., Limited

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THE are haunted by an ideal life, and it is because we have within us the beginning and the possibility of it. -Phillips Brooks.



The Ways of Providence

By Agnes Booth

startled.

She put her hands down upon the

hay, feeling again for the nest of eggs, when her fingers touched something smooth that rustled as it moved beneath her hand. She held the ob-

here and her hand. She held the object up before her eyes. It was a long, narrow, unsealed envelone. She lifted the flap and pulled out the contents—her eyes growing wide and

Was it-it was-money-bills!

ment to the application of the quota-

Across the meadow and through the orchard she hurried to the Maynard farmhouse, laughing and crying and murmuring indistinct words of praise

"You and your mother have worked hard. Luella," she said kindly, "and you have done well to save it up so soon."

you have done well to save it up so soon."

"Can't it be sent over right away, now—this very minute?" pleaded Luclla. "I've waited so long for it—"

"Why, I don't know, Luclla. I'll blow the horn for Mr. Maynard and miveh he'll—"

Kind-hearted Mr. Maynard agreed at once; the piano was carefully at once it he piano was carefully the beautiful the way of the long the beautiful the strong flooring, quick in the latter than the same of the long of the long of

ing quickly Link between the axies of the low wheels used for drawing logs, and with the assistance of his hired men M. Maynard soon had the instrument on its way to the Whitman

farm.

nd thanksgiving.
Mrs. Maynard warmly

with the breathless, panting girl.

(Concluded from last week)

66 feel awfully worried about your pa, Luella. I've made up my She sat still for a few minutes, crying softly, but with a lighter heart. mind that he goes to a doctor every day—and he looks terrible! I'm afraid it's his liver, Luella!' "I'm glad I asked the Lord, any-how," she murmured, with childlike satisfaction, "it will show Him I real-ly do believe!"

"I hope it's his conscience," murmured Luella, but she strove to comfor her mother by reminding her that her father's appetite did not seem to be affected and that he did not usually conceal from them any trifling indisposition that he might

Luella felt strangely old and hard of heart. She could not forgive her father for what she deemed a great injustice, and she felt that the longed-for piano would never be hers.

One day, after her father had start-One day, after her father had started on his mysterious daily trip, she remarked despondently, "Ma, I'm going over to Mrs. Maynard's and tell her she needn't wait any longer. She can let the piano folks have the upright in part payment on the grand. There's no hope of my ever having it."

Mrs. Whitman looked at her with tearful eyes.

"I suppose that is the Lest way, but. oh, Luella, your ma is so sorry!" and the poor woman put her apron to her eyes and sobbed.

"Don't you cry, ma, dear. I'm not ing to. We can call this one of the going to. We can call this one or use ways of Providence that we hear so much about," said Luella bitterly.

As Luella passed the barn a proud-cackling hen fluttered out of the

"That old speckled hen!" Luella exclaimed wrathfully, "she is forever laying in the hay-mow, instead of staying in the hen-how, instead of staying in the hen-how, where she belongs. I'll see if I can find her nest."

She climbed the straight ladder with accustomed swiftness and groped about in the dim, sweet-smelling haymow

mow.
"Three, four, five," she counted aloud; then her memory turned hack to the day when ahe and the mother had counted the bills, and the anguish of her loss came upon her versesh. A sudden desire for help overame her and she knelt upon the hary with clasped hands and upraised face.
"Oh, Lord," she prayed, "send me back the money!"
A discouraging theories.

back the money!"

A discouraging thought flashed into her mind, and she added, as if to some person deads her: "No, you can't do that, because pa's got it, but," renewing her prayerful attitude of mind and body, "send me some more, dear Lord; send me some more"

Luella hurried home by the shorter

"It's coming, ma, it's coming!" she

gasped breathlessly.

"What is coming, Luella? Have you gone crasy, child?"

"The piano, ma! See, they're turning up the road now. The Lord sent me the money! Quick, ma, let's push the organ out of the way—we want the piano across that corner. Oh, ma, do help me," she begged. "I'll tell you all about it when they're gone. I prayed for the money and the Lord sent it!"

"I'm sfraid, daughter, I'm afraid." repeated Mrs. Whitman when Luella had poured forth the whole story of her prayer and its seemingly mirace.

"Mandy," he whispered.
Mrs. Whitman bent closely over him, whitman bent closely over him, which was an advantage of the content of the conten

dering in his mind.

The sick man gained rapidly and

the Lord sent it!" I'm sfraid, daughter, I'm afraid," I'm sfraid, daughter, I'm afraid," repeated Mrs. Whitman when Luella had pourod forth the whole story of her prayer and its seemingly miraculous answer.

"Afraid of what, ma? Don't you believe that the Lord answers praystelling that the Lord answers and I'll put the cricket under your feet and then I'll play for you, pal's answered hastily, "but—but not in that way, "Re—He uses some human instrument." I don't see," Luella's tone was rebellious, "why the Lord couldn't was rebellious, "why the Lord couldn't seed to the lord while the seat and knelt beside him."



Fine Cement Farm Home, Owned by Mr. R. W. Walker

Was it—it was—money—bills!
She scrambled hastily down the ladder and, seated on the barn floor, joyously examined the prize. Ten twenty-dollar bills! Crisp and new, with
a narrow paper band holding them together. Two hundred dollars!
'The Lord loveth a cheerful givry the control of the content o of Ontario Co., Ont. One of the three highest scoring houses on the Farms en-tered in District S., in the recent Dairy Farms competition conducted by Farm and Dairy. Read description and see floor plans also in this issue.

as easy as He could make some rich man come and give me two hundred

dollars!"

Mrs. Whitman was silent.

"I do think the Lord sent it, ma," Luella urged, with radiant face and shining eyes. "See, it is spick span new! You shall have this money, ma, for yourself—you need so many

for yourses, things,"
"I'll take it, Luella, and put it away," said the mother with increasing anxiety, "we must tell your pa about it and ask him what to do."

But when they next saw Jabes

But when they next saw Jabez Whitman they could not ask him that,

Whitman they could not ask him that, or anything else.

He was brought home unconscious and laid upon the bed in the "best room," where two doctrs sewed up a terrible gash in his head, while Luella and her mother watched in frightened awe the pale face that looked so unnatural without its accustomed.

It was weeks later when Jabez opened his eves and reached out a gaunt, shrunken hand to his wife.

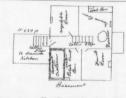
"Where'd you git it, Luelly?"
"Pa, dear," the girl answered solumnly, "I prayed for the money and emnly Lord sent it to me-two hundred dollars—new money, pa, just made—
crisp and—"
"Luelly!"

He tried to raise himself, but sank He tried to raise himself, but sank weakle back agam. His eyes were strangely bright and a look of glad-ness, never seen there, before, rested on his pale face.

"Luelly, he whispered, "where'd out it's he hay-mow, pa, right beside my knees, where I was praying."

"The Lord be praised!" he said feebly.

feebly. "There, ma," cried Luella, "didn't I sav the Lord could do that!" 'Mandy," said Jabes, almost tenderly, "set down-you must be tired." She seated berself near him, crying nervously behind her apron. "Mandy—and Luelly," the sick man spoke slowly, "I didn't put yt. money in the bank—that day. Instid I took out enough more to make two





Floor Plans of Farm Home of R. W. Walker, Ontario Co., Ont. | See Description of House in this Issue

hundi chang mean lost t thoug until-scared cry. genuin

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up ag wood you go An' I own w tough old gri layin' in a so

Lord a began ...The Jabez, Mrs.

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hundred dcllars. I got 'em to exchange and give me new bills. I meant to buy the Allen wood lot. I lost the money—on the way home, I thought. I thunted for it every day, until—that time—the mark day, until—that be became to trouble god until—that time—the mare got scared—" he began to tremble and

cry.

'Oh, don't, pa!" cried Luella, in genuine distress, "Ma and I will save up again and give it to you for the wood lot!"

'Oh, don't, pa!" that Luelly I'm glad

up again and give it to you for the wood lot?

"It ain't that, Luelly, I'm glad you got the pianner-you deserve it. An' I guess the Lord sent it—in His own way—though His way was ruther tough for me!" with a touch of the foll grimmes. "But Mandy, as I was layin' there on the ground, goin' off in a sort of faint, I was awful scared at thought 'twas a judgment of the Lord agin me."

He paused, breathing heavily.

"The ways of Providence, pa—" began Mrs. Whitman, timidly.

"They air inscrewbuble," affirmed Jales, seriously, but with a gleam of humor flashing into his sunken eyes.

... Friendship

Mrs. M. C. Ellenboro, Roseneath

Mrs. M. C. Ellenboro, Roseneath

(Concluded from last week)

The friendship that comes to us when we ride on the crest of the wave will quickly disappear when we go down into the troughs of the sea. The friendship that springs out of office and position will leave when the office and position will leave when the office is gone, and the friendship that comes when an office is wanted will vanish when the office is won. The friendship that is born of money or wealth will slip away when our bank account becomes low. Give me the friend who comes low. Give me the friend who we will be the friend that stands by me in the bank of trouble, that nestles up to me when of trouble, that nestles up to me world frowns, that will not pass by when I lie wounded, stripped and beaten and lift me up, and carry me to the order hands. To have such a friend as that is better than gold, better far than all the world's cheap applause.

Oh, such a friend, He is in truth, Whatere his Let.

Oh, such a friend, He is in truth, Whatever his lot may be; A rainbow on the storm of life. An anchor on its sea.

If there's something good you know Of another, friend or foo, Samething meriting your praise. Stought ib to little ways. Though it be in little ways. Something kindly tender, true, which was a something the stought of the control will hope and faith renew, and lead others like to do, Always tell it.

If there's something ill you know of another, friend or foe, Some mistake that he has made. And the penalty has paid, Something better out of sight, That to drag into the Hight Would not aid the cause of Right, Never tell it.

Whatsover you may know of another, friend or foe, if the telling of it would Not result in any good. Not result in any good. Know on you there is no call Tgujet censure on him fall, Spoak you well or not at all Of another. -Henry Waldorf Francis

...

Improvements on One Farm Improvements on One Farm

"Since entering the recent dairy
farms competition a coment ran has
dawned on its coment has been used
in the following Coment has been used
in the following Coment has been used
in the following Coment and the company
walks made around to house, platform for well. floor for well shed and
large coment cistern
holding about 90 barrels, has been the
in, to which the wind mill is attached
and the water forced to the house,
we also have a platform and stand
wade also of cement on which the milk
reseals are washed in summer. vessels are washed in summer.

We have as has been said water forced to the house and this gives us many conforts, for it means water everywhere, kitchen, basement, and bath-room. We have, basement, and bath-room. We have, basement, and bath-room. We have, been to the form of a nice large pantry making the second one. We do not use No. 1.

Another improvement is the addition of a nice large pantry making the second one. We do not use No. 1.

The upward Look the upward Look built on two sides and cement floors and steps. A 10 inch round post stands on each corner which supports the top places. This is a great convenience, and comfort in the winter.

Another improvement is the addition of a nice large pantry making the second one. We do not use No. 1.

The word look the upward Look built on two sides and cement floors and steps. A 10 inch round post stands on each corner which supports the top places. This is a great convenience. An outside with 15 % 24 feet, with 8 foot like with 15 % 24 feet, with 8 foot like will be a say are a convenience. An outside is a great convenience. An outside or back porch was closed in, plastered or bearing the second of the will be same as the main in the second of the secon



Rear View of the Home of D. J. McClure, York Co., Ont.

This farm scored fifth in the recent dairy farms competition conducted by a real party. Photographs of this farm have been published before in Farm and Dairy. Photographs of this farm have been published before in Farm and the absence of all rul bish and debris around the house, and the well kept lawn, the property of the second of the

and made warm, and it lightens work very much. A refrigerator has also been added to our kitchen, during the past summer. Two very handy closests have also been arranged. We are quite satisfied with our water system which with our bath room gives great comfort and is a real luxuu ji n a country home. This, with the planting of comfort and is a real luxury in a country home. This, with the planting of some choice shrubs on lawn are the improvements, made during the past year for the benefit and comfort of our house."—Mrs. McClure, York Co., Out

A Concrete Farm House

A Concrete Farm House
One of the best farm houses on the
farms entered in the recent dairy
farms competition was that shorn
on page 16, the home of Mr. R.
W. Walker, of Ontario Co., Ont. This
is practically a new farm home, built
of cement, the plans of which we show
herewith also. The description of Mr.
Walker's house and how he built it
makes interesting reading. He writes,
'Our house was built in 1905 from
plans which were prepared by myself.
I also superintended the work of building from start to finish.
The basement is the full size of the
main part of the house and is built
full that frame of 2 by 4 studding,
with 9 for the form of the form
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crete rock raced mocks 8 III. A 20 III. and 4 iii. thick, laid in cement mortar. All the joints are tuckpointed with a half-inch bead of cement plaster. In laying up the blocks every 3rd course was suiked to the frame by 5 inch wire naits bedded in the mortar.

The blocks were made here on the ground with a mould which made two at a time. They are made of sharp sand and gravel, 10 parts of gravel to one of cement, and faced with clean to one of cement, and faced with clean sharp sand, 3 to 1 of cement. The cestage was the Rathburn Star Brand. The littlels, and window blocks, for all the doors and windows blocks, for all the doors and windows were made of sharp sand, 7 to 1 cement.

In making the blocks, three men could make up to 200 blocks a day. The stone masonry above ground is built with dressed stone, laid up in the broken Ashley pattern and tuck-

The chimneys are all solid cement concrete to above the roof, then fin-ished with rock faced blocks.

HEATING THE HOUSE

HEATING THE HOUSE

The house is heated by a hot-air furnace using either coal or wood. The attie is used for a store room. The roof is overed with steel shingles made by were did not supplied from the tendency of the tende A roce, O incress wine any o rest user, it is forced from the cistern to a tank in the attic, by a pump in the cellar. The water is then drawn from the tank by taps at the sink and in the pantry. The house gives good satisfaction, is perfectly dry and warm in winter and cool in summer. The cost to build this house, including all material, work and board, was about \$8,000.

MRS. WALKER WHITES

"We did not have many changes or improvements made for the Dairy Farms Competition, as one or improvements made for the pairy Farms Competition, as one or improvements in particular. I might say we have had the long diacnee Bell telephone put in the house and find it a great convenience. We all

tance Bell telephone in the long distance Bell telephone in the house and find it a great convicience. We also had a balcony built over a substantial of the substantial of the substantial of the house which add the much to the appearance. We did have a new iron pump in the hard water well near the kitchen door, in place of the old wooden pump which had seen its best days. We have a new washing machine to help us in our heavy washing, which we appreciate very much."

... A Woman Winner

The pig I received from Farm and Dairy for securing a club of seven means subscribers for that paper is a beauty and far above my expectations.—Mrs. W. A. Pue, Peterboro Co., Out. Co., Ont. ...

By rubbing soap on the hottom of kettles before placing directly over the fire, the black may be wished off very easily. Grease will death and the sow well, as the soan helps the sound in the sound of for this purpose.

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

Do farmers eat the proper sort of food ?

The farmer of today buys a much larger proportion of the food that goes on the table than he did ten years ago. It's a good thing that this is so because he has a great variety to select from.

He should, however, use great care in selecting for the best results in health and strength.

The widespread tendency in the city to increase the amount of Quaker Oats eaten is due very largely to the recent demonstrations by scientific men that the Quaker Oats fed man is the man with greatest physical endurance and greatest mental vigor.

Farmers should give this subject careful thought and should increase the quantity of Quaker Oats eaten by themselves, their children and the farm hands.

have our prayers answered. We can-not fool God although the devil may

In order that we may see our sir God may send trouble upon us. When this happens we should not lose faith in God's love or in His promise to give us the desires of our heart. What give us the desires of our heart. What we call resignation is often only despair and lack of faith. Instead of giving up hone we should resolutely and prayerfully endeavor to search out and remove the sins from our lives always believing that if we have faith Cel will within the high the state of the state of the search of slways believing that if we have faith God will ultimately give us even more than we can ask or expect. We should remember the exportation: "My sone despise not thou the chastening of the Lord. nor faint when thou art rebucked of Him: For whom the Lord. buked of Him: For whom the Love loveth He chasteneth, and seourceth every son whom He receiveth. If ve endure chastening, God dealeth with you as with sons: for what son is he whom the father chasteneth not?? (Hebrews 12, 5, 6, 7). When, there-fore twelly comes upon us was about fore trouble comes upon us, we should always remember that it is only for a always remember that it is only for a season and only for our own good that it is sent by God, that God loves us and that its purpose is to fit us for great blessings to follow. This though! makes even our troubles seem light and prepares us to receive all the sooner the favors God has in store for us.—I.H.N.

... How to Make a Lawn (Concluded from last week

There are two seasons at which a lawn may be successfully seeded, in the spring in April and May and in Sep-

VARIETIES OF SEED

The ideal lawn grass is one with receping permanent stems. Kentucky lue grass, though in germinating, blue grass, though in germinating, makes a strong permanent turf, but it does not attain its proper develop-ment until the third year after sow-Where immediate wanted the mixtures offer distinct advantages, because all contain some vantages, because all contain some quicker germinating varieties. If the quality of the land is uncertain or mixed, the grass mixtures are again valuable, because one or another will

As the Kentucky blue grass will thrive in any but an acid soil it is the groundwork of all lawn mixtures. most common addition to the blue grass is one or more of the bents or red tops, quickly germinating creep crasses. These are expressly adapted to the drier sandy soils which are usually too acid for te perfect growth of

tucky blue grass, eight qts. of Rhode Island bent and three qts. of English rew. The English rew will begin to grow almost as aoon as it is planted and by the end of the first mouth will make a presentable sheet of soft green. The Rhode Island bent of soft green. The Rhode Island bent comes along soon after the rye and if the soil is not just what it should be in the way of fertility it will take hold and form a good, close turf where the blue grass would hardly make a showing. The English rye unfortunately is a biennial and will respect to the second summer. Eventually the the second summer. Eventually the the second summer.

grass, and some persons seem to think that planting these quicker germinat-ing grasses is only a waste, but they forgot that the Kentucky blue will not make a turf before the third year and in the meantine you have been

enjoying a beautiful temporary lawn. Now, as to making a lawn by sodding, we never recommend it unless the lawn is small and immediate effect is desired. In the first place it is next to impossible to get good sod to impossible to get good sod in any great quantity; in the second there is the expense of cutting, lifting, cart-ing and laying down the turf and then beating it down, and in the third place it is impossible to make perfect unions between different sods. If the sods are laid in the autumn it is likely to be estimated, interest the contractions. to be seriously injured by heaving dur-ing the winter, while if it is laid in the spring it is equally certain to be so dried out that great gaping chan-nels will be made where the sods should join.

... Many Improvements Made

"We feel thankful to Farm and Dairy for many good things we have received by improvements in our sur-roundings owing to the recent Dairy Farms Competition. We have install-ed a tank over our kitchen which is filled from the eave of main house, and which has given us much comfort and also soft water with no pump-

The men have whitewashed the In men have whitewashed the stalles and now keep them in a much cleaner condition than formerly. We also had a supply of wood which was obtained by cleaning up the yard, fence corners, etc. I very much ap-proved of my husband competing in proved of my husband competing in the competition. It was the means of many an improvement on our farm which was profitable. It also added to the appearance of our home. I would advise every woman who has a husband running a farm to make him

OUR HOME CLUB

WHERE IS THE HIRED MAN?

Where is that hired man? Poor hope he has found a peg hang his hat on.

to hang his hat on.

Now there are hired men and hired men, as there are farmers and farmers, and then, too, there is always the other side of the question. I would like to hear the old man's story—upon my word I would—and to know just why he fired yon. Conditions must be vastly different with you to what they are in this county if you were sacked at this time of the year with spring at our down.

were sacked at this time of the year with spring at our doors.

I know of one young hired man who was under the delusion that he was "the boss" and thought "the old man," as you call him, should do the work he was hired to do. That couldn't be you? If a farmer can afford to pay a man to do his work he has as much right to sit and read his paper or go for a drive, as any other omployer, and it is none of their business, that is, granted he has a fair share of work to do and is not a fair share of work to do and is not

A hired man, be he a clerk, office boy or farm boy, if he be true to his position whatever it is, makes himself so necessary to his employer he is not in much danger of being fired at any time of the year.

at any time of the year.

If all the work you speak of could be done why don't you get at it and do it? Some men have to be told to do everything. They walk all around a woodpile and can't see it unless the farmer says, "There is a cord of wood and an axe," If the farmer is away, they can'f find a job. If that farmer had lots of money (sometimes he has not) and sent a wood man yawy just to save a dollar. good man away just to save a dollar or two, why I do hope no good man passes his way again for a while, for money is of no moment when a good reliable man is in question. My sym-pathies are with the hired men, for patties are with the hired men, for as a rule they work faithfully just as much so as in any other position, and it is their own fault if they are not happy, anny hired men think their lot a hard one, but it is their chosen lot a hard one, but it is their chosen work for the present, and it is up to them to be as true to it as if it were the highest office in the land. It is the man at the work that ennobles or degrades it. Do not be a mere ma-chine. Study, read and you will think your work a pleasure. Take up some special line of reading, work it out; it is worth the trial. I like to think of some who were "our boys" some far awar who are working out the

Little fame or glory comes to these silent home workers who—in the shadow—are doing, after all, the greatest of all the great world's work. We are apt to take so much as a matter of course, and we are slow to realize the ultra-importance of these home mothers, who plod somehow through the busy days teeming with a multitude of duties, how great, only they

messessessessessesses know. Wives of men in any walk of life are to be found capable of great things, but I believe "the wife of the farmer of "moderate means" has more scope for her powers than many of her sisters.

With few conveniences she is expected to be housekeeper and homemaker. She goes through the endless routine of the common "day's work" routine of the common "day's work",
—the washing, ironing, serubbing,
dusting, and all the baking and dishwashing attendant on the inevitable
"three meals a day." She can cook
a delectable meal and entertain her
guests while they eat it, incidentally
abe finds time to bring up her chilabe finds time to bring up her chilmember as expectable and useful
member as expectable and useful
member as expectable and as a service of the common service of the comm and nurse, "general factorum"—in short, a genius. Do you wonder that the clever girl called her "the great-est woman who ever lived"?—"Sis-ter." ...

Stanley and His Pig

In a recent issue we published a tter from one of our boy readers letter from one of our boy readers who had won a pure bred pig in return for securing a club of seven new sunbscribers to Farm and Dairy.

We are in receipt of a letter from this boy, Stanley E. Canfield, and also a photograph of Stanley and his



Stanley E. Canfield and his Premium Pig

pig as shown above. Stanley writes, "I was only a week getting my club of new subscribers to Farm and Dairy. I went canvassing after school. One of the boys at school had a premium list and when I read in it the offer to give away a pig I decided to get one." Is there not some other own would like a rise of his hard by when would like a rise of his ore boy who would like a rise of his ore boy who would like a rise of the ore boy. who would like a pig of his own?

... Competitions a Good Thing

I think farm competitions are cer-tainly a good thing, because they induce farmers to improve in their methods of farming, keep better stock better machinery and implements and to better their home and surroundings. Farmers of favorable cicumstances, improving their places and advancing farming in every respect, should be a good example to cause less unfortunate farmers to strive to improve their ways and methods.—Mrs. A. Smith, Durham Co., Ont.

... A Rack for Drying Jars

For drying jars, large-mouth bot tles, etc., a strip of wood of any length desired fastened to the wall



view; B. with six-inch pegs, five inches apart, slanting outward, is a very great con-

Renew your subscription now.

join in the betterment of the home and life in general.-Mrs. G.L.H., Kentucky grass. Where a greensward for immediate effect is wanted, sow to each acre in the fall a mixture of ten qts. of Ken-Huron Co., Ont. of some who were "our boys" far away who are working out . . . far away who are working out the study they began when here. Their letters are a real delight. If you do not care to read or study, I pity you. But could you not try to like it and if not, have some hobby for a recreation, even if it is only the farm chiekens. Make yourself so necessary to the farm that they can't get along without you, and I venture to say you can stay as long as you like and at an reasonable figure you name.—"Aunt Faithie." Renew your subscription now. Galt Shingles A NY progressive minded, unprejudiced man must admit that as a roofing material for any building, public or private, slate has only one advantage—durability. It is not water-light. It is very expensive to lay and more expensive to repair. Its immense weight necessitates a heavy roof-frame and massive walls. "Aunt Faithio."
THE FARMER'S WIFE-AN APPRECIATION
We read recently of a prize offered
for the best answer to the question,
"Who is the greatest woman that ever
lived?" This question was given to
a girl, who instead of referring to
some world-wide celebrity, gave as her
answer, "The wife of the farmer of
moderate means"—and the answer
was both clever and appropriate.
Little fame or glory comes to these and massars waste.

"On the control of the control plete in each sheet -no trimmin "Shingles are the result of yee of study and effort to produce a reasonable price, a practi roofing material suitable for classes of buildings. Our free booklet "Roofin Economy" fresh from the pres tells all about this modern roofing Name and address?

THE GALT ART METAL CO.,

GALT, ONTARIO.

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ordering pattern a ch one of se essenti March 31, 1910.

477 Design for Embroidering a Blouse or Shirt Waist. Patterns for Front, Collar and Cuffs, or Sleeves

476 Design for a Braiding or Border.
The border is five inches wide and one three-quarter yards are given.
Soutache braid and rat-tail cord are suitable.

ABCDEFG KITKLMK OFQRFGU YWHYZ M

473 Design for Embroidering a Veil Case

MERCHER STERNER

484 Design for Embroidering a Border or Band.

The border is one inch in width and five and a half yards are given.

389 Initial Letters in Script

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he is ex-nd home-he endless y's work's and dish inevitable rtain cidentally her chil

can cook d useful seamstress tum' nder that the great-"?—"Sis-

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are cer they in eir meth er stock urround-cicum-aces and respect, ause less e to im-ls.—Mrs.

Jars uth botof any

s apart,

We cannot urge too much on wom-a ordering patterns, the importance carefully giving name, address, size pattern and number of same. Sev-al orders are waiting to be supported. al orders are waiting to be filled, ch one of which lacks some one of se essentials

480 Design for Embroidering Wreaths in Three Different Motifs. Two large and two small wreaths of each design are given. The larger openings are 2%, the smaller 134 mehes in diameter.

... Care Must Be Given

Embroidery Designs
Designs Illustrated in this column
Realising the great interest that our readers take in the new spring styles, we shall continue to give special attention to the pattern department of Parm and Darie, which week and next week only. Look over the Illustrations The State of the special attention to the pattern department of Parm and Darie, the week and next week only. Look over the Illustrations The State of the S



The princess gown is graceful and attractive. This one can be made either in walking or round length and is adapted to a variety of materials.

The gown is made with full length panels at front and back.

back.

Material required for medium size is for medium size is 11% yds. 24, 8% yds. 32 or yds. 44 in. 32 or yds. 44 in. wide wij yds. 44 in. wide wij yds. 44 in. The pattern s cut for s 32, 34, 55, 38, 40 and 42 inch bust and will be mailed on receipt of 10 cts.

WORK APRON 6015.



PRON 6815.

The appron that is simply made white simply made white at the same time really proteets the goven and can be slipped on and off the state of the same time to be well liked. This one fulfils all these reflections are supported by yelds. For or 3½ yelds. 36 in. wide.

The pattern 605 is

4½ yds. 27 or 3% yds. 36 in. wide. The pattern 6015 is uit in sizes for a 34, 38 and 42 inch bust and will be mailed on receipt of 10 cts.

GIRL'S DRESS 6600. The slightly long



waisted dress is always a becoming one to counger be worn with or without a sash. The shaped yoke is pret-ty and novel but is not necessary and not necessary and can be omitted if a plainer dress is wanted.
Material required

Material required for medium size is defined in the formal formal

MISSES' SHIRT WAIST 6583



Shirt waists that are made with tucks on the shoulders, concealing the arm hole seams are the latest. They mean breadth that is so becoming to girls.

Material required for 16 yr size is 3% yds 21 or 24, 23/4 yds 32 or 2 yds 44 in wide

The pattern is cut for misses of 14 and 16 yrs and will be mailed on receipt of 10 cts.

GIRL'S SEMI-FRINCESS DRESS 6101.



Semi - princess the prettiest for young girls, and are shown in many styles. This one is simple but dressy by means of the bertha and panel which is arranged over the plain dress.

Material resses s are among

dress.

Material required for medium size is 8% yds. 27, 6% yds. 32 or 5% yds. 44 in. wide with 12% yds.

wide with 12% yds. of banding.
The pattern is cut for girls of 8, 10, 12 and 14 yrs. and will be mailed on receipt of 10 cts.



SEVEN GORED SKIRT WITH TUCK ON CHILD'S DRESS 6597.



The simple little frock that is made full and joined to a yoke is the prettiest for tiny children. This one includes a panel at the front that allows use of that allows use of the combroidery or other

BOY'S OVERALLS 6268



The active small boy needs overalls quite as much as any garment that his wardrobe can contain. Those illustrated are simple yet shapely and en-

MEN'S NIGHT SHIRT 5885.



The roomy, comfortable night shirt is the one that every man likes, and the garment made at home is far more certain to mean such qualities than the one purchased ready to wear.

Material required for the medium size is 61/2 yds. 27 or 41/2 yds. 36 in. wide.

The pattern is cut for a 34, 36, 38, 40, 42 and 44 inch breast measure and will be mailed on receipt of 10 ets.

BOY'S OVERCOAT 5946.



ERCOAT 5946.

The simple overcoat is the one that
feet liked for
small born. This
one is so, This
one is so, This
one is lose the
clothe and the
literials, the
clothe and the
literials the
l at home.

Material required Material required for medium size (10 years) is 2% yds. 27, 1½ yds. 44 or 1½ yds. 20 of velvet.

The pattern is cut for 6, 8, 10 and 12 yrs. and will be mailed on receipt of

MEN'S OVERALLS 6211.



The traditional blue jean, brown blue jean, brown blue jean, brown dealing likes and dealing likes and likes are all suited to such garmeits as these. Every man whose employment or pleasure means or pleasure means of pleasure means of pleasure means or pleasure means or pleasure means or pleasure means the polyment of the pleasure means the polyment of the pleasure means the polyment of the pleasure means the traditional

TUCKED NEGLIGEE 6330.



Such a negligee as this will appeal to every woman who likes a tasteful and becoming yet thor-oughly comfortable morning garment. oughly comfortable morning garment. The slightly open neck and the short sleeves are graceful and attractive. It will be found suited to all the pretty, simple, washable materials of the season.

son.

Material required
for medium size :s
3½ yds. 24 or 32, 2½
yds. 41 in. wide, 5½
yds. 45 in. wide, 5½
yds. of banding, 2½
yds. of ribbon.
t for a 34, 36, 38, 40,
t and will be mailed

The pattern is cut 42 and 44 inch bust on receipt of 10 cts.

COMBINATION CORSET COVER AND DRAWERS 6271.



Every form of combination under garment is in vogue just now. This one is simple, practical and comfortable. It does away with all uprovides the must fit wanted under the fashionable gowns.

Material required was a combinative fit was a combi Every form

1% 5 us. of the lace.

The pattern is cut for a 34, 36, 38, 40, 42 and 44 inch bust and will be mailed on receipt of 10 cts.

STUMP, BUSH and TREE PULLER



If you have land to clear, no matter where it is, with stumps, standing trees or small bush alders or willows, we have the machine and apparatus for doing the work, and we sell our machine on a guarantee that it will make the bearing and more convenient that be easier and more convenient that the same that it will read to be a support of the same that it is also the only Malleable Iron Stump Machine made. Do not fool away time and money with Iron Stump Machine made to the same that it is also that it i

Canadian Swensons Limited, Lindsay, Canada

Write To-day for a Copy of the New "BT" Catalogue on

Steel Stalls and Stanchions



If you are building a new barn, or remodelling your stable WHY NOT PUT "BIT" STANCHIONS AND STEEL STALLS IN 117 They will make it brighter and neater, are stronger. more durable and cost less than any other kind of stabling. With them your cows will be kept clean and confortable. Ask us to lay out your stables, and why it pays to use "BT" Stanchions and Steel Stalls.

WRITE -

BEATTY BROS..

FERGUS, CANADA

Litter Carriers, Hay Carriers, etc.

Tolton's HIGH GRADE STEEL Harrows

Section and Flexible All-Steel Harrows with an unequalled record a freshold Affection of the requirements of any country, made in different widths to suit purchasers. Pre-eminently the most efficient, strongest, and longest-wearing Harrows ever manufactured, is our unqualified guarantee. A Harrow bargain it will pay you to know more about. Free descriptive circular furnishes the factor.

Write for it to-day. Address Dept. K.

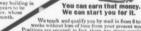
TOLTON BROS., Ltd., Guelph, Ont.



There is no line of work to-day that pays the princely salaries as do of Raiiroading. Mechanics and tradesmen, office and store clerks, railway men, etc., spend years in learning and training, only to find the have entered overcrowded trades and lines, and are therefore compell accept small wages. Not so with Raiiroading.

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\$150 per month.





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It is desirable to mention the name of this publication when writing to advertisers

AYRSHIRE NEWS

Farm and Dairy is the official or-gan of The Canadian Ayrshire Breeders' Association, all of whose members are readers of the paper. Members of the Association are in-vited to send items of interest to Ayrshire breeders for publication in this column

monnomon

SECRETARY STEPHEN'S REPORT

part of the annul report of W. F. Stephen, as presented at the al convention of the Canadian Ayr-Breeders' Association, recently held d convention Breeders' Asseronto, follows:

with gradient anglesiant present held With gradification and pleasure. I present this, my fourth, annual report as your secretary. During my tenure of of fee there has been a steady march of progress among Aryshire breeders. In no gress among Aryshire breeders. In no long a standard of the standar AYRSHIRES IN THE WEST.

of the west," are special reasons wny une Ayrshire breeders should be alive to their interests.

In the west, the cow contest is on. Ayrshires have the lead. Let us not only hold our position but make an advance. This can be done by keeping the culls in the control of the con

Ayrshire Milk Records Committee of Scot-land, regarding the desirability of having milk records and standards of registra-tion of both countries put as nearly as The breeders in Scotlands and the Market The breeders in Scotlands and the Record this record work in earnest. From the report of the secretary, John Speir, Kt. St. O., I find 8123 cows and helfers were entered and passed through the test in 1995, 10,000 to 12,000 lbs of milk testing an 1995, 10,000 to 20,000 lbs of the Scotla Cows non record for some of the Scotla Cows in a 40 to 50 weeks test.

mon record for some of the Scotch cows in a 40 to 50 weeks test.
The results of the Record of Performance test and Winter Pair dairy tests will be found in separate reports on another page. We are pleased to note that the three Winter Pair Boards have all accepted the same basis for computing the test which was advocated by this Association. viz., 25 points for every pound of fat and 3 points for every pound of other solids. The next move is to calculate feed in con-

nection with these tests. Ayrahires havnothing to lose if such were adopted.

DALBY TEST AT THE EXPOSITION.

A CALLEY TEST AT THE EXPOSITION.

A clary test was conducted Exception.

A clary test was conducted barn. Good specimens of the four principal dairy breeds were selected for the test. All feeds were purchased in open test. The period of \$40.07; the Jerseys were next with a profit of \$277.11 (unerners, \$11.14, and lideling. \$1.63. This with the excellent showing made by the Ayrahires at Seatnoving made by the Ayrahires at Seatthe value of \$40.07; the Jerseys were next with a profit of \$277.11 (unerners, \$11.14, and lideling. \$1.63. This with the excellent showing made by the Ayrahires at Seatthe Algorithms of \$4.00.000.

At all the leading exhibitions in \$90.000.

At the Alaska-Yukon-Pacific Exposition, whose directorate honored your secretary with the position of judge, the exhibit was the most uniform and of the highest whose directorate honored your secretary with the position of judge, the exhibit was the most uniform and of the highest been may lot to pass upon. The beauty of the breed and the evidence of its ability to produce were the theme of all who saw the cattle.

GOSSIP

GOSSIP

Mr. L. Abbott of Bunyan, Ont. (Lamb-ton Co.) recently visited "Hill-Crest" Herd and bought a foundation herd ion Co.) recently visited "Hill-Crest" there and bought a foundation herd whose breeding many prove interesting. The control of the control o

than any other Holstein bull.—G. A. B.

A Farm and Dairy representative who recently called upon the enterprising farm of Tolton Bros. Limited, Guelph. Ont., found them very busy putting up the usual number of their far-famed all though this harrow and harrows. All though this harrow the harrows are turned by Tolton Bros. for many years, the demand for it seems just as keen as ever. The real and genuine merits possessed by these harrows, as well as Tolton Bros. being an old and well established company, of some 30 odd years are seen as the seems of the seems Canadian farmer. They own and op-ate a farm themselves, thus giving the great advantages in testing and perfe-ing the different implements and m chines which they manufacture.

chines which they manufacture.

Some Farm and Dairy readers would be astonished if they knew how much money some potato grovers are makin by Tollowing modern methods of potation of the properties of the propert vesuing the crop, profits per acre. If y desire a copy, write to the Aspinw. Manufacturing Co. at Guelph, Ontarior to their home office at Jackson, Mie This company has just perfected Broast and Orchard Attachments for the cast and Orchard Attachments for their Four Row Sprayers, which will rende these machines especially desirable to the general farmer. If you request it thi company will be glad to mail you their catalog along with Mr. Aspinwall's work on "Potato Culture."

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******************************* MARKET REVIEW AND FORECAST

Toronto, Monday, March 28th.—The state of trades is satisfactory, notwithstanding the uncertainty regarding the tariff, and there is nother the regarding the tariff, and there is nother the control of the control of

WHEAT

Light shipments from the Argentine and from India have contributed together with unfavorable crop reports to raise the price unfavorable crop reports to raise the price and the state of the European centres, and the building of the state of the Argentine and the state of the state of

Local dealers quote mixed winter wheat \$1.07 to \$1.00 outside, and No. 1 northern at \$1.15; No. 2, \$1.10 on track, lake ports; all rail, No. 1. Northern, \$1.05; No. 2, \$1.13. On the farmer's market, fall wheat is quoted at \$1.09 to \$1.10, and goose wheat at \$1.04 to \$1.05 a bush.

COARSE GRAINS

The trade in coarse grains is steady. Canada westerns, No. 2, 42c; No. 3, 41c on track, lake ports; Ontario, white, No. 2, 38c; No. 3, 36c; 41c to 42c on track lake

Peas 81c to 82c; barley, 48c to 55c, accord-

Pens 8fe to 8fe; barley, 48e to 55e, according to quality; rpc, 6e to 69e; buck-wheat, 5te to 52e a bushel.

On the farmers' market the following prices are quoted: Oats, 45e to 46e; pens, 89e; rpc, 69; buck-wheat, 5e a bush.

See: rpc, 69; buck-wheat, 5e a bush.

Caradian western oats, No. 2, 4e; No. 3, 4e

HAY AND STRAW

HAY AND STRAW

Loads of hy are coming in more freely but prices are two ming in a high level.

Local dealers quite the state of the s

MILL FEEDS

There is an active demand for mill feeds and Ontario bran is quoted at \$22 to \$32, and shorts at \$24 a ton. Manitoba bran \$22, and shorts at \$25 a ton. \$25, and \$

EGGS AND POULTRY

Eggs are slowly lowering in price, but there is no likelihood of their descending to ust year's low levels, owing to the shorwage in the meat supply, which not

Black Watch

Chewing Tobacco

. The big black plug.

Freen and are quoted in case tous at see a dozen, or a

HIDES

Last week's quotations regain practically unchanged, the following being the
prices quoted by local dealing the prices quoted by local dealing the
cow hides, first quality, 11% as a sain a

SEED PRICES.

SEED PRICES.

Warning totes, emanating from the Seed Branch at Ottawa, are now appearing regarding the lax custom unraused by certain farmers in regard to the period of the chase of seed. The penny-wise, coloila policy is nowhere brought home so forcibly as in the case of buying cheap seed. Reputable dealers are quotients as follows:

cheap seed. Reputable dealers are quot-ing as follows:

First quality red clover, 15c to 17c a bb, according to quality: slaike, 11c to 13c; alfalfa, 30c to 25c a lb, and No. 1 timothy, 83c; No. 2, 83.55, and No. 3, 83 a bush. Seed corn is expected to be very high this season, owing to a shortage of supply. Farmers who intend to plant and the second of the purchases.

early.

Montreal seed prices are as follows:—
Choice red clover, 18c to 20c; alsike, 14c to 17c, and timothy, 5c to 7c a lb.

DAIRY PRODUCTS

DARY PRODUCTS

The butter market is steady and choice creamery is quoted at 26c to 27c a bit separator butter, 26c a his operator butter, 26c a his On the farmers' market, choice dairy butter is quoted at 28c to 30c, and ordinary quality, 25c a bi. Cheese, 12% to 12% a his the butter market is firmer and Eastern Townships creamery is seling at 25c a bi and upwards. Separator prints 24c and fresh dairy butter, 25c a bib.

Oheese are higher in price, being quoted at 13c; colored cheese, 12½c a lb. POTATOES AND BEANS

POTATOES AND BEANS

Potatoes show no signs of increasing in price, and are quoted in car lots at 40c to 50c and are quoted in car lots at 50c to 50c and 50c a

HORSE MARKET

HORSE MARKET

The horse market has experienced a wonderful decline the last week or two. This is doubless owing to the fact that farmers are beginning to realize the possibility of over-reaching themselves in distribution of the second prices prevalent. The few has a fine production of the second prices prevalent. The few having in some in stances reached as high as \$260. The foliance that the second prices prevalent the production of the second prices prevalent. The production of the second prices prevalent. The few having in some instances reached as high as \$260. The foliance in the second prices are second to \$260. The foliance in the second prices are second prices. \$260. The foliance is the second prices are second prices. \$260. The foliance is the second prices are second prices. \$260. The foliance is the second prices are second prices. \$260. The foliance is the second prices are second prices. \$260. The foliance is the second prices are second prices. \$260. The foliance is the second prices are second prices. \$260. The foliance is the second prices are second prices. \$260. The foliance is the second prices are second prices. \$260. The foliance is the second prices are second prices. \$260. The foliance is the second prices are second prices. \$260. The foliance is the second prices are second prices. \$260. The foliance is the second prices are second prices. \$260. The foliance is the second prices. \$2

LIVE STOCK

There are no signs of a slump in the live stock market, although trade is not as active as it has been for the past few weeks. The daily runs at the cattle market have been generally light and light prices have been realised. This has been prices have been realised. This has been and britcher's built solling as high as 85.00 to 85.00 and down at \$4.75 to \$3.50 to \$5.00 and down at \$4.75 to \$3.50.

Hogs are still soaring and are now \$10 in Toronto and \$10.25 in Montreal. In Buffalo they have reached \$11.25 a cwt. The following are the prices quoted by local dealers: Butchers' cattle—Choice, \$5.75 to \$6; medium, \$5.30 to \$5.60; ordinary, \$4.50 to \$5; cows, \$3.25 to \$5.50; canners, \$2 to \$3 a cwt.

a cwt.

Milch cows—Choice, 860 to 375; ordinary,
80 to 85; springers, 838 to 830.

Export cattle-Choice, 85 to 8625; mediaLicalves to 85.75; bulls, 83.30 to 85.

Choice to 85.75; bulls, 83.30 to 85.

Sheep—Eves—86 to 85.90; rams, 85 to 86;
lambs, 85 to 85.90.

Hogs—fo.b. 8370; fed and watered, 810.

Hogs—fo.b. 8370; fed and watered, 810.

The Trade Bulletin's London cable re
Bottom of the State of 18.00.

MONTREAL HOG MARKET.

MONTREAL HOG MARKET.

Montreal, Saturday, March 26th—The
market for live bogs this week opened
with a further advance in prices, the
offerings being picked up at \$10.75 a cwt.
offering being being being being the
median seep of special lots, but as
supplies were somewhat heavier, and the
demand supplied orices eased off at the
offering being being being being being
at around several lots were purchased
at around \$10.50, and even lower in some
cases.

cases.

The demand for dressed hogs has been very good and prices have advanced again, dealers quoting \$14.50 to \$15 a cwt. for fresh killed abattoir stock.

EXPORT BUTTER AND CHEESE
Montroal, Saturday, March 26th, 1920—
The feature of the trade this week has been the decided upward movement in the butter market, and prices have been advancing almost daily, the general asking two parts of the state of the s EXPORT BUTTER AND CHEESE uraw from the market and hold for more money in the face of the extreme searcity of the article. Stocks in store are con-siderably lighter than were generally cal-culated and with the factories only be-ginning to open up there is very little relief expected from any quarter for sev-

ginning to open up there is very little relief expected from any quarter for several weeks yet.

The few lots of fresh made butter that The few lots of tresh made butter that provided the several weeks yet.

The few lots of tresh made butter that the provided was a several to the provided that the provided was a several to the provide

GOSSIP

GOSSIP

MORE PRIZES AWARDED

That the farmers of York County, Ont., desire to win the prizes offered through Frame to Golden's to what the prizes offered through Frame in Only of the two best dairy Farms in One of the West and the prizes won by farmers of York when the prizes won by farmers of York when the prizes won by farmers of York through the prizes won by farmers of York Tries No. 3), in the Dairy Farms Competition, conducted last year by Farm and Dairy, were presented. The chalrman of the evening was ex-Warden G. S. Henry, of Lansing. Lansing.

of Language and the company of the company of Language and Language

KENDALL'S SPAVIN CURE



is the remedy you can depend on. No other preparation has done so much for the horse and the horseman.

Kendall's Spavin Cure has saved millions of dollars for Cure nas saved millions of dollars for thousands of owners during the past 40 years. It is the quick, sure, safe cure that never fails to give the best results even when all other treatment may prove a failure.



cures Spavin, Curb, Splint, Ringbone, Swellings, Bony Growth, Cuts, Sprains, Fruises and all Lameness. Kendall spavin care because it cures the cause of the trouble,

no scars or white hairs because it does not blister.

Every Medicine Shelf MENDALIST SPANN CURE

should have a bot-tle of Kendall's Spavin Cure — the best liniment in

best liniment in the world for man and beast. No tell-ing when you will have the right remedy when the emergency arises.

\$1 a bottle — 6 for \$5. At all dealers. Ask for free copy of our book "A Treatise On The Horse"—

Dr. B. J. KENDALL CO. Enosburg Falls, Vt.

cster. of Gormley, were not present, but were given credit for their winnings.

County had capturined out that York County had capturined out that York County had capturined out that York County had capturined the held was expressed that the county would succeed the province. Both Mr. Dunonship of the province Both Mr. Bales have exceptionally fine I all possible of the province Both Mr. Bales have exceptionally fine the Intended I all possible of the province Both Mr. Bales have exceptionally fine the province Both Mr. Bales gave fair warning that he intended in making such a success of the Priss of Parms Competition. He urged farmers to Parms Competition. He urged farmers to enter such as successful in the province Both Mr. Reynolds, as did practically all the province of the province Both Mr. Reynolds, as did practically all the Mr. Reynolds, as did practically all the speakers, urged the farmers of York County of the Mr. Reynolds, as did practically all the province forty prears ago. He had gone on it was a province forty years ago. He had gone on it was a province forty years ago. He had gone on it was a province forty years ago. He had gone on it was a province forty years ago. He had gone on it was a province forty years ago. He had gone on it was a province forty years ago. He had gone on it was a province forty years ago. He had gone on it was a province forty years ago. He had gone on it was a province forty years ago. He had gone on it was a province forty years ago. He had gone on it was a summer of the had had all benefits and the province forty years ago. He had gone on it was a province for a present the province forty years ago. He had gone on it wa

AYRSHIRES FOR ALBERTA

AYRSHIRIS FOR ALBERTA
The demand for Ayrshires in the
"Sunny" province is increasing as its progreasive dairymen discover ties of the Ayrshire breed and its adaptability to the soil and climate of Alberta.
This increasing demand has impelled my
old friend and Ayrshire champion, J. G.
Chark, of Irms, and the veteran Ayrshire
below the company of the company of

HOLSTEINS

BULLS! BULLS! BULLS!

At less than half their value for the next 30 days. Write

GORDON H. MANHARD MANHARD, ONT., Leeds Co.

HOMESTEAD HERD OF HOLSTEINS

Present offering—bull calves from high record cows and Dutchland Colanta Sir Abbekerk (Imp). whose dam and sire's dam average 31.83 lbs. butter in 7 days. Write for particulars.

EDMUND LAIDLAW & SONS Aylmer West, Ont. Box 254

SUNNYDALE

Offers g-sons of Pietertje Hengerveld Count De Kol, the champion bull of the breed, the only one that has two daugh-breed, the only one that has two daugh-ties of the country of the country of the butter in 7 days. Book your orders now for calves to be born February and March from good official record dams in our teleons family.

A. D. FOSTER, Bloomfield, Ont. Hallowell Station E-5-5

LAKEVIEW HOLSTEINS

One bull ready for service and a few ready shortly. All sired by Count Hengerveld Fayes De Kol. a son of Pitestrie Greveld Fayes. The Ready of Person of Pitestrie Milk in one day and 780 lbs. in 7 days. His dam, Grace Fayne 2nd (28,30 lbs. butter in 7 days, has a daughter, Grace to 17 days, has a daughter, Grace ords with 35.55 lbs. butter in 7 days, fat awareging 5.45 per cent. Visitors met at Broate, G.T.H., or Trafalgar Costing, Hamilton Radial.

E. F. OSLER, Bronte, Ont.

GLENSPRINGS HOLSTEINS

reral fine young bull calves from A. and R. O. P. Cows now on hand. One or two YOUNG HEIFERS from good milking strains, left. Buyers will do well to order bull calves for next year. Will also sell one or two good COWS at a reasonable price. Speak quick. cording to value as producers. (E-7-21-10

E. B. MALLORY, Frankford, Ont.

FOR SALE -- HOLSTEIN BULL CALF

geen Netherland's Faforit the Feb. 1st, 1910. Nicely marke nearest dams average 23 lbs ren days. Dam gave as a 3 ren days. Dam gave as a 3-year-old 60 lbs. milk a day for two months; i dam gave as 6-year-old over 70 lbs. a day for three months, and 15,587 tilk in ten months. Price of calf \$35 with

EDGER DENNIS, Newmarket, Ont.

THE SUMMER HILL HEAD OF HOLSTEINS

Is making some wonderful Records, the making some wonderful Records, and the sample of the control of the contr

ed bull.

Come and make your selections AT

ONCE. Prices are right and everything
guaranteed just as represented.

Trains met at Hamilton if advised.

D. C. FLATT & SON, Millgrove, Ont

R. D. No. 2 Farm Phone, No. 2471 Hamilton.

HOLSTEINS

WINNERS IN THE RING

Gold Medal Herd at Ottawa Fair and

WINNERS AT THE PAIL

See Our A.R.O. Records Just thekind we all want. They combine CONFORMATION

PRODUCTION Bull and Heifer Calves for Sale from Our Winners

"LES CHENAUX FARMS"

Vaudreull, Que.

Dr. Harwood, Prep. D. Boden, Mg

HOLSTEINS

FOR SALE.—Cornelia's Posch, five times lat prize bull at Toronto and London Fairs; also five of his sons, all from record of merit cows. Also females of all £42:10 THOS. HARTLEY, Downsview, Ont

LYNDEN HOLSTEINS

Herd headed by Korndyke Teake 5809. FOR SALE.—1 yearling bull, Lulu Glaser No. 5099, 12499,987 lbs. r 453,173 lbs. fat, 250 days, 3.70 per cent, Also bull calves and females all age SAMUE LEMON

Lynden, Ont.

HILL-CREST HOLSTEINS

Bull calves fit to head any herd for asie. Sired by "Pontiac Hermes" and "Sara Jewel Hengererald's Son." Dams are grand young cows, with good udders and company on the second of the second o

G. A. BRETHEN, Norwood, Ont.

LYNDALE HOLSTEINS

are now offering for sale a 13 mos on of "Count De Kol Pretertij Paul" of a 20 lb. dam; also a son of Sara erveld Korndyke, from an 18 lb. cow. choice individuals, fit for service. BROWN BROS, LYN, ONT.

NORTH STAR HOLSTEINS FOR SALE

Bulls ready for service, out of high test-ing A.B.O. dams, sired by Gount Henger-veld De Kol, a son of Sara Jewel Henger-veld 5rd, the highest tested, (30.38), high-est priced cow ever in Canada. Also a few females in calf to same bull. ETF

J. W. STEWART, Lyn, Ont.

RIVERVIEW HERD

FIVERVIEW HERD

FOR SALE, 2 Bull Calves, sired by Sir
Aaggie Beets Segis, son of King Segis,
worlds greatest 5 year old sire, dam Aaggie Lily Pictortig Paul, champion Jr. 4
year old-336 bis. butter 7 days. Dam of
year old 35 b. 2 year old, and 25 b. 4
year please of the pictor reasonable considering
breeding.

P. J. SALLEY Lachine Rapids, Que.

AYRSHIRES

AYRSHIKE BULL CALVES BARGAIN SALE FOR THIRTY DAYS.
All right good ones, from one week to
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one mouth old, from Record of Perform
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JAS. BEGG, Box 88, St. Thomas, Ont

FOR SALE-AYRSHIRE BULLS

From one month to two years old; all bred from large, good-milking stock. Also Yorkshire jugs. Apply to DANIEL WATT OR TO MON. W. OWENG, Proprietor, 8-5-19-10 Riverside Farm, Montobello, Que.

AYRSHIRES

Ayrahires of the right stamp for production combined with good type and quality. Write for prices. O-12-22-10

R. M. HOWDEN, St. Louis Station, Que.

SPRINGHILL AYRSHIRES SPRINGHILL AYRSHIRES Imported and home bred stock of all ages for sale. Stock shown with great success at all the leading fairs.

ROBT. HUNTER & SONS
Maxville, Ont. Long distance phone.

BURNSIDE AYRSHIRES BURNSIDE AYRCHIRES
Having disposed of my 199 importation,
I intend leaving about March 1st, for
another lot. I expect to have a number
of bulls through quarantine by first week
of June. Orders entrusted to me will be
under the state of the state of the state of the
young but the state of the state of the state
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young the state of the state of the state of the state
young the state of the st Burnside Stock Farm, Hewick, Que

CHERRY BANK STOCK FARM

OMERRY BANK STOOK FARM
FOR SALE.—Bull carbox sirred by Netherhall Milhman, the champion bull of
erhall Milhman, the champion bull of
sired by Morton Mains or weeks old,
sired by Morton Mains and the champion at
Toronto, 1506, and by Netherhall of the champion of the

B. Ness, of Howick, Quebec, and left Howick on March 19th. This lot is billed flowick on March 19th. This lot is billed to go under the hammer and the condition of the conditio

utility.

MR. TRIMBLE'S SHIPMENT

Satisfied with his venture last year in coming east twice and personally selection. The satisfied with the satisfied of the s

land, Hemmingford, and James McKeit, Riverfield.

They were an even, typical lot. The bulls were of choice breeding: the cows all looked like producers, and the heifers give promise of combining quality with

MR. TRIMBLE'S SHIPMENT

CRUMB'S IMPROVED STANCHION MILNI BURNED

WALLACE B. CRUMB, Box B5, Forestville, Conn.

Dr. Bell's Veterinary Medical Wonder cures kidneys. The auth century wonder. Agents in every county. Write for a free trial \$1 bott offer only good for 60 days. Limited to 500 b fer only go DR. BELL, V.S., Kingston, Ont

AYRSHIRES

"La Bois de la Roches" Stock Farm Here are kept the choicest strains of AYRSHIRES, imported and home bred. YORKSHIRES of the best bacon types. WHITE ORPINGTON, WHITE WYAN. DOTTES and BARRED ROCK Poultry. HON. L. J. FORGET, J. A. BIBEAU,
Proprietor Manager
E-5-26-10 Ste. Anne de Bellevue, Que.

STADACONA FARM Show a Record for 1909

At Three Rivers, Quebeés Provincial Exhibition, at Sherbrooks, Ganada's Great Extent Show, at Ottawa, the Dominion's Large Gentral Pair, at Barton, Vermont, under five different index WOY MOYER FIRST PRIZES THAN ALL OTHER EXHIBITORS COMBINED.

Cattle of both sexes and all ages for each at very reasonable prices. October 100 Moyers of the Combined Combi

GUS. LANGELIER Stadad

FOR SALE



Holstein bull, Queen's Tasco
De Kol (reg.) 4 years old, proved atook getter and from deep
milking dam. Selling to
change herd bull. Price \$100,
change herd bull. Price \$100,
price \$100

S. ARMSTRONG, Jerymn, Ont.

es, write to

ALEX. DOIG, Lachute, Que.

own, the troot denies Bryson, two grand-cores, the troot denies and almos McKell, a grand young cow, it may be a grand young cow, it may be a grand young cow, it may be a grand young cow as rand dairy type cow from William Brown, and two fine young cows and three heifer calves from the herets of Mr. Ness, the state of Mr. Trim ble is to be constrained on his observation, which will not only redound state of the troot tion, which will not only redound state of the troot to the day and great of the breed in the west. A number of Ayrshire breed in the west. A number of Ayr

Stephen, Sec., C. A. R. A.

My herd is doing very good work this winter considering the shortage and the high price of feed. My mature cows are averaging from 40 to 80 lbs. a day without a substitution of the same offering all my built calves at reasons of the same offering all my built calves at reasons of the same offering all my built calves at reasons of the same of the s one of these helfers. I intend testing everything this year, and those that will not qualify will be for sale.—James Begg. Elgin Co., Ont.

THE HOLSTEINS AT AVONDALE

THE HOLSTEINS AT AVONDALE

Avondale Farm, recently established as a dairy farm and for breeding high-class libitedins, his attracted a good decisal form of the street of Lady Woodcrest Paxto sired by Pietertje 22nd.

The Ayrshire cow, Annie Laurie 2nd, owned by Mr. Cohoon, of Harrietsville, Ont., has recently given 15,134.4 lbs. of milk; 598.5 lbs. butter fat, during 365 con-

HILL FARM AYRSHIRES

A few choice built and heiter calves for sale. At a mind being the control of the calves for sale. At a mind being the calves for sale and being the calves for sale. At a mind the calves for sale and being the calves for sale and bein

Renew your subscription now.

Who such about tapp char How wood befo past is go rice ing for

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able. indo ious chare the has last in th fering to be Watte

LEN is not made groun ly as ers a hay i tions even i 13c. in cludin Butter 32c.—H GAN GAN. ing sy Pork much : at 12c. Calf h: 23c.; o C. H.

and th There if sprii Potatoe and he cattle | ease.—I THE what in hay ar ing for a load; 60c. an price. good p A. B. C

MOUN ations a been on ma ioned k trees at were tw here th share o

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a 2 year old were selected

Cottingham n, two gran

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NDALE ding high

Holsteins, but choice f the herd n imported is Pietertje at bull be-m at Rif-s Pietertje satest cow

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urie 2nd, rrietsville, 4 lbs. of g 365 con-

to Farm

to Farm per since go. Farm m paper ied them ars from Dairy.—

NOVA SCOTIA

KINGS CO., N. S.

Already signs of apring are manifest. Where the near a melted, spring bulbs, such as daffodis and the same pushed above ground. Maple the new pushed above ground. Maple the new pushed above ground. Maple the same a tapped and it has been said that the sap has never run so freely as now. A change in the maple buds is quite evident. When the same is a surface of the same and the same and the same woods, and so had the hay is getting low in the hay-mows, and the before the cows will be on that the hay is getting low in the hay-mows, and the sites are correspondingly high. Prundries are correspondingly high. Prundries are correspondingly high. Prundries are correspondingly high. Prundries have been correspondingly high. Prundries are correspondingly high prundries have been correspondingly high prundries have been correspondingly high prundries have been corresponding high prundries have been corresponded in the indoors. Farmers have co-perated in the farmers and the agents and have made being the company's custom, have made being company custom to secure the company's custom, have made being the company's custom have been been company's custom have been company to the company's custom have been been company's custom have been been company's custom have been company's custom have been been company's custom have been company's custom have been been company's custom have been company's custom

OUEBEC SHERBROOKE CO., QUE.

SHERBROOKE CO. QUE.

LENNOXYLILA.—The outlook for sugar
is not very bright, very little having been
made as yet. There is no frost in the
ground, and the land should dry quickly as soon as the snow clears off. Farawas are hoping for an early spring, as
tions fancy pricace and in some soctions fancy pricace and in some soctions fancy pricace and for good beer and
even more for choice lots. Pork is worth
ide. in carcass. All kinds of cattle, including own, will be high this spring,
delding own, will be high this spring.

ONTABIO

ONTARIO

LEEDS CO., ONT. LEEDS CO., ONT.

GANANOQUE-Farmers are busy making syrup and report some good runs.

Pork is still going up, live hogs being much in demand at from 9 to lbe, dressed at 12e. Good veal calves bring \$2 a week Calf hides sell for 75c, eggs, 26c; baxer, Calf bides sell for 15c, eggs, 26c; baxer, C. H. O.

HASTINGS CO., ONT.

HASTINGS CO., ONT.

CHAPMAN-Sugar making has begun, and the indications are that the amount of syrup made will be larger than usual. There will not be any scarcity of feed if spring opens as soon as it promises. Potatoes are being shipped at 35c a bag and hogs are selling at 9c a 1b. Dairy cattle have wintered quite free from discase.—II. 8. T.

case.—H. S. T.

THE HIDGE—Feed seems to be somewhat scarce. Many are inquiring for hay and staw, also oats. Hay is selling for \$15 to \$16 a ton; straw, \$5 to \$6 in \$60. and \$

WELLINGTON CO., ONT .

WELLINGTON CO, ONT.

MOUNT FOREST.—Sugar making operations are just commencing. There have been one or two good short runs aircady, it is an approximation to the control of the control o

Shoe Boils, Capped Hock, Bursitis are hard to cure, yet ABSORBINE cli remove them and leave no blem-sh. Does not blister or remove the hair. Cures any not have the hair. Cures any not be worked, \$2.00 per bottle, delivered, soil, ABSORBINE, JR., (mankind, 1916, or Boils, Druises, Old Sorss, Swelling, or Boils, Druises, Old Sorss, Swelling, W. F. YOUNG, P.D.F., 123 Temple St., Springfield, Mass.

OUR FARMERS' CLUB
Contributions invited

NOVA SCOTIA

KINGS CO. N. S.

Already signs of spring are manifest, where the same melted, spring bulbs, such as daffodils ans melted, spring bulbs, such as daffodils and melted, spring bulbs, such as daffodils and melted, spring bulbs, such as daffodils and that the sap has never run so freely as now. Already with the sables carry bulbs, such as daffodils and that the sap has never run so freely as now. Already with the maple buds is quite evident. However, the same than the sap has never runs of freely as now. All the sables carry the same than the sables carry, however, and the same than the sables carry, the same than the sables carry, however, and the will be sables carry, however, and the will

VICTORIA CO., ONT.

VICTORIA CO., ONT.

WOODVILLE-Spring seems to be approaching rapidly have and the farmers have marketed thin grain at fair prices. Live stock is selling for high prices. A great many of the country and in consequence they expressed the country and in consequence they are searce and high in price.—J. R.

BRANT CO. ANT.

BRANT CO., ONT.

price—J. R.

FALKLAND.—Although there was a large quantity of snow on the ground, it went away gradually and consequentity did no damage. Most of it has gone the state of the snow of the

WATERLOO CO., ONT.

WATERLOO CO., ONT.

AXB.—On Friday, March II, the Ayr
Farmere Clib and Women's Institute
held a concert of the Ayr
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to hold a horticultural abow in the fail of C. 8. BRUCE CO., ONT.

WALKERTON.—Farmers are retiring to the towns on account of the searcity of labor. This has a tendency to make the pollutures of the farm dearer, and it adds pollutures of the farm dearer. As a dear to take their place. Hogs are \$5,00 a cwit fat cattle from 5c to 6c: eggs. 25c a doz, butter, 25c: potatoes, 45c a bank. The people of the farmer of the f

MIDDLESEX CO., ONT.

LIVE HOGS

We are buyers each week of Live Hogs at market prices. 9 For delivery at our Packing House in Peterborough, we will pay equal to Toronto market prices. If you cannot deliver to our Packing House, kindly write us and we will instruct our buyer at your nearest railroad station, to call on you.

THIS WEEK'S PRICES FOR HOGS DELIVERED AT FACTORY

\$9.75 a Cwt. FOR HOGS WEIGHING 180 TO 220 LBS

THE GEO. MATTHEWS CO., LIMITED PETERBOROUGH, - HULL, -BRANTFORD

telegraph line came through here, more than 50 years ago. we sold the company the poles to build about eight miles of Tose poles were 25 feet long, and we give the season of them. This contract brought me can be season of them. This contract brought me can be season of them. The series article. Some of those poles after severe article. Some of those poles after severe article. Some of those poles after severe article. Some of those poles after and are yet of the season of t

WHITE OAK.—I consider the Chester White and Yorkshire crossed make the most profitable hogs to feed. Last year from one mother sow crossed I sold core was the support of the shippers. Our cores were the property good last year, which makes us a little short of feed, for we

aim at a bumper corn crop every year. I am an advocate of shallow plowing, in the general run of our farm operations.— J. M.

HURON CO., ONT.

HURON CO., ONT.

GODENICIL.—The season of auction
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LAMBTON CO., ONT.

LAMBTON CO., ONT.

WYOMING—Wheat has wintered well, in fact the best for years, Farmers are getting their seed even shipped in large quantities. Ensilage rop. There was becoming the leading crop. There will be beauty of feed. Hay sells for \$14, to plenty of \$10, to plenty of

THIS IS THE MONEY-MAKING Harrow for Farmers



It cuts smooth, levels and covers the grain better than any other.

Perhaps slightly higher than some others in first cost but in the end much cheaper, because the teeth can be taken out and sharpened so much oftener than any other. They are left extra long for this purpose.

The teeth are held to the frame by a malleable clip and staple with nut in each end, thus the teeth can always be kept tight and at the right distance down to properly harrow the ground.

A Harrow may seem a simple thing, but we have put Hamilton Quality into ours, and it will pay you to have

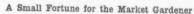
THE PETER HAMILTON CO., Limited PETERBOROUGH, ONT.

It is desirable to mention the name of this publication when writing to adverti

"IDEAL'__The New Mammoth French ASPARAGUS

CONTROLLED ABSOLUTELY BY OURSELVES

Finest Flavour - Largest Size - Most Productive



Nothing approaching this magnificent Asparagus has ever been introduced upon the American Continent. Until we had thoroughly tested it we could not believe its high qualities.

The cut is from a photo of one bunch of 20 stalks which weighed two pounds. After photographing, the bunch was cooked and served to four people. There was no waste, the whole stalk eatable and no woody fibre. Quality ahead of anything in the asparagus line grown. We have cut fine, eatable asparagus second year from seed. This bunch on being shown to a leading fruit and green-grocer in Toronto, created great admiration. "Such bunches," he says, "would retail at \$1.50 each, the beginning of the season."

WE OFFER STRONG 2 AND 3 YEAR ROOTS

Send for Descriptive Circular and Prices

STONE & WELLINGTON - - TORONTO

QUIT WORRYING ABOUT WEEDS



Rid yourself of nine-tenths of the usual bother with weeds, Run any seed you plant through this easy-working, quick-running CHATHAM Mill, and you can be sure you are planting CLEAN seed — seed free from weeds—seed that will grow a BIGGER crop

Grade Up Your Clover Seed

The CHATHAM positively will add a dollar and more a bushel to the value of your clover seed. It will take out every trace of Buck-horn Plantain—the weeds that bother clover-growers so. You can be sure of a good catch of clover if you pass the seed through this com-bined Grader, Soparator and Fanning Mill. And, if you have clover seed to sell in the Fall, you can get a much higher price for it if it has been cleaned by this Mill.

Cleans Small Seeds Perfectly

This is the Combination Machine that handles the smallest seed efficiently. And it will handle large seed just as well—will grade the shrunken and immature or misshapen grains apart from the plump, healthy seed, and thus will raise the level of crop quality on any-

Cuts Your Cultivating in Two

Not only does the use of the CHATHAM at planting-time insure BETTER CROP (because it selects the seed fittest for sowing), but means a material reduction in the amount of cultivation you will nee to give that crop. It rids your seed of weeds; it brings th means a material reduction to give that crop. It ri seed up to the highest standard of the best seeds-man; and thus it makes it needless for you to battle of weeds; it brings that with weeds as you other-wise must do—the weeds won't be there to battle

You specially need this Mill, too, when you are ready to sell grain or seed in the autumn-clover seed and alsike especially. The seedsman will not pay top prices for clover that contains more than ten weed seeds to the thousand. This Mill will bring your clover seed up to that re-

You cannot buy anything that will pay you better than my Mill. I guarantee it to do its work better and faster than anything else of the kind ever Luilt. There is forty years of experience back of that Guarantee MANSON CAMPBELL, Pres.

With this Mill you can profitably employ a rainy day in cleaning up your barn floor Probably there is enough timothy seed there to net you a good many dollars. The CHATHAM will recover it all for you. free from dirt, charte and weed seeds, and ready to market.

Easy Terms - Closest Prices

Make up your mind to plant clean, mature, healthy seed from now on. Then write to us for our Special Offer and Credit Terms on the Chatam Fanning Mill (which is also a combined grader and separator), fitted with 17 twenty-five inch screens and riddles for every kind of seed. Send to-day for our New Catalogue about Chatham Special No. 1. The price will surprise you—it is so low; and the Mill will earn more than its cost on this Spring's planting. Write us about it TO-DAY. Don't think of planting until you hear what we can offer you.

THE MANSON CAMPBELL CO., Limited, CHATHAM, ONT.

Quebec Agents: Cote & Company, 6 St. Peter Street, Montreal.