

VOL. XXIX.

NUMBER 15.

# RURALHOME

PETERBORO, ONT.

APRIL 14, 1910.



AYRSHIRES IN NEW ZEALAND, CHEESE FROM WHICH COUNTRY COMPETES WITH OURS.

Ayrshires are a popular dairy breed in New Zealand. One of its fine herds is here shown. Good stock and fertile soil has enabled this country to gain its present standing in the great market of the world. New Zealand cheese is practically the only cheese of its kind imported into Great Britain in competition with Canadian. During the past year, we heard much of this New Zealand competition. Dairy Commissioner Ruddick assures us that its significance, however, has been unduly exagge-rated, and that the total increase from New Zealand is not nearly as large as the decrease in Canadian shipments. While this is true, it behowsee Canadians to see that the competition is met with the best quality of goods.

DEVOTED TO BETTER FARMING AND ANADIAN GOUNTRY LIFE

## NEVER OUT OF BALANCE

### The Self-Balancing Bow1

in the SIMPLEX Separator overcomes the greatest weakness previously met with in cream separators, namely: the liability of the bowl to get out of balance. If a bowl be ever so slightly out of balance it will not separate cleanly. This has been proved again and again by actual test. Remember that when you lose part of the cream you are losing money. Nor is this the only loss when a bowl is out of balance. A great deal of extra wear and tear is thrown upon it, thus greatly shorten-

ing its life, as well as lessening its usefulness.

No trouble of this kind ever occurs when the new SIMPLEX Separator is used with the Self-Balancing Bowl. It is made with a system of bearings so that it will run evenly and quietly, even if out of mechanical balance. A weight several times greater than what would throw an ordinary bowl out of balance, will not in the least affect the smooth running of a SIMPLEX Self-Balancing Bowl. In fact, a SIMPLEX Self-Balancing Bowl

## Cannot Get Out of Balance

You do not want to make any mistakes when you buy a cream separator. You want one that will get all the cream ALL THE TIME. This machine is the SIMPLEX Link Blade Machine with the Self-Balancing Bowl. It does not commence to cause you trouble after you have used it a short time. Instead of that it improves with use. Have one sent to you for a free trial and be convinced.

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## THE "BT" STANCHION IS ALWAYS CHOSEN A When Its Many Advantages Are Known



It is made in five sizes and of heavy "tuBar. The lock and trip are made of heavy
mallcable. It can be easily o-need with one
mallcable it can be easily o-need with one
is the only stanchon that can be
opened in the only stanchon that can be
opened in the one of the opened in the
putting against it. It was to make the
with wood or steel construction. It will
you to let us tell you about "BT Steel Stalls
and Stanchions and what we can do for you,
wife us to day.

so build Litter Carrier and

BEATTY BROS., FERGUS FIG OF Swamp or Muck Soils

Swamp or Muck Jons
Of late years considerable attention
has been given to the study of swamp
or muck soils, including the restaurant,
reclamation and permanent reclamation and permanent of the reclamation of t availationed, others yet unrectaimed, and a sea under cultivation but yielding poor crops, whilst others again are some of the richest and most productive soils. The economic importance of this question will, therefore, be clearly recognized when we remember that according to the Report of the Ontario Agricultural Commission appointed in 1891. To enquire into the Agricultural Commission appointed in 1891. To enquire into the Agricultural Commission appointed in 1891. To enquire into the Agricultural Commission appointed in 1891. To enquire the configuration of the progress and condition of agriculture therein, and matters connected the enguire of the control of the control

these swamps.

Owners of such land will be interested in Bulletin 178 of the Ontario Agricultural College, since it deals with the Character and Treatment of Swamp or Muck Soils. The bulletin is prepared by Prof. W. P. Gamble and A. E. Slater. A by P. Gamble and A. E. Slater. A whole, most swamp soils can be made to be some of our most fertile lands, if properly drained and cultivated.

2. That notage and sectors.

2. That potash and phosphoric acid are usually more or less deficient, and that the soils readily respond to an application of commercial fertilizers. 3. All attempts at the cult 3. All attempts at the cultivation of peaty soils begin with drainage.

pearty solls begin with drainage,
4. Certain crops are particularly
well adapted for growing on these
soils, while others do not do so well.

CAUSES OF UNPRODUCTIVENESS. The following suggestions may be of value as briefly summarizing much that has been dealt with in the bulle-

1. A deficiency of potash (K2O) and of available phosphoric acid (P205), both of which frequently need to be applied in the form of commercial fertilizers.

2. An absence of nitrifying germs which act on the inert nitrogen present in the organic matter and convert it into nitrates, a form readily assimilated by plants. The application of farmyard manure or garden loam is needed in this case, together with frequent cultivation. quent cultivation.

quent cultivation.

3. A water-logged condition owing
to the permanent water table being
too near the surface, and thus checking root development, and preventing
aeration of the sail. Lower the water table by efficient drainage.

4. A dry loose condition of the soil
which results in lack of moisture
the same that the same water by
though inability to raise water by

4. A dry loose condition of the son which results in lack of moisture through inability to raise water by capillarity. This condition frequent-ly results from too rapid draining and subsequently the complete drying out of deep areas of muck. Gradual drain-ing is desirable.

of deep areas of muck. Gradual draining is desirable.

It all laying of tile in the muck if the laying of tile in the muck if the laying of the major the major the major the water to penetrate into the drain, owing to the inability of the water to penetrate into the drain, on the water to penetrate into the drain of the water to organic acids. This condition is no organic acids. This condition is no common with Ontario muck soils. Liming is the remedy.

7. The present of injurious plant poisons in the soil as the lower oxides of iron. Frequent cultivation and exposure of the majorial to the air results in oxidation and removes the evil.

8. An undecomposed condition of 6. An undecomposed condition of the soil and the presence of much woody fibre and thus a general coarse-ness of the soil particles. Drying out is apt to result. Frequent cultivation and the application of farmyard ma-nure has a beneficial action, hastening decomposition.

 The lodging of grain and a ligh and poorly filled ear, due to the ex-cess of nitrogen over mineral constitution. uents. An application of potash and phosphoric acid is beneficial.

## Spring Days in the Apiary

James Sto er, Victoria Co., Ont. James Ste er, Vietoria U.o., Unr. On account of the early season most of the beekeepers have placed their bees on summer stands. It looks as if they had counter stands the winter in good shape. The standard of the standard

year.

If the beekeeper is sure his bees have sufficient stores to keep them going until fruit bloom com., he short-tuck everything about the hive-tightly. Make their entrances small. tuck everything about the small tightly. Make their entrances small tightly. Keep an eye for robbers for the first few days after being set out. Then leave them alone till warm weather

If some hives are short of stores, If some nives are snort or scores, a frame of honey can be laid on the top of the frames on its flat, or good candy made from granulated sugar will carry the bees through nicely.

### Jersey Cattle Milk Records

The Jersey Cattle club at their annual meeting in February appointed Messrs. Duncan and Reid to take action in regard to having the cost of feed taken into consideration in of feed taken into consideration in the dairy tests at the winter fairs. The Ayrshire Cattle Breeders' Association recently decided to petition the fair boards to have the cost of feed recorded not only during the three days of the test but for three three days of the test but for three days before as well, making six days in all. It was decided at the recent meeting of Jersey breeders to endorse the request of the Ayrshire Breeders' Association. The matter will be laid before the directors of the Guelph, Ottawa and Amherst Winter Fair Boards.

Boards.
See'y Reid at the meeting in Toronto two weeks ago reported that some
exceptionally fine mount of the construction of the companies in the Record of Performance test than have been entered by Ontario breeders. Mr. W. P. Buil pointed out that much of the British Colum-bia stock had been purchased in the

g East.

The records made by British Columbia cattle that have been accepted
by the Government are
owned by A. H. Menries & For Cows
owned by A. H. Menries & Son of
Pender Island, and are as follows:
cow, Lilac of Pender, 697 age as
commencement of test, 2 vage as
commencement of est, 2 vage as
days; 5674 lbs. of milk, 314.16 lbs.
fat; average per cent of fat, 5.53;
number of days in milk, 393; production required for registration,
5588, 75 lbs. milk, 220,5 lbs. fat.
Cow, Lady Rose of Pender, 699,
age at commencement of test, 2 vrs.
228 days; 8014 lbs. milk; 497.34 lbs.
fat; average per cent of fat, 5.36;
number of days in milk, 352; production required for registration,
278 days when the commencement of test, 2 vrs.
284 days; 249 lbs. fat.
Cow, Lady Buttercup of Pender,
age at commencement of test, 2 vrs.
234 days mencement of test, 2 vrs.
234 days in milk, 362; production required for registration,
fat; average per cent of fat, 5.61;
number of days in milk; 49.70 lbs.
fat; average per cent of fat, 5.61;
number of test, 2 vrs.
234 days; 1848.7 lbs. fat.
Remedy for Scours.—I read in an The records made by British Co-

Remedy for Scours .- I read in an Remedy for Scours.—I read in an agricultural paper that scours in calves could be stopped by giving a calf a tablespoorful of wood soot mixed with one egg into a paste. I have since tried this remedy on a couple of calves with pronounced success.—D. Duncan, York Co., Ont.

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Mr.

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FOR WEEK ENDING APRIL 14, 1910.

Only \$1.00

## A BRIEF STUDY OF COW CHARACTERISTICS

George Rice, Oxford Co., Ont.

 $\mathsf{Th}^{\mathbb{R}}_{c}$  Conclusions of an Expert, Gained from Close Observations of the Cow While at Work-The Results of an Interesting Experiment.

Animals and birds have habits and traits peculiar to their nature. Some of these can be developed but we cannot graft on something altogether foreign to their nature. The rooster likes to strut about and crow. (In that respect he is not unlike the human tribe). The drake

likes to go for a quiet swim if there is water to be had. If these would change this

Mr. Geo. Rice

procedure it would at least be interesting. Much of the trouble that people make for themselves is because they want to do something not according to what nature intended. This is all too true of dairy cows. It has often been mentioned that some people have better success with one class of stock than with another. This is because they take more interest in

that stock and study its traits. To illustrate, I have been fairly successful with cattle and some other stock but I never had any success with hens. I never had time to pay much attention to their wants and although like other people who shave twice a week and wash on the other days and look as pleasant as possible, her ladyship, the hen had no use for me. Never an egg will the hen lay in winter, unless she is cared for right.

#### A STUDY OF HENS

Having more time at my disposal and possessing a tooth for hen fruit, I have this past winter been following the practice of men that get eggs in winter. I haven't much faith in the methods of those who tell how to get winter eggs but do not get any themselves. In this as in other things, an ounce of successful practice is worth a ton of theories. Some theories are like a horse with the spring halt. They look all right, but have a decided limp when in action.

After following closely and faithfully the methods of successful winter egg producers, I gathered the fruits (hen fruit) of my endeavor and I find that the way to the egg basket is via her ladyship's gizzard. It is astonishing what she In put into her gizzard. It is just the same in handling cows for winter milk production. The more closely we study and follow her natural bent, the greater our success.

### A DAY WITH A COW

Let us follow a cow through a day's work. What shall we give her first? Water? No. She won't drink, that is not her way. She wants feed first. Give her a little hay. She relishes that and whilst you milk she will be happy and contented. Then give her a good feed of ensilage with some meal on it. How she enjoys it! Next course will be some sugar mangels. Surely with all this succulent food, she will not want any water. But try her and see how mistaken you are in your theory.

She just does want water after she eats her fill and not later, because she wants to get at work on this food and turn it into something that will eventually fill the milk pail. She cannot get to work until she has all the material, and water is essential. Now perhaps she lies down or it may be she stands up; anyway you think she is at rest, You are quite wrong. Contradictory as it may seem, a cow works the hardest when she is apparently doing nothing. Watch her now whilst she is chewing her cud. She does this not for enjoyment alone; she has all the coarse food to work up into a finer product, the finest product mankind can obtain and a product used by most of us from the cradle to the grave.

"Milk for men, milk for ladies, Milk that is good for little babies."

Watch her now. We know what she has consumed in food and water, but there is another element necessary to the elaboration of this product we call milk. If the stable is not very warm and even if it is, we will see, though not quite

### Most Practical Information

The second annual Dairy Number of Farm and Dairy is a dandy. The information it contains is of a most practical nature. This issue alone is worth several times the subscription price for a year. I would not think of doing without Farm and Dairy.-T. R. James, Middlesex Co., Ont.

so plainly, the cow throwing off great clouds of "steam," we will call it. When she has "steam" up she is at full work. How much does she throw off! We are not particular what becomes of it so long as it gets away as it is used up; what is left is of no use to the cow. We are more concerned as to what is to take its place. We cannot see the air she breathes in but we can judge of its volume by what she is expelling and she must take in as much as that.

#### THE VALUE OF PURE AIR

It makes all the difference in the world whether or not this air is pure, because the purer the air she breathes, the more of these elements it contains that are so necessary to digest the food. It is really through the working of the lungs that the cow derives sustenance from her food. This is a point that cannot be too strongly emphasized. Air to the cow is like the draft to a fire under a boiler. The elements derived from the air make the fire burn Letter and there is better combustion. At a town waterworks, they built a higher and bigger chimney to get a better draft and they were then able to obtain much more heat from the same quantity of coal. The case is even stronger and more important with a cow.

Pure air aids digestion. It oxidizes the blood.

It makes the blood purer and circulation more vigorous. It feeds and stimulates the nerves, and

good dairy cows have a good deal of "nerve" A cow must have pure air if she is to do the best work she is capable of and be up to her capacity in other respects. A cow breathes in the most air when she is quiet and remasticating her food. She has no air receptacles in which to store up air, like food in her stomach. She cannot retain the air in her lungs for very long, so it is essential that she have good air all the time. There is little use turning a cow out to "get some fresh air" if it is cold. We have got to have the air inside during our winters.

#### EXERCISE UNNECESSARY

It seems a little strange that a cow more than any other animal can do without exercise. Really she works harder standing and digesting her food than a horse would do plowing. Cows when producing heavily will often sweat while standing perfectly still. It is well known that when cows have to go too far to pasture, they do not do so well. A cow carries much weight in various stages of digestion (about 1.5 lbs.) and she was never intended for a churn.

We see therefore that the essentials to milk production are food, water and air. The last two are quite as important as the first. Essential as they are, they do not receive the attention that their importance demands. A cow invariably wants drink after eating. What about after the night meal? What are her chances to satisfy the demand of her nature? If she has to go without water for 12 hours or more, then the milk yield must suffer and her whole digestive system be thrown out of gear as it were.

I only milked three cows this last winter, but I gave them as good care as I could. I was punctual to the minute with the feed and water. If they wanted for anything, all they had to do was to wink and they had it and as a result they were punctual with the milk, giving me enough to net \$20 a month each.

#### THE DIFFERENCE

I had to go away on three different occasions. I left a man in charge to attend them. I told him exactly what to feed. Next day however, the cows were down on their yield. This happened twice. The third time, I was away. I went to the stable at 9 p.m. and gave the cows, two pails of water each. The yield was all right the next day. I have not put in the water basins yet but have seen that the cows get water after they have all the feed they want. The man was in a hurry to get away as soon as the six o'clock bell rang. They would not drink before feeding and did not get a chance after. The result was, no water, no milk, not only the next day but for some

The shrinkage of the milk yield as the milk period advances is due more to the lack of care in supplying water and pure air than to the advancement of the lactation time. These cows. though fresh in September are now giving as much per day as they did in October when I brought them home and they have not been out of the stable once since the 20th of October. If they got out, they would run a mile they are feeling so good, but more about this little experiment later.

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### The Farm Nursery\*

Norman M. Ross, Tree Planting Division, Indian Head, Sask.

Certain varieties of the hardy trees, most suitable for the planting of shelter belts, can be just as easily raised on the farm as a crop of garden peas or corn, and undoubtedly at much less expense than if purchased as one or two-year-old see bings. There should be, in connection with every farmer's garden, a small nursery patch devoted to the growing of such hardy trees as maple and ash, and cutting stock of cottonwoods, willows or Russian poplars. There would be little difficulty in obtaining the necessary seed, provided orders were sent in to the seedsman or nurservman during the summer, so that they could make preparations for getting a sufficient quantity collected. A pound of maple or ash seed, if sown in suitable soil, would produce considerably over 1,000 seedlings, and would take up very little room in the garden. A few hundred cuttings of willow, Russian poplar and cottonwood, would not occupy much room either and could be made to produce annually as much stock as the average farmer could conveniently plant each spring.

The farm nursery, adapted to the needs of an average prairie farm would be very simple; the area of ground occupied very small, and the labor to obtain good results very little. My idea of the stock such a nursery patch would be about as

A 50-foot row of one year maple seedlings. A 50-foot row of one year ash seedlings. Another 150-foot row of two year ash seedlings, 100 feet of willow cuttings set one foot apart, 50 feet of cottonwood cuttings and 50 feet of Russian poplar cuttings.

### POSSIBILITIES OF THE NURSERY.

Such a nursery would easily supply 1,000 seedlings and as many cuttings each year, or more than enough stock to plant half an acre of shelter belt. It would be necessary to sow each year about one pound of maple and one pound of ash seed to keep up a supply of seedlings. The willows and poplars would be cut down to the ground each spring and the shoots made into cuttings.

The ground for this work should be prepared in the same manner as for vegetables and if possible sheltered from the strong winds. As a temporary shelter, sunflowers are very effective. If the heads are cut off in the fall and the stalks left standing, they will collect plenty of snow which would prove of the greatest benefit to young seedlings during winter and early spring.

The ash seed should always be sown in the fall, and the maple might best be put in early in May, as the seedlings are not then so liable to damage from spring frosts and the high spring winds. The seed is sown thickly in drills about an inch or an inch and a half deep.

So far I have only mentioned such varieties as any farmer can raise without the least difficulty. We find, however, that many men have a special liking for this sort of work, and these might very easily propagate a few ornamental shrubs such as Caragana and Tartarian honeysuckle, which are easily raised from seed.

We get numerous applications from farmers for spruce and pine seed, and in some cases these night be successfully raised in the farm nursery, though such cases would be exceptional, as considerable special care is required to raise a good stand of evergreen seedlings. Besides, the growth is so slow that the average man would become discouraged long before the plants were large enough to set out, so that on the whole the growing of this class of stock cannot be recommended as suit-

able for the farm nursery. Evergreens, however, are most desirable for prairie planting, but there are not many farmers who would be willing to go to the expense of purchasing a thousand or more spruce or pine suitable for windbreak purposes, at prices quoted in the general catalogues. If nurserymen would supply two-year-old seedlings, these could then be given a place in the farm nursery where they could be lined out for a couple of seasons, and then set out in the permanent situation.

## EVERGREENS

I do not know whether evergreen seedlings grown in Canada can be purchased in any quantity. I do not remember having ever seen them quoted in nursery catalogues; but in a catalogue recently received from D. Hill of Dundee, Illinois, two-year Scotch pine seedlings are quoted at \$6 per 1,000 and white spruce at a slightly higher figure. Seedlings of this age are, of course, only a few inches high, and would, as before stated, need to be transplanted to nursery rows for two seasons when they would probably be from 10 inches to one foot high; but there is no reason why a farmer with ordinary care should not successfully carry 1,000 or so of these plants in his nursery patch. If planted four inches in the row, with rows eight inches apart, a bed six feet by about forty would be all the ground needed for 1,000 transplants and would entail but little labor. Though it is not likely that very many farmers will do this, still it is a very practical way in which anyone can get evergreeens at a comparatively reasonable cost, and in sufficient numbers to make their planting worth while.

If the farmers who are interested in tree culture will only grow for themselves some of the commoner varieties suited for windbreak planning along the lines I have indicated, many of them will be spared the disappointment which I am confident numbers are going to experience in the near future, when they realize the importance of tree planting, and then find that after perhaps making all their plans and preparations for planting, they cannot obtain the necessary nursery

### Cement Floors in Cow Byres

J. H. Caldwell, Carleton Co., Ont.

Where cow stables are cemented right up to the manger, there is constant trouble saving the knees of the cattle and in keeping bedding under them. We have until recently used wood as flooring, but when installing cement in our cow byre I decided to leave a trench four inches deep and 20 inches wide where the front feet of the cows would come. This trench we filled with blue clay, which soon packed very solid. It acts as one of the best aids in keeping bedding under the fore feet and in saving the cows from sore knees.

With this equipment in the stalls this past winter, we have had no trouble, nor do we anticipate any from the causes mentioned above. The men who put in the cement work were very loath to do as I requested, as they had never seen the like before. The plan now has the approval of all who have seen it, and no money would induce me to have this trench filled with cement, which, however, could easily be done at any time if one so

Another advantage of the clay is that it is warmer than cement and it would appear that cement will ere long to universally in cow byres. Those intending to put in cement floors under their cattle should certainly give consideration to this point of having clay under the front feet of

There is no other crop that can be grown that will produce as large a quantity of nutritious food for dairy cows, as the corn crop properly harvested and preserved in the form of ensilage. J. H. Coatsworth, Essex Co., Ont.

### Dairying for Profit\*

N. P. Hull, Michigan, U.S.A.

There are three things that we must keep in view in dairying: 1st, good cows; 2nd, plent of good feed; 3rd, proper care. If we are goin in for dairying we should aim to get the mos possible out of it.

Every man who is on a farm should aim a two things: 1st, to sell as much as possible off hi farm at the highest possible prices; 2nd, to in crease the fertility of his land each year so that the following year he will be able to sell larger crops at still better prices. Will dairying do this? For my part I have found it the most profitable branch of farming, year in and year out, that I have ever followed.

The feed fed to a steer which sells at 10 cents a lb., if fed to a dairy cow would produce 20 to 30 cents a lb. in butter. There is more labor in dairying but the net profits are greater.

Hogs may be fed for six months and may prove profitable and may not. You can seldom tell. Do you know of any line of farming that will bring in such steady and profitable returns and as regularly as the dairy cow? The old hen comes the nearest to doing so of anything I know.

A farmer I met in Michigan had bred up a herd in which the poorest cow produced over 10,000 lbs. of milk a year and the best cow over 14,000 lbs. This man sent his milk to a cheese factory and netted \$160.14 from each cow on the average for his milk. His calves sold at an average of \$59 each, so that his cows netted him \$219 each, at a feed cost of \$55 per cow.

### A REMARKABLE DIFFERENCE.

At one of our factories in Michigan we had two farmers living not over a mile apart. The cows of one produced milk which netted him, on an average, \$22 a cow or less than it cost him to feed them, so that for every dollar's worth of feed he fed his cows they returned him only 76 cents each in milk. The cows of the second man produced enough milk to average \$79.00 each at the factory. These cows returned their owner \$1.95 for every dollar's worth of feed they consumed. The first man was nothing more than a cow keeper. The second man was what I like to call a farmer.

When I started dairying, my cows, when they consumed \$30 worth of feed in a year, yielded me an average profit of \$10. When, however, I had developed them so that they consumed \$40 worth of feed each in a year their product sold for \$80 per cow and the average profit per cow was \$40. Thus I made as much in one year as formerly I had made in four.

Feed a variety of feeds. Cows enjoy a change of feed just as much as we do. Feed palatable Keep the cows in good health and comfortable. Much of the tuberculosis that we hear so much about is due to cows being kept in dark, poorly ventilated barns. The sun's rays are death to the tuberculosis germ.

Any man who can afford to keep a cow can afford to buy enough building paper to make his stable warm. He can afford, also, to buy enough window sash to put in enough windows to ensure the stable being well lighted. And, if he cannot do anything else he can at least knock or cut a few small holes in the sides of the stable and fasten some muslin over them to furnish ventilation. This is by no means an ideal system of ventilation but it is far ahead of none. These little things are of vital importance as regards their influence on the health and comfort of the cows and there is no animal on the farm that will return as much prefit in return for good care as will the dairy

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\*A portion of a paper read at the convention of the Western Horticultural Society, held at Winnipeg in February. Although it was prepared specially for the western provinces, the Principles and methods men-tioned may be applied with equal advantage on farms in the east.

<sup>\*</sup>An outline of an address delivered at the last convention of the Western Ontario Dairymen's Association by N. P. Hull, the president of the Michigan Bairymen's Association and Master of the Michigan

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### Alfalfa the Greatest of Crops\*

R. H. Harding, Middlesex Co., Ont.

There is not another variety of fodder that is being kept before the minds of farmers by the agricultural press and Farmers' Institute lecturers as is alfalfa. Yet we find that a very small pro-



Mr. R. H. Harding

mr. h. Harding and continue to do so for several years when on suitable soil and it will leave the soil in better condition than it was before being seeded. It will at the same time supply the most nutritious fodder for all classes of live stock, especially dairy cows and sheep, that can be grown.

Alfalfa will grow upon any land that is not watersoaked within 18 or 20 inches of the surface; in other words it will likely prove a failure on low lying land that requires underdraining. Some tell us that alfalfa will stop up tile drains. I have had it growing to perfection over a tile drain for several years and with no apparent ill effects. We have been growing alfalfa for about 10 years. Our farm is slightly rolling and is of three different varieties of soil; black loam surface with clay subsoil, medium clay surface with heavy clay subsoil and clay loam with gravel subsoil, no gravel being within three feet of the surface. I have not as yet grown alfalfa on this latter soil but I have a piece prepared for seeding this spring and I feel satisfied it will flourish there. Of the other two soils we have had the greatest returns on the heavier clay, especially upon a part of the field that slopes slightly to the southeast. It is not underdrained. Upon this three acres we grew about five tons per acre in 1908; somewhat less last season owing to the effect the extreme drought had on the 3rd cutting.

The land for alfalfa requires closer attention in preparation than is necessary for any other crop for the reason that it is likely to remain untouched with the plow for several years and if blue grass is natural in the soil as it is in mine it will gradually creep in and crowd the alfalfa out. Hence the necessity of cleaning it out thoroughly before seeding. Blue grass is the only enemy of alfalfa that I have to contend with; Canada thistles and all such weeds will disappear completely in alfalfa.

We seed practically all of our spring seeding to clovers but at the same time we aim to seed about four acres to alfalfa each year. Our plan is to plow up a red clover sod as soon after the clover is taken off as possible; say about July 20th or earlier. After plowing we disc the ground a few times then put on the spring toothed cultivator at least once a week, or whenever the field is dry, right up into the fall. This works all grass roots, etc., to the surface to be killed with the sun, wind and frost. It practically summer fallows the ground as well and the spring tooth cultivator leaves the ground ridged so that in most cases a couple of strokes of the cultivator in the spring (one each way) is sufficient to make a nice mellow seed bed.

I use the best seed that can be got. I sow it at the rate of 15 lbs. an acre, in front of the drill tubes. I sow it along with five pecks of barley an acre, obtaining therefrom about 30 to 40 bushels of barley an acre. We have never failed yet to secure a splendid catch of alfalfa, I have heard Institute lecturers and others advocate sowing alfalfa without a nurse crop. I place considerable value however, upon the barley stubble as I have found that it holds the anow longer in the spring as well as shelters the clover from the parching winds. It has been advocated to sow 20 to 25 lbs. of seed per acre. That depends largely upon the fertility of the soil and the condition of the seed bed.

I am often asked the question, is alfalfa good for pasture? My answer is that I prefer to cut and cure it for feel rather than risk having it trampled and cropped off so closely that it is liable to be killed. Alfalfa is too valuable a crop for one to take such chances.

I would trige every farmer to try some alfalfa, even though it be not more than an acre at the outset. Send to the O.A.C., Guelph, for Nitro-Culture and treat the seed with it. This treatment will only take a few minutes and will be of untold benefit where alfalfa or sweet clover has not already been in the soil. Full directions for using are sent with the culture and the seed can be treated with very little time or trouble. I would also urge that it be sowed in front of the drill tubes. There are several reasons for this: 1st, it is then sure to all be covered and none of it too deep; 2nd, if sown behind the drill a great

by protecting them from the wind.

The inside temperature of the hive should be nearly equal to that of an egg incubator. Hence, one can readily see the need of protection, because the bees alone have to keep the hive warm by their own natural heat, which they can do only by consuming large quantities of honey.

It is bad policy to be opening hives in the spring. One thorough examination as soon as winter is over should suffice. A good plan for

Spring Management of Bees

F. M. J., Nerfolk Co., Ont.

many losses are common through early spring,

and they result mostly through neglect. Many

take their bees out of the cellar, where they have

wintered, and set them in their summer quarters

without the slightest protection from the chilly

winds. Under such conditions it is very common

to lose the queen. The hive is generally too large

for the small force of bees to keep warm and clean,

and if exposed to the chilly winds of spring it is

impossible for breeding to be carried on only in

a limited manner in the centre of the cluster.

Much may be done to enable them to keep warm

This is the critical season for bees. A great

saving weak colonies in the spring is as follows:
When examining the bees on taking them from
their winter quarters
pick out and mark all the
weak ones, also the
strongest ones; then all
the colonies that have a
patch of brood in them
about the size of your
hand. Set all such on
top of a strong colony
with a queen excluder
between them, closing

through the excluder.

There may be some colonies that are very weak, having only a queen and perhaps a handful of bees and no brood. In this case take a rack of brood with its adhering bees from the strong colony, but be sure not to take their queen. Then put

up entrances to the

weak colony, except

colony on this comb with the strange bees and put it into the weak hive. On the following day set them on top of the strong colony, where you got the brood, with the queen excluder between. This all should be accomplished without disturbing either colony. Leave them in this way together for three or four weeks, then separate and you will have two good colonies. In a great many cases the top colony may be found the stronger and with more honey, on account of the tendency to store above.

The feeding of a little sugar syrup will greatly simulate breeding. This syrup is made from equal parts of sugar and water and should be fed luke-warm. Great care should be exercised in feeding lest robbing is started. It is best to feed towards evening, so the feed is disposed of during night, and the odor will have passed off before morning.

A little thoughtful attention will often save the weakling, which, with proper management, will handsomely reward before fall.

We may sow the best of seed, but if the soil is undrained, or otherwise unsuitable for the production of good seed, our work will be in vain. With good seed properly sown in soil well prepared great results may be obtained in the improvement of our crops by selection.—C. Nickolson, W.-Ilington Co., Ont.



Cutting a Supply of Fuel on a First Prize Ontario Farm

The illustration shows Mr. E. Terrill, of Northumberland Co., Ont., and some of his men at work on their wood pile. Mr. Terrill's fine buildings may be seen in the back ground. This farm won first prize in the Dairy Farms Competition for District No. 2.

deal of the seed is likely to fall into the tubes and be buried so deeply that it will never germinate; 3rd, if seed is treated with Nitro-Culture and sown behind the drill, the sun and wind is liable to destroy the effects of the bacteria before it is covered by the harrow.

### Prevent Joint III and Scours J. H. Caldwell, Carleton Co., On.

That disease of colts known as Joint-ill carries off thousands of colts annually. There is a similar trouble in calves, that of scours. Both of these come from infection through the navel just after birth.

All of these losses can be averted by washing the colts and calves as soon as possible over and around the navel cord with a 10 per cent. solution of carbolic acid.

Before taking this precaution, I lost several bead, especially calves which generally died with scours in a few days after birth. Since practising preventive measures we have lost none.

I know of no case in which the old adage of an ounce of prevention is better than a pound of cure is more clearly exemplified than in such treatment. Try it and be convinced.

We need a revivalist among our farmers to arouse them to the value of co-operative selling.—
W. L. Smith, York Co., Ont.

This article is another of the series now running in Parm and Dairy. Each prize winner in the Dairy Farms will contribute three essays on various returnes of the precise. Speak to your neighbors about these articles. They will appreciate them, too.



Build Concrete Silos

Any size with the London Adjustable tills

From the corn eats the steel, and the corn eats the corn eats the corn eats to the corn eats

ords allos. Send for Catalogue. We BRUINCHOT ST. Marriage St., Landen, Ontario. LONDON CONCRETE MACHINERY CO., LTD., 19 Marriage St., Landen, Ontario. LONDON CONCRETE MACHINERY CO., LTD., 19 Marriage St., Canden, Ontario. London. Marriage St., Landen, Ontario. London. London. Marriage St., Landen, Ontario. London. Landen, Company, Com

## BIG DISPERSION SALE 65 Head, All Good Ones

11 Registered Holsteins, 54 Registered Ayrshires WILL BE HELD AS

DALMENY, ONT., TUESDAY, APRIL 19

COMMENCING AT ONE O'CLOCK, SHARP

OMMENCING AT ONE O'CLOCK, SHARP

This offering includes many of the best animals I have been able to breed in my several years experience. The Holsteins are an all round good lot, rich in quality and breeding, and the state of the Holsteins are an all round good lot, rich in quality and breeding, and two of mile producers. Among the matrons are Camilla A. Abbekers, and two of mile producers, by competers are a very promising lot. The Ayrabire herd, heading and calves are the best lot, \$7765-6015, are a cert with the producers are the producers of the producers and the producers are the producers of the producer

THOS. IRVING, Auctioneer

JOHN CAMPBELL, Dalmeny, Ont.

# Amalite ROOFING

## Will End Your Roofing Troubles



IF you will write to-day for a free sample of "Ama-tite" the end tite" the end of your roofing troubles is in sight. After you have submitted it to every test that you can think of. that you will be pre-pared to order it pared to order it not only for your new buildings, but for your old roofs as well. You will find that it is cheaper to cover them with Amatite than to confine a superior of the superior of t tinue painting and and repairing them.

We make a strong point of our "Free Sample" offer because the smallest sample of Amatite speaks for itself. It is more convincing than yards of talk.

There are all kinds of ready There are all kinds of ready roofings on the market—so-called "rubber roofings," so-called "guarantee roofings," so-called "sand surface roofings."

The "rubber" roofings are no more made of rubber than a cow is made of saw-dust. The "guar-antees" that are promiscuously handed out with many brands are hedged around with so many provises that it will take three lawyers to dissect them and find out what they are all about. The "sand surface" has little or no protective value.

The point to remember is that all of these roofings have to be pointed early year or two to keep them tight. However, it is the point the troofing. If a metal, and not the roofing. If a metal, and not down and figure out exactly whit this paint costs, he will find that this paint costs, he will find that it is more than the roofing itself, it is more than the roofing itself, a Amatite, on the other hand, has a surface of real mineral matter and we sell the goods on the broad statement that you need never statement that you need never coat or paint this roofing.

You can lay Amatite on a roof and then forget all about your roofing troubles. No painting, no coating, no worry. The man who puts Amatite on his buildings it insured acquiret larks and tropured against leaks and trouble for many years.

## Free Sample

If you have any doubts about If you have any doubts about the matter and want to investi-gate our claims, send for sample and booklet to-day. The sample tells its own story; the booklet is written for practical men. It hits straight from the shoulder.

Address our nearest office.

THE PATERSON MANUFACTURING COMPANY, LTD. MONTREAL WINNIPEG VANCOUVER

## Potatoes as Feed for Swine

Our salesmen coming in during the week Our salesmen coming in during the week report that potates are very plentiful and selling at extreme low prices through out the country. We have that in Ireland a considerable and of these are fed, cooked, to the pigs, and they shall good result. Will you kindly a fine of the army data of experiments made with past of any data of experiments made with past (see as a food for pigs, and if so, we shall be very glad if you will let us have the flurres.—F. W. F., Limited, Wentworth Co., Ont.

Ont.
Prof. W. A. Henry in his book
Feeds and Feeding," makes the following comparison of grain vs. boiled
totatoes: (These figures are taken

ovariance experiments.)

lowing comparison of grain vs. boned potatoes: (These figures are taken from Danish pig feeding experiments.)
"Three series of experiments were made to test the comparative value of made to test the comparative value of cooked potatoes with grain, when both were fed in connection with skim milk or whey. Four pounds of potatoes were fed against one pound of grain, at the gains made were practically the same. Four pounds of boiled po-tatoes should thus be considered equal to one nound of grain in nig feating. tatoes should thus be considered equal to one pound of grain in pig feeding. The quality of the port produced from potato feeding was good and did not differ appreciably feed."

At the Wisconsin station, Professor Henry himself conducted trials with cooked potatoes mixed with uncooked corn meal fed in opposition to uncook-

cooked potatoes mixed with uncooked corn meal fed in opposition to uncook ed corn meal only in fattening pigs. The potatoes were cooked in as little ed corn meal only in fattening piece, ed corn meal of the water as possible, it being found that they were relished when so prepared. After cooking, the potatoes were mashed in the kettle and corn meal added, the whole forming a thick mush. In the first trial, there were three pigs in each lot, there were two in the seminary trials thating 42 days. Combining the first and second trials, the results are summarized as follows: 440 pounds of gain meal produced 1000 pounds of gain of the pounds of corn meal with the pounds of gain. From this we find that 786 pounds of cooked potatoes produced that 786 pounds of cooked potatoes when the pounds of gain. From this we find that 786 pounds of cooked potatoes when the pounds of corn meal; effected a saving of 187 with corn meal effected a saving of 187 pounds of corn meal; to save 100 pounds of corn real would therefore require 441 pounds of potatoes.

### Potatoes vs. Bran at \$22

Which is the best to feed to milking cows potatoes at 20c a bushel, or bran at \$22 a ton?—J. W. McC., Dundas Co., Ont.

Re potatoes, I would say that at 20 cents a bushel they are cheap feed if fed in moderation. Bran at \$22 is, however likely to prove more satis-factory and profitable under average conditions. The feeding of the two to-gether in moderation will give best results.—J.H.G.

### Rations for Dairy Cows

Prof. C. H. Eckles of the Missouri Prof. C. H. Eckles of the Missouri Agricultural College says the follow-ing rations supply the necessary ma-terial to produce milk economically. If terial to produce milk economically. If the cow will not give a good flow of milk in the early gard of the milking period and who part of the milking period and who part of the milking of one of these rational in indicates she is not adapted by all the con-tinged of the milking of the disposed of.

The amounts given are considered about right for the cow giving from

The amounts given are considered about right of the cow giving from 20 to 25 pounds of mits a day. For heavy-milking cows these rations would have to be increased, especially in the grain, and for light-milking pipethes, as I consider that patrons cows the grain should be decreased. In making up these rations it is designed that the cow be given all the Keyes, Huron Co., Ont.

The Feeders' Corner

The Feeders' Corner

The Feeders' Corner is for the use of wild to also we will call the sufficient of digestible material. It is not designed that these rations should be sufficient or best adapted for cows interest. All question end toms of interest. All question end to will be sufficient or best adapted for cows prompt attention.

The Feeders' Corner is for the use of wild that he will call the control of the sufficient or best adapted for cows in the tare being fed for making records, where a very maximum production is desired regardless of expense:

Clover hav. 20 ll.s.; corn. 5 to 6 lbs.: roughage she will eat and sufficient amount of grain to furnish the proper amount of digestible material. It is not designed that these there is not designed that the standard of cows that are being fed for making records, where a very maximum strong records, where a very maximum strong records, where a very maximum control of the desired regardless of expensal control Clover hay, 20 lls.; corn. 5 to 6 lbs.; bran or oats, 3 to 5 lbs.; corn, 8 to 12 lbs.

Altaria hay, 10 to 12 lbs.; corn-and-cob meal, 6 to 9 lbs.; gluten or cottonseed meal, 2 lbs.

meal, 2 lbs.; clover hay, 12 lbs.; corn, 5 lbs.; cbran, 4 lbs.; clover hay, 12 lbs.; corn, 5 lbs.; bran, 4 lbs. Alfalfa hay, 10 lbs.; corn, 6 lbs.; corn, 10 lbs.; corn, 7 to 9 lbs.; afrain, 2 lbs. Corn silage, 20 lbs.; alfalfa hay, 15 lbs.; corn, 8 to 10 lbs.

## Fall Feed for Steers

What would you suggest to sow hat would you suggest to sow as a late pasture to turn steers on, just be-fore being put in for feeding in fall Would rape drilled every other spout in a wheat stubble get growth enough be of any use?—M. C., Halton Co., Ont.

be of any user—M. C., Halton Co., Ont.
Rape would be the hest crop to sow
for fall pasturing of steers preparatory to their going of winter feed.
I would be rather afraid of sowing on
the wheat stubble unless two we well
cultivated before seeding.—J.H.G.

### Feed for Cows Under Official Test

I am about to do some official testing, and would be pleased if you would give me a well balanced ration that would give mean the state of the state

I have good corn ensilage (rich in c red clover hay, not very good quality, bran oats and barley mixed equal and ground, potatoes, and can get oil-cake, and sugar beet meal.

ploutness, anne can get ouenke, and sugar bou meal. Itself grain would you rec-ommend for summer feeding before corn is ready and when the grain of the con-is ready and the control of the con-tresher about this time of the your cows fresher about this time of the your cows fresher about this time of Tay test, I June.—M. C. C., Dundas Co., Ont. are up to June.—M. C. C., Dundas Co., Ont. are up to June.—M. C. C., Dundas Co., Ont. are up to June.—M. C. C., Dundas Co., Ont. are up to June.—M. C. C., Dundas Co., Tay to the saligae, 40 lbs; potatoes, 15 to 20 lbs.; fed alone; clover hay (cut) 5 lbs.; fed alone; clover hay (cut) 5 lbs.; felver hay (long) 5 lbs.; meal mix-ture one lb. for each two and a half lbs. milk.

lbs. milk.

Meal mixture:—Oats and barley,
100 lbs., bran, 200 lbs., oil-cake meal
100 lbs. sugar beet meal.

For the long or year test, I would
suggest—Corn singe 40 lbs.;

For the long or year test, I would
to 5 lbs.; straw (corn)
to 5 lbs.;
meal mixture, 1 lb. to 3 or 3½ lbs.
milk.

Meal mixture :- Oats and barley,

Meal mixture:—Oats and barley, 200 lbs., bran, 300 lbs., oil-cake meal, 100 lbs., sugar beet meal, 100 lbs. As soiling crops to grow for summer feeding I would suggest mixture, 100 lbs. oats, 40 lbs., peas, (small variety) 30 lbs. vatches an acre. Sow at interlbs. oats., 40 lbs., peas, (small variety) 30 lbs. vetches an acre. Sow at inter-vals to extend feeding period. Sow a small area of an early variety of corn as North Dakota White Flint, or Longfellow and sow early.—J.H.G.

The manure should he removed from The manure should he removed from the stable att twice a day. The cheanest plan is to have it drawn to the field at once, but it may be carried by ineans of a litter carrier into convenient manure shed. If the stable has a basement beneath, it is most easily cleaned by dropping the manure down through a trap door in the gutter.—G. H. Blair, Carleton Co., Ont.

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the men

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### Crop Management Queries

Would it be any use to sow barley among mammoth clover, which is rather thus, the land being quite clean, and could be narrowed up. 1 have a piece of well plowed sood intended for corn, but find it will be sow for fodder? would it do to sow milled in drills as 1 want to clean the land?—U. N., Sinceo, Ont.

in diffusion.

N. Simcoe, Ont.

I do not think that sowing barley if do not think that sowing barley is a question would be a I do not think that sowing barley on clover field in question would be a good plan. Would suggest rather that you pasture till about June 1st, then narrow well and sow millet, narrowing again and rolling after sowing milet. If incorvenient to pasture then let, if incorvenient to pasture then a mixture of oats, peas, barley and worthers, equal parts by weight, sown very thickly and well harrowed and rolled after seeding might be expected to do fairly well and furnish some good feed.

If not absolutely necessary to hoe land in question it would probably give best results if sown to oats peas,

give best results if sown to oats peas, oarley and vertices mixture mentioned above, sown four busieles an acre.

You would remain the work of the way of quantity from sowing millet in row salthough it would grow well. Probably sorghed would grow well. Probably sorghed and one that would make hay. Sow and would would make hay. Sow and would make hay two feet apart. Cut early and you might possibly get two crops. It is hard to cure as hay but it makes good ensilage.—J.H.G.

### Criticism of Dairy Farm Plans

Criticism of Dairy Farm Plans
We are at present engaged in darrying in a small war, but would like to enlarge a little. We are at the small war in the small cleared and cultivated of who have a life acres hay and pasture land and known as the home farm. We are keeping farm for day time, one of the small war in the small war in

plans and would like to have your opinion as to which you would advise as to labour, etc.

First, peaturing cows on pasture farm the plant of the pl

and page.—w. a., retra too, ton.

Of the three plans proposed I would
say that either the first or third would
jive more satisfactory than the
cond. If you have a sure market
or the property of the property
your milk or cream, both winter and
summer, then I would say that having
some cower freshearing from October Is. summer, then I would say that having your cows freshening from probetted lat to April 1st, the larger proportion coming in the month of Oern November and December would be the proportion of the property of

FARM MANAGEMENT high, you would have room for an ample supply of forage of a succulent nature. You will find it advisable even

in summer to feed some cut straw or long hay along with the silage. Do not make the mistake of building your silo too small.—J. H. Grisdale, Agriculturist, C.E.F., Ottawa, Ont.

### Details of a Round Cement Silo

Details of a Kound Lement Silo
What proportions of cement and gravel
do you advise for building silos? How
much cement and how many yards of gravel would be needed for a silo 14 x 58? For
a silo of this size what thickness of wall
is recommended at the base and what at
is recommended at the base and what at
to this matter would
celved.—E. T., Northumberland Co., Ont.
Concrete silos are usually built of
very coarse material and of a propor-



Cement Silos are Becoming Popular

The illustration shows one of the many round cement silos that have been erected in recent years, in Prince Edward Co., Ont. This particular silo is on the farm owned by Allan McDonald. Photo by an Editor of Farm and Dairy.

tion 1 to 10. We advise making them a proportion 1 to 8 as we find most people make them poor enough with-

tion 1 to 10. "The same in most people make them poor enough withpoole make them poor enough without being told.

A sile 14 x85 fit, will take 42 yards and 30 barrels of cement. The concern and 30 barrels of cement. The concern and 30 barrels of cement. The concern and the poured into the moulds very west. He poured into the moulds very west. He is done a large quantity of stone in a single pressed down into the west concrete and every yard of stone west concrete and every yard of stone to a sile this size which will reduce the cement. It is quite customary to use 10 yards of stone in a sile this size which will reduce the cement by 10 barrels, making it 26 barrels of cement. This is unstomary to make a wall for this and the concent of the sile should have a base the top. This sile should have a base the top the top the sile should be floored with concrete sate the foundations would not require to be so wide. It is always well the start a sile below the frost line. The slie should be floored with concrete about four inches thick; this floor being put on a level with the top of Lase for foundation.—London Concrete Machinery Co., Limited—Henry Poccet, Manager.

deal lighter than in winter, as quite a number of the cows word in July, August and September and so might be left continuously on the 150 acre farm.

15 believe, by constructing two sitos, the one 15 feet in diameter for summer use and the other 18 feet in dismeter for winter use, each 30 feet meter for winter use, each 30 feet and barry. We always the meter for winter use, each 30 feet Barclay, Greward to its coming.—James.

## This 5 Ton Scale Is Easy To Buy

You need not club with your neighbors to equip your farm with the scale you need—the CHATHAM Pitless

Scale. You can afford to buy You Have Comes Ready For Use Scale 1 ou can all save you You Have for Use it yourself. It will save you No Bother more than its cost in one No Bother season. Up to five tons it will weigh accurately all you buy or sell. You can erect it ready to use in a morning.



Your CHATHAM Pitless Scale will be YOUR Scale that you can take with you when you move. You can always get for it what you paid for it. And you need no skilled help to set up the CHATHAM—it comes to you complete, with plain directions. Built wholly of heavy steel. Nothing to rust, decay or go wrong. Government guarantees its absolute accuracy. Tested before it leaves the factory. Warranted fully.

## This Is The Complete Scale

Bear in mind that you have no hard work to do in setting up a CHATHAM. It is all solid steel, stands on its own feet above ground,—no pit to dig, no fussy preparation needed before you use it. Comes to you so you can be weighing on it in a few hours after you get it. No skilled mechanic necessary at all.

## Special Compound Beam — No Extra Cost

This season we include our new Compound Beam with each the Schall without adding a cent to the price of it. You can find no bigger bargain; yet the price is way down low. In sections where we have agents we offer special long-

time credit terms to those who would rather try the Scale before they pay for it. Write us and ask for full details.



Handy to move about as a wheelbarrow, yet accurately weighs up to a full 2,000 no mile.

Swivelled pole and front is let you turn it short through ways and around corners. Strong and staunch, too, like all scales we build.

### You'll Never Wear It Out

Main frame is one solid and very heavy casting. Levers are special heavy and strong, Bearings align themselves, because pivot rests on bearing loop—tilt the scale and it will still weigh right. And the price is very small!



I personally vouch for every statement this advertisement makes. advertisement makes, and I further guarantee that my Chatham Pitless Scale is the biggest scale value you can buy for money in this or any other country. Write me about it and I will see that this is proved to your complete satisfaction. Write now, MANSON CAMPBELL

WRITE US AND ASK FOR DETAILS

MANSON CAMPBELL CO. LTD. CHATHAM - ONTABIO

## 

### Vegetables for Home Use

Prof. W. S. Blair, Macdonald College. Seedsmen advertise numberless vari-Seedsmen advertise numberiess varieties of vegetables, each of which have desirable characteristics. The following sorts possess merits equal to any:

Beans—Early Red Valentine, String-less Green Pol, Wardwell's Wax and

Wax

Davis' Wax.
Carrota—Chantenay and Nantes.
Cauliflower—Selected early Erfurt.
Cabbage—Early, Jersey Wakefield;
medium, Succession; late, Roundhead.
Celery—Paris Golden Yellow, self-balancing.

Medium, Succession, and Self-balancing.
Corn—Early, Early Cory; second carly, Crosby; medium, Golden Bantam; late, Country Gentleman.
Cucumher—White Spine.
Citron—Colorado Preserving.
Egg Plant—New York Improved.
Kohl Rabi—Purple Vienna.
Educe—Grand Rapids, open head, and Larvailed, cabbage head.
Mu Darvailed, cabbage head.
Mu Darvailed, cabbage head.
Watermeloc. Cole's Early.
Onion—Large Red Wethersfield, Yellow Globs Danvers and Australian Brown.

rown. Parsnip—Selected Hollow Crown. Parsley—Double Moss Curled. Peppers—Bull Nose and Golden

Dawn.
Peas—Early, Alaska; second early,
Thos. Laxton or Gradus; medium, Admiral Dewey; late, Strategom
Potatoes—Early, Irish Cobiler; late,
Green Mountain, Carmen No. 1 and
Vermont Gold Coin.
Radish—French Breakfast and
Icicle.

Icicle. Salsify—Mammoth, Sandwich Isl-Spinach—Victoria. Squash—Vegetable

Marrow Hubbard. Swede Turnips—Favorite.

Tomatoes-Earliana and Early Turnip—Golden Ball.

Asparagus—Argenteuil.

### Ontario Horticultural Exhibition

The annual meeting of the officers Ontario Horticultural Exhibition of Ontario Horticultural Exhibition was held in Toronto on March 30. The treasurer, Mr. J. H. Dunlop of Toronto reported that the last exhibition had been a success financially and that there was a balance of \$90 on hand. It was decided to hold the next exhibition in the St. Lawrence Arena, Toronto, during the week of November 14, 1910.

The prize list will include \$1,225 in prizes for fruit, \$1,500 for flowers and \$425 for vegetables and \$800 for home.

\$425 for vegetables and \$300 for honey, a total of \$3,450.

a total of \$3,450.
The election of officers resulted as follows: President, H. R. Frankland, Toronto, 1st vice-pres., Mr. W. Couse of Streetsville; 2nd vice-pres., Mr. Thos. Manton of Eglinton; sec., P. W. Hodgetts, of Toronto; and treas., J. H. Dunlop of Toronto.

H. Dunlop of Toronto. The executive committee consists of the officers and Mesars. R. W. King, E. F. Collins, H. G. Sibhald, W. Jay and T. Delworth. The chairman secretary for the various committees were appointed as follows: Floral, chairman, W. Jay; see, E. F. Col-lins; Honey, chairman, H. G. Sibbald, see, P. W. Hodgetts; Fruit, chair-man, W. H. Bunting; see, P. W.

### SEED CORN

Twenty-one leading varieties of seed corn. All guaranteed to grow. Buy directly from the grower. Nearly fifty years' experience. Send for seed catalogue.

M. A. JONES RUTHVEN, ESSEX CO., ONT.

Hodgetts; Vegetables, chairman; T.

Delworth and sec., F. F. Reeves. The chairmen of the sub-committees will be members of the executive com-

mittee.

The Ontario Horticultural Association and the Niagara Peninsula Fruit Growers' Association were given the right to elect two representatives each as directors of the Ontario Horticultural Exhibition. It is expected the annual convention of the Ontario Womens' Institute will be held in Toronto Horticultural Exhibition. The secretary was instructed to write to Mr. Gary was instructed to write to Mr. G. Af Futnam, Supt. of Women's Institutes and invite the Women's Institutes and invite the Women's Institutes and invite the Women's and the served fruit, vegetables and of preserved fruit, vegetables and other aimilar exhibits at the exhibition. The Ontario Horticultural Associa-

### Profits in Potatoes

At the convention of the Western Horticultural Society held at Winnipeg in February an address was given by S. R. Henderson of Kildonan, and an, on "Potato Growing." Mr. Henderson pointed out that even at the low yield of 192 bushels an acre, given as official returns for the average yield of the province, potatoes at

### One Copy Worth a Dollar

One of my neighbors sent my name to Farm and Dairy as a new subscriber, and the first copy that I received was worth more to me than the price paid for the full year. I can not say too much of your most valuable paper.—Andrew Morden, Kent Co., Ont.

35 cents a bushel were a paying crop. 35 cents a busnel were a paying crop. He emphasized the necessity for the use of good seed, good cultivation and good land and estimated the proon one acre as follows:

Seed, 20 bus. @ 50c	@10 00
Marketing	. 16.00
PROFIT	\$42.50
Yield, 250 bus. @ 35c Less cost of production	\$87.50 42.50
Profit for one acre	845.00

## Fertilizers for Strawberries

W. T. Macoun, Central Experimental Farm, Ottawa

The best fertilizer for strawberries is well-rotted barnyard manure, which should be used in large quantities. There need be little fear of using too inuch—30 tons of well-rotted manure per acre being a fair application. It may be applied early in the spring be-before planting and theroughly income. before planting and thoroughly incor-porated with the soil or it may be 

els per acre may be applied broadcast-ed early in the spring when the land

is being harrowed, the larger quantity being used for land which is poor in potash. An application of even twen-ty-five bushels per acre should give

potash. An application of even twenty-five bushels per aers should give beneficial results.

If barnyard manure cannot be obtained easily, nitrogen and humns may be added to the soil by ploughing under clover, peas or some other leguminous crop; potash, by using from 200 to 300 pounds per aers of muriate of potash, if wood ashes cannot be obtained; phosphoric acid, by the use of ground bone, at the rate the control of the form, by the use of barnyard manner or leguminous crops. An application of 100 to 150 pounds of nitrate of soda broadcasted just before the flowers open in the spring, is sometimes desirable if the plants are not making vigorous growth.—Extract from Bulletin No. 62.

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### Fertilizer

Cheapest, Cleanest Odorless

Can be used anywhere on any crop

Convenient for use Increases your farm values

\$3.00 worth of Nitrate alone on an acre of Grass has given an in-creased crop of 1000 lbs. of barn-

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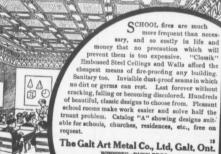
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### **我会会会会会会会会会会会会会会会会会会会会会会会** POULTRY YARD

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Age Limit of Hatching Eggs

Age Limit of Hatching Eggs

Hor long do you consider it safe to keep eyes for hatching? Where only a few hence you can be a supported by the considering eggs containing a good strong germ are kept fairly dry, and turned occasionally, in a room between 55 and 60 degrees, they should keep from two to three weeks. The longer they are kept, however, the poorer the results that might be expected. They should not be kept in one on the considering t

## Anxious about Off Colored Eggs

Are eggs from any one breed of thor-oughbred hens all of one color? I have paid a high price for eggs, sold for pure-bred White Wyandottes, and some of them are of a rich brown, some light brown, and



Portable Fencing for Chicken Runs

The above shows a very convenient means of yarding in chickens on temporary runs

of yazing in enterens on temporary runs. some pure white They are also of different sizes and of somewhat different shapes. Does this show they are not pure-bred? An early reply will greatly oblige-G. H. Laird, Oxford Co., Ont.

Laird, Oxford Co., Ont.

Carrier of the control are white and some of them brown flees not prove anything, though certain breeds have a general definite color in their eggs. There are some breeds that give a good many individual eggs which might be called off-color and the Wyandottes are known to be very irregular in their egg coloring.

The only way to get rid of the undesirable color, white, in this breed, classiful color, white, in this breed, may be a supersonable the second of the head of the heat that laid these off-colored eggs.—F. C. E.

## Elm Grove Poultry Farm

Guaranteed Fertile Eggs for sale from the following breeds: Rose Comb Brown Leghorns, Silver Grey Dorkings, Light Brahmas, Barred Rocks, Mammoth Bronze Turkeys, Embden Geese, Rouen Ducks.

J. H. RUTHERFORD, Box 62, Caledon E., Ont.



BRANTFORD. - CANADA

BRANCH OFFICE WINNIPEG, MAN.

### The Egg Eating Habit

C. G. Golding, Assa. East, Sask. The oft-repeated cry, "Why do our ens eat their eggs?" is common at its time of year. Replies are given this time of year. Replies are given by eminent experts generally advising more activity for the hens, variety of rations, oyster shell and grit, dark nests, etc. All these things, of course, are essentiais and if never lacking, the habit is seldom, if ever, acquired. Still, why do hens eat eggs? Let us this time of year

It will be noted that the habit is seldom prevalent among a flock of hens on free range during the summer, and this fact may lead to the theory and this fact may leaf to the theory that close quarters and dieness may be the cause. And indeed it is sense; it is a contributing cause. But a few hens kept in a large stock will learn the habit and, getting only what feed they can dig out of the litter and manure, can hardly be called closely confined or idle, and yet it is well known that such hens are amongst the worst offenders. They may be overfat then. This is true, but overfat hens do not lay at all.

#### SUMMER CONDITIONS

SUMMER CONDITIONS.

Let us next examine the eggshell. During the summer when the hens are on free range, the shell is quite hard and a person feels that he may handle that egg without fear of putting his finger through. But how easy one crushes the shell in the winter! Eggs are even laid without any shell.

The material that makes the shell so hard is lime. It is also one of the

as material that makes the shell so hard is lime. It is also one of the hardest materials to feed a hen in sufficient quantity when once she becomes short of it. She won't drink water containing lime, if you scatter it on the floor in the hope that she will pick it up; you will still get soft eggs, if you get any.

PORITYE REMENT.

There is one methods, however, which we discovered to tail. Person and have never known it to fail. Person it is in boiled grain. Just about a bespecified to a pail of grain, boiled with the grain, and fed with it, and in one or two weeks you will get eggs with hard shells on and little species of lime all over the shell and never an egg will be eaten unless some hardened sinner still persists, in which case boil the sinner.

An ounce of prevention is most POSITIVE REMEDY. is one method, however,

case boil the sinner.

An ounce of prevention is most surely better than a pound of cure, and if you keep your birds active, feed roots, animal food and a little grain and keep a hopper of oyster shells and grit always handy, there will be very little trouble with hens eating eggs. If the shells should get a little thin, a boiled feed with lime once a week is the remedy.

#### Cause of Infertile Eggs

In some cases the cause of infertile In some cases the case of the male bird eggs can be traced to the male bird not getting sufficient food. In his care for the hens and his gallantry to them, nor the nens and his gallantry to them, he allows them to eat the grain, and if the supply is short he has to go on short rations. Again, the fault may lie in the size of the breeding pen. There may be too few and there may be too many hens in the pen. If the male is a very action [4].

If the male is a very active fellow, and he be allowed too few hens, he will so harass them, and they so determined to fight off his advances that the eggs will be poorly fertilized. On the other hand, if the number of hens is too many, and the male not active, he will be unable to give them the proper attention. It is necessary to study the condition of the male bird in mating .- R. L., Leeds Co., Ont.

As a rule matured fowls' eggs hatch better than pullets and produce healthier and better chicks.

Better buy a pair of Lirds and pay a good price and get something good than to pay the same price for half a dozen and get birds not of good qual-

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Owen Sound, Unit.

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### Safe-Locked on All Four Sides

Don't make the mistake of thinking that all makes of metal shingles are very much alike. There is a vast difference between PRESTON Safe-Lock Shingles and others.

Unlike other Shingles, PRES-TON Shingles do not merely slip or slide together. Instead, they are SAFE-LOCKED on all FOUR steels. The picture above shows how.

Look at ARROW A. See how the sides of the shingles hook over each other. This is on the principle of the "sailor's grip." It is utterly impossible for shingles locked in this way to pull apart. The heavier the strain, the firmer the grip.

### Twice as Strong

The top lock of PRESTON Shingles is TWICE as strong as our wonderfully secure side lock. It consists of three thicknesses of sheet steel—see ARROW B.

The top of the shingle is where the greatest strain falls. Yet the top lock of most other metal shingles isn't as strong as the side lock of ours.

ARROW C shows how the shingles above hook over and lock securely to row below.

### Nailing Is Protected.

ARROW D shows the method of nailing together the top locks of two adjoining shingles. The top lock of the right hand shingle overlaps the one on the left. The nail goes through both shingles.

All nails on the flange of the top-lock are covered by the shingles on the row above. Thus all nails are protected from exposure to the weather. They cannot rust or work loose. They are there for keeps.

So strong are our locks that there has not yet been a gale

powerful enough to rip off a roof covered with PRESTON Safe-Lock Shingles. The terrific wind storm that swept over Ontario on April 8, 1099 ripped of scores of wooden, metal and prepared roofings. Yet not one of these metal roofs was a PRESTON Safe-Lock roof.

### Gale-proof Shingles

So close do PRESTON shingles lay to the sheeting and so secure are the Safe-Locks that even if some of the shingles were not nailed the roof would be solid and wind-tight.

It is utterly impossible to get PRESTON Shingles off the roof in any other way than by removing the nails one by one and unlocking each shingle separately. When you put PRESTON Shingles on your roof they are

### Snow-proof, too

No snow can be driven up PRESTON side locks and on to the sheeting below. The fold of our top lock closes right down over the end of the side lock, No rain or snow can be forced past this fold of sheet steel, unless you drill a hole through it first.

Just how easy it is for snow or rain to be driven up the side joints of other shingles you can readily see for yourself.

Simply fasten the sides of two ordinary shingles together. Then hold the shingles up and look through the joint. You can see daylight through it. That means there is an unobstructed passage through which rain or snow can be driven by the force of the wind.

Make the same test with PRESTON Shingles. You cannot see daylight through our side locks. That means the ends of our side locks are closed securely against wind and weather.

### Generous Folds

The folds of PRESTON Safe-Locks are of such generous size that there is room and to spare for expansion and contraction due to excessive heat and cold. Even the shrinking of the wood sheeting or the heavy strain due to the settling of the building is not sufficient to make any difference to our safe-locks, whereas other shingles will pull apart and leave spaces for leaks.

## Patented Construction

You understand now why PRESTON Safe-Lock Shingles are so different in construction from other metal shingles. They will always be different and better, too. We were the originators of the interlocking Shingles. The patents we hold prevent others from making as good a shingle.

### British Government Specifications

It is a well known fact that the British Government is the most particular buyer in the world. Ordinary metal shingles could not pass their Acid Tore severe on the galvanizing than twenty years of Canadian weather. Yet PRESTON shingles will casily pass this test,

PRESTON Shingles are made and galvanized according to British Government Specifications,

## Twice the Service

Shingles galvanized according to these specifications are good for twice the service of shingles galvanized in the ordinary way.

### Lightning Guarantee, Free

We have been making PRES-TON Safe-Lock Shingles for eleven years. In all that time we have never heard of lightning damaging a building roofed with PRESTON Shingles.

So positive are we that a roof of PRESTON Shingles is lightning-proof that we give you a lightning guarantee free. This proves to you our unlimited confidence in the lightning-proof quality of PRESTON Shingles.

## Most Quickly Laid.

As PRESTON Shingles are cut accurately to size, and the locks carefully made, they lock together quickly.

togener querky.

A man and a helper can lay
10 squares of PRESTON SafeLock Shingles in a day, whereas
5 or 6 squares would be a good
average with ordinary
shingles. If you have a large
surface to roof that saving of
time and labor means a good
deal to you.

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We have Just Issued a new booklet, "Truth About Roofing."
We should charge something for this, as it contains information of real value to anyone who has a building to roof. But we will send it FREE as a reward to all who cut out, fill in and mail the coupon to us. Just you mail it today, or you'll forget it.

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Name	about PRESTON Shingles, British Government Specification and Free Lightning Guarantee.
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## Prospects for Dairying in 1910 dairy cows above that of a year ago.

Prospects for Dairying in 1910

A summary of the conditions prevailing as regards feed supply, number of cows and the prospects for the dairy season, which is now poning, as compiled from a large number of special Farm and Dairy correspondents located in the prominent so-called dairy sections of Ontario, was given in Farm and Dairy last week. From these reports it would appear that prospects for the dairy season of 1910 are exceedingly bright. There are not seen to be no shortage of feed. Spring to be no shortage of feed for the feed of the spring to be not short and the spring to see the season of the state of the spring to the season of the state of the spring to the season of the state of the spring the season of the state of the season of

for one of the best seasons that it is possible to have. While such are the conditions presenting in the dairy sections of Ontigon the dairy sections of Ontigon the dairy sections of Savorable for Quebec. Serious shortage in feed supplies during the past two years has caused many farmers to reduce their herds. Quebec farmers until recently have relied sole-larmers ly on pastures for summer feed and hay and straw for winter fodder. Recent experiences of short supplies of these fodders, however, have caused many to turn to corn and the silo. the abundant corn crop of last year did much to relieve the situation, and it will be the means of many more turning to this great crop as a source of feed for 1910.

of feed for 1910.

Brief extracts from Ontario and Quebec correspondents, other than those given last week, only the second of the consumer of cows will slightly exceed that of a year ago. Fresh cows are sufficiently expensed to the consumer of the company of t



### A Type that Should be Discouraged

This milk house has convenience alone as a recommendation. It opens directly into the horse stable.

—Photo snapped by an Editor of Farm and Dairy.

ences of the last few years, efforts will be made to a larger extent to supply green feed in case we have short pas-tures. Some new silos are to be built

tures. Some new silos are to be built this summer. Those who have silos are well satisfied with them." J. E. Jewson, Welland Co., Ont.— There may be an increase of from five to ten per cent in the number of



On a Tag on a Plug of Black Chewing Tobacco Stands for Quality.

dairy cows above that of a year ago. Farmers are trying to obtain an increased production without making any addition to their herds. There is a good market here for dairy products during the summer season, but it is not so good in winter. We would be greatly benefited by the operation of more creameries, and cheese factories. There is plenty of feed for dairy cattle."

Webster, Frank Victoria Co Ont.—"Ours is not what one might call a dairy district, although we have several factories and creameries. and creameries



A Most Serviceable and Sanitary Milk Stand

The illustration shows a combined ice house and milk stand, the type of which is becoming popular throughout Eastern Ontario. The stock bull, "Count Eric of Meadowlane," stands in the foreground. Photo taken on Mr. H. C. Emerson's farm, astings Co., Ont.

They draw their supplies from a large radius. Cows will number about the same as last year. Feed is holding out very well." R. C. Cleugh, Northumberland Co.,

is holding on.
R. C. Cleugh, Northumberland co.,
R. C. Cleugh, Northumberland out
Ont.—"Feed supplies are holding out
well, and there will be plenty until
well, and there are good
the coming well, and there will be plenty discrete are good pastures are ready. There are good prospects for dairying this coming season. Cows will number less than

prospects for the dairy industry in 1910 a year ago.

a year ago.

Tucker, Hastings Co., Ont.—

"Prospects for the dairy industry in 1910 a year ago.

1910 Cattle have wintered well and there is a notice-able absence.

The supply of sixthess in herds. The supply of the sixthesia in the property of the supply out safely until pastures are ready, out safely until pastures are ready, out safely until pastures are ready.

W. F. Stephen, Huntingdon Co., Que.—"Last fall a lot of old cows year safely as a greater take safely as a canners. As many were sold as canners. As many

W. F. Stephen, Huntingdon Co., Que.—"Last fall a lot of old cows were sold as canners, As many heifers if not more are ready to take their place. We have a larger percentage of cows ranging from bur to eight years of age than ever long the control of the contro

ien look for a favorable season."

M. D. Buchanan, Richmond Co.,
ue.—"Spring is at least two weeks

One—"Spring is at least two weeks carrier than usual. Feed is plentified than usual. Feed is plentified than usual. Feed is plentified than though high in price. There will be though the property of the carrier of the control of the carrier of th

is not as bright as we could wish. Serious shortage in the hay crop last year caused many farmers to sell of year cansed many farmers to sell on much of their stock, including cows. The mild winter each the feed question for the control of the control of the early spring makes the feed question not as serious as it according to the situation as regards and dairy products is healthy tendency amongst farmers to raise more feed in the shape of grain and fodder orn."

C. A. Westover, Mississquo Co., Oue.—"All things considered, the

and fodder corn."

C. A. Westover, Mississquoi Co., Que.—'All things considered, the prospects for dairying this coaing season are very good. Dairy products are in good demand and at good prices. Large numbers of dairy cattle were sold last fall owing to the shortage of fodder caused by drought during the summer. Cattle were sold off probably to the extent of 10 per cent. This reduction in herds, howoff probably to the extent of 10 per cent. This reduction in herds, how-ever, did not hinder the sale of large quantities of hay and grain which were brought in by the carload and sold at high prices. Some are still short of feed, but the majority have sufficient to last until pastures are ready. Some dairymen last year made provision for shortage of feed by deready. Some dairymen last year ready. Some dairymen last year provision for shortage of feed by provision for shortage of feed by oc-voting a larger area to corn. Many, however, depended upon their hay and straw, with the result that their cows have been poorly fed all winter."

If we would succeed in producing sheep at a profit we must place better fitted mutton on the market than in the past and by the excellency of our product compel those who are looking for good autilities. cellency of our product compel those who are looking for good nutritious food to recognize lamb and mutton as it long has been recognized in England, the finest and most healthy of all meats.—Geo. L. Telfer, Brant Co...

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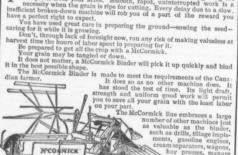
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AND RURAL HOME

Published by The Rural Publishing Company, Limited.



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OUR PROTECTIVE POLICY

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### FARM AND DAIRY PETERBORO, ONT.

## A BIG MAN AND A LARGE SALARY 251/2 per cent.

The salaries paid in Canada to our agricultural authorities are far too small. For this reason it is going to be impossible to secure a capable president of Macdonald College unless a large salary, one of at least five or six thousand dollars a year is paid. There are any number of men who would be glad to accept the position for far less salary but such men are not the kind who are likely to make the success of Macdonald College that the best interests of the country re-

The president of Macdonald College must be a man of strong personality, capable of ruling such a large institution, firmly and harmoniously, while being at the same time enterprising, progressive and holding the respect of not only the members of his staff but foresight to plan accordingly, are the of the farmers of the country as well. ones who will profit from the high Until such a man can be found for prices made possible by these econ-Macdonald College, the work of that omic conditions.

institution will be seriously crippled. A strong man must be secured and he must be paid a suitable salary. It is fortunate that Sir. Wm. Macdonald's experience in business must have shown him how essential it is that men who hold important executive positions must be capable and well paid

### BRIGHT PROSPECTS FOR THE FARM

The number of food animals in the nited States has decreased five milhon since 1901. The number of consumers has increased 12 million in the same time. These figures are the result of the analysis Ly the Bureau of Statistics of the Department of Commerce and Labor, of the census estimates of population, and the Department of Agriculture's estimates of food animals in the years 1901 and 1910. The term "food animals" includes in this instance all cattle, sheep and swine in the United States as estimated by the Department of Agriculture. The term "consumers" includes all the population as estimated by the census.

The total number of cattle in the United States on January 1st, 1901, according to figures of the Department of Agriculture was 621/2 million; sheep 593/4 million, and swine, 57 million, a total of 179 million. For January 1st, 1910, the estimate was, cattle, 69 million; sheep, 571/4 million and swine 473/4 million, a total of 174 million, a decrease of five million in the aggregate of the three groups of food animals. The census estimated the population of United States on June 1st, 1901, at 77,647,000 and on June 1st, 1910, at 89,912,000, an increase of a little more than 12,000,000 in the population while the number of food animals was declining about 5,000,000.

In the meantime, the total value of the food animals in the country has increased despite the reduction in number. The estimated increase in the aggregate value of food animals is 22 per cent. while the total number was declining a little less than three per cent. the increase in the average farm value per animal of the entire number of food animals being

Prices of grain show advances also. The quoted price of corn in the New York market in the first week of January, 1901, was, according to figures of the Bureau of Statistics, 45% cents a bushel and in the first week of January, 1910, 711/2 cents a bushel, an advance of 56 per cent; of oats in January, 1901, 281/4 cents a bushel and in January, 1910, 491/2 cents, an advance of 75 per cent.; of wheat, in the first week of January, 1001, 81 cents a bushel and in January, 1910, \$1.30 a bushel, an advance of 601/2 per cent.

With such conditions ruling in the Republic to the south, there can be little danger but that high prices for farm produce will continue to prevail for several years. Those who recognize the situation, and have the necessary

## THE ISSUE MUST BE FORCED

Some 300 municipalities in Ontario recently petitioned the Ontario Government for power to assess improvement values at a lower rate than unimproved values. The object of the municipalities who presented these petitions to the Government was to have it made possible for them to encourage farmers and others to improve their lands and homes instead of increasing their taxes when such improvements are made. The desired system of taxation is in force throughout Australia and is giving general satisfaction. It has also proved successful in portions of the United States.

Premier Whitney turned the petitions down with an intimation that the municipalities did not understand what they were petitioning for. The probabilities are that the municipalities understood the situation a good deal better than Premier Whitney does. The officers of the councils presenting these petitions are closer to the people, on the question of municipal taxation, than is Premier Whitney. They know what their constituents want. Premier Whitney evidently does not.

This question is one of too great importance to be allowed to drop at this stage. The issue must be pushed. The agitation for the desired change in the basis of taxation must be continued. Nothing more unfair than our present system of taxation can well be imagined. The Government must be shown that the change desired is absolutely necessary and that it must be granted.

#### IMPORTANT WORK THAT IS NEGLECTED

As part evidence of the fact that the resignation of Dr. James W. Kobertson proved a serious blow to the Dominion Department of Agriculture, we drew attention recently to the fact that some time after Dr. Robertson's resignation, the Poultry Division of the Dominion Department of Agriculture was abolished. One reason given for this procedure was that the work of the Poultry Division was duplicated to some extent by the Poultry Branch of the Dominion Experimental Farm. Of the two, the latter might have been done away with the more readily inasmuch as the work of experimental farms properly belongs to the provinces and not to the Dominion Government. The provinces have experimental farms of their own on which extensive experiments in the handling of poultry, are conducted. The larger questions of trade, however, are being left undealt with by the provinces as they cannot handle them to advantage. This work properly belongs to the Dominion Government and it is not being touched.

As an example of what could be undertaken, we might note that practically nothing is being done to increase our export trade in poultry. Denmark has made a great success of its poultry trade through combining the poultry and the dairy interests. Eggs and poultry are collected through

uniform manner and exported to the British market. One of the largest wholesale and retail commission houses in Canada has expressed its willingness to Farm and Dairy to pay an advance of two cents a dozen over the regular market price for all eggs handled in this way by Canadian creameries

Our export and home trade in poultry might rapidly be increased by hundreds of thousands of dollars each year were our Dominion Government to take up and push this matter. Nothing has been done by the Dominion Government and nothing seems likely to be done as things are at prest has soon as a capable Deputy Minist a of Agriculture can be secured; a mai who knows what the country needs and with the ability and enterprise to see that its needs are filled, the Dominion Department of Agriculture will speedily become of much greater value to the farmers of Canada.

### PAY ATTENTION TO LABELS ON SEED

When buying seeds, we should always look for the information concerning certain weed seeds, which, if present in any quantity at all, should go with seeds that are offered for sale. These labels apply to 15 noxious weed seeds. These weed seeds appear mostly in seed grain. Two of them, viz., ragweed and wild mustard may be present in alfalfa and red clover so that a label is required.

Some of the seeds besides the two just mentioned and about which information should be given are wild oats, purple cockle, cow cockle, perennial sow thistle, ergot of rye, field bindweed-and what should be looked for in any seed coming from the prairie provinces, ball mustard, hare's ear mustard and pennycress.

Some of the wholesale houses protect themselves by putting on the labels. Some of the dealers however, neglect to do this as they find that farmers will not buy such seed when labelled. Inspectors are insisting on the label being present.

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### Credit Where Due

(The Pacific Homestead, Salem, Ore.)

It is cold justice to say that much of the credit for the successful meetings of the British Columbia Dairymen's and Live Stock Associations is due to Ronald W. Hodson, secretary and treasurer of both the associations. Mr. Hodson is also the Live Stock and Dairy Commissioner of the province and it is our judgment that great deal of the energy, enthus and progress that we find along dairy and live stock lines in British Columbia, is due to the energetic work of Mr. Hodson. British Columbia is fortunate in having such a man to fill this position.

In conclusion we warn the dairymen of Oregon and Washington that unless they look well to their methods, there is grave danger of their brother dairymen of British Columbia excelling them, not only in manufacturing production but also in the class of their stock. One thing more; these Canthe creameries, packed and graded in adians certainly do know how to eno the

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tertain their guests. The time spent about it and urge them to become attending the meetings of their asso-readers like yourself. ciations was enjoyed more by me than any other like time in my life.

## \*\*\*\*\*\*\*\* PUBLISHER'S DESK

2,000,000,000,000,000,000,000 We feel proud of last week's issue of Farm and Dairy, our second annual speak of Farm and Dairy, our second annual Speak Dairy Number. Did you look it feel to be seen to be seen as the second of the second of the second of the second look it feel to be seen to be which were high the influentations, which were high the contributors were almost all well known the tors were almost all well known the tors were almost all well known the tors were almost all well known the tous were short, seasonable, instructive and interesting. The contributors included were short, seasonable, instructive and interesting. The contributors included in the head of a firm which of butter in the world; J. H. Griedale, and the training of dollars worth of butter in the world; J. H. Griedale, Dr. H. G. Reed, a noted experience of the contrainty of leaves possibly the intental Farm, Ottawa possibly the intental Farm, Ottawa

### Dairying in Prince Edward Island

Theodore Ross, Sec. for Agriculture.
The story of the dairy industry in
Prince Edward Island is becoming
more pleasant to tell. The co-operatmore pleasant to tell. The co-operative factory system dates from 1892. Frior to that several factories had been in operation, but the total output of cheese for 1894 was valued at only 88,448. The following year, however, Froi. James W. Robertson, no Dr. Robertson, Dairy Commissioner of Canada, induced the farmers in the vicinity of New Perth to build a factory on the occonerative plan. He vicinity of New Perth to build a factory on the co-perative plan. He tory of the plan to the comparison of the plan to the comparison of the comparison of the plan to the comparison of the plan to the comparison of the comparison of the plan to the comparison of the comparison of the plan to the comparison of the comparison o



## THE DANGER LINE

Avoid High-Speeded. Quick-Wearing. Cheaply-Constructed. Imitation Cream Separators

## DE LAVAL Cream Separators

SEPARATOR AFETY

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#### FARM AND DAIRY

PETERBORO, ONT.



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onsists of a Teat Bistoury. Teat pener. Milk Tube. Teat Expander and a supply of Antiseptic Soap, all ted in a neat, compact case. Every-ning you need to remedy obstruc-ous, and easure free miking. This tilt is especially useful after calv-ze. Full and simple instructions are Full and simple instructions are south and easure free milking. This suffit is especially useful after calva. The suffit is especially useful after calva. Full and simple instructions are ent with each case. Price for a commerce set, \$3.00. Order to-day and t us send you our large Catalogue dairy supplies





3,000 pounds, and it has not taken the farmer long to find out that al-most the whole of the increased promost the whole of the increased production per cow is just that much increased profit for him.

But the whole of the increase is not

But the whole of the increase is not due to the better care and feeding of the cattle. Quite a number of farmers have been weighing and testing the milk of each cow in their herds for the purpose of getting rid of the least profitable ones, and it is expected that by June, 1910, there will be upwards of 400 dairymen members of cow testing associations in this Province.

PRIZER TO STIMULTER PRODUCTION.

ing associations in this Provious testparkers to Stituther Production.

To further encourage the production
of milk, the Department of Agriculture is this year offering through the
Dairymen's Association \$240 in cash
prizes to the patrons of cheese factories and croameries supplying the
largest amount of milk and butter
largest amount of milk and butter
largest amount of two or more.

It is also in herds of five or more,
milk and butter fat regest amount of
milk and butter fat regest amount of
of land under cultivation of largest amount
of land under cultivation of largest amount of
One question that always come is.

One question that always comes in One question that always comes in for discussion at the annual meetings of the shareholders and patrons of the factories is the cost of the huling of the milk. Within the last few years it has risen from seven cents a hun-dred to almost 11 cents. That amount will however, seen he reduced a dred to almost 11 cents. That amount will, however, soon be reduced again. The increased production of milk will make shorter routes possible, and full loads on short routes means cheaper loads on short routes means cheaper milk hauling. It is quite possible too that the introduction of hand sep-arators will be a factor in overcom-ing the difficulty. At any rate a great number have been sold during the last two years. the last two years.

Our dairy products are reported by our buyers to be of first quality, and the next few years will witness a great increase in quantity. We have great increase in quantity. We have natural advantages, such as few oth-er countries possess, and when the in-telligence of our people shall have been definitely directed to the produc-tion of butter and cheese, it would require a man of large experience to predict the output.

The greatest weakness of the cream-The greatest weakness of the cream-ery business to-day, is the condition of the cream as received. The cream for the most part is too thin, and most of it is sour, which latter is due largely to the lack of cooling.—J. F. Singleton, Kingston Dairy School.

## \*\*\*\*\*\*

Creamery Department

Butter makers are invited to send one tributions to this department, to ask questions on atterned to suggest subjects for demaking and to suggest subjects for demaking and to suggest subjects for demaking the suggest subjects for the supplement.

### The Difference Shown Up F. A. Keyes, Huron Co., Ont.

has been known for some time It has been known for some time that there is a certain amount of in-justice done to patrons by creameries using the pipette instead of the scales in making their monthly tests. I have In maxing their monthly tests. I have found from experience that an 18 c.c. pipette will not deliver 18 grams of 27 per cent. cream. The richer the cream the greater will be the difference in the test

in the test.

I could give plenty of examples in this connection but shall take time for one only. Last week I had a sample of cream which tested 32 per cent. by of cream which seated 32 per cent. by weight, but 18 c.c. of the same cream tested only 30.3 per contained to the same cream tested only 30.3 per cunfairly dealt with were the pipette sed, and the difference would be must be the difference would be must be the contend with. These air bubbles to contend with. These air bubbles coented with the same the same coupt a certain amount of space in the pipette, but do not count for any

cupy a certain amount of space in the pripette, but do not count for anything when the sample is weighed. In feeting very thin cream we find an 18 c.c. pipette will deliver rather man, the cause being so much skim milk in the sample. We could come to the conclusion that cream country in the property of the country of th

pette are discouraging rather than en-ceuraging patrons to send rich cream. How are the patrons going to re-ceive justice for rich cream? We must either have some form of legislation on the matter or else the patrons must unite and demand that creamery wars based on weights adopt a uniform

ers based on weights adopt a uniform method for testing cream. The Babcock test is based on weights. Then why use a measure weights. Then why use a measure will not deliver the correct amount? It is as easy and as quick to weigh the as easy and as quick to weigh the samples as it is to measure them. Our instructors and a number of factory and makers are projuct the instructors and a number of factory owners and makers are urging the patrons to send a richer cream and yet the testing in a number of our factories is done in such a way as to put a premium on their cream. The ouly remedy I can see for this is for all creameries to use the scales and weigh each sample. Then the creamerty man will be enabled to pay each patron for the exact amount of butter-fat he sends.

### Quebec Government to Supervise Butter and Cheese Makers

An important Government measure An important Government measure of the Qubec legislature relates to in-spection of butter and cheese factories, which are to be brought more under

Government control.

It is provided that every proprietor It is provided that every proprietor of butter and cheese factories must register his name in the office of the Minister of Agriculture. Following are important clauses of the bill:

On and after the 1st day of Janu-"On and after the 1st day of January, 1912, or person, company, society or corporation shall carry on a butter factory, or cheese factory, or factory for bemanufacture of confensed or powdered milk in a building or establishment not entered in the register mentioned in article 2031c, without him; previously obtained from the Minister permission to carry on such business and such permission on such business and such permission on such business and such permission. on such business and such permission to earry on such business and such permission shall not be granted except on a re-port produced and signed by an in-

spector.

"Such permission may be refused if the factory is badly built, badly equipped or unhealthy, upon the report of an inspector approved by be board of directors or the executive committee of the Dairy Association of the Province of Quebec, after notice by registered letter to the interested parties.

"Upon the report of an inspector that a butter factory or cheese factory, or factory for the manufacture of condensed or powdered milk, is not in a satisfactory healthy condition or the manufacture of dairy products, the manufacture and remain closed until the inspector reports that it has been made satisfactorily healthy, and that it is properly built and equipped for manufacture of dairy products.

The product of the condense maker in a butter fact he lat day of January, 1910, after the lat day of January, 1910, the present hall act as head butter maker in certificate, or certificate, which is a certificate, special permit may be contributed as the certificate, special permit may be minded at any time by the Minister on the condense and experience.

and experience.

## Dairying in Saskatchewan

W. A. Wilson, Supt. of Dairying. All the creameries that are under All the creameries that are under government supervision are working on sound business principles and particular attention, will this season, be given to quality. Special instructions will be given creamery patrons, details of which are not yet completed. Four points however, will be emphasized, cleanliness; low temperature; 35 per cent. cream, and more frequent delivery. delivery.

A series of 38 institute meetings has just been completed, most of which were conducted in districts adjacent to existing creameries. The average attendance at these meetings was 52. This, in v.ew of the fact that 51 out of the 38 were held at that 51 out of the 38 were held at that 51 out of the 38 were held at country school houses, presents a very commendable record. The value of the meaning is indicated more by the discountry school houses, presents a very commendable record. The value of the control of the country school house, and the school house of the country school house, and the school house of the country school house he country school house he country school house, presents a very commendable house he country school house, presents a very commendable has been country school house, presents a very commendable her had been country school house, presents a very commendable her had her ha A series of 38 institute meetings

sent conditions warrant any rapid ex-tension but the importance of the work will be kept more prominently work will be kept more prominently before our dairymen with a view of impressing the necessity of knowing the financial returns produced by each cow in the herd. Arrangements are cow in the herd. Arrangements are in the course of preparation for sup-plying information and instruction in districts not yet in a position to support a creamery, because of the sparse settlement. Centralization of creamery work along the various lines of railway will take first place in our Arrangements are

ogramme. There is little doubt but that cream-There is little doubt but that creamThere is little doubt but that creamery patrons are more directly interestand desirons of obtaining informaand desirons of obtaining information of the control of the control
prove their will enable them to improve their will enable the sympathy of the latter is being consistent
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have th rad a splendid effect. Unhealthy development has been retarded and existing evelopment has been retarded and existing creamers a doing a greatly increased business of the government is charteness of the contract and contract a

WANTED — Helper for creamery to com-mence June 1st. Apply stating age and experience. Southworth Bros., Harwood. Ont.

FOR SALE.—Box churn and Mason worker, First class condition; just the thing for some one putting in whey butter plant. Southworth Bros., Harwood, Ont.



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Our 1910 Steel Vat is going to be just a little better than ever before continued to the continued of the co

THE STEEL TROUGH AND MACHINE CO., Limited TWEED, ONT.

Makers are invited to send contributions to this department, to ask questions on to this department, to ask questions on matters relating to cheemaking and to matters relating to cheemaking and to be a contributed on the contributed of the contributions of t

## An Importer Reviews the Cheese

Question Herbertson & Hamilton, Glasgow.

The past season has not been a fav-

The past season has not been a favorable one to the importers in the Canadian cheese trade, prices having been uniformly too high compared with those ruling for Home produce. The condition both of the cheese and boxes on arival here has been satisfactory, and shows that proper care has been taken in the handling during transit. We have, however, had some complaints of quality, the most serious being regarding the keeping properties of the June make. In many cases, these cheese showed a tendency mite badly, and go damp both on the following the properties of the June make in many cases, these cheese showed a tendency mite badly, and go damp both on the following the

MAKERS EVIDENTLY WERE TEMPTED
In the summer made goods, we had
complaints of openness of texture and
brittleness in cutting, and the Septemper and October makes in not a
few cases, showed a pastiness and lack
of flavor which compared unfavorably
of the open the compared in Canada
day one-thing to distinct in Canada
and something to distinct in Canada
day something to distinct in Canada
afraid that at least in some cases, aclariating that at least in some cases, or
the factorymen. The keen competition for patronage, and the effort
to take as large a quantity of cheese
as possible out of a given amount of
milk, hare we are afraid, in some cases
at least, tempted makers to put quanthe before quality. MAKERS EVIDENTLY WERE TEMPTED

ment in the marking of the weights on the boxes, and hope by another season

**PERFECT EQUIPMENTS** 

FOR BARNS

ing of the Fork Pulley. We make erent Hay Carriers. For particulars

LOUDEN MACHINERY CO., Guelph, Ont.

Hay Tools and other Barn and Stable Pittings

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are the best and most reliable Carriers manufactured in Canada. Note in the Louden Junior Carrier how compact it is and see how the wideflaringmouth insures the care.

Cheese Department
Makersare invited teend contributions to this department, to ask questions on matters relating to cheesemaking and to matter schaffler to the contribution of the contri

#### ILLEGITIMATE BUSINESS

ILLEGITHATE DUSINESS

This past season, dealers who do only a legitimate week to week trade, have been very considerably hadrone to the property of the property of the property of the property and Many, June made choese for July shipment; and again in July, selling. September made for October shipment, at prices shillings Lelow what legitimate traders could possibly offer at. at prices shillings below what legitimake traders could possibly offer at.
The result has been scriously to interfere with business, and while we are
not in a position to absolutely prove
the statement, we have not the slightest doubt that many of the cheese
shipped on these speculative contracts,
were notiber June's nor September's.
If each cheese was correctly and legibly dated when made, this illegitimate system of business would be rendered so dangerous that the game
dered so dangerous that the game dered so dangerous that the would not be worth the candle. the game

This matter closely concerns the fac-torymen and farmers, because if the firms on this side who take the weekly output of factories at market prices, are to be brought into regular and long are to be brought into regular and long continued losses through the speculative manipulation of the market, it is clear that the trade will ultimately fall into the hands of the speculative interests, and the maker in Canada will be placed at a very serious disadvantage in consequence. vantage in consequence

### An Act to Provide for Tested Glassware

An Act to provide for the testing of glassware used in connection with milk tests has Leen introduced by the Hon. Sydney Fisher and has passed the House of Commons, but has not yet passed the Sensate. Dairy Commissioner Ruddick pressed for this missioner Ruddick pressed for the bed sairymen, but been asked for by the dairymen, but also because he has found during the last year or two a large percentage of last year or two a large percentage of the currently graduated milk test bottless and pipettes. One cream test buttle showed an inaccuracy of 10 per cent. on the scale, and many milk An Act to provide for the testing cent. on the scale, and many milk test bottles showed inaccuracies of .4 and 6 per cent. The principal clauses of the Act follow:

and 6 per cent. The principal clauses of the Act follow:
Every test bottle, pipette and measuring glass used in connection with the testing of milk or cream shall be tested for accuracy of the per cent. scale marked thereon, be used persons and at such places as are designated by the Governor-in-Council, assignated by the Governor-in-Council, assignated by the Heaville of the control of the council of the manner provided by regulations made under this Act.

No other test bottle, pipette or measuring glass shall be so marked, nor shall any unauthorized person mark any test bottle, pipette or measuring glass used in connection with the testing of milk or cream in any manner which would indicate that it is accurate in accordance with this Act or with any regulation made thereunder.

No person shall sell or offer to sell any test bottle, pipette, or measuring glass used in connection with the testing of milk or cream unless it has been so tested and marked accurate.

ing or milk or cream unless it has been so tested and marked accurate. No person shall use any test bottle, piptte or measuring glass in connection with the testing of milk or cream, if such testing is for the purpose of determining the value or the relative value of the said milk or cream, unless such test Lottle, pipette, or measuring class has been tested and marked accurate as provided by this Act.

Nothing in this Act shall apply to measuring in this Act shall apply to the room measures used in connection the Babcock milk test for the measuring of sulphuric acid.

The Governor-in-Council may make regulations for the operation and energiations for the operation and energiated and the such as the content of the co

fercement of this Act, and may, by such regulations, establish fees for the verification of the apparatus therein referred to and also provide for the imposition of penalties not exceeding dollars for each offence against

dollars for each offence against this det or against any regulation made thereunder.

Such regulations shall be in force from the date of their publication in the Canoda Gazette, or from such other date as is specified in the proclamation in that behalf.

This Act shall come into force by proclamation of the Governor-in-Council.

To the makers I would say that you are doing much, but you can do much more, and a sure you will all agree with man sure you will all agree with men and the greatest usefulness unless we have hot been of the greatest usefulness unless we have hot been of the greatest usefulness unless we have hot been of the greatest will be the condition than the been held of it, unless the people have been helped, and the country has been better both morally, mentally and financially because we have been in it.—Dr. C. A. Publow, Ithaca, N. Y.

Send Farm and Dairy a list of the patrons of your factory and we will gladly send them sample copies gratis,



## Every Dairy Poultry Farm

Should have a supply of DR. WILLIAMS' FLY AND INSECT DE-WILLIAMS' FLY AND INSECT DE-STROYER. It kills Lice on cartle, Hogs, etc., Vermin in Pe-litry Houses, and is one of the best Germicides. A protection against the dreaded Foot and Mouth Di-

A remedy for preventing Abortion in Cows. Read what T. W. Purvis. Elmsdale Jersey Stock Farm, Lishon, N.Y., ansy: "I undishon, N.Y., ansy: "I undishon, N.Y., ansy: "I under the stroyer by Spraying the Stables and Cattle with it, and am very much pleased to say that I have not had another case of abortion in my herd since using this preparation, and recommend it as a germicide to all dairymen who are troubled with Abortion in their herds." A remedy for preventing Abortion

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# CHOKE

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If contraptions were necessary, how do Sharples Dairy Tubu-

lars, which have none, produce ming force, skim faster and several times cleaner than common separators? Why do Tubulars probably replace more commore com-mon separators than

any one maker of such machines sells? maker of such machines sells? Why do Tubular sales easily exceed most, if not all, others combined? Why is the manu-facture of Tubulars one of Canada's leading industries? These facts are invincible proofs that Tubulars are The World's Best



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d Sores. Allays Pain. Book fr UNG. P.B.F., 123 Temple St., Springl LYMANS Ltd.

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ONTARIO WIND ENGINE AND PUMP CO. TORONTO, ONT.

OUR STICKNEY GASOLINE ENGINE



s simpler than any other on the market. You can learn to run it IN 10 MINUTES Won't easily get out of kilter.

GUARANTEED Our Bookles to. 57 is full of





"OUSEKEEPING is the expression of a woman's mind. homemaking is the expression of her soul.



## The Bell Strike

By Leilia M. Ellefson (Concluded from last week)

He had at last come to the point man had given him as a farewell tokwhen Silas caught him testing places, showing the red flamel under the temperature of the frying-pan in typical Oriental fashion, there as aw noisy difference of opinion; and the Chinaman, somewhat disturbed, his almond shaped eyes throwing back disagnated glances, went trotting down the gusted glances, went trotting down the path, muttering, "Melican man dam-

fool."

After a final threatening kick, Silas sat down on a porch to cool off. He mopped the perspiration of the fact and assured himself grin half he was a deacon of the church and lieved in foreign missions, but he'd be dummed if he was going to give all hu made to the heathens—and board em besides.

cem besides.

As he thought about the strenuous work of the past three weeks, and the money he had paid out for help, his eyes bulged wildy and his beard grew stiffer and stiffer as his mouth clinched together tighter and tighter with indignation. Finally be jumped up with an angry snort:

"If I warn's a deacon Pd swear!" In desperation Silas had written to his sister-in-law asking her to come to visit, but not explanning the state of affairs.

to visit, but nor explaining of affairs.

"If only I can git Marthy here, I'll show 'eni'' he consoled himself "She's got sense, Marthy has, and will help a man that's petered by sich 'er family o' dum idgits.

He was aunsyl booking for a letter, honing she would set a date for ter, honing she would set a date for

He was auxiously looking for a let-ter, hoping she would set a date for her arrival; so now when he heard a wagon rumble up to the gate he peer-ed eagerly down the path with the hope some neighbor had brought his mail. But a shout of joy escaped him as he recognized the substantial form of the woman climbing over the wagon. of the woman climbing over the wagon

wheel,
"Marthy Bell!" he cried, hurrying
down to the gate. "Jig me if I ain't
glad ter see you!"
"Howdy, Silas," Martha returned,
straightening her bonnet and brushing
off the streak of dust the wagon wheel
had printed on her black alpaca dress
before holding out her hand to Silas
"I got your letter and I started right
of Air Mary or the children sick?"
Silas straightened up and answered
stiffy:

"Guess they're well; they ain't ter

"A what?" Martha squealed.
"Er strike," Silas repeated, looking foolish. "You know what er strike is don't you, Martha?"
"Yes." Martha said. "The

is' don't you, Marthy?"
"Yes," Martha said. "But, my
stars, I never heard o' thate disease
tackling a whole family better
"Nuther did I," Silas agreed quickly, thinking he read sympton in her
amazed face. "Course it's ridiculous,
an'," his lips tightened, "mighty dun
hard on me."
Martha's koon awas asexhod his

see this er—er trouble as I do; Mary an' the children think I ain't give 'em ernough gew-gaws an' they're gone on er—er strike."

Martha's keen eyes searched his stubborn face a few minutes before

she spoke.
"What do they want?" she asked directly.

"They left er-er bill," Silas stammerod

"They left or—or bill," Silas stammered.

"Fer land's sake!" Martha persisted. Let me see it."

Boing so desperate for sympathy. Bilas did not pause to think that he was about to expose the skeleton in the family closet, but hurried into the house and brought out the notice. While Martha was fishing her glasses from her handbag he fastened the cardboard against the house.

"Read it!" he cried, indignantly. "It's the biggest lot er dum foolishmen, you ever hearn tell on!"

Mattha's face was a study as she Mattha's face was a study as she slowly read. When she reached the



"I'd be ashamed to look an honest, well-meanin' pig in the face. Good bye. I'm going to join the strikers."

outward symbol daily due—collar or no collar—his office as deacon of the no collar—his office as deacon of the church was prawling like the arms of a Dutch windmill under one ear; this happening to be one of the days there is an accordance of the collar to respect the season of the collar to respect to the collar to the collar to respect to respect to the collar to respect to respect to the collar to restable to the collar to respect to the collar to respect to the c outward symbol daily due-collar or

"Well, Marthy," Silas began slow-home."
"Fer land's sake, Silas, what's the matter with you?" Martha cried in surprise, as she took her first good look at him. "You look like a mad turkey gobbler that's been fightin."
Silas hastil, put his hand to his Silas hastil, put his hand to his bristly red hair and tried to smooth down its indignant uprising. He was startled to find his forehead wet with blood oozing from a scratch the China"o" your managin", an 'I know you'll

tour, half-way down her nose, halted in confusion.

"My stars! Hard on a man!" she cried sharply, shaking her finger at the card. "Is it true, Silas Bell. that the posies stood up like bristles. You wouldn't buy that baby a dol!!" Stunnned by this sudden change Silas stared at her stupidly, the grin frozen to his face.

"Fer land's sake man! What air you grinni' like an idgit fer? It ain't nuthin' funny."

The grin slowly changed to a half-

shamed look and Silas answered sullenly:
"Mary made nice rag dolls."

"Now see here, Marthy," he said querulously, "you ain't er goin' to turn 'gainst me, air you? I think it's er dum mean way fer 'em ter treat

er dum mean way fer 'em ter treat me.''

"Lord help your persimmons of a soul, Silas Bell!" Martha exploded "My stars! If I'd been in Mary's place I'd helped Time make that bald, spot o' yourn so big your head wouldn't low so much like a fat doughnut!" "Why, Marthy!" gasped Mr. Bell: "You needn't 'Marthy' me, Silas Bell; you're goin' to hear the truth about yourself fer once."

Martha's face settled into firm lines, showing she had the courage of her convictions.

"You jes' set right down in that chair," she went on firmly, "an' listen till git dom."

Mr. Bell was too surprised to rebel, the so sank down in the chair limply.

"I allers knowed you was most tingy 'nough to save the hide of as discount of the set of the

in' thief!"
"Marthy!!"

in' thief!"

"Marthy!"

"I said a sneakin' thief!" Martha ropated, her plump hand coming downless of the property of the prope

to her feet and shaking her finger in unaccustomed rage before his blinking eyes.

"You don' deserve sich a wife as Mary, nor sich children, nuther; they'd trated you right if they'd left you years ago an' gone to work where the hours were shorter an' the pay better—an' surer. A nice man you air to be a deacon o' the clurch an' posin' as a good religious man! What kind of religion have you got that don't teach you to take care of an' appreciate them the good Lord sends you?"

Martha paused a moment to get her such but Mr. Bell had at last been stath but Br. Bell state her was been shall into silence. He just kept blinking in the silence. He just kept blinking the state of the state of the silence had been and at the silence of the silence of land you ever owneries bought with the money Mary's father we her. An' now seems if she can't give her she was poor and the she was poor and the she was poor and she w

now seems if she can't git' nough monoy out o' you to buy herself decent
clothes—let alone feathers and fixin's
that's rightfully hers, an' none o' your
business, if she wants 'em.''
Martha straightened up and tied
her bonnet strings with such a jerk
that the posies stood up like bristles.
"I guess I'm done, Silas," she said,
going down the stops, but pausing a
moment to add:
"Me stays." If

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proven Chemie ing, at city or tion th chief v ing back at the poor man she had re- | thought-the exchange of experiences.

ing back at the poor man she had reduced to a state of collapse.

He gazed after her until she finally disappeared into the woods leading down to the water. Then he roused himself and threw his old straw hat himself and threw his old straw hat become been been supported to the state of the

taunting num contengy; "Thiefs—theoi-sneakin' thief!"
The camp of the strikers was thrown into confusion early the next morning by Te! turning handsprings from one of the confusion of the tent to the other, and see this part of the content of the content of the confusion of the tent to the confusion of the conf

COOPERASHUN FER ALL COM HUM! SILAS BELL

### The American Farmer's Wife (Continued from last week)

(Continued from last week)

About twelve years ago a number of women in Ontario, who appreciated the value of the work of the Teachers' Institutes and of the Farmers' Institutes, practically said to the Government, "Why cannot the farmer's wife also have some system of study arranged for her? If it is of value for the farmer to understand a balanced ration for his cow, why is it not of equal importance for his wife to understand a balanced ration for his cow? Does not for family? Are not the children of more value than the cows? Does not the future of agriculture in our country depend upon the physical, mental

the future of agriculture in our country depend upon the physical, mental and moral condition of our boys and girls. Does not this condition depend largely upon the wisdom and intelligence of the mother? We need help. Will you give it?"

In answer to that ples, the Government established Woman's Institutes. Ontario is divided into districts, each with its district officers. These officers are responsible for all branch institutes organized in their districts. The Government gives financial aid to each institute organized. A certain The Government gives financial aid to cach institute organized. A certain number of meetings must be held through the year, and a certain average attendance be maintained, in order to receive this financial aid. The Government also provides the speakfowernment also provides the speak caccess of this work will be understood when it is stated that it began with one meeting, attended by a few women; and the Ontario official report of 1905-06 gives 91 electoral districts, en; and the Untario omeiai report of 1908-09 gives 91 electoral districts, with branches established at 502 points, and a membership of 13,550. The attendance for 1908-1909 was over

The attendance for 1908-1909 was over 100.000.

This work, in different forms, has been adopted not only in Canada, but in several of the States at the request of the women of the country. It brings to the farmer's wife the same elements of interest that make the women's clubs of the cities of so much educational value. Everything that is of value to the home is welcomed on its programme: Training of Children in Home and School; Woman's Work from a Broad Viewpoint; Personal and Household Hygiene; Responsibilities of Mothers; Best Literation of the Homes; General Improvement the Homes; General Improvement of the Kitchen; Domestic Art; Flower Culture; Poultry Raising, and so Culture; by the women of ditter with the control of the country are of equal interest to the women of the country of the coun are of equal interest to the women of city or village, it inspires a co-opera-tion that is of mutual benefit. The chief value lies in the interchange of

thought—the exchange of experiences. The woman who has succeeded can help her sisters by telling how. In her desire for intelligent suggestions in home-making, the farmer's wife differs not a whit from the wife of the village or city man. Women everywhere were never more eager for self-improvement than to-day. Their needs vary according to the type of woman and her environment. The Woman's Institute strives to meet those needs as presented.

Woman's Institute strives to meet those needs as presented. And women need other women. No man can riew life from a woman's viewpoint, any more than a woman can from a man's viewpoint. The best man in the world will not understand a woman's problems as will another woman. woman.

The work of the Woman's Institutes The work of the Woman's Institutes has been to bring women together in order to solve some of the problems that all are meeting. Some rotal that all are meeting. Some often a great deal hinges upon their correct solution.

correct solution.

I remember at one meeting a paper
was read on the artistic decoration
of the home, and especial struss was
laid upon having a dainty table. It
was written by a woman whose home
was luxurious and whose taste was

was liverious and whose home der, but plain white is preferable, as exquisitious and whose taste was exquisitious and have a dainty table? I see a red table-cloth and red naphins," said another. "I find that save a dail of washing," the hired men most of the time and my husband and myself. The hired men are generally foreigners, hopelessly raition, it is all I can do to get them to wash their hands and faces and to washing. The plain white is preferable, as colored in the save as a deal of washing. "I use the call the color washing that the preferable, as colored in the call that the call the call the preferable, as expected was a likely and the call that the call

more washing than I can do, so it was out of the question." And the speaker's eyes filled with tears for this was one of her unsolvable problems. "Well, sister, I'll tell and the problems was one of her unsolvable problems as well as the second of the se put a washstand covered with white obi-cloth, with pitcher and bowl and tin slop-jar, out in the back entry. I hung up a mirror bear some sand nai-cleaner (I bought as to long at the che-cent counter), also k long at the che-cent counter), also k long at the che-cent counter). Then I said to the men, This is your dressing to the men, This is your dressing the counter of the coun and a big piece of soap. Then I said to the men, This is your dressing room. You must make yourselves tidy before coming to the table. In the house I make the rules, and if you do not comply with them I shall fine you five cents for each transgression, and deduct it from your wages.

and deduct it from your wages.
"It worked like a charm. "It worked like a charm. I used paper napkins—one can buy a wonderful supply for five cents. I placed one under each plate, besides the one for their use. These I burned when solide. By managing in this way I could use a table-cloth quite a while, and it looked very pretty. Sometimes I bught napkins with a colored border, but plain white is preferable, as colors run when wet."

A Wife Who is Appreciated

Not often does a wife have such public testimony Lorne to her worth before her friends, as fell to the lot of Mrs. Victor Begg, of Moose Creek, Ont., recently. Mrs. Begg's husband succeeded last year in winning the first prize affersed for the heart drive.

succeeded last year in winning the first prize offered for the best dairy farm in Ontario east of Kingston, in the prize farms competition held by Farm and Dairy.

While Mr. Begg now has a splendid farm, well cared for and well drained, good farm buildings and a comfortable to the control of the control o it was nearly albrush and swamp. At that time he was poor. To-day he is well to do. At the pulse presentation of prizes held teen though the swamper of the presentation of prizes held to be the swamper of the opportunity to the receipt to the worth of Mrs. Begg by telling something of the hard struggles that he list denountered from the time they first moved into their little log cabin, including a description of their weeding day, when he had threshed until noon, getting married in the afternoon.

according to the control of the cont "The credit for my success," said

home.

"Making money has not been our main aim. We have wanted a home for our children, as well are for our selves. Knowing full well as for our selves. Knowing full well as the Begg's support has been to make the only right that on an occasion of the kind, she should get credit for all that she has been and done for me."

WANTED HER TO KNOW

WANTED HER TO KNOW

Mr. Bogg described how, when he found that he had won the first prize, he had well as the head with the head her had been to tell Mrs. Begg the new state of the new state of

## 

The Kind We Like to Get

"It is my sincere wish that Farm and Dairy may be enabled to carry on to continued success the vast improvement that has marked its rapid growth of past years. Farm and Dairy is indeed giving a great stimulus to trull life, and an uplifting influence on agricultural conditions."—Fred C. Ward, York Co.,Ont.

my children have to eat with them ternity. When the boy first comes to and will imitate their ways. I cannot college he is carefully observed by set a separate table and got through every fraternity to see if he is 'good with my other work. We have to eat a 'dainty table'? They soil the tade the interest of the contract of the contr



## FOR ADOPTION

## THE CHILDREN'S AID SOCIETY

OF ST. THOMAS, ONT., has for adoption the two little girls (sisters) whose picture is shown here. They are fine, healthy, well trained children, of a good family. A. is aged six years and B. is aged three

Address applications, with names of Minister and two other responsible persons for reference, to

W. J. SHAW, Secretary, City Hall, ST. THOMAS, ONT. I could go. When I got home and found that Mrs. Begg was not in, I almost went craxy before she got back so that I could tell her. My daughter, so that I could tell her. My daughter, when she what had happened to me, when she heard the noise I made." When I got home and

## Resessessessessesses The Upward Look

### According to our Faith

And Elisha prayed and said, I pray thee, open his eyes, that he may see. And the Lord opened the eyes of the young man; and he saw; and, behold, the mountain was full of horses and chariots of fire round about Elisha.-

What most of us need is that we may have our eyes opened, just as did the young man in our text, so that we will be able to see that God's love we will be able to see that Go's love and power is all around us, eatching over us, helping us, protecting over us, helping us, protecting dwelling in us just as it was with Elisha. Our God is the everlasting God that changeth not. He is the same God who helped Elisha and He will help us just as He helped Elisha if the will approach Him with the same faith of the weeks past, an effort has been male to show in this department that God weeks past, an effort has been male to show in this department that God weeks a past, and we would be supported to the same faith of the same faith of

has been made to show in this department that God is anxious to give us every good gift juna soon as we extend that the source of all love all power to the with Him. Last week we showed to with Him. Last week we showed in the window, all peace, all joy: That all windows, all peace, all joy: That proportion as we have these elements in our lives they have need derived from God. even although we may not in this departproportion as we have these elements in our lives they have been derived from God, even although we may not be conscious of it. The whole universe is governed by God's great laws. The sun, the moon and the stars operate acording to his decrees. Day follows day, winter give. activing to an accrees. Day follows day, winter gives place to summer and summer to winter throughout the ages.

All we can do is play our little part All we can do is play our little part in this great setting and just in so far in this great setting and just in so far as we lift up our eyes and recognize that God is in it all and behind it all do we enter into closer communion with God. And just in the degree that we come into this realization and compact oursales with God who is connect ourselves with God who is this Infinite Source of power do we make it possible for these higher pow-ers, to work, and manifest through

Were we to enter a large factory Were we to enter a large lactory and see a workman laboriously operat-ing a machine by his foot or hand when he might, by simply reaching up and attaching a belt from his machup and attaching a belt from his machine to a shafting overhead, derive power from some great engine furnishing power for the whole works, we would consider him a foolish man. And yet that is what many of us are doing. We are trying to shape and And yet that is what many of us are doing. We are trying to shape and direct our own lives without paying any attention to the great laws of Nature, of God, that are operating all around us. We fail to even recoming them. cognize them.

cognize them.

In the words of Ralph Trine: "We can keep closed to this divine inflow, to these higher forces through ignorance, as me of the control of the us Or we can intentionally close ourselves to their operations and thus deprive ourselves of the powers to which,
by the very nature of our boing, we
are rightful heirs. On the other hand,
we can come into so vital a realization of the oneness of our real selves
with this Infinite Life and can open
ourselves so fully to the incoming of
this divine inflow, and so to the operawe can intentionally close ourourselves so fully to the incoming of this divine inflow, and so to the opera-tion of these higher forces, inspira-tions and powers that we can indeed and in truth become what we may well term, God-men.

of this type; for the only limitations and stunted lives simply by virtue of the fact that yet on not realize the larger life to thich they are heirs. Mankind has it is of odd. Through its ignorance it if of of odd. Through its ignorance itself a chan-nel through which the infinite powers and so has never made itself a chan-nel through which the infinite powers and forces can manifest. and forces can manifest.

When we know ourselves merely "When we know ourselves merely as men, we live accordingly and have merely the powers of men. When we come into the realisation of the fact that we are God-men, then again we live accordingly and have the powers of God men."
"With God all things are possible,"

and just as we open our lives and al-low God to enter and take possession we derive the power we of us so do we derive the power we need to drive out whatever is un-pleasant in our lives and to live a life of peace and joy and power.—

### ... Two Bright Girls

We are glad to publish in another column of this issue, an advertise-We are glad to publish in another column of this issue, an advertisement from the St. Thomas 'Children'; neutrino the St. Thomas 'Children

in Ontario has been written of heretion on this Department of Farm
and Dairy, and commends itself to our
and Dairy, and commends itself to our
and Dairy, and commends itself to our
enders all off from the
are gratified to receive Province. We
are gratified to receive Drovinces. We
are gratified to receive Drovinces. The
angue of the State of Farm and Dairy was of
grating many children in good homes.
We trust that some one of Farm and
Dairy readers will take it upon themand the provinces of the provinces of the provinces
and the provinces of the provinces of the provinces
and the provinces of the provinces of the provinces of the provinces
are the provinces of the provinces

### ... How to Make a Lawn

After a lawn is well started there comes the question of keeping it in condition. Other crops are not only comes the question of her condition. Other crops are not only fertilized but the ground is kept constantly stirred by repeated workings. You can't work the lawn as you do You can't work the lawn as you do other crops, so be generous in giving it the necessary fertilizer. If the land has been thoroughly enriched, before the lawn was made the autumn followthe lawn was made the autumn lonow-ing, a top mulch of well rotted man-ure should be put on. This not only keeps the roots of the young grass in proper condition but supplies food for the coming spring.

Mowing spring.

As to mowing, a lawn sown in the fall selform has to be mowed before the next spring or summer. Then the grass show the spring or summer is the spring or summer. The spring or summer is the spring or summer. Then the grass show the spring or summer is the spring or summer. The spring of the sp

went term, tou-men.

"And what is a God-man? One in whom the powers of God are manifesting, though yet a man. No one can set limitations to a man or a woman set limitations to a man or a woman set limitations."

All new lawns need rolling frequently to make the roots take firm hold, and the heavier the roller the better. The texture of the turt on a lawn make as described will improve for the

first four years of its existence. As the Kentucky grass grows and crowds out the other kinds the surface will As out the other kinds the surface will become more and more beautifully uni-form and firm under tread. To keep it in condition it sould have its annual top dressing, should be moved sufficiently often to keep the grass under three inches and should be rolled early in the spring and again in the autum. Lawns should set he be rolled early in the spring and again in the autumn. Lawns should not be mowed after the middle of September.

#### ... To Bathe the Baby

Cut two strips of wood one by one nd one-half inches and long enough to reach



across the bath tub. Then cut two similar strips

about two feet in length, and screw to the under side of the cross strips so that they fit inside the tub. Place an ordinary baby's bath tub on the cross strips, and slip a four-foot piece of half-inch rubber hose over the conditions of the faucet in the large tub. He can be sufficiently as the condition of the faucet in the small tub along half-inch hole in the small tub along half-inch hole in the small tub along half-inch hole in the small tub along the four deep leastly filled and cut a beginning the casily filled and omptied. By the casily filled and omptied. By the casily filled and omptied by the free end of the hose, the baby can be given a shower bath. This simple arrangement will be found very currentent, as the be found very convenient, as the mother can bathe the baby without constant stooping and without being compelled to carry water.

#### ... To Clean Mirrors

A soft rag (linen is preferable), dampen with pure alcohol, or brandy, apply to mirror and rub the soiled spots until they disappear. Take a soft rag or tissue-paper and polish the mirror until it glistens.

#### ... To Remove Ink from Wash Goods

Goods

Melt a piece of tallow, and plunge the ink spot in the hot fat, then wash the article, and all traces of the ink will be gone. If the article be colored or will not wash, drop melted wax on the spot, let it harden, then remove with a knife. The ink will be soaked up by the wax. If a shadow of wax or stain remains, put a piece of wax or stain remains, put a piece of wax or stain remains, put a piece of blotting paper over the place and press with a hot iron.

... I recently secured a club of eight ew subscribers to Farm and Dairy new subscribers to Farm and Dairy and received as a premium a fine hanging lamp with which I am very hanging lamp of the property of the premium. Every-one who has seen it says it is a fine prize for so little work.—Mary Cum-mings, Russell Co., Ont.

### Follow this advice.

Quaker Oats is the best of all foods; it is also the cheapest. When such men as Prof. Fisher of Yale University and Sir James Crichton Browne, LL.D.-F.R.S. of London spend the best parts of their lives in studying the great question of the nourishing and strengthening qualities of different foods, it is certain that their advice is absolutely safe to follow.

Professor Fisher found in his experiments for testing the strength and endurance of athletes that the meat eaters were exhausted long before the men who were fed on such food as Quaker Oats. The powers of endurance of the non-meat eaters were about eight times those of the meat

Sir James Crichton Browne saysore oatmeal, eat plenty of it and eat it frequently.

### \*\*\*\*\*\*\*\*\*\*\*\* The Sewing Room

Patterns 10 each. Order by number and size. If for children, give age for adults, give bust measure for waista, and waist measure for skirts Address all orders to the Pattern Department.

\*\*\*\*\*\*\*\*\*\*\*\*\* ROUND YOKE NEGLIGEE 6365



The negligee that is made slightly low at the neck and with short sleeves is desirable on a warm day, and this model is essentially dainty and successfully desired and successfully desired to the land attractive. In the land attractive, in the land attractive, in the land attractive, in the land attractive and the land attractive attra

styles.

Material required for medium size i yds. 24, 3% yds. 32, or 2% yds. 44 in

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

SEVEN GORED SKIRT WITH TUCK ON EACH GORE 6596



The skirt that The skirt that tends to give a slen-der effect to the fig-ure is a favorite. This model includes one plait at each one plait at each seam, and the tucks provide jubecoming fulness. just Te is a seven gored mod-el, which is always a well fitting one. It el, which is always a well fitting one. It will be found appropriate for gowns, suits and for separate skirts.

Material required for medium size is 34 or 27 50

9% yds. 24 or 27, 5% yds. 44 or 52 inches er edge is 37% yds. 44 or 52 inches er edge is 37% yds. 44 or 52 inches er edge is 37% yds. 45 or 52 inches The pattern cut in sizes for 22, 24, 26, 22, 30 and 32 bust, and will be mailed on receipt of 10 cts.

SHEATH PETTICOAT WITH ADJUST-ABLE FLOUNCE 6105.



Petticoats with separate adjustable flounces are among the latest. This is made with a five gored upper por-tion and allows a choice of flounces of two widths.

Material required or medium size

yds. 36, or 2 yds. 44 in. wide; the wide flounce will require 4 yds. 05 embredders 15 in. wide. the narrow flounce 4 yds. 10 in. wide or 24 yds. of material 21 or 24, 15 yds. 35, 1 yd. 44 in. wide to make as 15 yds. 36, 1 yd. 44 in. wide to make as 7 me pair wide. 10 yds. 10 yds. 10 yds. 10 30 and 35 inch www. and will be mailed on receipt of 0 ets.

on receipt of 10 cts.

CLOSED DART FITTED DRAWERS 6277.



Drawers about the hips d loose about the knees are preferred knees are preferred by the greater number of women. This model can be finished with an underfacing at the upper edges or with

der-facing at the upper edges or with
bands as liked.
Material required
for medium size is
2½ yds. 36 or 2½ yds.
44 in. wide with 4
yds. of insertion, 2½,
of in. wide and 2 yds. of modifier
gathered frills.
The pattern is out

The pattern is cut for a 22, 24, 26, 28, 30 and 32 inch waist, and will be mailed on receipt of 10 cts.

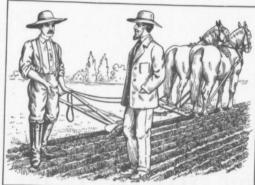
# EATON'S CATALOGUE

SENT FREE UPON REQUEST

# DO YOU USE AN EATON PLOW?

Mark how clean a furrow the EATON plow cuts.

Notice how well it breaks up the soil and buries the stubble.



Just try the handles and see how easy it is to hold.

There is none of the strain upon the arms and the tiresome wobbling.

The above statements express the prevailing idea amongst farm neighbors who use EATON Plows—then you save money on the price also.

# SEE OUR FARM IMPLEMENT PAGES IN THE SPRING CATALOGUE

With the settled purpose of offering only the best to our customers, we have searched the country over to find implements of tried reputation; we have listened to the arguments of manufacturers as they presented the merits of their machines. Our expert buyer has examined the machines at work and in the making; many months have been spent in gathering information regarding the different makes and styles. The makes we have chosen appeal buys an EATON implement will be able to testify.

# This Catalogue Saves Double Money on Your Purchases

Turning to the Big Oatalogue you'll be impressed with the extensive display of clothing, furniture and other household goods that you are in need of every day. A close scrutiny of the prices and a moment's consideration of what you have been paying for goods ofttimes not so good, will convince you that you will save money on the purchase price and obtain a longer service from the article; that is, you make a double saving—one on the price and another on the long wear.

Please do not idly look this book over, but note carefully the styles; observe the clear and distributations; read the accurate descriptions; study the low prices and end up by making out a list of the things you want just now and send it with the money to us. You have no reason to hesitate, because we guarantee that the goods will satisfy you or you may return them for your money in full and we will pay all transportation charges both ways.

The farm machinery and implement pages will interest you because of the unusually low prices for reliable goods. Take notice of the price prepaid to your nearest railway station, and count up the dollars and cents you save buying from us.



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BOOK
CATALOGUE

T. EATON COMITED TORONTO

GROCERY
CATALOGUE

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### HOLSTEIN-FRIESIAN NEWS

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

### HOLSTEIN-FRIESIAN OFFICIAL REC-ORDS FOR FEBRUARY, 1910

ORDS FOR FERRITARY, 1919
Halda's De Kol Princess (2005 at 2 years, 5 months and 19 days of the, 1852 lbs. butter, 621.68 lbs. milk. Owned by Hardenon, Mirord Junction, Ont.

Patternon, Mirord Junction, Ont.
10 mos. and 1 ds. do. and 1.68 lbs. butter; 50.57 lbs. butter; 50.57 lbs. milk. Owned by H. L. Halby, Spring ford, Ont.

ford, Ont.

Bessie Spink's Last Beauty (5559) at 5

Fra, 8 mos. and 15 days of age, 10.06 lbs.

butter fat, equivalent to 20.08 lbs. butter,

50.68 lbs. milk. Owned by Chris. Edmond
sol. Brantford, Ont.

Brantford, Ont.

Says of age, 15.96 lbs. butter fat

equivalent to 19.96 lbs. butter; 507 lbs.

milk. Owned by W. P. Allison, Chester
ville, Ont.

yille, Ont.

Ida's Bessle (5519), at 11 yrs., 2 mos. and 7 days of age, 1540 lbs. butter fat, equivalent to 19.25 lbs. butter; 525.65 lbs. milt Osmed by W. H. Oherry, Garnet, Ont. Grace Wayne (547), at 8 yrs., 9 mos. and 24 days of age, 15.12 lbs. butter fat, and 24 days of age, 15.12 lbs. butter fat, with the could be suffered to 18.90 lbs. butter; 482 lbs. milt.

Thirty day test, at 8 yrs., 9 mos. and 24 days of age, 58.74 lbs. butter fat, equi-valent to 73.42 lbs. butter; 1972.4 lbs. milk. Owned by E. F. Osler, Bronte, Ont. Thirty day test,

Alberta (2851), at 10 yrs., 7 mos. and 24 days of age, 1458 lbs. butter fat, equivalent to 1849 lbs. butter 368.5 hs. milk. Owned by M. H. Haller, Springford, Ont. Neptune Ballnda (2656, Springford, Ont. Neptune Ballnda (2656, 1851, 1

bills. Owned by Fred Alboott, Harrietz ville, Ont. (91), at 8 yrs., 7 mos. and 24 librard (607), at 8 yrs., 7 mos. and 24 librard (607), at 8 yrs., 7 mos. and 24 librard (607), at 8 yrs., 8 mos., and 15 days of age, 13.75 lbs. butter fat, equivalent to I.718 lbs. butter, 74.8 mos., and 13 librard (648), at 6 yrs., 8 mos., and 13 librard (649), at 6 yrs., 8 mos., and 14 librard (649), at 6 yrs., 8 mos., and 15 librard (649), at 6 yrs., 8 mos., and 15 librard (649), at 6 yrs., 8 mos., and 17 days of age, 13.69 lbs. butter, 641.65 lbs. milk. Owned by Lakeview Fars. 19 yrs., 8 mos. and 17 days of age, 13.69 lbs. butter, 641.65 lbs. milk. Owned by A. H. Teeple, Curfield, Owned by A. H. Tee

lbs. milk. Owned by A. H. veepe, our-rie's, Ont.
Molley Shane (4614), at 12 yrs., and 14 days of age, 15.10 lbs. butter fat. equiva-lows to 16.28 lbs. butter: 309.3 lbs. milk. our to 16.38 lbs. butter: 309.3 lbs. milk. Artalist prof. Abott. Harrietsville, Ont. Artalist prof. 12 lbs. butter 322 lbs. volunt to 2015 lbs. butter 322 lbs. volunt (2015) lbs. butter 327 lbs. volunter fat, equivalent to 179.5 lbs. butter; yrs., 2 mos. and 5 days of age, 14.37 lbs. butter fat, equivalent to 179.5 lbs. butter; bright prof. br

butter 1376.6 lbs. milk

Bronic, Ont. Aaggie Cornelia Posch (7501), at 3 yrs., 8 mos. and 22 days of age, 17.31 lbs. butter fat, equivalent to 18.40 lbs. butter; Owned by M. L. Haby Graph, at 3 yrs. 11 mos., 18 days of age, 14.79 lbs. butter; Owned by M. L. Haby Tone, at 3 yrs. 11 mos., 18 days of age, 14.79 lbs. butter; 91.13 lbs. milk. Owned by Walburn Elivers. lbs. milk. Folden's, Ont

Belle Abbekerk Mechthilde (9479) at 3 rs., 9 mos. and 13 days of age, 13.45 lbs. utter fat, equivalent to 16.81 lbs. butter; 77.7 lbs. milk. Owned by M. H. Haley,

377.7 lbs. milk. Owned by M. H. Haley. Springord, Ont.
Princess Maggie Keyes (6615), at 3 yrs., 11 mos and 16 days of age, 13.43 lbs. butter fat, equivalent to 16.78 lbs. butter; 306.1 lbs. milk. Owned by George W. Anderson, Rossmore, Ont.

Rossmore, Ont.

Auggie of Riverside 2nd (7242), at 3 yrs,
7 mos. and 11 days of age, 12.74 lbs. butter fat, equivalent to 152 lbs. butter;
6 most of the fat of the

Rossnore, Ont.

Panny of Inkerman (6643), at 3 yrs., 8 mos. and 29 days of age, 10.66 lbs. but-ter fat, equivalent to 15.97 lbs. butter: 299 lbs. milk. Owned by Parnham Allison. Obesterville, or 12.97 lbs. but-ter fat, equivalent to 15.87 lbs. but-ter fat, equivalent to 15.88 lbs. butter: 50.22 days of age, 12.70 lbs. butter fat, quivalent to 15.88 lbs. butter; 50.22 lbs. milk. Owned by M. L. Haley, Spring-fort. Ont.

May Belle Pauline (11266), at 2 yrs., 9

ford. Ont.

May Belle Pauline (11286), at 2 yrs., 9
mos. of age, 12.52 lbs. butter fat, equivalent to 15.65 lbs. butter; 361.50 lbs. milk.
Owned by P. J. Salley, Lachine Rapids,

Owned by F. e. Que.

Lakeview Rattler (11364), at 2 yrs., 1 mo.

Lakeview Sof age, 12.39 lbs. butter fat,
and 2 days of age, 12.59 lbs. butter; 421 lbs
milk Owned by Lakeview Farm, Bronte,
milk Owned by Lakeview Farm, Bronte,

milk Owner by some the first property of the milk. Owned by deorge Rossmore, Ont. Cornelia Boutsje De Kol (9394) at 2 yrs., 9 mos. and 13 days of age, 12 19 lbs. but



ke Bickmor's Gall Cure for common horse diments. Dord common horse diments. The common horse diments and common horse discussion of the common horse discussion of the common discussion of the comm

Wingate Chemical Company, Ltd., 844 Notre Dame St. W., Montreal, Can.

ter fat. equivalent to 17.73 lbs. butter; 25.7 lbs. milk. Owned by Fred Ab 15.25 fbs. milk. Owned by Mark 15.25 fbs. milk. Owned by Mark 15.25 fbs. milk. Owned by Mark 15.25 fbs. milk. Owned by Farsham Allison. Chesterville, Ont. 15.25 fbs. milk. Owned by Mark 15.25 fbs. milk. Owned 15.

milk. Owned by M. L. Haley, Springford, Ont.
Maysie's Pietertie (10243), at 1 yr., 11 mos., and 25 days of age, 10.39 lbs. of butter fat, equivalent to 12.99 lbs. butter, at the control of the control of the control of the control of age, 10.15 lbs. butter fat, equivalent to 12.99 lbs. butter; 25.62 lbs. milk. Owned by M. H. Haley, Springford, Ont.
Neille Posch (1990), at 1 yr. 10 mos. 29 and 10.15 lbs. butter fat, equivalent to the control of the cont

Homestead Pereilla (9193) at 2 yrs. 5 mos. 5 days of age, 8.19 lbs. butter fat, equivalent to 10.23 lbs. butter; 281.1 lbs. milk. Owned by Cohoe Bros., New Durham, Ont.

G. W. CLEMONS.

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Le 823, tari Torquo \$22

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### GOSSIP

The foremost farmers of the country have discovered and provided themselves The foremost farmers of the country have discovered and provided themselves with the only sure, safe, quick remedy, Bohnores Gall Cure. Invaluable and con-Health and the safe of the control of the cont

John Campbell of Dalmeny, Ont., has John Campbell of Dalmeny, Ont., has billed his big dispersion sale for Tues day, April 19th, when he will sell 65 hea of Holstein and Ayrshire cattle. Alon with this sale is included a chestnut driv ing mare six years old, two hackney mare three years, one horse rising five years ing mare six years old, two hackney mares three years, one horse rising five years, one Oilyde colt, one rubber-tired bugg, one state seat bugg, one set single harmonic buggers of the seat of the se

The record book I received from Parm and Dairy as a premium for one new subscription has arrived. It is just fine. I am thankful for so many useful items and suggestions in Farm and Dairy. Every farmer should take it.—H. Lawrence, Huron Co., Ont.



THE time has come to order your binder twine for the 1910 harvest. Twine dealers are placing orders for their season's stock. The mills are running. Now is the time for you to decide the twine question. It is something that requires careful consideration. The success of your have vest will depend on the interrupted work of your binder, for no binder can work well if you use a It is our aim to have every farmer who uses I H C twine go through the 1910 harvest season without a break in the field. We have much more at stake than merely selling twine. Your interests and ours are the same.

and ours are the same.

And ours are the same.

We know that the raw materials from which I H C twines are spun have the quantity and quality to fine that insure greater strength than is found in any other twine. They are evenly spun—smooth perfect lying. By insure your being able to work your binder through the entire harvest season with Those who buy county and are therefore practical profit insurance.

will mean the loss of valuable time this will certainly have trouble—delays due to tangles, into and breaks There is a sure way to avoid this.

There is a sure way to avoid this. Let the experience of the past be your guide in purchasing your twine. The verdict of the majority of the farmer of this country is a safe guide. Their decision should have more problems confronting them that you have. They have no axe to grind. They do not sell twine. They are only interested in results.

## I H C Brand of Sisal—Standard Sisal Manila or Pure Manila

Are the twines used by the majority of the farmers of this country. They have been proved to give the best results. Eighty-five to 90 per cent of the farmers use Sisial. It is amooth running and works at steady tension really high grade Manila twines such as bear the 1 H trade-mark.

The majority of the farmers use Sisial. It is amooth running and works at steady tension really high grade Manila twines such as bear the 1 H trade-mark.

We are vitally interested in this successful operation of the probabilion. We have more at stake than selling twine. We are vitally interested in the successful operation of the careful study. When we say "Stick to Sisial operation of the careful study. When we say "Stick to Sisial or high grade Manila bearing the 1 H C trade-mark"—we do so because we know them to be the highest standard.

The statement of the successful with the successful with the statement of the successful with the successful with protection of the successful with the protection of the successful with the successful

CANADIAN BRANCHES—Brandon, Calgary, Edmonton, Himilton, London, Montreal, Ottawa, Regia:, Saskatoon, St. John, Wimipeg, Yoshton.





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## \* MARKET REVIEW AND FORECAST g.

Toronto, Monday. April 1th, 1916.—The heavy bookings of emigrata from British ports to Ganada, is not likely to have the general property of the property of t

There has been a \*barp decline in the price of wheat on the Chicago market since our last quotations, and May wheat is price of wheat on the Chicago market since our last quotations, and May wheat is statember at \$1.05%, and September 18 1.12%, and \$1.05%, and September 18 1.12%, and \$1.05%, and September 18 1.05%, and \$1.05%, and the price of the publication of the Wallings on Government's April rough the Wallings on the part of speculators. The European will be a certain amount of hesitancy on the part of speculators. The European will be a certain amount of hesitancy on the part of speculators. The European will be a certain amount of hesitancy on the part of speculators. The European will be a certain amount of hesitancy on the farmer of the men part of the work of the part of the pa

COARSE GRAINS

COARSE GRAINS
Grains remain steady in price, but the demand for all kinds is dull. Local dealers quote as follows: C. W. collows: C. W. co. 2, dic; No. 3, dec on track, lake ports; No. 2, white, Si; No. 3, dec on track, lake ports; No. 2, white, Si; No. 3, dec (outside): peac, 660; buckwheat, 500 to 51c; corn, America, dec a bushel; barley, No. 2, 65c; No. 3, dec to 47c, contaids.

outside.

On the farmers' market, oats are quoted at 4te to 45c; peas, 7fc; rye, 68c; buckwheat, 58c; barley, 56c a bush. In Montreal the market is also very quiet and wholesalers market is also very quiet and wholesalers and the second of according to quality.

HAY AND STRAW

HAY AND STRAW
It was fortunate for some farmers that
the mild weather the arrived early. In
their eagerness to take arrived early. In
their eagerness to take the their eagerness
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MILL FEEDS

MILL FEEDS

Local dealers quote Manitoba bran, \$22 to \$23, and shorts, \$24 a ton on track; On-tario bran, \$23 and shorts, \$24 and track, Toronto. In Montreal, Manitoba bran is Toronto. In Montreal, Manitoba bran is \$1 o \$25 a ton, in bags; shorts, \$25 to \$23 a ton, \$22 a ton in bags; shorts, \$23 a ton.

EGGS AND POULTRY

There have been heavy receipts of fresh eggs but owing to the high cost of meat prices have been maintained at a fairly good level—local dealers quote them at 20c a doz. in case lots. On the farmers' market from 24c to 25c is asked for new laid

eggs.
Similar conditions prevail in Montreal as
in Toronto. There are heavy receipts but
an active demand and prices are the same
as in Toronto, viz., 20c a dozen for strictly

new laid.

Quotations for poultry are purely nominal. On the farmers' market turkeys are quoted at 18c to 20: ducks, 15c to 16c; geese,

Seed prices have not materially varied from last week's quotations. Local dealers are selling choice red cloves. Local dealers are selling choice red cloves. See 16. See 16.

MAPLE SYRUP

The demand for maple syrup is steady at the wholesale prices reported last week, viz., \$1 to \$1.10 a gallon. In Montreal the price is unchanged, wholesalers purchas-ing at 6c to 6%c a lb.

DAIRY PRODUCTS

Prices still rule high in regard to butter, and will continue to do so until the creamand will continue to do so until the creaminterest of the continue to the continue to the continue of the continue o

POTATOES AND BEANS

POTATOES AND BEANS
There is not much variation in the
price of potatoes in the local market, as
supplies continue to be very heavy. The
outstanding feature, however, is the de
outstanding feature, however, is the de
outstanding feature, ductations generally
rule at &e to 60. Quotations generally
rule at &e to 60. Quotations generally
rule at &e to 61. The feature of the feature

Montreal prices show a slightly lower tendency. Green Mountains are quoted at 46 to 45% or bag on track Montreal Beans still continue high in price, being quoted at \$2 to \$21.0 a bushel for primes and \$2.15 to \$2.25 a bushel for three pound pickers. In Montreal primes are quoted at \$2. \$1.90 to \$1.92 a bushel and the demand is light.

HORSE MARKET

HORSE MARKET

There is a general enquiry for horses all over Canada and the United States, and the supply in most places has been found the supply in most places has been found the supply in most places have been also to the control of the contro

LIVE STOCK

LIVE STOCK

The price of live hogs looks as if it had reached high water mark and was receding slowly. This tendency has shown itself during the past week in both the United States and Canada. There has been a drop of at least 50e a cwt. in Biontreal, and in fact that the state and canada. There has been a drop of all least 50e a cwt. in Biontreal, and in fact and the latter slow to state the state of the

see ange are queue at even the cars at Torono.

Atthough hogs are somewhat lower in Atthough hogs are somewhat lower in price, the situation has not changed in the matter of cattle. Across the border especially, there is a feeling of widespread concern at the high cost of meat and parameters are somewhat all sorts of explanations of the pre-with all sorts and bounds, the number of cattle has acand bounds, the number of cattle has acand bounds, the number of cattle own serious decline in the raising of the raising own serious decline in the raising of the raising own serious decline in the raising of the rais

85.90; cows, 85 to 86; bulls, 84.59 to 85; canners, 81.59 to 82.50; calves, 84 to 87.59 a cwt. Stockers; Choice steers, 84.75 to 85; or dinary, 83.59 to 84. Milch cows: Choice, 845 to 859; medium, 85.50 to 80; springers, 840 to 855; or 80; o

PETERBORO HOG MARKET.

PETERBORO HOG MARKET.
Peterboro, Monday, April 1th.—Danish hogs delivered on the English markets last week totalled 30.00. The demand for bacon in the Old Country is very being down two shillings. The George Matthews Co. quote the following price for this week's shipments: f.o.b. country points, 89.15 a cet; weighed off cars, 85.65 a cet; delivered at abattoir, 89.25 a cet.

MONTREAL HOG MARKET

MONTREAL HOG MARKEL
Montreal, Saturday, April 9.—The market this week for live ignored market under the increased offerings and prices
have declined steadily by the beginning
of the week, the top price paid at the end
of the week being 819 a swel of selected
to sweighted off cars, a declined
to sweighted of cars, a declined
to do a cwt. since the beginning of the

week.

The market for dressed hogs was fairly firm, with a good trade passing, quotations ranging from \$14 to \$14.50 a cwt. for fresh-killed abattoir stock.

EXPORT BUTTER AND CHEESE

EXPORT BUTTER AND CHEESE
Montreal, Saturday, April sha-The nanket for butter has been firmly maintained
throughout the week with holders strong
and disposed to sell sparingly in anticipator still higher prices before the adtime of the still higher prices before the adtime of the still higher prices before the adtime of the largest dealers, all of whom
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the end of the still higher prices and the
that is is doubtful if the total exceeds 16.



RUN IT YOURSELF.
You can quickly learn to run
steam engines by studying
Young Bnaineer's Guide. Bave
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pages. Windoor, Ont.
O. Windoor Supply
C. Windoor, Ont.
"Engineer large
"Engineers"

## MOVING PICTURES OF DAN PATCH 1:55

ABSOLUTELY FREE POSTAGE PAID

If you are a Farmer, Stockman or Poultry Raiser and correctly answer, in your postal card or letter reply, the specified questions.

THIS IS THE LATEST SERSATION AND GREATEST TRIUMPH IN THE GREAT MOVING PICTURE ART. It is a New Investion that you can carry in your pocket and show your friends instantly, and the first successful moving picture ever taken of a World Champion Horse in his wenderful burst of speed. The original film contains

2400 INSTANTANEOUS PICTURES OF DAN PATCH

2400 INSTANTANEOUS PICTURES OF DAN PATCH
and every picture shows the King of all Horse Creation as plainty as if you stood on the track
and actually saw to a practical file one of his thrilling the property of the property

FARMER, STOCKMAN OR "ULTRY RAISER, AND CORRECTLY ANSWER THE THREE QUESTIONS.

YOU MUST ANSWER THESE 3 QUESTIONS IF YOU WANT THE MOVING PICTURES FREE

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Just 1 in what paper did you see my Moving Picture Offer ) 2nd. How many head each of Horses, Cattle, Sheep, Hogs and Poultry de

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### HOLSTEINS

## BULLS! BULLS! BULLS!

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

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

### SPECIAL OFFERING

Bull, 1 year old. Dam Jossie Bewunde Posch, R. of P., 15.349 lbs. milk. His full sister's record A. R. O., is 64% lbs. milk in 1 day, 15.65 lbs. butter in 7 days, 62.77 lbs. in 30 days. Price, \$110 for immediate

EDMUND LAIDLAW & SON

### SUNNYDALE

Offers g.eons of Pietertie Hengerveld Count De Kol, the champion bull of the breed, the only one that has two daugh-ters that have made officially over 32 lbs. butter in 7 days. Book your orders now for calves to be born February and March from good official record dams in our from goo Helena fa

A. D. FOSTER, Bloomfield, Ont.

### LAKEVIEW HOLSTEINS

Count Hengerveld Fayne De Kol headthe herd. His sire, Pieterrig Hengerveld Count De Kol, is the sire of the world's champion mileh cow, De Kol Creamelle, 19 days. Handle, 19 days. Handle, 19 days, And is the dam of Grace Fayne 2 days. His days days the dam of Grace Fayne 2 days, and is the dam of Grace Fayne 2 days, and is the dam of Grace Fayne 2 days. Homestead, the world's champion butter cow, over 35 lbs. butter in 7 days. Bull calters for sale.

E. F. OSLER, Bronte, Ont.

### GLENSPRINGS HOLSTEINS Several fine young bull calves from A. O. and B. 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 OOWS at a reasonable price. Speak quick. Price according to value as producers. (E-7-21-10 E. B. MALLORY, Frankford, Ont.

RIVERVIEW HERD

FOR SALE, 2 Bull Oalves, sired by Sir Angrie Heets Segis, son of King Segis, world's greatest by year old sire, dam Aag-gie Lily Pietertje Paul, champion Jr. 4 year old-29,56 lbs. butter 7 days. Dam of calves a 20 lb. 2 year old, and 23 lb. 4 year old. Price reasonable considering year old breeding.

P. J. SALLEY Lachine Rapids. Que.

THE SUMMER HILL HEAD OF HOLSTEINS

Is making some wonderful Records.
This year it has produced the champion
Canadian bred butter cow for 7 days reord, 2516 lbs., also the champion 2 year
old of Canada, for yearly production. We
have some younger ones that promise to
be just as good. We offer for quick sais
ten fine heffers, all in ealf to an imported buil.

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 E.T.F.

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 the kind we all want. They combine CONFORMATION;

PRODUCTION Bull and Heifer Calves for Sale from Our Winners

## LES CHENAUX FARMS"

Vaudreull, Que.

Dr. Harwood, Prop. D. Boden, Mg

## HOLSTEINS

FOR SALE.—Cornelia's Posch, five times lst prize bull at Toronto and London Fairs; also five of his sons, all from record of merit cows. Also females of all ages.

THOS. HARTLEY Downsview, Ont

## LYNDEN HOLSTEINS

Herd headed by Korndyke Teake No. 5809. FOR SALE.—I yearling bull, dam Lulu Glaser No. 5899, 12499-987 ibs. milk. 453,173 ibs. fat, 260 days, 3.70 per cent, fat. Also bull calves and females all ages. SAMUEL LEMON

E-4-21-10 Lynde

HILL-CREST HOLSTEINS HILL-CREST HOLSTEINS
Bull calves fit to head any head for sale. Sired by "Pontiac Harms" and "Sara Jewel Hengerveid's Solon and grand young cows, with good non-marked tests, and best of breeding. These calves are from one to two months old and will be delivered at your station. Also two young service bulls, one out of a 72 lbs. per day dam.

G. A. BRETHEN, Norwood, Ont.

### LYNDALE HOLSTEINS

We are now offering for sale a 15 mos old son of "Count D= Kol Pretertji Paul" out of a 20 lb. dam; also a son of Sara Hengeryeld Korndyke, from an 18 lb. cow. Both choice individuals, fit for service. BROWN BROS, LVM, ONT.

NORTH STAR HOLSTEINS FOR SALE Bulls ready for service, out of high testing A.R.O. dame, sired by Count Hengerweld De Kol, a son of Sara Jewel Hengerweld 3rd, the highest tested, (30.39), highest priced cow ever in Canada. Also a few females in calf to same bull. ETF

J. W. STEWART, Lyn, Ont.

### FOR SALE

No. 1.-512040. Dot's Sutlant (578) calved April 11, 1907. Sire, Victor Teake Posch, 366. Dom, Madam Dot's 3rd Princess Paulin Dot's Sutlant Control of the Survey of the S

NEIL SANGSTER,

HOLSTEIN BULLS for ser-

individuals from big producing co R. F. HICKS

Ontario

## AYRSHIRES

AYRSHIRE BULL CALVES

BARGAIN SALE FOR THIRTY DAYS, All right good ones, from one week to one mouth old, from Heoord of Perform one mouth old, from Heoord of Perform 54 lbs. and upwards as good giving 54 lbs. and upwards as represented. This is your chance at reduced prices. Also two year-ling bulls fit for service.

JAS. BEGG, Box 88, St. Thomas, Ont

## 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

Long distance phone.

## FOR SALE-AYRSHIRE BULLS

From one month to two years old; all bred from large, good-milking stock. Also Yorkshire pigs. Apply to DANIEL WATT OR TO HON. W. OWENS, Manager, Proprieto 8-5-19-10 Riverside Farm, Montebello, Que

#### BURNSIDE AYRSHIRES

HAVING disposed of my 1995 importation.

I intend leaving about March ist, for another lot. I expect to have a number of bulls through quarantine by first week of June. Orders entrusted to me will be carefully attended to. We have a few young bulls fit for service, on hand, of these breeding, and females of all ages. Best 18 of the carefully attended to. We have a few young bulls fit for service, on hand, of the product of the carefully attended to. We have a few young bulls for for service, on hand, of the product of the careful and th Burnside Stock Farm, Howick, Que

000 packages, and but a very small proportion of this is for saie, the bulk of the stock being retained for the requirements of the being retained for the requirements of the proposed of the various local dealers. Prices paid in the various local dealers. Prices paid the way from this week in the property of the property of the various lates of the property of the various lates of the property o

CRUMB'S IMPROVED WARRINER STANCHION



Prof. F. G. Helyar Mt. Herman School, Herman lan, Ma "We could not get along out Warriner Stanch-

Sond address for book-let of information to WALLACE B. CRUMB, Box D1, Forestville, Conn.

Dr. Bell's Veterinary Medical Wonder of inflammation of lungs, bowels The soth century wonder. Agents wanted county. Write for a free trial \$i bottle. This y good for 60 days. Limited to see health DR. BELL, V.S., Kingston, Ont.

## MISCELLANEOUS

TAMWORTH AND BERESHIRE SWINE.— Boars and sows for sale. J. W. Todd. Corinth, Ont. Maple Leaf Stock Farm.Etf

### 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 POULTY. HON. L. J. FORGET, Proprietor J. A. BIBEAU, Manag

Ste. Anne de Bellevue, Que,

#### STADACONA FARM Show a Record for 1909

AT Three Rivers, Quebee's Provincial Exhibition, at Sherbrooks, Canada's Great Esteries Roys, at Ottawa, the Dominton's General Fair, at Barton, Vermont, Ing. Castral Fair, at Barton, Ing. Castral Fair, at Castral Fair,

GUS. LANGELIER Stadacona Farm, Cap Rouge, Que.

### AYRSHIRES

Ayrshires 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.

## FOR SALE AYRSHIRE BULLS

One twelve months a winner in any company. Three August calves, all from imported sire and from rent paying dams. For full particulars apply to JAMES BODEN.

isaleigh Grange Farm, Danville, Que.

### CHERRY BANK STOCK FARM

CHERRY BANK STOCK FARM
FOR SALE—Buil calves, sired by Nethcrhail Mikman, the champion bail of
sired by Morton Maint or weeks old,
sired by Morton Maint or weeks old,
champion at Toronto, 1308, and by Nethethchampion at Toronto, 1308, and by Nethethchampion at Toronto, 1308, and by Nethethchampion at Toronto, 1308, and by Nethethsired by Nethsired by Nethsir

about in the cold storages in various parts of the country, and for which there is no demand. The market on the other side is very firm, with prices well maintained.

#### GOSSID

GLEN BUELL HOLSTEIN SALE

GLEN BUELL HOLSTEIN SALE

The dispersion sale of Holstein-Friesian cattle, one of the Control of Oakland Sir Maida, W. F. Elliott, Cole-

Sylvia De Kol Maida, W. F. Elliott, Cole man, Ont.... Inka Sivia De Kol, W. F. Elliott, Cole Inka De Kol, Posch Beets, Dr. Har-wood, Montreal, Que..... Rhoda De Kol, C. J. Gilroy, Glen Buell, Ont... Her calf, A. C. Hardy, Brockville, Ont... Ottile De Kol, C. J. Gilroy, Glen Buell, Her bull calf, J. A. Humphreys, Lansdowne, Ont.... Clintonia Gesche Segis, W. F. Elliott, Clintonia Gescho Segis, W. F. Elliott, Coleman, Ont. Clintonia Hartog De Kol Srd, J. A. Cas-key, Madoc, Ont. Ronney Belle 2nd, Dr. Harwood, Montre-al, Que. Lettie 2nd, W. C. Stevens, Philipsville, Ont. 320 Florence's Hengerveld, consigned by J Stewart Korndyke De Kol Hengerveld, consigned 150

Korndyke De Kol Hengerveld, consigned by J. Stewart, Brown Bros.
Countess De Kol Sand, C. J. Gilroy, Glen Buell, Ont.
Pauline De Kol, Bergsma, G. M. McGregor, Hammond, N. Young, C. Hongond, C. Hongo lutinal Friend Eric. Ont. Eric erifer calf, Sam Hollingsworth, 100 Her neiter can, Athens, Ont.... Athens, Ont.... Nancy Lee De Kol, Sam Hollingsworth, Sally Marling, Thomas Davidson, Spring Lyn, Ont. 100
Inka Sylvia 5th Frontier, A. C. Hardy,
Brockville, Ont. 185
Coral De Kol Frontier, Dr. Harwood,
Montreal. 259
Posch Beets Maida, Dr. Harwood, Mon-

I am enclosing \$1 for my renewal to Farm and Dairy for another year. Farm and Dairy is just splendid.—G. A. Easton, Nipissing District, Ontario.

## Per Cent.

of the purchasers at the dispersion sale of Mr. J. A. Caskey of Madoc, on March 25th, are subscribers and readers of Farm and Dairy. This sale was advertised in Farm and Dairy. It pays to advertise in Farm and Dairy.

Over Fifty

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## OUR FARMERS' CLUB

#### QUEBEC

SHERBROOKE CO., QUE.

SHERRROOKE CO. QUE.

SHERRROOKE CO. QUE.

LENNOXVILLE—Many farmers sold off
part of their stock, including cows, last
full on account of the serious shortage in
special country of the serious special
special code very popular here. Perpage of cattle of all kinds for the present
pear. The Government cow testing scheme
types, the serious special special
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page of them so strongly. The situpage of them so strongly. The situshape on them so strongly. The situshape on them so strongly. The situshape of them so strongly in the situation of the situation of the situation

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RICHMOND CO., QUE.

RICHMOND CO., QUE.

DANVILLE—A great many more cattle we see that usual. The farmers took advantage man the programmer and the programmer and advantage paid for beef, pork and mittel plant prought from 6to 7c; pork 12c. Beef through from 6to 7c; pork 12c. Beef treesed; new milch cows, 850 to 850 and farrow cows, 830 to 855; butter, 25c. The row cows, 830 to 855; butter, 25c. The great point of the programmer and dozen.—M. D. B. and dozen.—M. And dozen.—M. D. B. and dozen.—M. D. B. and dozen.—M. And dozen.

COMPTON CO., QUE.

COMPTON CO., QUE.

COMPTON CENTRE—Dairying is carried on quite attensively, most of the larger farmers keeping from 10 to 30 cows. A lot of the grass was killed to 11 cows. A lot of the grass was killed the same farmers from the company spring, and it will be a great help the farmers fit its, as that will help the farmers fit its, as that will help the farmers fit its.

### ONTARIO

GLENGARRY CO., ONT.

GLINGARRY CO., ONT.

ST. EIMO.—If the present early spring conditions prevail, there will are a bundant supply of cattle feed. There has been been so code over of snow during the press are being pay for milk cower from the property of the pressure of the

HASTINGS CO., ONT.

SIDNEY GROSSING.—Pastures awe wintered well and have begun to look fine, eren low spots are green and nice, clover is Ai. Frost is all out of the ground and farmers are plowing. Some are seeding on light land, and if the present weather continues overone will be and the seeding on the seeding of the seedi are seeding on light land, and if the present weather continues everyone will be at it soon. Timothy hay sells for \$15 a ton; straw, \$7; oats, 40c.; barley, 60c.; peas, 90c.; bran, \$23 a ton.—J. K.

HALIBURTON CO., ONT.

HALIBURTON CO., ONT.

KINMOUNT.—Three weeks ago there was three feet of anow on the level, with cold, sero weather. Now there is none. The reads are dry. Cattle have come through and private and pri

NORTHUMBERLAND CO., ONT.

NORTHUMBERLAND CO., ONT.

WOOLER.—Pall grain and clover look
very promising rare rolling
meadows and picking ma a few atoms. Some
are beginning to plow fa a few atoms. Some
are beginning to plow far a few atoms. Some
are favorable. We ought to have odditions
are favorable. We ought to have odditions
are favorable. We ought to have of extra
chores done during this summer, which
have been crowded out from year to year
by recent backward springs.—E. T.

WELLAND CO., ONT.

cows kept until a larger and more permanent market is secured. There are indications that farmers are realising that they have got to make their cattle bring larger returns. And while the majority which will give the permanent of the majority larger returns. And while the summarked of the majority of the summarked of the summarke

WENTWORTH CO., ONT.

WENTWORTH CO, ONT.

THOY.—Syrup making is over, and the farmers are started in seeding. Most of the ground is in fine shape. Wheat looks very well; most of the clover came through the winter O.K. Feed is scarce in some places, but with the early spring, we will likely have early pasture. Hogs sold for \$375 last week, O.H. Reg sold for \$375 last

BRANT CO., ONT.

BRANT CO., ONT.

FALKLAND.—Shorthorns, or Shorthorn grades, are the most common here. A few farmers have cown with some blood of the farmer have been considered by the farme

WELLINGTON CO., ONT.

WELLINGTON CO., ONT.

MRTZ.—Some farmers on early land have
commenced seeding. The fail wheat is
looking very ended to be seed to be

WATERLOO CO., ONT.

WATERLOO CO., ONT.

WATERLOO—Good cowp are hard to find and are high in price. As a rule, we practise mixed farming a clither make butter on the farm or sell milk and cream to the towns and cities. There is a creamery operated in St. Jacoba—C. H. S. OXFORD CO., ONT.

OXFORD CO., ONT.

GOLSPIE—Feed is plentiful in this section; unite a few are selling hay but I think it a better plan to feed it on the farm, as were get too much manure. A few of our dairymen separate their milk at home and send the cream to the creamery. It all goes to the Beachville creamery. It all goes to the Beachville creamery—A. M.

NORFOLK CO., ONT.

SOUTH WALSINGHAM—Beef cattle are very searce. Farmers are busy trimming their apple trees. Apples are selling at 56. a bug. Farmers will feed stock regular rations for a month or six weeks longer. A great many horses have the heaves, but all seem to survive. Some farmers call it Horse Asthm.—B. B.

Horse Asthma.—B. B.
WHITE OAK.—Mr. James McDongall, a practical farmer in Middlesse Co., while discussing dairy matters with your correspondent, add: "For three presentations we have been trying to improve the milk-ing expacity of our cown. Agrand-father started with a bunch by grand-father started with a bunch by alther improved these, as time went by Asthonyour Corone year, by weeding out the populous, and replacing them by heifers from the best cows, that were also carefully have been crowded out from year to year by recent backward springs—E. T.
WELLAND CO., ONT.

SIONE QUARET.—While it seems to be the general opinion here that the dair year own is the greatest source of revenue, which is red. I have brought our present herd in the farm, it is not likely that there will be any great increase in the number of manage and quickly respond to extra

IVE HOGS

We are buyers each week of Live Hogs at market prices 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

\$9.25 a Cwt. OR HOGE WEIGHING 180 TO 220 LBS.

THE GEO. MATTHEWS CO., LIMITED

PETERBOROUGH, - HULL, BRANTFORD

care. We have also had a Polled Angus cow for 10 years, and are surprised at her considerable, we had always considerable and the property of the property of

LAMBTON CO., ONT.

WYOMING.-Since 1271, until nine years ago, about three-fiths of the county was ago, about three-fiths of the county was ago, about three-fiths of the county became well settled the county became well settled to the county of the c

BRUCE CO., ONT.

BRUCE CO., ONT.

HEPWORTH.-We are having one of the carliest aprings for a number of years. A few carliest aprings for a proper of years. A few carliest aprings for a proper of years. A few carliest aprings for working. Some grain is sown abuse for years and the sown as the sound of the sound

MANITOBA. MARQUETTE CO., MAN.

MARQUETTE CO, MAN.
KELLOE—The reather has been springlike since the first water has been working on the land for the last
two weeks (date of writing, April 4th). We
have had thunder and lightning and plenty of rain recently. Considerable wheat
you have had thunder and lightning and plenty of rain recently. Considerable wheat
all through. Prices for mile cown and
horses are particularly good, cown celling
at \$90 to \$80, a piece, and ordinary sound
general purpose horses at \$250 and \$500
general purpose horses at \$250 and \$250
general purpose horses at \$250 and \$250
general purpose h

PEEL FARMERS RECEIVE THEIR

PRIZES.

The prizes won in district No. 2 by residents of Peel county, in Farm and Dalry's recent dairy farms competition, were precent dairy farms competition, were precent dairy farms competition, were precent on the evening of March at Churchville on the evening of March county of the Parmers' Club and proved most successful. Mr. L. J. O. Bull of Brampton activities of the province that won three prizes last year in this competition.

Son of Churchville was presented by J. D. McGregor of Halton. The programme included recitations by P. Brown of Mendowvale and songs by M.J. Brown and the programme had been completed, see a programme for the mentow of the

WELL DRILLING PAYS-An ordinary mechanic can easily and successfully op-erate any one of the well-drilling ma-chines manufactured by Williams Bros. chines manufactured by Williams Bros. Ithaca, N. Y. These machines are the acknowledged standard-the finest and best made. Over 70 sizes and styles, each sumple, strong, compact and durable, especially adapted for rapid and successful drilling of either deep or shallow wells drilling of either deep or shallow wells in every kind of soil or rock, Well-drill. In grays big profits—small capital required. Williams Bros. machines are quired. Williams Bros. in thaca, N. Y. eatalogue. Williams Bros., Ithaca, N. Y. eatalogue.

## NORTHERN ONTARIO

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 report output of Silver in 1968 was taken frontario 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 accessible through the construction of Railways and Colonization Roads.

THE FERTILITY OF THE SOIL IS UNSURPASSED

The Timber is in demand at a rising price. Mining Railway and Colonization Road Construction, Lumbering, etc., afford work abundance to those who have not the Sundance remain on their farms continually. The also provide a market for farm produce at prices unequalled anywhere duce at prices unequalled anywhere. Cochrane, the Terminus of the T. & N. O. Ry., on the G.T.P. Transcontinental Railway, now under construction, is in the same latitude as the southern part of Manitoba, and 800 miles nearer the seaboard.

scaboard.

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 Colonization Rates to Settlers and for Settlers' Effects, write to:

D. SUTHERLAND The Director of Colonization PARLIAMENT BUILDINGS, TORONTO

HON. J. S. DUFF

This Beaver Gang will Reduce Your Plowing Expenses 40c. on Every Dollar Plows Better-Quicker-Easier

HY use two ordinary walking plows, pay two skilled men and keep four horses working hard, when there's a better way?

Simply hire any lad who can drive, hitch up three horses to this Beaver Gang and tell the boy to go ahead.

He needn't be an expert—the plow is so simple and easy to merate.

And this dang plow will make the ter farrows, plow quaker and save you net ly haf your plowing expenses, than if you use two ordinary walking plows. Read



Beaver Gang

wide or narrow work.

Our new lifting spring for furrow wheel makes it possible to raise the manual property of the property o

## This Plow Draws as Light as an Ordinary Walking Plow

This Beaver Sulky has all the features of the Beaver Gang. The beam for carrying the plow is made of extra heavy high carbon steel, making it a perfect plow for hard work. The wheels are absolutely dust proof, are always under the control of the driver, and are so arranged that the plow will automatically adjust itself to the



Beaver Sulky.

## Does Better Work Ensures Rest for Driver

unevenness of the ground. The land wheel is extra large—a great advantage in operating the plow. The plow can be easily raised by means of our new lever and spring lift and bottoms can be supplied to suit any soil. This is without question the lightest draft sulky plow made and we know it will give full satisfaction under all conditions.

Great Plant where above Plows are made.



Our Agent will gladly show you these Plows.

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A CATALOGUE of Cockshutt implements will show you at a glance, the best and latest there is in farming tools. It will show you how to farm right—farm profitably—how to get the most out of your land at the least cost —how to get it better and easier,

From plowing time to harvest there is a Cockshutt implement for your every need. And when you buy an implement bearing the "Cockshutt" name you can depend upon it that the materials are the best, the workmanship perfect and the price reasonable.

periect and the price reasonable.

We make plows, harrows, drills, cultivators, etc., etc., suitable for all conditions—and we urge every farmer—from the We make plows, harrows drills, cultivators, etc., etc., suitable for all conditions—and we urge every farmer—from the man who has only a few acres to the one who can count his acres by the thousands—to write for our Catalogue plant at Brautford. A postcard will bring our Catalogue to you by return mail.