FARM AND DAIRY RURAL HOME

Ceterboro, Ont., Mar. 25, 1915



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= Dairy Production will be 1915

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OUT APRIL 8th

will introduce this great Production Year. The great stimulus given to agriculture will necessitate a wider equipment for our big dairy farmers. Dairymen realize this. They need the best you can produce.

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AS MANUFACTURERS, IT'S YOUR PART OF CANADIAN PROSPERITY to provide these—Machinery, fences, fertilizers, building materials, separators, gasoline engines—everything for the modern farms.

LIST YOUR LINE in our big Dairy Annual of April 8th. Write-us about the space you will need. Do it NOW.

Advertising Department

FARM AND DAIRY

PETERBORO, ONT.

The Feeding of Countess Carrie Mercedes

And Some General Notes on Feeding, by Mr. Samuel Lemon, Lynden, Ont.

O CUNTESS Carrie Mercedes calved on January 21st, 1915. On the milk fever, and was given the oxygeogas treatment. She recovered nicely, and we started her on her yearly work on the 23rd. I believe that if a cow has milk fever and is taken in time and comes around all right, that she will do better work afterwards than a compart of the compart of the

OUNTESS Carrie Mercedes calv- if they will take it. Our heifers are ed on January 21st, 1915. On the nearly as large as cows when they are 22nd she was taken down with the series of the series of the was taken down with the fever, and was given the oxygen freshen when they see two years to treatment. She recovered nicely, two years and three months old. We we started her on her yearly work always try to milk them a full year he 35nd. I believe that if a cow

Influencing Sex of Calves

"Bull" luck is a variety of luck practically every breeder of varue bred cattle wishes to avoid, hence the widecattle wishes to avoid, hence the widecontrol. Writing in a recent issue of the New England Homestcad, Dr., Raymond Pearl, of the Maine Experiment Station, tells of some investigations into sex control in his state as follows:

as follows:
"One of the primary purposes for
"One of the primary purposes for
which the cooperative cattle breeding
record plan was undertaken in Maine
was to get comprehensive statistics to
show whether any definite effect on
the proportion of male and female
calves born could be observed whee
service occurred at different times in



She is One of the Few With 20,000 Pounds to Her Credit.

Countess Carrie Mercedos (No. 5150), owned by S. Lemon & Son, Lynden, Ont., made per great record of 20,120 Hos of milk in one year when she was nine years old Have you a cow that will do as well with the same feed? What that feed consisted of its told in detail by Mr. Lemon in an article adjoining.

price as the chop. She was fed 40 to 45 pounds of ensulage a day and 50 pounds of feeding sugar beets and what hay she would clean up nicely.

She was fed in this maneet until she went to grass. Then she received mostly rolled oats and bran. She cid not seem to care for the other levels them. She got about 18 pounds of meal a day, that being all she would clean up nicely. If she would cat any hay we gave it to her until we had green corn big enough to cut, when she was given an armful twice a day. As soon as we fill the silos we

when she was given an armful twice a day. As soon as we fill the silos we start feeding it.

She was in better condition when she finished than she was when she started. She was milked three times a day for the full year. If we are the calves three times, starting, them with 14 or 15 pounds a day, and when they are one month old they get about 18 pounds a day. At eight weeks we start to give skim milk, and in two weeks more they are getting all skim milk, being fed unly swice a day. We never give any gruel of any kind in the milk.

the milk. When they are three or four weeks old we start to vive them a handful of meal, bran and roled eats and a little oil cake; also a handful of ensilage and gome clover hay or slfalla as soon as they will eat it. We sell cream, so have lots of skim milk for the calves, and grive it to them until they are not and one-half years old.

the hear period. Work at the station some years ago indicated that when service occurred very early in the heat there was likely to be born a larger proportion of heifer calves, and when service occurred very late in heat there was likely to be born a larger

proportion of heifer calves, and whes service occurred very late in heat there was likely to be born a larger proportion of bull calves.

Early Service Fer Fernals Caves "The results we hab've secured to date have been very gratifying. Exact records show that when service was given early in heat, there resulted 26 heifer -calves, as against 180 bull calves. On the other hand, when service was late in heat, there were 52 heifer calves and 97 bull calves. When the service was 181 middle of heat, the difference was no middle of heat, the difference was not so pronounced, as shown by 60 heifer calves and 70 bull salves and 70 bull calves.

"From this work it seems clear that there is a very striking difference is the result according to whether service is early or late in heat. The difference is already beyond the bounds of probability of accidental occurrence. It is proposed, however, to continue the cooperative breeding record scheme for two or three, or possibly more, years until a sufficiently large number of records have accumulated to make the conclusion beyond doubt."

It is well to plan your work before you do it, but some folks have a habit of planning so long that they never



We Welcome

Vol. XXXIV

Methods Th

THERE is sca the Dominion the straining poin farmer in the ing to the limi farmer is not ask crease his output, us will do a little to much in the ags 1,000,000 farmers in probably 100,000,000 each one of us w bushel more grain of a ton more hay few more bushels thousand pounds m what it would mean fit the Mother Cou materially.

It pays to do, our each year. The m hoed crop well, and of the rotation, is this farm into such a not avoid getting he ceeding years. If w crop this year we grain crop on the sai If we seed the grain have a good hay crop all through the rota and the rota all through the rota all through the rota and the rota and the rota and the rota all through the rota and the ro

all through the rotal Spread Man If we hayen't done wards the crops of ne to get bus manure this we leaves the manure in making a mistake, in the barnyard is m The best rule is to ou sod it will start the spring. This go over the manure is the spring. This go and a shallow wand rolled at once to an or the spring.

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Trade increases the wealth and glory of a country; but its real strength and stamina are to be looked for among the cultivators of the land -Lord Chatham.

Vol. XXXIV FOR THE WEEK ENDING MARCH 25, 1915

No. 12

Greater Production from Canadian Farms

Methods That Will Increase Crop Yields Described by Canada's Foremost Farmer, Mr. J. H. Grisdale

THERE is scarcely a farmer in the Dominion who is working to the straining point. There is not a farmer in the Dominion producing to the limit. Each Canadian farmer is not asked to greatly increase his output, but if each one of us will do a little bit it will amount to much in the aggregate. There are 1,000,000 farmers in Canada farming probably 100,000,000 acres of land. If each one of us would produce one bushel more grain per acre, a quarter of a ton more hay from the acre, a few more bushels of potatoes, a few thousand pounds more of milk, think what it would mean. It would benefit the Mother Country and help us materially.

It pays to do our best on each crop each year. The man who grows the heed crop well, and it is the key crop of the rotation, is the man who gets his farm into such shape that he cannot avoid getting heavy crops in succeeding years. If we have a good boe crop this year we will have a good grain crop on the same land next year. If we seed the grain to grass we will have a good hay crop the third year. A good hoe crop ensures good crops all through the rotation.

Spread Manure Now

If we haven't done anything yet towards the crops of next season, now is the time to get busy and apply the

manure this winter. The man who leaves the manure in small piles in the field is making a mistake. He who leaves the manure in the barnyard is making a still greater mistake. The best rule is to spread it directly. If spread on sod it will start the grass to rapid growth in the spring. This growth may then be turned over with a shallow furrow, four to five inches, and rolled at once to secure rapid decomposition.

On average land spring plowing is to be preferred for the corn crop, and I would always put corn on sod land. Don't follow corn on grain stable. It the grain has been seeded on sod land, fertility has been satted. Sod land contains so much vegetable matter that, with manure added, we can't avoid getting a good crop of corn. But with grain the growth goes largely to straw. On very heavy land, on the other hand, fall plowing will give good results.

I would emphasize the importuce of rolling at once on spring plowing. By this I do not mean rolling as soon as we have plowed a 16-acre



Good Plowing is the First Step to Greater Production.

Farmers of York Oo, Ont., where this illustration was scenred, have a provincial ground of the second of the second

field. Stop plowing each day at four o'clock and roll the land turned that day. This will ensure rapid decomposition of the vegetable matter, which will give a large amount of readily available plant food to start off the come crop. This rapid decomposition, too, generates heat, and we have, as it were, a hotbed, or its partial equivalent, under the corn. I would use the disc harrow immediately after rolling to prevent evaporation.

Tith That Satisfies

When the land is plowed, rolled and harrowed, work for ideal tith. Do not cease efforts until the land is so thoroughly prepared that no one could take exception to it. Be your own most severe critic. If necessary, roll again and disc until the land is so mellow that the horse does not sink more with one foot than the other all the way down the field.

I do not hold a brief for any company, but I must say a good word for a comparatively new implement, the double disc harrow. It will enable us to prepare land for at least half the cost

as compared with the single disk. We tried this implement out on three different fields at Ottawa. On one we used the large disk and the cost of working an acre was 90 cts. On another we used the small disk harrow, and the cost was 70 cts. On the third field we used the double disk harrow, and the cost was 46 cts. an acre. Three or four horses are needed to pull this implement. Two cannot handle it. This is a point to which we need to pay more attention. Instead of having a man to a team of two horses, let us have one man to four horses and apply labor on this principle to all farm operations so far as possible. The final implement to use in preparing the seed, bed for corn is the spiked tooth harrow. If getting a new harrow this year, get a tilting tooth harrow.

The Seed and Seeding

In the actual planting operation we have found that three feet a,part in hills, or in drills three and one-half feet apart, is a good planting distance. Get till seed corn on the cob and keep it on the cob until ready to use it. The extensive com grower may need to shell earlier, but the average farmer, growing corn for ensitage, can shell all the seed that he will need in two or three hours. I would cut both ends off of an ear to get rid of the yubbin corn; it is of

low germinating power and every miss in the corn field means a loss. We want to have every hill growing three or four stalks and have every square yard of space working. Sow as soon as the land is ready and keep in the best condition.

We can't prevent too much rain from coming, nor can we ensure a sufficient quantity of moisture from the sky, but so far as possible we should conserve the moisture that we have in the soil. In no season do we get enough moisture in the form of rain to raise a good crop. The effect of moisture conservation Las been demonstrated wonderfully on our prairies, where good crop, have been raised with practically no rain. We in the east are now becoming more and more scized of the wisdom of moisture conservation. We lose moisture by improper handling of the soil when working in the spring and by evaporation throughout the season.

Warm Soil by Harrowing

As the corn is coming up I would go over the field with a slant toth harrow. This harrowing

kills millions of germinating weed seeds, but its principal value is to warm the soil. Here again we have an experiment to report. One portion of a field at Ottawa was harrowed; another was not. One day later the temperature of the soil in the harrowed field was 10 degrees higher than where the harrows had not been used. The explanation is that where a dust mulch has not been created by harrowing, the moisture comes to the surface by capillary action, and is evaporated. Much heat is necessary to change the liquid to gas, hence the soil is cooled. With corn we must remember that it is not a native of this country, and heat is an important element in its success. When the corn is up harrow it again, and when the rows can be seen clearly, start the cultivator and keep it going until you can't see the horse in the field.

It is good practice in the fall to disk the corn field and then turn the rows of corn stubble out with the plow, exposing the roots to the weather Of course, a shallow furrow would be cut under the stubble. In the spring, when the land is worked up for grain, the corn stubble will not be found to interfere seriously with the planting of the grain crop, and we have had no trouble from having it mixed with the straw at harvest. The same principles apply in preparing the soil for grain as for corn. Work it up until you have a fine, mellow seed bed. We use banner oats, as

we have found that from this variety we get from five to 10 bushels more per acre than from any other variety we have tried. We use nothing but good seed.

We sow grass seed at the same time as we sow the grain, and we always sow grass seed with grain. No man should attempt to grow two crops of grain in succession. After corn, land is in the best shape for grain, and after one crop of grain it is in the best shape for *

a disputed point. I

am convinced most farmers use too little. On our demonstration farms throughout Canada we agreed to pay the farmers for the extra quantities of seed they were to use on our recommendation. The results in favor of the heavier seeding were so extraordinary that these farmers themselves have taken to sowing an extra amount of seed, and their neighbors are following their exemple. At Ottawa we have been experimenting with the heavier seeding for 25 years. We would recommend seeding under Ottawa conditions eight to 10 pounds of timothy, six to eight pounds of red clover, two to three pounds of alsike, and five to six pounds of alfalfa per acre; about 25 pounds altogether. The resultant increase will much more than pay the extra cost of seeding. If we spend \$1.50 for extra seed, I am confident that the extra crop will be worth \$5 or more. On low bottom land I would not add alfalfa, but under other conditions I heartily recommend the alfalfa seeding. The results the first year may not be great, but the next time seeding comes around the alfalfa will make a good growth. At Ottawa our hay crop from this seeding is worth \$3 to \$5 more per ton for feed than hay from straight timothy and red clover with smaller quantities

of manure to an acre is good that 25 tons is that much better. Moderate applications frequently applied are preferable to heavy applications at long intervals. Our plan at Ottawa is 12 to 15 tons per acre every three years.

[Note.—This article is a synopsis of an address by Mr. Grisdale at a recent Patriotism and Production Conference in Peterboro, Ont.]

The Beef Cattle Outlook* John Gardhouse, York Co., Ont.

HE world over, there has been a great shortage of good beef cattle. In the last eight years the supply on the primary markets of the United States has decreased by one and one-half million head. Then consider the effect of the war. In Europe many of the breeding herds may have to be slaughtered. This will tend to still further accentuate the beef cattle famine.

What of the home situation? I find that in Canada in the last 11 months, registrations have increased some 26 or 27 per cent. Breeders are paying more attention to producing good purebred cattle. They are safe in so doing. Population here is likely to increase very rapidly with the conclusion of war.



"Sap's Runnin'" and the Pure Syrup Will Find a Fair Market. grass.

This seene will recall pleasant memories to thousands. It is the sap boill for quantity of the space and his two sons, Norman and Barus, in Peterboro Co. grass seed to use is surface to the space of the sp

Market conditions at present are not very satisfactory. The outbreak of war, the widely prevailing financial stringency, the dry season, the high prices of feed, and the United States embargo which lasted for a time, have all contributed to a chaotic state of the market. The high price of feed in particular has been responsible for the rushing to market of many immature, unfinished cattle. The same factor has accounted for the marketing of breeding cattle as well as market cattle. It is a pity if this should take place on an extensive scale. Farmers will be wise not to sacrifice now the stock that will be of great benefit to them later on. The population of Canada and United States in 50 years will be enormous. This will mean a great demand for beef of all kinds.

It is an important thing in periods of national stress to shoulder a gun and go to the Front It is equally important that those of us who are left behind should put our shoulder to the wheel and produce all the food we can. To the pure-bred breeder I would say, Ontario should be the breeding ground for the rest of Canada. We are the oldest province, the herds *Synopsis of an address at the Guelph Winter Fair.

of seed used; enough to pay for the extra seed. are established. We should be able to produce A final word. Don't think that because 10 tons all the good breeding stock the other provinces require

The Scales and Babcock Test James P. Jeffrey, Carleton Co., Ont.

HAVE just finished my first year of weighing the milk from my herd. I am so well satisfied with the results that I would like to see more people trying it out. Why should not Farm and Dairy advocate the weighing of milk more extensively.

My herd is a very ordinary one, having one cow that produced 8,240 pounds of milk on very ordinary feed in 10 months. The cow that I consider the best grade in the herd produced 8,000 pounds of milk in seven months and a half. Then I have another cow which I considered a good one that freshened and was bred again about the same time as my 8,000 pound cow, By feeding them on the same feed they had an equal chance to prove their good qualities. The scales, however, showed the latter cow to be the meanest one in the bunch, only producing 5,660 pounds of milk, which at the average price per hundred from the cheese factory last season would make a difference between the two of-well, the price of an ordinary cow ten years ago

I intend giving some of my cows a year's test feeding them better, and will watch the result shown by Mr. Scales at the end of the year. I think the scales and Babcock test are the only ways in which to prove a cow's worth.

When Should the Heifer Freshen?

T one time it was generally believed that the miking qualities of a heifer were strengthened by having her freshen at an early age. Of late years this theory has been questioned by practical dairymen. While travelling through the Belleville district, a representative of Farm and Dairy found considerable difference in the practice of various breeders in this regard.

The majority of men interviewed disliked having their heifers freshen until they were about 30 months of age. Among these were Mr. E. B. Mallory, whose herd of fine large cows proves that the heifers were not robbed of their growth. Mr. H. K. Denyes and Mr. Eagleson, Mr. Wm. Stewart and Mr. Alex. Hume, the well-known Ayrshire breeders, do not object to their cows reaching the age of three years before freshening. In their opinion the milking qualities are not impaired and the size is benefited. On the other hand, Mr. Nelson has his heifers freshen at about two years, and does not find any ill effects from early breeding. Of course, his calves are brought along rapidly. Mr. Wm. Honey also has his heifers freshen at an early age. It may reduce the size a little, but not the productive ability, he maintains.

Mr. A. D. Foster, of Prince Edward county. is opposed to the practice of early breeding. There is more immediate money in having the heifer drop her calf when two years old than in allowing it to come in six raonths later. But there is no doubt the former system interferes with growth. Mr. Foster's neighbors, Mr. Ed. Purtelle and Mr. Ben Leavens, differ in their methods, the former seeing no ill effect from early breeding.

Large, strong cows are being developed under both methods. But it would appear that the tendency is towards later breeding. The treatment of the calf and the size at time of breeding is of as much importance as the age.

The most successful farmers are those who keep their sons and daughters on the farm and give them all an interest in the farm, a partnership interest, if you please.-Dr. G. C. Creelman, O.A.C., Guelph.



HE splendie College, Q cattle by Prof. F revealed to the shire Cattle Bre sion of a recent following the an held at Montreal the stock judgin an hour Prof. B: the herd brough tion. The herd i comprises some 35 Holsteins, as of milking Shorth Canadian cattle. In his remarks

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Prof. Bart As regards the h stated that his ain average 10,000 pou a calf each year. ing the goal, for I Ayrshire cows and aged 9,395 pounds average test of 3. butter fat. The hig Prof. Barton first

ants lead in the he side Lucky Cavalie a noted prize winner ring as a youngste ed into a bull of gra He has retained his and dairy type. M announced that the bull had completed days before of only less than 17,000 pour The sire of this bu pion at the Chicago looked just about fit He is three years of to produce

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The Stables at Macdonald Are Fire Proof. In Front is the Circular Judging Pavilion. Storage Barns in the Rear.

Breeding at Macdonald Cattle

HE splendid work being done at Macdonald College, Quebec, in the breeding of dairy cattle by Prof. H. Barton and his assistants was revealed to the members of the Canadian Ayrshire Cattle Breeders' Association on the occasion of a recent visit to the college on the day following the annual meeting of the association held at Montreal. The members were taken to the stock judging room, where for upwards of an hour Prof. Barton had animals belonging to

the herd brought out for inspection. The herd is a large one. It comprises some 65 Ayrshires and 35 Holsteins, as well as a number of milking Shorthorns and French-Canadian cattle.

In his remarks to the visiting cattle breeders, Prof. Barton em phasized the point that no attempt was made at the college to obtain large records. The breeding of the animals for constitutional vigor is considered even more important. Nevertheless, every animal in the herd is expected to reach a standard of production which should

ensure a good margin of profit above the cost of feed. Heifers, more particularly Ayrshires, are not bred too young, and cows are allowed a reasonable rest between milking periods. The record of the herd of 65 milking animals of all ages, including Ayrshires, Holsteins, French-Canadians, and milking Shorthorns, for a tenmonth milking period is 8,673 pounds, testing 3.6 per cent.

Prof. Barton's Ideal Production

As regards the herd of Ayrshires, Prof. Barton . stated that his aim is to obtain a herd that will average 10,000 pounds of milk a year and drop

a calf each year. They are reaching the goal, for last year the 30 Ayrshire cows and heifers averaged 9,395 pounds of milk, with an average test of 3.8 per cent. of butter fat. The highest record was one of practically 13,000 pounds.

Prof. Barton first had his assistants lead in the herd bull, "Burnside Lucky Cavalier." This bull, a noted prize winner in the showring as a youngster, has developed into a bull of grand proportions. He has retained his true Ayrshire and dairy type. Mr. R. R. Ness announced that the dam of this bull had completed a record a few days before of only a few pounds less than 17,000 pounds in the year. The sire of this bull was a cham-

pion at the Chicago Dairy Show. Lucky Cavalier looked just about fit for the show ring as he was. He is three years old. The last time he was on the scales he weighed 1,760 pounds.

There were next led out five mature Ayrshire cows, five three-year-old heifers that had dropped their second calves, five heifers that dropped their first calves last fall when they were nearly three years of age, and five Canadian-bred heifers, all sired by the former herd bull, "Robin Adair." The impression made as these animals were led in and out of the ring was a most favorable one. The uniformity of type throughout

After seeing these animals the breeders present agreed with John McKee, of Norwich, and Secretary Stephen, of Huntingdon, when they stated that Prof. Barton was doing more for Ayrshire cattle at Macdonald College than was being done at any other college on the continent. Prof. Barton is now working to find the cost of producing milk from the different animals in the college herd, and in due time expects to have some important results to announce, that will throw more light on production

cost. ... Among the Ayrshires deserving special mention was a heifer with a record of over 10,000 pounds, a heifer imported from Sweden, and a couple of three-year-olds that were giving over 40 pounds of milk a day, having been fresh since last fall. Seven lusty, thrifty senior heifer calves, all by "Robin Adair," showed that this bull had proved himself a valuable sire while in the college herd. He died recently. Two fine senior bull calves received considerable atten-

tion. The older of the two weighed 600 pounds and the younger 535 pounds.

Some Fine Holsteins

A nine-year-old Holstein bull with 17 officially tested daughters, and a young Holstein bull from Dr. Harwood's herd, and out of a dam that gave 14,000 pounds of milk in six months, were favorably commented upon, as was a grand type of the milking Shorthorn bull.

Four Holstein cows were led out. They were fine large animals, and had records last year ranging from 9,693 pounds to 14,459 pounds of milk in a year. One had a record of 88 pounds

of milk in a day, and another of 106 lbs. in a day. One animal during one lactation period had given almost 20,000 pounds of milk. Prof. Barton stated that he expected to still further strengthen the Holstein herd. He does not stick so hard for type in Holsteins as in Ayrshires, but always looks for good individuals just the same. Five fine Holstein heifers were also produced. He breeds Holstein heifers a little younger than the Ayrshires.

Five typy, thrifty, milking Shorthorns were produced. They filled the eve most satisfactorily. One cow, 14 years of age, had a record of over 13,000 pounds of milk in a year. Two much younger animals had records of over 7,000 pounds each. They

Ayrshire Heifers of Macdonald College Breeding.

was so pronounced as to show that Prof. Barton has had an ideal in mind, and that he has been breeding to it closely and consistently. Without exception the animals showed great constitution, vigor and splendid milking capacity. They were straight in the back, deep, and carried exceptionally fine udders. It would be a difficult matter to obtain a more uniform lot of cattle in one herd anywhere.

In the first class of Ayrshire cows was included "Pearl's Robin 2nd of St. Annes, record 12,798 pounds milk; Maude 2nd of St. Annes, 11,505 pounds; May Robin of St. Annes, 11,478



Calves at Pasture. Four Breeds are Represented Here.

pounds; Primrose 2nd of St. Annes, 11,160 pounds; and Bluebell Robin of St. Annes, 8,861 pounds.

combined the beef and dairy type to an unusual / (Concluded on page 19)

John Deere implements



The Spreader with the Beater on the Axle The John Deere Spreader

The heater—the business part of a spreader—and all its driving parts, are mounted off the rear axle. That is why the John Deere is the simplest, easiest running and most efficient

anure spreader. Here is what the beater on the

axle means to you:
1st.—No clutches to give trouble.
2nd.—No chains to break or get out of line

3rd.—Less than half the parts

heretofore used on heretofore used on the simplest spreader—some two hundred parts

spreader—some two hundred parts are done away with.

4th.—Manure not thrown on the sale—straw cannot wind around it.

5th.—You get big drive wheels and a low-down spreader, without atth axis—traction and strength.

6th.—Drive wheels back out of the way when loading—you see where you place each forful.

7th.—Only hip high—easy to load.

John Deere One-Way Plow

The plow with the auto toot frame shift. This featime insures uniform plowing on a shift of the shift of th

Van Brunt Single Disc Grain Drill

No Seed Wasted—All the Field Sown. Van Brunt Drills have an adultable gain force feed which compels as even, continuous flow of need from each seed without humbling or creating the seed. It is not seed beats the dirt. Individually adjustable pressure prings can be used to force conducted from hopper to furrow opener by metal tubes and these protected from dirt using the continuous continuous of the continuous conti

me. Van Brunt Drills do not clog up, even in ishy soil, mud or gumbo. Spring steel scrap-s keep discs absolutely clean. Disc bearings aranted to last lifetime of drill.



Grass steder attachment can be furnished for any Van Brunt Drill. It will sow broadcast or drill, as decired

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Guaranteed 41 per cent Protein.

H. FRALEIGH, Box 2, FOREST, On Also dealer in Flax Seed, Linesed Messi and Poultry Foods.

FARM MANAGEMENT Kuaaaaaaaaaaaaaaaaaaaa

What About Potash?

Potash fertilizers will be scarce. Germany had practically a world's monopoly on this fertilizer, and their supply has been shut off. What can we do about it? Speaking on this subject at Guelph recently, Prof. R. Harcourt said:
"Common sandy soils will carry as

"Common sandy soils will carry as much as 12,000 pounds of potats per acre plow depth. Many sands are richer than clays in potash. Mangels will remove 300 pounds of potash por acre if both roots and top are taken off the land. A crop of oats will remove 40 pounds of potash from the sail. These amplitudes are small come. soil. These amounts are small compared with the natural quantity of potash in the soil.

"What we want then are methods of cultivation that will bring potash already in the soil into solution. To this end we want abundance of or-

FARM MANAGEMENT handling is all that is required. Not much can be said in favor of Plain Two, as the spots under where the heaps were, are about the only places which show much benefit, and these places are too rich, which makes a

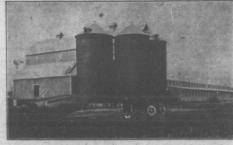
places are too rich, which makes a very uneven crop.

Plan Three, although making more labor, is sure to give the beat results. In a large heap the mimure does not dry out and can be left without waste until one is ready to use it. Another thing in favor of the large heap is that the manure of the different animals is all mixed together, and makes a better balanced plant food than applying them separately

bying them separately
We need not say much about Pl-n
Four, as that way of handling manure is only rractised by those who
place no value on it.

1914 Driest Year on Record

The Ontario Agricultural College reports that the crop year of 1914 was the driest on record in Ontariq! The precipitation from harvest 1913 to harvest 1914 lacked 54 inches of being



No Short Rations Here in Either Summer or Winter.

three siles, on the farm of the Ottawa Dairy Company, are all 20 feet in ster by 35 feet high. This Company, and thousands of farmers with exper testify that corn is the most dependable farm crop and the sile the best place in which to house it.

ganic matter and of lime, the first to hold moisture and the latter to cor-rect acidity. If we have a soil answering these requirements, we will not suffer because of the lack of potash fertilizer." fertilizer.

Four Methods with Manure Alex. F. Scott, Stormont Co., Ont.

So many ways of handling manure are advanced that one who has not had experience would be at a loss to know which would be the safest to adapt to get the best returns. Some advocate the handling of manure direct from the stable to the field and rect from the stable to the held and spreading it at once, both summer and winter. More again practice put-ting it in small heaps in the field to spreading in the spring. Others again put their manure in large heaps convenient to where they intend to use it. Others still cling to the old use if. Others still chag to the old way of leaving it piled up around the barn, or scattered about the yard to leach with the drip of the eaves and have the best part of it carried off in the ditches. I will comment briefly, from my experience, on the four different plans.

Direct Distribution Not Favored

Direct Distribution Not Favored Plan One can be commended when the ground is bare; if there is snow on the ground it should be discontinued. If spread on the snow, the naxt snow comes, the manure is sandwiched between two layers, the ground underneath is frozen solld, and when the spring them to the spring them to the spring them. underneath is frozen solid, and when the spring thaws come and melt the snow, the best part of the manure is leached out and carried away before the rround is thawed enough to ab-sorb it. The only thing to be said in favor of this method is that one

up to the average. This is a shortage of almost 20 per cent. The College of almost 20 per cent. The College has often stated that tile drainage has often stated that tile drainage was effective in a dry aesson as well as in a wet one, and last year it was able to prove this in a most practical way. Since 1912 the College has been installing Practical Drainage Demon-stration Plots in parts of the province where little or no drainage has been done. The plantis to drain half of a field, leaving the other half un-drained for, comparison. Both parts are sowed to the aame kind of grain drained for comparison. Both parts are sowed to the same kind of grain, and the cpop from each part threshed separately. Nine plots were drained prior to 1914. The average of the nine fields showed that at market prices at threshing time the drained the drained that in the drained half produced \$14.12 more per acre than the undrained half, and that in the driest year on record. In an average season the average increase due to drainage is over \$20 per acre.

and in a wet season even more.

For a number of years the Agricultural College has been making drainage surveys for farmers free of charge, except for travelling expenses. This offer is again renewed. Farmers having contains having crainage difficulties may secure assistance by writing the Department of Physics, O.A.C., Guelph, for information and regular application forms.

Varieties of Corn to Grow

Seed Branch, Ottawe An investigation conducted by the Seed Branch shows that about sixty so-called varieties of corn are grown for ensilage in Ontario and Quebec, and many farmers do not know what variety they are planting. Late varMarch 25, 19 Feed Y

and you will get Sto

-Ammonia, Pho Potash. They w mum yields at le Write or call

William Sto (Establish Head Office : -Branches: Inger

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SEED CORN A quantity of car all cured; Bailey, ngin No. 7. Prices solicited.



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Grow

ted by the about sixty are grown nd Quebec, know what

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WINDMILLS Grain Grinders, Water Boxes, Stool law Frames, Fumps, Tanks, Riv. GOOLD, SHAPLEY & MUIR CO., LTD. Boastford Winnipag Rogino Calgory's icties are being used in districts where they will not mature one year in five to the glazing of the grain, which is the necessary condition to make sweet ensilage. Some ordinary feed corn imported from the Central and Sou-thern States is used for seed. Mos-of this is of a late variety entirely un-

of this is of a late variety entirely unsuited to Canadian conditions, and is often in jured by heating. The commended variety of the commended variety of the commended variety of the compone starty, Gudee Vellow, Sandir of or North Dakors, Compton's Early, Golden Glow, Early White Cap, Wisconsin No. 7. In selecting varieties for our Northern districts, later-maturing, heavier-yielding varieties may be planted on a warm, sandy soil than on a cold, clayey one. The proper maturity is essential too high quality ensilage, and this should be aimed at, even although an increased acreage is needed to give the desired quantity. the desired quantity.

Building Up a Farm

Would you suggest a system for build-ing up a run down farm? Most of the hard up a run down farm? Most of the your and seed down and plant the first the next year. Their object is to get the land back to timothy as soon as possible, and back to the first will only keep from 16 to first will not will no

slansfead Oo. Gua.

Building up a run down farm involves the keeping of enough live stock to consume practically all of the ray products produced on the farm, the careful conservation of the supply of farmyard manure- and the following of a short systematic rotation of crops in the fields. Where this system is followed completely, almost any farm may be built up to a high point of productivity in the course of a few years.

The live stock that it would be advisable to keep will depend on marketing conditions. Good dairy cows and cream shipping afford the ideal basis for farm building.

basis for farm building.
We would suggest a four-year rotetion. First year hoed crop, followed
with grain seeded down one yearclover, one year pasture and the procorp again. Where it can be corp again.
Where it can be compared to a reasonable stage of maturity,
corn is the best hoc crop. One point
we, would suphasize: that the seeding
be a fairly fleavy one, including 10 or
12 lbs. of red clover at least. The
clover will then be of a fine quality
and greater feeding value.
The rotation too must be varied to.

and greater feeding value.

The rotation too must be varied to suit local conditions. A farm on which there is a great rough pasture which cannot be brought under the plow and a comparatively small proportion of arable land, is better suited to a three than a four-year rotation. Place all the arable land under the three-year rotation and omit the year of pasture.

It hulding may not down farm.

In building up a run down farm, as a rule it is not a rule the first hot bring all of the farm the rotation. In this case we would divise that as much of the farm as possible be placed under the short rotation and additional fields be added as the live stock and the productivity of the farm increase.

Will it pay to buy commercial fertiliser? On some farms, yes; on others, no. Where potatoes are grown as a money crop, fertilisers can almost or not they won a profit. Whether or not they won a profit. Whether or not they won a profit whether or not they are a profit whether or not they are a profit whether or not they are a profit whether and a profit whether whet In building up a run down farm, as

I took in from 13 cows (866.22 a-piece) at a silo. They picked their own imag from May 8th to October 1st. My cream went to the butter factory in the summer months and Montreal in winter.—E. W. Taylor, Brome Co., Que.



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Dept. 6



Orchard and Garden Notes

Plan the garden now. Rhubarb may be started in the cellar and will soon give good stalks for

sauos.
Plan to plant some of the herbs, such as dill, anise and caraway, this spring. Hotbed such and soil should be made-ready. In many regions hotbeds may be started noxt month.
Plant a few hardy gaillardia. No plant is more showy or can be used to better advantage for its cut flowers.

Bird houses may be made and put in convenient trees. The birds seem to prefer boxes that have weathered a

old-fashioned bleeding-heart

The old-fashiomed bleeding-heart makes a good plant at a corner of the shrubbery and as it is a perennial will return each year.

See that the shrubbery or perennial border does not become bare during the early thaws. It is a good plan to scatter straw or even manuse over it.

scatter straw or even manue over it. De not set seed-flats directly on manure in a bothed. There should be three or four inches of soil to absorb the odor and steam from the manure. Send for seed catalogues and make up the seed-list early. Try a few novelties, but make the main garden of standard sorts. Order seed early. Summer cypress (Kochia) makes a good annual-hedge. It grows about two feet high, is quite dease, and changes from a light green to erimson in autumn. Sow the seeds indoors in April. The plants will re-seed year after year. after year.
One of the quickest-growing

One of the quickest-grown dwarf annuals is sweet alysium. ow the seeds as soon as the ground can be worked in spring and you will be repaid with an abundance of snowy-

paid with an anounce white, awest-scented of the clover-head for a threated attracted much at the particular and the particular

autum.

Now is a good time to take down
the advertising placards that adorn
the fence, trees and buildings. No
advertising signs should be carried on
farm properly except those advertiing the farm products. These are
better placed on a bulletin board convenient to the entrance.

Plum Culture in Ontario

Plum culture in Ontario is describ-ed in a very full and suggestive man-ner by F. M. Clement, Director of the Ontario Fruit Experiment Station, in Bulletin 236, just issued by the On-terio Department of Agricuiture. This treatise is most timely. During the

decade between the census of 1201 and that of 1911 the number of plum trees in Ontario decreased in number by over half a million. In 1911 the number of trees reported was 1,124, 622, of which a little more than two-thirds were in bearing, the value of the crop being estimated as \$374,675, or about half a dollar per bearing tree. In the bulletin the cost of production is very fully gone into.

duction is very fully gone into.

The three chief drawbacks to suc-The stree dark grawing in this province, according to the author, are: (1) Too many varieties; (2) lack of careful cultivation and handling of the product; (3) needed of spraying at the right time and according to the best weekleds.

Selection of Nursery Stock Proj. J. W. Crow, O.A.C., Guelph

If you want the right kind of a weet cherry buy a one-year-old tree. The same applies to a good many plums, to apples, and to sour cherries, if you can get them.

A favor sweet cherries on Mazzard stock. Sour stock is usually used, but it is not long-lived or strong

enough for sweet cherries

I want a stalky, well-grown tree up to four feet in height in sweet cherries and plums.

Of late years there has been a ten-dency all along the line to have the heads on shorter trunks. This is de-

In practical work we will probably get best results with apples and pears from two-year-old trees. This is not because two-year-old trees will grow better than one-year-old, but because the ordinary workman has not respect enough for a yearling tree. If the proprietor is going to do the work himself, one-year-old trees are preferred.



Small Flocks or Large?

The farmer with 100 hens is often at loss to know whether to house his birds in one large flock, or several small ones. Not so many gears ago the most prominent poultry instructors were unanimous in their opinion that not more than 20 to 25 birds should be housed in one flock toge-ther. Hence the old-time, long, nar-row house, with a pen of 10 square feet accommodating a flock of 20 layfeet accommodating a flock of 20 lay-ing pullets. The newr idea is a single large house for the farm flock, one 20 feet square being the popular size for a flock of 100 laying fowl. The wider house has many advan-tages over the old-time narrow house. It is more economical of material,

less lumber being required to pro-vide the housing for one large flock than for the salve flock divided into five smaller ones. The larger house ses less wall area to the outside Co.d. Draughts do not reach back through the open front of the wide house as they would through the

house as they would through the open front of a narrow house; and the open front house has here almost universally adopted nowadays. Perhaps the advantage of the one large house that will make the great-est appeal on the farm where labor is scarce in that one large flock can

be cared for with iabor that is requi of the smaller flo water basin to fill grain hopper to one set of nests eggs instead of through all the with po

March 25, 19

Organization V

The United Far Ontario is adding with every passin

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L. R. GUILD, Box 16, ROCKWOOD, ONT. 103 Eggs in 109 days

130 Ecc INCUBATOR 130 (hick Brooder 90 Freight



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White Fyfe
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White Russian 233

Semane 27 1.55

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be cared for with practically the same.

J. Morrison has recently succeeded in organizing several new branches of the smaller flocks. There is one water basin to fill instead of five, one grain hopper to fill instead of five, organization bupper to fill instead of five, organization of several proper to fill instead of five, organization of several properties of the may several new theoretical five control of the several properties of the may several new the many several new the many several new through all the operations in control of the several new through all the operations in control of the several new through all the operations in control of the several new through all the operations in the several new through a several new through the many several new transfer of the may several n

Reeve of Hillier.

While in the county Mr. Morrison took advantage of an opportunity to address the county council. He brought out a lively discussion on rural conditions, and was delighted to find that the general sentiment of the council was strongly in sympathy of the aims and objects of the United Farmers. Mr. W. W. Anderson introduced Mr. Morrison to the council.

Council.

One of the real good meetings of the series was held at Hillier on March 16. An additional branch of the United Farmers of Ontario was formed, with the following officers: President, W. D. Bec.al; vice-president, W. L. Waff: sacretary-treasurer. Percy Wilwaff: sacretary-treasurer. Percy Wil-W. D. Becsi; vice-president, W. L. Waif; secretary-treasurer, Percy Wilson; directors, Fred McNair, W. J. Ready, Levi Palmer, John Hiles, and Thos. Alexander.

Organization work is one of the most important features in the sucmost important features in the suc-cessful launching of a new movement such as the Ontatio Farmers' Move-ment. Good work has been done by Mr. Morrison and his assistants in the past few months, and from now on the commercial end of the United Farmers' Movement will be pushed anore strongly than ever before. The inauguration of the selling end in the face of tremendous opposition must face of tremendous opposition must be one of difficulty, but the leaders of the movement are confident of their ultimate success.

Items of Interest

Four cooperative experiments in apiculture will be conducted by the Ontario Agricultural and Experimen-Apiarist, Guelph, for full information regarding these experiments.

The Ontario Agricultural and Ex-perimental Union will conduct 30 different cooperative experiments in Ontario during the coming season. They are prepared to distribute into every township of Ontario material of evely township of Ontario material of high quality for these experiments with grain, fodder crops, roots, grasses, clovers, and alfallas. Farm and Dairy readers who are interested in better crops and better methods of producing crops should apply to Prof. C. A. Zavitz, O. A.C., Guelph, for fuller information on these experi-ments.

St. Andrews by the Sea

St. Andrews by the Sea Nature has done much for St. Andrews. No prettier place ca: be visited by the tourist or the summer vacation.is. It is the most popular of Canadian seaside resorts, and it is now chosen by large numbers of summer visitors from New York and Boston who desire to get away from the overcrowded resorts of the United States.

States.

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Grains alone do not supply enough of it. Feed Beef-Scrap in the right proportions and the rations will contain the protein needed for big egg production.

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March 25, 191



Why Buy BELLEVILLE Holsteins?

On THURSDAY, APRIL 1st

In recent issues of this Journal we have drawn your attention to the merits of the Holstein as a breed of superior dairy cattle. Their popularity among thinking dairyman is the strongest evidence we can offer in support of the claim that for all purposes as a **DAIRY COW SHE REIGNS SUPREME**.

BUT

While it is generally admitted that there is no breed of cattle that show such uniformly high production.

STILL

EVERY Holstein cow is **NOT** a large and economical producer. **SOME** families have shown unmistakably their outstanding superiority as producers over many others of the breed. To gain **PLEASURE** and **PROFIT** and avoid **DISAPPOINTMENT**

By All Means Buy the Progeny of Great Producers!

If buying a DeKol, a Korndyke, a May Echo, etc., see that the individual claiming to be of such family has enough of the blood of these illustrious producers to be reasonably certain of its dominating the blood, inherited from ancestors of inferior ability. In other



words, let it be a DeKol, etc., in more than name,

"No matter how optimistic, success cannot reasonably be expected in the breeding of pure-bred cattle by the application of the principle 'That the puppy dog's tail will calmly wag the dog!'"

Here the BELLEVILLE Sales Excel!

When we speak of offering animals of the blood of the great 100 lb. cows of the Belleville District, we mean something worth while -25, 30, or even 100 per cent. of the blood of the greatest. "Like begets like, or better." "100 lb. cows from 100 lb. ancestors is the only safe rule to success."

We can SELL them, because we Breed them,

There are more 100 lb. bulls to the square inch in the Belleville district than in any similar area under the sun. We invite comparison.

The Catalogues are out!

Some Things They Tell!

- (a) —A Service Bull—a beauty. Dam, a 116 lb. cow, with a R.O.P. official record of 23.807 lbs. milk, 1,037.5 lbs. butter in one year. sire—a brother to May Echo, 108 lb., with 23,707 lbs. milk, 1,042 butter in 1 yr. Look here breeders—this is some bull! Individually as good as his backing.
 (b)—Several sons and daughters of Inka Sylvia Beets Posch. Why you know him. He sired May Echo Sylvia, the 118.5 lb. 4 year old,
- and a host of other good ones. Look them up.
- (e)—Grand-daughters ("We are seven") of "Hengerveld DeKol," the only bull in the world with 74 officially tested daughters over 20 lbs. The sisters of these in one herd have milked up to 72.5 a day as 2 year olds, and two now in test in heifer form running between 80 and 90 (one a jr. 3 year old).
- (d)—Pontiac Korndyke—represented in this sale by some excellent gr.-daughters.
- (e)—Plus Burke—the splendid transmitting son of DeKol Plus, 106 lbs. a day (former Canadian champion), has some excellent sons and daughters.
- (f)—Velstra Triumph, (the 100 lb. sire). King Walker Francy 3rd's Admiral Ormsby, Count Segis Walker Pietertje (sire of a 88 lb. 2 year old). May Echo Verbelle, and several other good ones. All have representatives in the 1915 April Sale.

THEN REMEMBER:-

Many of the females are BRED to the great bulls above mentioned, and others, including a son of the great \$25,000 sire Rag Apple Konrdyke 8th, out of a cow with a two lb. sister, and a 30 lb. gr.-dam. But say, we must stop. Get a Catalogue and read them up for yourself. But join this in your bat and follo: it on April 1810.

BELLEVILLE--is--the--Place--to--Buy--REAL--Holsteins

Cheap Rates on all Railroads.

Sale 12.30 sharp at Kyle House Stables.

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Making the Farm Pay Each of these books retail at more than a dollar,

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WANTED Manager for stock farm. Married man, able to take entire charge. Must understand handling men, farm accounts, etc. Would want him to come at once. Give full particulars, experience. family, salary expected, first little. Permanent place for proper site. Apply BROCKVILLE, ONT.

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Bend for my boo and learn why these teners are being insta in the stables of m **PUBLIC** INSTITUTIONS Constian orders filled from Gamadian Betory: all correspondence should be addressed to the home office. State in localry if you prefer backlet in French or English.



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Those "Made-in-Canada" Posters

attention to certain flaming Direction of adorning Canadian Canadian Canadian Canadian Canadian Canadian The stoney heart of the passer-by is melted by the evident distress of the poor workman and his family, while the hardest headed are convinced by the unanswerable logic of the attached legend: "Out of Work! Why?" Surely even the untertored mind must realize that, if the control of the control of the state of the control of the control

besige our workmen's doors! It is all as plain as a pike-staff!
But wais! Some considerations of importance may have been omitted!
Where did we get this 1,850 million dollars? Did we steal, borrow or earn it? Let us put the most charitable construction upon the situation and assume that we carned it; for, each of the steal of th sult is the excuange of one set of com-modities for another.

If We Manufactured All

Now suppose that we Canadians, instead of earning the 1,350 million dollars by exchanging native productions for the money, had set ourselves to manufacture all the goods we formerly purchased from abroad. Not being able to do two different things at the same time we should have to to manutaceure air the goods we notbeing able to do two different things
at the same time we should have to
active, either the actual doing, or
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doing of something hitheaped for the
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the have been paying money to for
eigners for bananas. Should we decided that we would establish the
banana industry in Canada, we should
have to withdraw labor from other
occupations (actually or potentially),
and hen it becomes a question as to
them is becomes a question as to
we can possibly as doing more than
the same or than
the same of the same of the congrowing is admittedly a conty late
ting the foreigner grow our bananas
for us, and by confining our efforts,
say, to the growing of wheat, which
the foreigner will gladly accept in exdenage for his behanana. In fact in
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ties concerned.

The designees of the afore-mentioned flaming posters have, however, enunciated a new doctrine; and have implicitly, if not espicitly, called in question the whole practice of exchange. But, before accept this new doctrine it must be entonstrated that we were unwise. If the property of the property of

E DITOR, Farm and Dairy,—Fermit me to draw your readers' due them in Canada as cheaply as we attention to certain faming posters now adorning Canadian bill-our new politics economic prophets as control say them abroad. What would our new politico-economic prophets asy of a Manitoba farmer who should ne-glect his wheat fields for the sake of orange culture! Or of a nation who should set itself to grow or manufac-ture overything it wanted, irrespec-tive of natural facilities or difficul-ties!

What Are Extremes?

What Are Extremes?

"Oh, but we don't want to go to extremes," any our new political consumitat, "we want to be reasonable; we admit that there may be some things which it would not pay us to masufasture in Canada. Moreover, and the workmen there was to be a supported by the consuming the workmen there was to be supported by the case of the consuming the workmen to do?" Very gomething for easenable. How one we we will be reasonable. How one we we will be reasonable. How one we we will be reasonable. How one we we will be reasonable to the more than to be a supported by the supp

Those in which we get the maximum result from the minimum expenditure of labor are the most profit-able, while those like banana growable, while those—like banana growing—in which we get the smallest result from the greatest exponditure of
subt race he least profitable. For us
to grow one dollar's worth of banana,
whereas we might, with the very same
whereas we might, with the very same
whereas we might, with the very same
worth of the control of prosecution of any industry which cannot exist unsupported by public subventions. And, so far as the idle workmen are concerned, we need only to remember that they may be employed growing wheat as well as barriers of the control of state support. A Poser For Protectionists

A Poser For Protectionists
Therefore, until we know what it
was for which we paid out this rabutous sum of 1,800 million dollars, and
until we are also million dollars, and
until we are loss million to the labor of
Canadian workmen for the labor of
Canadian workmen of
Canadian workmen with the continuous
diverted to the production
things, we may safely infer that those
who purchased these things abroad
considered that they were "getting
the worth of their money"; and that
the transaction was essentially a profitable one for this country. We may
infer also that the maximum economic
advantage will be obtained by providadvantage will be obtained by providadvantage will be obtained by providinher also that the maximum economic advantage will be obtained by providing "a fair field and no favors," so so to ensure the "survival of the (industrially) fittest." Only thus can me discover which industries we can engage in with maximum profit, and which industries are profit and which industries are profit as the survival of the profit and the survival of th engage in with maximum profit, and which industries are merely a burden upon the whole people. It isn't in-dividual economy for a man to make everything for himself and buy nothoverything to himself and buy nothing from any one close; similarly it su't political economy for a nation to buy nothing from foreigners—notwith—standing anything our flaming poster designers may say to the contrary.

W. C. Good, Brant Co., Ont.

We have never yet visited a really first-class farmer who did not have his farm carefully laid out under a regular system of crop rotation. Many regular system of crop rotation, main have simplified the management of their rotation by having a plan of the farm tacked in some convenient and on each field pencil notes of the history of the crops that it has borne. Such a plan is very handy for refer-

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The paids unberriptions to Farm and Dairy exceed
1200. The actual circulation of each laws, including
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The Rural Publishing Company, Limited PETERBBORO, ONT.

"Read not to contradict and to confute, nor to believe and take for granted, but to weigh and con-sider,"—Bacon.

A Serious Taxation Defect

THE decision of the Ontario Government to A raise a portion of its revenue by a direct tax of one mill on the dollar on all assessed property in the province, is a step in the right direction. Indirect taxes, whether levied through a tariff or on big public service corporations, are always wasteful and lead to extravagance on the part of government officials and indifference on the part of the people who in the long run may bear the cost of this inefficiency and extravagance. Ontario's new taxation, however, cannot be fully commended. One serious deficiency in the scheme of a tax of one mill on the dollar has been brought to the attention of the government by the Tax Reform League. We take the following from an open letter sent to the members of the Ontario Legislature by this League:

"Another and serious defect in the proposed tax is the fact that it, being levied upon the basis of the assessment as made by each municipality, must be unfairly apportioned. For it is a notorious

fact that every municipality is a law unto itself as to its basis of valuations.

"According to the report made to the Special Committee of the Legislature, by the Dominion Grange, on Dec. 19, 1912, assessments of improvements varied from twelve and one-half per provements varied from twelve and one-half per control of the control of cent. to one hundred per cent. of their value, and assessments of land from thirty-three and one-third to one hundred per cent.

"It is evident that without some system of

equalization of assessments that the places assessing at full value will pay twice as much tax as those which only assess at one-half. Experience shows that the poorer the municipality the more nearly the assessments approach the full value, and the more wealthy the municipality the

value, and the more wealthy the municipality the lower the percentage is the assessed value.

"For example, the township of Carlow in Hastings Co., Ont. assesses land and improvements—at one hundred per cent. of their value, while the township of Sarawak assess on a basis of only forty per cent. so that the tax will come with double force on those least able to bear it."

The League suggests that the basis of taxa—

tion be changed to a per capita tax to be levied

according to population on land values only. In this way those places whose basis of assessment is low, will have to pay a higher rate, while those with a higher assessment will pay a lower mill rate. In this way, the taxation would be more nearly proportioned to the wealth of the community than could be gotten by any other method. Both the criticism and the suggestion should be well considered by the Legislature.

Help Cheaper (?)

WAGES have fallen. Thousands are out of work in our big cities, hundreds in small towns, and dozens in manufacturing villages. Surely farm help will be cheaperd Reports from the Statistics Branch at Ottawa indicate that already the rural wage standard has begun to fall a little. But will help really be lower priced than in previous years? City wage earners may be glad to take a job on the farm until conditions improve in town, and may perhaps work for a few dollars a month less than the trained agricultural laborer. But can the city man do as much work, dollar for dollar, as the competent hired man who has stayed by us in years past? We believe that in most cases the competent man will be the cheaper laborer at the higher wage which he has a perfect right to demand.

There is one class of city workman who will

The Tide Cityward. Why?

The campaign of educational w.uc carried on under the auspices of our various departments of agriculture with such assiduity for the last 30 years has done much good; but it has been powerless to stem the tide cityward. It has failed to meet the needs of the situation. It is good meet the needs of the situation. It is good so far as it goes, but it does not go far enough. It touches only the production of wealth, and 'ignores the question of distribution. Without equitable distribution production will fall off. No man will sow where he cannot reap, unless he is emissived and if, all things considered, the rewards of and 11, 4ll things considered, the rewards of other occupations are greater than those of farming, farmers will drift to other call-ings, and agriculture will suffer. This is the penalty which nature imposes for a transgression of her laws, and there is no way to avoid it.—W. C. Good, B.A., Brant Co., Ont.

make good as a farm hand,-the one possessed of an earnest desire to get back to the land. Such a man will be anxious to learn in order that he may some day run a farm of his own. We know of several men of this class who have gone back to the farm as hired men, and have made good. The ordinary wage earner, however, who desires only to tide himself over until he may again secure a job in town, is not worth anything like the rate of wages that prevail for competent farm hands.

And Bread, Too

M EN cannot live on bread alone; they need meat, milk, cheese, butter and so forth. But man's main dependence always has been and always will be on the great cereals,-wheat, oats and rice. We wonder what the world would do if we farmers as a mass were suddenly to adopt the advice of at least nine out of ten of our agricultural advisors and decide to feed on the farm everything grown on the farm and market only finished products. The cost of living is high enough now to the city working man; under the new dispensation he would find living impossible. The mere fact that grain provides five times as much human food as it will make when turned into animal products, is enough in itself to show the necessity of the cereals in their unfinished form in the feeding of the race.

In the past new lands have supplied a large

percentage of the wheat demanded by commerce, and the older lands have been enabled to specialize more in animal production. New lands, however, are now becoming filled up. The farming of the future must be a combination of forage crops and grains with live stock to consume forage and grain by-products. Fertilization will be accomplished by the use of legumes and com-mercial fertilizers. The problem of the future generation of farmers is to learn to use commercial fertilizers intelligently and devise rotations including grain for sale, forage for live stock and legumes to feed the soil. When agriculture finally adjusts itself more grain will be grown the world over than is now the case-because of the fine tilth and greater fertility of the soil, and we will have the live stock in addition. It is also reasonably certain that a large proportion of the cattle under this future dispensation will be of the dairy kind. Wheat must come before meat, because, food value considered, it can be produced more economically. It is this same factor. economy of production, that will place dairy products ahead of meat.

First Things First

TN an address at the National Dairy Show, Secretary Houston, of the United States Department of Agriculture, is reported as saying:

"The greatest undeveloped resource of any "community is its people, and if we devoted "more attention to the people, we should be "relieved of much of our concern for the con-"servation and development of our natural re-"sources."

The great truth embodied in this utterance is not yet half understood by the officials of our Departments of Agriculture or even by the men on the land. When Farm and Dairy was first pub lished the whole field of agricultural journalism was supposed to be the encouragetand of crop and live stock production. The advice of all agricultural papers in that day could be summed up in "raise more stock to grow more crops to feed more stock to buy more land to grow more crops," and so on ad infinitum. Year by year, however, the idea has strengthened that these things are not of the first importance. They are but means to an end, and the end is "life more abundant." The day is not far distant when the wealth of every rural community will be measured by the intelligence and happiness of its people, not by its production of natural or manufactured products.

Farm Furrows

Seed testing and cow testing are a winning pair. The first increases the cropse the latter makes their feeding more profitable.

A short tempered man generally drives a short tempered horse. Another case of bad associations corrupting good manners.

Every city has its water supply tested regularly. Investigations to date indicate the wisdom of following the same practice in regard to the "perfectly pure" water of the farm well. Appearances are sometimes deceiving.

Says Farm, Stock and Home: "The sile is conducive to beastly happiness." He who climbed into the silo this winter instead of going through the bilizzard to the shock field, will probably add that a sile is conductive to manly comfort.

If we are continually grumbling about the hard lot of the farmer we need not be surprised if our boys hike off to the city. They are merely taking us at our word.

Why not pass along your ideas. Our offer is still open; six months renewal to your subscription to Farm and Dairy for a practical letter on a practical farm subject, the letter to be at least 300 words in length

Farmers

A T the meeting and Production Lindsay r Laidley, of Omeme Emily Farmers' C on behalf of the c effect a reply to Government as exp emment speakers to increase their preport of the paper and Dairy, with a should publish it makes it impossible but herewith we p tial features. The ported that Mr. were frequently he The most significa paper, in our opinion that it shows that the Emily Farmers' Cl to the importance of omic factors in ou they relate to the fa farmers' clubs are cuss the same probl spoke in part as for The Farme

Gentlemen,-We your appeal on be production. We pe policy worthy of pursued until the hi ciency has been att you that the agriing upon them, and opportunity to rise a our responsibility, selves as men worth which we represent We also believe th

ist, individually, wor selfish interests, is best service to the moting his own moting welfare. For me bushels instead of me, but here and question vital to ev ing the past ten ye doubling production ing for increased ef and had marketed i tem which has been the past ten years, w as a whole, be bet financially? We say be no better off. I further. While incr has failed to bring a fit to the farmers, great wave of pros wave has swept ov shore to shore, it his the wheels and spine manufacturing centre has created employme portation companies, great commercial cen through the distribu creased production of perity, wealth and lu everybody is enjoying except farmers them what is driving our ters to the cities a our national existence Equity and Just

In view of the fact justified in saying the and all the educati have failed, and alwa til we adopt a syster justice that will give cial compensation to culturists are justified stitutes and all agricu as a mere ghost behin we raise the curtain w tom animated and ac world forces: manufacturing, and co

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Farmers Views on Greater Production

A The meeting of the Patriotism ests. These are systematically uniand Production campaign held ted and are working harmoniously to in Lindsay recently, Mr. J. L. gether for the promotion of national Laidley, of Omenne, upresenting the prosperity, but utterly ignoring their Emily Farmers' Club, read a paper out behalf of the club, which was in ask you, gentlemen, to appeal to the effect a reply to the action of the Government as expressed by the Government as expressed by the Government speakers in urging farmers to increase their production. A full report of the paper was sent to Farm and Dairy, with a request that we should publish it. Lack of space for hogs since 16th October last warmakes it impossible for us to do so, rant sus to increase production And on benail of the club, which was in effect a reply to the action of the Government as expressed by the Government as expressed by the Government speakers in urging farmers to increase their production. A full report of the paper was sent to Farm and Dairy, with a request that we assume the sent of the sen

The Farmers' Case
Gentlemen—We as agriculturists
have listened with keen interest to
your appeal on behalf of increased
production. We perceive it to be a
policy worthy of being vigorously
pursued until the highest possible efficiency has been attained. We assure you that the agriculturists of the Dominion see the responsibility rest-ing upon them, and accept it as an opportunity to rise as a man, assume our responsibility, and acquit our-selves as men worthy of the industry

selves as men worthy of the industry which we represent
We also believe that the agriculturist, individually, working for his own selfash interests, is not rendering his best service to the state or best promoting his own moral and spiritual welfare. For me to produce two bushels instead of one would benefit of the selfast of the self doubling production, necessarily call-ing for increased effort and expense, and had marketed it under the sysing for increased effort and expense, and had marketed it under the system which has been in vogue during the past ten years, would the farmers, as a whole, be better or worse off-inancially. We say that they would have the system of the sy

for hogs since 16th October hast war-rant was to increase production. And in all due respect we ask Mr. J. W. Flavelle if any manufactured article hung so weak in the balance to-day, would there not be a prompt demand for curtailment of the output of that article? Then, in a parallel case, why does he call to farmers for increased production? roduction?

Permit us to ask if it would not be impossible to invent a new make of separator without infringing on the rights of the separators on the mar-ket? Would it not also be impossible to buy these rights without first signto buy these rights without first signing an agreement not to cut prices on separators? Is not this the reason that farmers are paying from \$75 to \$90 for a machine which, we think, would yield a fair profit to the manufacturer at \$25 f.o.b. at the factory? Do not interfere with the manufacturer, but keep on howling/increased production along the lines of dairying. Showing "Respect" For Farmers We believe that J. W. Flavelle, as a member of the Manufacturers' Association, is aware that there is to be

sociation, is aware that there is to be held in Toronto in the mear future a World's Conference of the Chambers World's Conference of the Chambers of Trade and Commerce, attended by delegates representing art, science, natural resources, and the manufacturing and commercial industries of the world. The Ganadian Council of Agriculture, representing the organized farmers of Canada, applied to the Secretary of the Chambers of Canada, applied to the Secretary of the Chambers of Canada, applied to the Secretary of the Chambers of Canada, applied to the Secretary of the Chambers of England, and Commerce in London. England, and continued the Canada of the Can of Trade and Commerce, attended by

has created employment for the transportation companies, and for all the great commercial centres of the world who the great commercial centres of the world who through the distribution of the increased production of our farms. Prosperity, wealth and luxuries are created by the farmers' industry, and everybody is enjoying this prosperity except farmers themselves. This is what is driving our sons and daughthat our castlonia case of the commercial control of the commercial control our castlonia case of the commercial control our castlonia case of the commercial control our castlonia case of the commercial compensation to the people on the land. Until this is granted agriculturists are justified in viewing insuited that will give adequate financial compensation to the people on the land. Until this is granted agriculturists are justified in viewing insuited that will give adequate financial compensation to the people on the land. Until this is granted agriculturists are justified in viewing insuited that will give adequate financial compensation to the people on the land. Until this is granted agriculturists are justified in viewing insuited that until give adequate financial compensation to the people on the land. Until this is granted agriculturists are justified in viewing insuited that until give adequate financial compensation to the people on the land. Until this is granted agriculturists are justified in viewing insuited that until give adequate financial compensation to the people for leaving the farm for the city. We admit that we have much to learn and we are anxious to learn, out the compensation of the compen sequently, the result is every time we



The survival of the fittest

TRIED in the furnace of competition and subjected to the test of years of practical use on nearly 2,000,000 farms the world over, the De Laval has proved its overwhelming superiority to all other cream separators.

Twenty years ago there were as many makes of factory as of farm separators, but for the past ten years the De Laval has had this field almost to itself, 98 per cent of the cream-separators in use by creamerymen and market milk dealers to-day being of the De Laval make.

It has taken the inexperienced farmer a little longer to sort the true from the untrue, the wheat from the chaff, in the maxe of conflictory catalog and local dealer separator claims, but year by year the ever-increasing proportion of farm separator buyers is reaching the same conclusion as the creameryman—that the De Laval is the only cream separator they can afford to buy or use.

Many other cream separators have come into the limelight of publicity for a few short months or a few short years, claiming to be "as good as" or "cheaper" than the De Layal, but their users have sooner or later found them lacking in some one respect or another, and even where a few have seemingly done well their users have come to learn that the De Laval was a still better

The unfit or the less fit cannot possibly survive for long in separators or anything else. Think of all the separators you used to see advertised so extravagantly in your favorite farm papers. Where are they now? Why do you seldom, if at sll, see their names mentioned? Simply because the fittest must survive and the others must fall out of the race.

The De Laval has triumphed over all other separators, and its supremacy is now almost as firmly established in farm as in factory separators because its separating system, design and construction are essentially different from and superior to other separators.

A De Laval catalog to be had for the asking explains and illustrates these differences. A De Laval machine, to be had a test or trial from the nearest local De Laval ament, does no bette still. If you don't know the nearest local agent, does no hete the nearest De Laval ament, does no hete the nearest De Laval main office as heleower.

De Laval Dairy Supply Co., Ltd. MONTREAL PETERBORO WINNIPEG 50,000 BRANCHES AND LOCAL AGENCIES THE WORLD OVER

Say

"I saw your ad, in Farm and Dairy" when you write Advertisers. Then you get full benefit of our absolute Guarantee.

F you are acquainted with Happiness, introduce him to your neighbor. - E. Brooks.

Mother's Holiday

By Fanny E. Shepherd think you can't trust me with the housekeeping," and Dollie tossed her prety head.

'don't believe you'll go at all, 'As," remarked Will, the eldest boy, "Dad may get you as far as the station, but I shall neere believe you're really gone until he comes back without you. Why, who would be sale to out you. Why, who would be sale to won't. I'm sure."

"You bet she won'ts," was gick

RS. HALL was busily engaged laying the breakfast table, while Dollie, her eldest daughter, stirred the aatmeal vigorously.

"More those potatone, Dollie. I can amell them burning, dear," remarked her mother, looking naniously toward the stove. "Why don't those boys come and Dad too? He should be bere by now. They said they would not be late because of my going away; and there's the butter not packed yet; and—"

"Never mind, Mother," laughed Dollie; "There's plenty of time. The train doesn't go till dinner-time, and the poultry are all packed away. You won't enjoy yourself a bit, if you start off so tired. I'll make you a cup of tea, while we're waiting. Don't you worry; never knew them to be late yet." And she bustled around, while Mrs. Hall dropped into a rocking chair and rested her al-ready tired hands in her lap, ready tired hands in her lap, watching the boys as they trooped up from the barn. There were four of them, followed by their father with the milk pails. No wonder the little mother was proud wonder the little mother was proud of them—great brawny fellows, alor the great brawn, tenders, ways ready to do a kindness for a neighbor, adoring their mother and teasing their sister, and generally making such a noise that, as Mrs. Hall said, "You could hardly see

the table.

"Yah; you can't even boil the potatoes without forgetting to put salt to them." he teased; "and you know them." toos without forgetting to put sait to them," be teased; "and you know you"ll saake us put our own sugar and milk in our tea, and it never taskes so nice that way."
"Sure I will," was the quick reply. "Hy you only waited on yourself a little more at meal times, mother would have time to eat more herself; would, "to you Munsie?"
Mrs. Hall beamed lovingly on them all as they eated themselves noisily at the table.
"You know I like nothing better than waiting on you all," she smiled, putting an extra spoonful of sugar in

"You know I like nothing better than waiting on you all," she amiled, putting an extra spoonful of sugar in Bob's tea and a little extra cream into father's; "but it will be a nice change to go away just a few days."
"Few days indeed! If you come home in less than a fortnight I shall

thought you would get even so far away from us all."

"Oh you go on, John. I'm going to have a honeymoon all to myself and cajoy it too, at least as much as I'r subly can without you," and she squeezed his arm lovingly. "I don't care if I am all all min how surfy the subject of the subject

won't begin now unless somebody sets as, as fercarchers off under their heels. Here she comes, Mother," and he picked up her grip.

There was the usual bustle as the train puffed in. Mrs. Hall insisted on seeing her poultry in before she got in herself. Then there was a close clasp of her husband's hand and was off.

There was something oddly familiar in the motion of the train as Mrs. Hall leaned back in the seat tired but

Hall seamed back in the seat tired but a little excited.

"Only fancy," she said to hermsi," if is six years since I, have been in a train, and in all that time never more than ten miles away from home. Only one night away from home, and response. And now the s. you get out of the house (to put ,, gently) the sooner we can clear up."

They went cluttering off, and soon Mrs. Hall and Dollie had washed the dishes and cleared up the room. The

and the only ones Mrs. Hall would sit behind at any time.

Hasty goodbyen were said and off they started. They only lived about four miles from the station, so arrived there in good time.

"Hall an hour to wait, Mother," laughed Mr. Hall. "I told you you'd be too early." And so your heart hasn's failed you yet. I never really thought you would get even so far away from us all."

"Oh you go on, John. I'm going to she street. always know what to do. She had never been so far away from him over eince she left England.
Here she pulled herself up with a jerk. "This would never do. How the boys would laugh and tease her if she ever told them she had felt like this." Be, she took her courage in both hands, and, asking the first man she met who looked like a porter, she me soon directed what 'u, do, and she had the street in the station in the street. the street.
It seemed very strange to be walk-

ing on a real pavement again, but it was nice too, and her spirits rose, as she once more rubbed shoulders with she once more rubbed shoulders with a crowd of human beings. She en-quired the way to the Young Women's Christian Association. Dollie had told her to be sure and go there first of all, and see if she could have a room there. And of course Dollie knew all about overything; for had she not had two winters in Winnipeg, staying with friends who did their best to make the country girl enjoy herself and have a good time. She easily found her way, and mounting the broad steps found herself in the large

In the rotunds adjoining women of all ages sat around waiting for the supper-bell. It looked so homelike to supper-bell. It looked so homelike to the tired woman. A pretty girl with long fair hair hanging down her back and a large tabby cat lasily licking her kitten reminded her of her own home. And there was actually an open fireplace with logs burning merrily. Somehow it almost made her ache to look around, it was so English well like home.

so, well lake nome.
The supper-bell rang and there was
stir. Most of them walked leisurely
wards the large dining hall. A
motherly looking woman, seeing
her hesitate, invited her along and a stir.

seated her at one of the tables where she could have a view of the room and other diners.

and Remands, in the holes where also could have a view of the consistency of the consiste



Tree Embowered; Therefore Beautiful. The Home of Jas. P. Trernay, Huron Co., Ont.

butter was packed and put in the de-mocrat, with the eggs and two cases of poultry, for fiv as close on Thanks-giving and Mrs. Hall was going to combine business with pleasure. A new pair of glasses was an absolute necessity, so it had been decided that a trip to the nearest city-would be a nice change for Mother, and give Dollie a chance to air her housekeep-ing abilities.

"Now then, Mother, I think you are quite ready," remarked Dolly. "You look very sweet in that new dress I made you, though I say it as

"You bet she won't," was sponse. "And now the s

quite ready, remarked Dolly. Tou look very sweet in that new dress I made you, though I say it as shouldn't, giving her Mother a good hug. "I think you look nices Chva anybody's mother, and the chickens and the lines of a least sweet and the lines of the look of the loo

that was when I sat up with Mrs. Smith when her little baby died. Ah, well, I never minded; and I am so glad none of them ever knew how badly I wanted to get away from it all

She was one of those tall, angular Sho was one or those tall, angular women, not so strong as some, but one of shose kind who can keep plodding on, day after day, year in and year out, never saking and nover getting any respite from the daily grind—one of our typical pioneer women, of whom their are many in the West, who have seen a superior of the seen of the seen of the seen folks and helped make the West.

what it is to-day.

It was several hours before she reached her destination, and it was reached her destination, and it was beginning to got dusk as the train glided into the station. She gathered her belongings hastily, and in another minute or two found herself on the platform. Spring her precious poultry hampers being flung out from the other end of the train, she scuttled along, and, seating herself firmly on them, awaited developments. Somehow his was beginning to feet just as the late of the popule around, all going to and fro. Perhaps some one would offer to help her in a minute. Sha almost wished Dad was with her. He The Upwa

Home Co Finally, be ye all

"Finally, be ye all ing compassion one as brethren, be nitif—1 Peter ili., 8. "Though this is tour wedding day, Ja and low-spirited an, say it, cross, won't talk to him and che afraid he gets tired He doesn't seem to children?" This was by one friend to amo you for the desire of th

children?" This was by one friend to ano Poor father, poor x dren! No matter when anxieties, what the man had no justificat cloud like that over was a very harmful for himself, destroying peace and happiness speare writes of "or jundice by being pe speare writes of "er jaundice by being pe really doing himself

> CODAY is not there has ever this vast inheritance all these things, and accomplish tomorroy your future": tomor day there has ever I for tomorrow! Sele

cannot but think portant aspect, that and spiritual.

and spiritual.
Children are considered when they are peevlis and are punished, but come home at night "I'm cross, let everyon ye way," and everyon ten wishes that summer and be indicionally. could be judiciously a his case, if it would or a realization of what let would never dream a stranger or a friend the members of his cabugh he loves them

If at times a Victoria self speak and a snap-he looks, a transform

Without thoughtful and love, one and a another, the home can spot on earth that Father meant it to be

Good Work of th Institute Geo. A. Putnam, St

The influence of the stitute in an education felt in every district, much where they have ing courses and stud works, as where they h or improved public brought high-class onte brought high-class ente lecturers to the village tions it is possible to ge terial from local talen stitutes excel in gettin tion of every specialist person in the district has this been helpful monstrations in horticuture, etc. Several I ture, etc. Several I taken advantage of the tension lectures, and a ed through the local se form technical classes for It has been gratifyin, with a
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must li her verest our or always speak world;

Home Courtesy

"Finally, be ye all of one mind, having compassion one of another: love as brothren, be utiful, be courteous."

I Peter iii, 8.

"Though this is the anniversary of our wedding day, Jack is so depressed and low-spirited and yes, I hate to say it, rooss, won't you come in and say it, rooss, won't you come in and the country of the sering me. I am straid be gent cheer him up. I am straid be gent cheer him up. I am straid be gent before him up. I am straid be gent cheer him up. I am straid be gent of the sering me. He doesn't seem to off were the children?" This was the remest had children?" This was the remest made from the sering me. Poor father, poor mother, poor children? No matter what the business anxieties, what the provocation, that man had no justification for casting a cloud like that over that home. It was a very harmful mental attitude for himself, destroying much of the peace and happiness of life. Shake-speace with application of life. Shake-speace with spining the physical harm, see the second of the peace and happiness of life. Shake-speace with second of the secon

The Upward Look

The Upward Look

Home Courtesy

"Finally, be ye all of one mind, having compassion one of another; have as brethers, be pitful, be courteous."

"Peter iii, 8."
"Though this is the anniversary of our wedding day, Jack is so depressed and low-spirited and yes, I hate to say it, cross, won't you come in and list to him and cheer him up. 1 and list to him and cheer him up. 1 and list to him and cheer him up. 1 and list to him and cheer him up. 1 and list to him and cheer him up. 1 and list to him and cheer him up. 1 and list to him and cheer him up. 1 and list to him and cheer him up. 1 and list to him and cheer him up. 1 and list to him and cheer him up. 1 and list to him and cheer him up. 1 and list to him and cheer him up. 1 and list to him and cheer him up. 1 and list to him and cheer him up. 1 and list to him and cheer him up. 1 and list to him and cheer him up. 1 and list to him and the proposition to him the list to he popular with the Institutes will receive less attention, although during the past year they have been as enthusiated as ever in building side-walks, improving public halls, paying to street lamps and drinking foundation of the list to he proposition to him proving public halls, paying the past year they have been as ever in which several Institutes have been doing a much needed work, and one which we hope will not be neglected, is the care and beautifying of country cometeries.

It is almost impossible to outline the scope of the various lines of work undertaken and carried out successfully by the different branches of this organization. In one town, the special



TODAY

TODAY is not the best day that ever will be; it is only the best day there has ever been. It is the heir of countless yesterdays, and from this vast inheritance each may take what he will. Tomorrow will inherit all these things, and the accomplishments of today as well. What you will accomplish tomorrow depends upon the way you take today. "In yourself lies your future": tomorrow must be built today. And, remember, today is the best day there has ever been. So what high hopes we are warranted in holding for tomorrow! Selected

If at times a Victor record could be taken to enable him to hear him-self speak and a snap-shot to see how he looks, a transformation might be

wrought. Without thoughtfulness, courtesy and love, one and all towards one another, the home cannot be the joy-spot on earth that our Heavenly Father meant it to be.—I. H. N.

Good Work of the Women's! Institute

Geo. A. Putnum, Superintendent
The influence of the Women's Institute in an educational way is being feit in every district, perhaps not so much where they have taken up reading courses and study of literary seeks, as where shop have established works, as where shop have established to be the state of t Geo. A. Putnam, Superintendent

ose cannot but think of the more important aspech, that of the mental. Children are considered anuphty when they are pevish and freful, and are punished, but a man cancome home at night with an air of "I'm cross, let overyone keep out of my way," and overyone bees. One often wishes that summary punishment could be juddelously administered in a realization of what he bring him to a realization of what he bring him to a realization of what he bring him to a stranger or a friend-as he does to the members of his own family, although he loves them as much as father can.

If at times a Victor record could be taken to enable him to bear him selections, and a supplication of what he was a lock, a transformation might be rought.

Work Table Satisfactory Height

A woman four feet 10 inches in height will find 33½ inches a satisfac-tory working surface height for kit-chen tables, etc., says a correspond-ence study instructor in home eco-nomics of the University of Wisconsin Extension division. Above this, an addition of half an inch in table height.

Extension division. Acove etals, an addition of half an inch in table beight for each inch of increase in human stature will unually be about right.

Low sinks, tables, from the status of the status will be a status will be a status of the status of the

inverted pan.

\$1.50 Rapid Vacuum Washer \$1.00



The real, original vacuum washer, The washer that will wash anything—ahirt bands, dirty cuffs, collars, anything in three minutes. That is what the RAPID does. For a short time only we will send the RAPID postyou must send this

paid for \$1.00. But you must send the RAPID post-advertisement along with the dollar. Don't miss this chance—it won't be repeated. Send \$1.00 to-day with this ad. If not satisfactory, your money will be returned.

FISHER-FORD MFG. CO.

SWEET PEAS

Should be planted soon; we get ours to bloom from June till the end of September! All Canadian grown seed, all Canadian grown seed, and sans varieties not yet on the marke, sans varieties not yet on the marke. Superb large bloom ble standards. Superb large bloom object of the colors and varieties NOW.

"OTAMOY"
A new variety which is undoubtedly
the finest eating tomato in America. A
very heavy bearer of perfect fruit and
a great drought resister. You will
send posts. Utilization av trial.
Send posts. Utilization wat. for full
particulars, and don't be too late for
our COMPETITIUM. HILLSIDE FRUIT FARM, SIMCOE, ONT (Dept. 8)

Are You At Work

Trying to secure one of these beautiful Silver Sets. The set consists of 26 pieces-6 Knives, 6 Forks, 6 Tea Spoons, 6 Table Spoons, a Butter Knife and Sugar Spoon. It is enclosed in a solid oak chest, fitted with handles and a drawer.

SPLENDID PAY

We will send you this Set, Free of Charge, in return for the work necessary to secure for us twelve new yearly subscriptions. If you knew what this set sold for, and how little effort was necessary on your part to win it, you would think you were being exceptionally well paid for the time that you were spending in securing subscriptions.

To secure this set, you need only take a couple of afternoons, drive around to a number of your friends, and explain the situation to them, and we are sure that at the end of your second afternoon you will have the twelve subscribers.

WE HELP

Hundreds of our readers have been successful in winning premiums. In every case we have helped them in their canvassing by sending sample copies, descriptive literature, and writing letters to the friends who they expect to canvass. We shall be glad to do that for you. Just write us, and we will send you material immediately.

Circulation Department Farm and Dairy, Peterboro, Ont.



Ford

FOR SALE AND WANT ADVERTISING THREE CENTS A WORD, CASH WITH ORDER

BILLY SUNDAY'S MESSAGE—Great oppor-tunity for man or woman. We will pay you \$120 to distribute it in your neigh-borhood. Sixt Lays work. Spare time may be used.—International Bible Press Company, 128 Spadina Ave., Toronto.

WELL DRILLING WELL Own a machine of your own. Cash or easterms. Many styles and sizes for all pur

Write for Circula

Williams Bros., 444 W. State St., Ithaca, N.Y.

A Variety of Oatmeal Breakfast Dishes Oatmeal as a cereal is unexcelled, as it is nutritious, and very easily digested if it is properly cooked. Opinions differ as to correct methods

THE COOK'S CORNER

Conducted by LILLIA' CRUMMY

of making oatmeal porridge. Some think it requires about 15 or 20 minutes' boiling, others let it simply come to a boil,

etc.; but according to medical author-

to medical authority this is wholly indigestible and will produce dyspectual that cereals are seldom over-cooked but rather the re-

seldom over-cooked but rather the re-verse—under-cooked.

It behooves us, therefore, to do our duty to ourselves and others by fol-lowing the advice of physicians who say that oatmeal should be cooked at least three hours, but more preferably five hours. It should be cooked the evening before in a double belier, or at least over bailing water then in the at least over boiling water, then in the morning it simply needs reheating. Below are a few receipes for the pre-paration of the Scotchman's break-fast food. Rolled Oatmeal Porridge-No. 1

rotted Ustmeal Porridge—No. I Take two cups rolled oats and add to one quart boiling water to which has been added one teaspoon salt. Boil in double boiler for five hours. Serve with cream and you have an ideal winter food as it is heat pro-ducing. Some prefer it served with ducing. Some prefer it served w butter and sugar. Rolled Oatmeal Porridge—No. 2

Make porridge according to above directions, add nutmeats and raisins. Serve with cream and sugar. This also makes an excellent dessert for

Perridge can also be made thick, let cool in a mold; then slice and fry in butter or fresh gravy and serve

with some.

Oatmeal Gruel

with some.

Oatmeal Gruel

Have ready in a saucepan one pint of boiling water. Moisten one heaping tablespoon of catmeal with two tablespoons cold water, add asit and stir oatmeal with boiling water. Let it boil solvey one hour at least. The gruel can be sweetened of alroying the state of t

Breakfast Cereal Cakes
Add two beaten eggs, non-third oup
four, and one-quarter teaspoon salt
to three oups cold cooked porridge.
Mix well. Put three tablespoons butter in a trying pan and when hot,
drop the mixture by small spoorfuls
into the pan. Cook carefully until
brown, then turn and brown the other
side: Serve hot with sugar or syrup
for breakfast.
Oameal Pudding

Two cups rolled oats, two cups sour milk, one cup raisins, one tablespoon butter, a very little sugar, pinch of salt, one teaspoon sods. Steam two and a half hours or more. Serve with

De It the Easy Way

Mrs. Arthur McIntosh, Ontario Co., Ont.

Two neighbors on either side of us represent two extreme types in their ideas of home beautification. Both of them use trees, shrubbery and flowers in beautifying their lawns, but they use them in a different

The first home down the road is a blaze of color the whole summer through. The shrubbery is not in evidence so extensive is the use made of gorgeous flowers, geraniums, iage plants, gladiolus, salvia and so forth. The house itself is surrounded with these plants of glowing colour. There are borders on the lawn of the same plants, there are big beds in the centre of the lawn. It is not wery often you find a farm family that is willing to spend as much time of as much money on home beautifica-

as much money on home beautifica-tion as these neighbors do.

Our first neighbor up the road has an entirely different idea. He has a few flowers here and there, but he few flowers here and there, but he depends on permanent shrubs and trees to beautify his home. Around the base of the house are a variety of shrubs which look very beautiful in June and have nothing to attract but their green foliage during the rest of the season. The lawn is bordered with shrubbery and back of the shrubbery are trees. The first neighbor to whom I have referred is not very strong on trees. He says that plants do not grow well in the shade. Both of our neighbors are satisfied.

plants do not grow well in the shade.
Both of our neighbors are satisfied
with their methods of beautifying the
home. We have made our choice, and
are adopting the laster. The gorgeous method of our first neighbor
appealed to us when we first movel
here, but gorgeous appeals are not
here, but gorgeous appeals are not
find the state of the state of the state
for the state of the state of the state
foliage that stays with one longer.
Another consideration is the amount
of work necessary in aring for

work necessary in aring for (Continued on page 17)



Uniform Separator Speed

Any Cream Separator is built to run at a certain definite speed in order to get the best results, and there is sure to be a big loss if not run at the correct speed.

Not one person in a hundred can maintain uniform speed without something to guide him, and nothing is so reliable and satisfactory for the purpose as a

Massey-Harris Simple Speed Indicator

Easily and quickly attached to any make of Cream Separator. Can be set for any speed and is absolutely accurate.

Simple and substantial-nothing to get out of order.

No dial or pointer to watch-the Bell rings if the Separator drops below the proper speed.

Free Circular tells all about it.

Massey-Harris Co., Limited

Head Offices-Toronto, Canada.

BRANCHES AT:-Montreal, Moneton, Winnipeg, Regina, Saskatoo Swift Current, Yorkton, Calgary, Edmonton.

- Agencies Everywhere



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Plain and Practical Designs on New Lines

Parm and Deloy fathers them in these columns are especially propose "Farm and Deloy & Wesser Pall.. There can be relied done to be the latest made and include the meet madern features of the course of the committee and include the meet madern features of the course of the course which was called below to correct to take the second course of the public of the course of the course of the course of all features to Our Falks, for we determ all releves to Palient Dely, Farm and Dure, Feterborn, Our determined to the course of the course of



The morchanis have now had their string containing and summer for any interest the spring for the spring that its spring and granuclai models. We believe the plant of the spring for recorded the spring for recording the spring

We are receiving a goodly number of orders for our new agrics and catalogue, and our readers will do well to send an extra the for it when ordering the form of the send an extra the for it when ordering the form of the for

Do it the Easy Way

(Continued from page 16)

plants. The shrubbery may cost more the first year, but thereafter there is no expense and we note that neighbor No. 1 requires at least 10 times as much labor to care for his lawn and flowers as it takes neighbor No. 2 to care for his lawn and shrub-

bery.
We like flowers as well as shrub-bery, however, and we will have a few scattered here and there throughout scattered here and there throughout our shrubbery borders; nice lit-tle touches of color but not too ob-trusive This method of beautifying trusive This method of beautifying the home is the easy way and, we believe, the best way.

... The Spring Sewing

"Aunt Fanny," Peterboro Co., Ont. What beautifully mild, spring-like days we have had recently! I venture

What beautifully mild, spring-like days we have had recently! I venture to say many of us have realized for the first time that apring is fast approaching, as d were led to think somewhat senting the service of the spring sewing. And the service of the spring sewing has been used to be serviced to the service of the ser

material.

I am always on the watch for new ideas in patterns, even for the simple garments. A new pattern does not represent much outlay, or often one agreement, much outlay, or often one and the second of the s I am always on the watch for new

woman, but it is one that the woman on the farm has been alower to accept than her city sisters. Crepe garments wash easily, dry quickly, do not require ironing and are very attractive in appearance. And there is no reason why we who live in the country should not be an eastly dressed as our city sisters. By being dressed attractively and up-to-date we have more respect for ourselves, and command greater respect from others. Why not, when planning the spring sweing this year, aim to introduce some new styles and materials and see if the results are not favorable. if the results are not favorable.

When washing grante, porcelain or aluminum ware, it should never be scraped. While it may not chip the dirst time, it is bound to be injured before long. A better way is to soak in a weak solution of soid and vater. In fact soda is good for cleaning all greasy dishes greasy dishes.

Sometimes when we are in a hurry Sometimes when we are in a hurry to fill the salt or pepper shaker, we cannot find the little funnel with which to fill them. A good substitute is to cut off the corner of an envelope, then cut off the tip of the corner and proceed to fill the shaker.



FORD STARTER



Exclusive agents wanted to sell the Sandbo "Two Compression" Starter. Differs from all others. Every Ford owner a live prospect. Get my proposition today. Write Dept. F. sell the Sandho "Two Con-pression "Starter. Differs from all others. Every Ford owner a live prospect. Get my proposition today. Write Dept. F. GEO. W. MACNEILL CO

85 Riebmond W., Toros

Prove It Yourself WITHOUT COST



I will send you a "1900" Cravity Washer for 30 days, FREE TRIAL

-not a cent of cost to you-I pay freight. Everywho has body who has used this washer says it is the "best ever" Write me to-day person-ally for booklet and particulars. S. A. MORRIS

Manager "1900" Washer Co. "1900" Gravity 357 Yonge St., Toronto, Can. (Factory, 79-81 Portland St., Toronto)

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Big, Sure Crops depend upon live, vigorous seeds. FOR 30 YEARS

Tested

have been known throughout Canada for the highest quality. Hundreds of farm, garden and flower variaties, shown in our big, new

FREE CATALOGUE Sent for your name and address to

KENNETH MeDONALD & SONS, Limited, Ottawa.

REALLY DELIGHTEU THE DAINTY MINT-COVERED CANDY - COATED

CHEWING GUM

BUSH AND

loes work no othe

It cuts down bushe and does all kinds of ha it is big and strong as strain. Ask your dealer sell CUTAWAY (CLAS

THE CUTAWAY HA (6) MAIN STREET

March 25, 19



CREAM

AMERICAN SEPARATOR CC. BOX 3209 Bainbridge, N. Y.

We say loast and pay most. Money talks. Let ours talk to you. Write NOW.

Belleville Creamery Ltd.

References: Molson's Bank, Belleville

WANTED

CREAM

We are prepared to meet ANY or petition. You should write us. Toronto Creamery Co., Ltd. Church St., TORONTO, Ont.

Better Butter-Bigger Profits!

If you wish your butter to be smooth and uniform, use the

"BRITISH" **Butter Worker**

Adopted by the best dairies in Gt. Britain and Canada. Makes the butter firm-even-consistent all through. Results in better butter and bigger profits i

Sold by dealers everywhere. Three sizes - 14 im., 17 in.

MAXWELLS, LTD. - St. Hary's, Out. 4

CREAM WANTED

Guelph Creamery Co., Guelph, Ont,

WANTED — Position as Buttermaker; years' experience. Best references. Write Box 802, Farm and Dairy, Peterboro, Ont

SITUATION WANTED—Assistant Cheese-maker, 2 years' experience, wants posi-tion. Good references. Apply Box 28, Farm and Dairy, Peterboro, Out.

EXPERIENCED YOUNG MAN wants posi-tion in cheese factory as second man Write Box 612, Farm and Dairy, Feter-boro, Ont.

BUTTERMAKER wants position as me ager or first in up-to-date creamer seren years' experience. Apply stati wages paid to Box 1406, Farm a Dairy, Peterboro, Ont.

Variations in Cream Tests C. H. ECCLES, MISSOURI EXPERIMENTAL STATION

One of the most common causes for dissatisfaction in selling cream is the variation in the test. A former naturally thinks when the cream is from the same cows, fed the same ration, milked by the same man, and when the same separator is used, that the test or pc. cent. of fat in the cream should remain the same. When sudden variations occur in the test he feels that the test is incorrect. It is true errors are often made in making the test, especially in taking the samples, but variations constantly occur in cream tests that are not due to this cause but to conditions under which the milk is separated. It is impossible to run a separator under farm conditions without having variations in the test of the cream occur and in fact if the cream buyer should always give the same cream test, it would be more suspicious of dis-honesty than when it varies slightly. Our experiments indicate the following to be the common causes of these variations:
1. Variations in the speed of the

separator. Variation in temperature of milk

separated 3. Rate Rate the milk flows into the machine. 4. Amount of water or skim milk

ased in flushing out the bowl.

5. Change in the richness of the milk separated.

6. Adjustment of the cream screw.

Speed

Change in the speed of the separ-Change in the speed of the separator is the most common cause of variations in the per cent. of fat in cream. The greater the speed of the separator, the smaller the amount of cream and the higher the per cent. of at. A separator when run at three-quarters of the regular speed may dequarters of the regular spece hay ob-liver cream testing as much as 10 per cost. less fat than when the same machine is run at the regular speed. When run at the lower speed, a larger quantity of cream is secured and it always tests lower. A variation in always tests lower. speed has a much greater effect upon some machines than upon others. Speed also makes a much greater variation in the test of the cream when the separator is set to deliver thick cream than is found when this cream is separated. If the separator is adjusted to deliver cream testing 25 per cent. at regular speed, the test will perhaps not be more than two per cent. less if the machine be run only three quarters speed of the re-oular speed, while if the cream screw be so adjusted that the machine run at full speed delivers cream testing 40 per cent., at the three-quarter speed the test may be from seven to eight per cent. less. This variation due to per cent. less. This variation due to speed is not caused by a difference in the amount of fat remaining in the skim milk, but by the propertion of the whole that is taken out as cream and as skim milk. In other words, at a lower speed more skim milk goes into the cream.

Variations in Temperature of Milk The temperature of the milk separated varies on the farm to some extent from day to day. While there is a great deal of difference with different makes of separators in regard to the effect of temperature on the test the rule is that the colder the milk the smaller the amount of cream and the higher the test. Variations due the higher the test. Variations due to temperature of the milk undoubted-ly are not as great as the variation due to the speed. If cream tests 30 per cent. when the milk is separated per cent, when the milk is geparated at 90 degrees, it may from some machines test as high as 40 per cent, when separated at 70 degrees. Under average conditions, however, on the farm cream will not vary more than 3 or 4 per cent. of fat due to the

changes of temperature that are apt to be found. Separating the milk too cold also results in a loss of cream in the skim milk, but this is not the cause of the variations in the per cent of fat in the cream.

Rate the Milk Flows Into the Machine Ordinarily the rate of inflow into the hand separator is regulated by a float and does not vary to any great extent. Occasionally, however, the faucet is not fully opened and the inflow is, for this reason, less than usual. At times the supply can is kept nearly full during most of the time the machine is running and at other times allowed to be nearly other times allowed to be nearly empty. This may cause a smull variation in the test. When the supply can is kept nearly full there is more pressure and more milk flows into the bowl. If less than the regular quantity flows into the bowl, the tendency is to increase the per cent. of fat in the cream. A difference may be made of from I to 2 per cent. with most separators by changing the level of the milk in the supply can. Richness of Milk Separated

The per cent. of fat in the milk separated has a marked effect on the per cent, of fat in the cream. It is per cent. of fat in the cream. a common impression that more cream is obtained from milk rich in fat than from that poor in fat, but such is not the case. The richness of such is not the case. the milk separated affects the quality but not the quantity of cream and practically the same amount is ob-tained whether the milk has a high or low per cent. of fat. It is a well-known fact that the milk of an entire herd may vary in butter fat from one day to another due to weather or ex-citement, and as the cow advances in the period of lactation the richness of the milk increases. A number of the milk increases always means a fresh cows almost always means a fresh cows almost always means a fresh cows always means a fresh compared to the state of the state o in the richness of the milk alone are sufficient to cause variations in the test of cream that will attract at-

tention. The per cent of fat in milk in general is highest in autumn and early winter, and lowest in the spring and early summer. This is a change this the crean test is generally highest during the fall and winter and drops to the lowest point in the spring and early summer. This is a change and early summer. This is a change and early summer. This is a change that is almost certain to be experi-enced by all cream sellers. If the milk of a herd of cows whose average test is 4 per cent. is separated so that the cream tests 40 per cent., and the milk suddenly drops to 3.5 per cent. of fat, as will often occur, the cream will then test only 35 per cent. The amount of fat lost in the skim milk is not affected to any appreciable ex-tent by the richness of the milk separated

Flushing the Bowl

One of the most common causes of variation in the test of cream from the farm separator is a variation in the amount of water or skim milk used for flushing out the cream at the end of the run. It is apparent that especially where a small quantity of cream is separated, a marked differ-ence in the richness of the cream may be made by a change in the amount of water or shim milk added. It is an easy matter to vary a pint or more in the water or skim milk used, and this alone may easily change the percent. of fat in the cream from 2 to 5 per cent.

Adjustment of Cream Screw

The per cent. of fat in the cream may be readily changed, as is well known, by adjusting the cream screw. The cream screw, however, is not changed very frequently, and it is not the common cause of the variations at the test which constantly occur and Weight 660 pounds 24-inch dishs

PASTEURIZER One 300-Gallon Wiza

or Pasteurizer, coppe Box No. 452, Farm and I

EGGS. B LIVE PO Bill your shipments i Egg Cases and Poul The DAV

Established 1854 TO

RIDER AGENT We she DO NOT ONE CE HYSLOP BRO

No. 1 Red Clover No. 2 Red Clover No. I Alsike Clove No. 2 Alsike Clove No. 1 Alfalfa (No. 2 Timothy (Grades No. 1 for purity No. 3 Timothy ...

Terms cash with extra, at 25c each ders east of Manit over we pay the guarantee seeds ship back at our

Ask for samples

TODD & Seed Merc STOUFFVILLE

International Harvester **Cream Separators**



66 A FTER you put in a cream separator and once experience the relief it gives and the work it saves, you will never go back to the old way of handling milk and cream." So says a farmer's wife who has managed a farm dairy for over twenty years, and who now has an IHC cream

I H C cream separators— Dairymaid, Lily, or Primrose fill the bill completely.

—fill the bill completely. They turn easily. They skim closely—leaving barely a drop of cream in a galon of inflict the strong frame with open sanitary base; the quiet easy-cuning gears oiled by an efficient splash system; and the Jean, classy appearance which make I H C separators such favorites wherever they are used.

they are used.

I H C separators can be furnished with pulley equipment for the use of power. Belted to a small H C engine, or to a line shaft, they give you the very best cream separating outfit it is possible to buy.

An IH C cream separator gives you the most cream, saves you the most work and lasts the longest time. See the I H C local agent who handles either Dairymaid, Lily or Primrose cream separators, or write to us for ful. Information.

International Harvester Company of Canada, Ltd Loudon, Out. Quebec, P. Q.



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BUSH AND BOG PLOW

does work no other machine can do. It cuts down bushes, demolishes bogs, and does all kinds of hard plowing and disking. It is big and strong and with stands territic strain. Ask your dealer about it. If he doesn't sell CUTAWAY (CLARK) implements, write us THE CUTAWAY HARROW COMPANY
Make of the original CLARK dish hurrows and plows
(8) MAIN STREET HIGGANUM, CONN.



PASTEURIZER FOR SALE

One 300-Gallon Wizard Cream Ripener or Pasteurizer, copper-covered, in good condition. Will sell at Bargain. Apply Box No. 452, Farm and Dairy, Peterbers, Out.

EGGS. BUTTER LIVE POULTRY Bill your shipments to us by freight, Advise us by postal and we will attend to the rest promptly.

Egg Cases and Poultry Coops supplied free.

The DAVIES Co. Established 1854 TORONTO, ONT.

RIDER AGENTS WANTED



Clover Seeds

Government Standard

No. 1 Red Clover	
No. 2 Red Clover	12.00
No. I Alsike Clover	
No. 2 Alsike Clover	11.00
No. 1 Alfalfa (Northern)	12.00
No. 2 Timothy	4.75
(Grades No. 1 for purity and germin	nation)
No. 3 Timothy	84.25
Terms cash with order.	Bags

ders east of Manitoba of \$25 or over we pay the freight. We guarantee seeds to satisfy or ship back at our expense.

Ask for samples if necessary.

TODD & COOK Seed Merchants

STOUFFVILLE - ONTARIO

which causes so much rriction be ween the buyer and seller of cream. Testing Cream on the Farm

While the farmer selling cream must expect to experience reasonable variations in the per cent. of fat in the cream sold, he is also entitled to have his cream tested accurately and nave his cream tested accurately and carefully by a man who thoroughly understands how it should be done, and who has the proper appliances at hand. There is no reason why the farmer should not satisfy himself re-garding his test. It is an easy mat-ter for any ferroman and the same and the same ter for any ferroman and the same and the same and the same ter for any ferroman and the same and ter for any farmer to test cream approximately correctly, while it would not be easy for him to make a test sufficiently accurate, to serve as a basis for buying or selling without purchasing a small scale which might purchasing a small scale which might be a greater expense than he would care to bear. The farmer, by use of an ordinary Babcock testing machine and by measuring the sample of cream into the test bottle with the same pipette as is used for measuring milk can make a test of his cream that will serve to satisfy him regarding the accuracy of the test he is receiving from the cream buyer. Feed Does Not Affect Test of Cream

It seems reasonable to expect that the richness of milk could be influenced by the character of the feed given the animal. However, it has been thoroughly proved that for all practical purposes it is impossible. The richness of a cow's milk depends pon inheritance and can no more be changed permanently by the feed than can the color of her hair. If the milk cannot be changed in richness by the feed, it is clearly impossible for cream to be influenced in this way.-Circular No. 37.

Progress at Scotsburn Creamery

The annual meeting of the Scots-burn Creamery Co., Ltd., Scotsburn, N.S., was held on March 10th, and was the most encouraging yet held. The business of the year am-279,000 pounds of butter, of a value of about \$74,000; of this amount over \$66,000 was paid for cream. The creamer was again improved and enlarged during the year, a new sep-tic tank put in, and a new system of cold storage of a capacity of 1,200 boxes of butter and a separate room for printing butter, etc. Prospects for the coming year are for a still greatyr increase, and the probabilities are that the creamery will be making over 1,000,000 pounds a year inside

of five years more.

The Dairy Record Centre in connection with the creamery is doing a mood work, and is being more appreciated by the patrons every year.

Dairy Cattle Breeding at Macdonald College

(Continued from page 5) extent, and were a credit to the

French Canadians Some French-Canadian heifers, one a two-year-old with a record of as a two-year-old with a record of over 10,000 pounds of milk in a year, and a little later a nice bunch of heifer calves, showed that this bred also was well represented in the herd. The heifers of this bred also are bred somewhat earlier than the Ayr-

Three steers, one a Shorthorn and two Angus grades, showed to good advantage. The Shor horn, two years old last September, weighed 1,500 pounds. They were a nice lot, Four pure-bred Shorthorn calves raced around the ring like thorough-breds. They were the milking type, and a wempising lot.

and a promising lot.

Macdonald College is to be congratulated on the fine work it is doing in its live stock department.

Roofing Prices Advance April 15th -

So great is the number of Canadian farmers that have been placing their orders for sheet metal building materials under our cooperative plan, that we only have a limited tonnage left, which we can sell at these special prices. We are, however, advising our customers that we will accept all orders placed up to April 15th at the low price we are offering.

Remember, April 15th, three weeks from to-day, will be the last day upon which we will accept orders at our special price, and if you contemplate the erection of any new buildings or re-roofing your barn, Write us at Once, and send us rough sketch of the work you propose doing, that we may submit you figures, showing the economy and saving that can be made by the use of our line of Sarnia better building materials, which

Corrugated Iron, Barn Shingles, "Art Kraft" House Shingles, Metal Sidings, V-Crimped Roofing, Eave Trough, Conductor Pipe, Valleys, Skylights, Ventilators, Tanks, etc.

\$25.00 to \$50.00 Saved Every Farmer

WE guarantee the galvanized iron used in the manufacture of Sarnia metal products to be equal to that of any iron used by any manufacturer in Canada, in the manufacture of similar lines of roofing products, which they are selling to the farmer, at the time of this advertisement, at an advance of 25 to 50 per cent, above the prices we are quoting. Please remember that all Sarnia-Metal Products are made from galvanized Iron of a quality specified by the organized farmers themselves.

A Vital Question

If approached by another company or its agent in ar endeavor to sell you Corrugated Iron, etc., simply ask them what they would supply you the same material for, if it were not for the Sarnia Metal Products Co., and its cooperative plan.

We want your order whether it amounts to \$5.00 or \$500. All we ask is an opportunity of filling one order for you, that our products may prove themselves equal to the claims we have made for them.

> Write us at once for special literature and any information you may require

The Sarnia Metal Products Company

SARNIA CANADA

Maple Stock Farm

4th AUCTION OF 45 HEAD OF

PURE-BRED



WEDNESDAY, APRIL 7, 1915

This is the best lot we have ever offered. Nearly all 2 and 3-year-old heifers of Abbekirk breeding (a number of them daughters of some of those good cows we sold at our last sale), either fresh or in calf to Woodland Schuiling Sarcastic, 1st prize 2-year-old bull at Toronto Exhibition, 1913.

There is only one old cow in the bunch and all are sound and in prime condition, ready for the show ring.

It's your opportunity to get some good young stuff at your own price. Every animal will be sold.

Sale at a o'clock, under cover. Terms-Cash or 6 months at 7% on bankable paper. All trains met at Waterford on morning of sale.

Everybody is welcome. We'll try and use you well.



Catalogues will be ready last of March

COL. WELBY ALMAS, Auctioneer

WILLIAM SLAGHT, Proprietor BEALTON, ONT.

REGISTERED HOLSTEINS FOR BALE

Seven Bulls from 10 to 14 months old, at bargain prices. Also four grand-daughters of Pontiac Korndyke, 2 years old, due to freshen shortly, and this year's entire crop of Bull and Heifer Calves.

WM. HIGGINSON - INKERMAN, ONT.

OUR BIG HERD BULL for SALE per day. Write today for photographs and prices. C. C. HANSON, DIXVILLE, QUE.

VILLA VIEW High-testing HOLSTEINS

Lyndale Holsteins

Mention Farm and Dairy when writing

HET LOO FARMS

VAUDREUIL, QUE.

Les us quote you prices on Hotfer Calvas from à ta 8 months old, also high bred good in-dividual Bull Calvas. Dams with reconsistroms 28 lbs. to 50 lbs. in 7 days. We are short of reom and will price them low if taken soon. Write or even and san filem. DR. L. do L. HARWOOD, Prop.

SOLD OUT OF BULLS FIT FOR SPRING SERVICE we will now offer a by our new herd size, Mercona Positace of Manor, Ills dam is a promising youngw, bred by a grandson of lift Admiral Orarby. This self is about four months old and weighs well over 300 hb. Must sell to make room. Send for photo and pedigree ORIN ADDRESON OF THE R. R. No. 1 OFFORD MILLS. ONE.

THE MAPLES HOLSTEIN HERD All closely related to the R.O.P. 5-yr. Calamity 2nd-45.714 lbs. milk and 566 lbs. latter -25.8 lbs. as a 4-yr.-old -3 bull calves for greering offered as present—one a half betcher to Durcheon one from a 18th. 5-yr. better hadding? They are all splendid chaps. Write or come and look them over WALBURN RUYERS.



Get a Sire of Korndyke Blood

W. A. McELROY, HILLSIDE FARM, CHESTERVILLE, ONT.

HOLSTEIN-FRIESIAN NEWS

TESTS AND RETESTS

March 25, 19



GILSON M E YORK ROAD ... BEULAH FARM WHIT

GUERNSE

Highland View Dair

MARKET REVIEW AND FORECAST

MARKET REVIEW AND FORECAST

Townson, Another, March 22.—Business men like a group apposition. They say it is good as roay as possible. They say it is good as roay as possible. They say it is good as roay as possible. The say it is good as roay as possible. The say it is good as road as the say it is true that trade in improve the control of the say it is true that trade in improve the control of the say it is true that trade in improve the control of the say it is true that trade in improve the control of the say it is true that trade in improve the control of the say it is true that the say it is true to true to sitular situation in the say to make the say it is true to say it is true to say the winds of the winds of saint as shown for changes of the winds of saint and the winds of saint and the saint to the poople. The farmer's market that in normal prace the burney of the winds total and the winds of saint and the winds of the saint the sa

I YORK ROAD GULPH, CAN.

BUULAH FARM WHITE WYANDOTTES—
Americo's greatest laying strain, winLaying Competitions. Hatching Regatwo and three dollars per seiting. Catalogue free, Melbood Rices, Box D. Richory

GUERNSEY BULLS

A few choice young animals for safe,
Bull Orgington. Regs for hatchins.
Wite for prices.

Wite for prices.

Wite for prices.

R. BLACK

Highland View Dairy, Amhersi, N. S.

Highland View Dairy, Amhersi, N. S.

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Editor, Farm and Dairy.—I am advised
through Box and Surface

A new FOURYERACID RECORD

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A new FOURYERACID RECORD

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Holsteins and Yorkshires

87 buys a pig, 8 weeks old, either sex, from the prize-winning sow, Woodroffe Victoria. Litter of 9. We are also offering 2 choice Young Bulls. Priced low for quick sale.

BRUCE T. GRIER

SEED OATS

THOS. COSH - BOBCAYGEON, ONT.

Prominent Holstein Breeders And Their Offerings At Belleville, April 1st

The "Glen Wood Home"

Contribution ==

ALL FEMALES—1 Mature
5 2-yr.-olds
TO

ALL BRED (All in Call)

SIR HENGERVELD RAG APPLE, a son of the \$25,000 RAG APPLE KORN.

The 5 helifers are gd-daughters of the famous old Pontiae Korndyke.

Mark these females in your catalogue. They carry the blood that is bringing money these days.

W. R. Shield & Son, "Glen Wood" Mount Pleasant, Ont.

Belleville Sale of Holsteins

The undersigned being overstocked are offering for sale five head of first-class stock. Billy Segis Walker Pietertje is a straight, all-round bull ready for service. May Hengerveld Darkness, grand daughter of the celebrated May Echo. Our whole consignment is number one. Be sure and attend the sale, April 1st, 1915. Get

CHAS. H. SAYLOR & PETER CAVE BLOOMFIELD, ONT.

F. R. MALLORY, Lawn Crest Farm OFFERS

Pontiac May Pietertje, 8 months, Ready for Service

He is a son of Pontiao Hermes and a gd.-son of Hengerveid De Kol on sire's side. His dam is May Echo Pietertie, a daughter of the greatMay Echo. He has the blood and can win at the Fairs—mark him.

Countess Mollie Baron-

A gd.-daughter of Count Gerbena-a brother of the world's champion 2-yr.-

F. R. MALLORY, LAWN Crest FRANKFORD

Buy The Good Ones

Holsteins from the Belleville District The Breeding Ground of Champions

REGIS VILLA FARM

is offering five head at the great

Holstein Sale at Belleville, April 1st

1. TERNION PRIBE DE ROI--dired by Count Sebo De Kol, sire of Max Echo. Tremton Pride De Kol has a record of 2012 lbs. better in Fdays and core 13,000 he milt in 8; months in R.O.P. 2 miltings and the producer having a daughter that save 13,000 he molt in 1 year, this is bred to Sara Jowel Hengerred's not, not of the best bred in 1 year, this is bred to Sara Jowel Hengerred's not, one of the best bred De Kol, sired by Lord Lgtton, sire of Sterling Queen, having a core of 13,000 he milt and 502 lbs. butter in 11 months, also 3 other R.O.W. and the Pricoses Pauline Patricks in bred to Sir Collision in Harton Maida, sond them. The pricose Pauline Patricks in bred to Sir Collision in Harton Maida, sond them. The pricose Pauline Patricks in bred to Sir Collision in Harton Maida, sond them.

reshen in May.

1 and 4. MOLLY FAYNE and ANNA MARIE CALAMITY, yearling helices,
complete the blood of such ancestors as Prince Posch Galamity, Calamity
Julie Group and Calamity, Calamity
Julie Ben 660RGE KFYES, a yearling bull of the well known Keres family
of line type and good breeding

LOOK THESE OVER AT THE SALE. SEE CATALOGUES.

We have also for sale privately four Young Bulls fit for service, one a son of Tranton Pride De Kel and others richly bred from our own stock. Write for particulars.

G. A. KINGSTON - CAMPBELLFORD



15 TO PEB. 18

23928, 2y. 9m. L. fat, 17.63 lbs.

20335, 2y, 11m. fat, 16.21 lbs.

Kol. 21610, 2y.

ity, 22672, 2y. 8 lbs. fat, 12.73 19681, 2y. 9m. fat, 11.64 lbs.

Class J. Jm. 7d.: 394.1 67 lbs. butter.

2y. 2m. 13d.; Int. 18.40 lbs.

n. 13d : 1.730.4

You will not be inconvenienced by our fire

When war was declared we hung up the "Business as Usual" sign. That sign was burned in the fire which swept over our Fertilizer Plant last Saturday. But we have hung up another sign just like it-in another building that we secured before the flames of the old building had died out. Within another few hours we had arranged for the purchase of sufficient raw materials-including Potash-to commence at once the replacement of the Fertilizer stock that was destroyed.

So the farmers of Canada will not suffer the slightest inconvenience from the misfortune that befell us. Shipments can be made almost immediately. And it will be the same superior Fertilizer that the name GUNN'S has always stood for. Fortunately our resources and organization are so strong that although we may suffer some temporary inconvenienceand even monetary loss-in counteracting this setback, we are able to make this promise-

"Business as Usual" and Quality as usual, in spite of the fire

GUNNS LIMITED, WEST TORONTO

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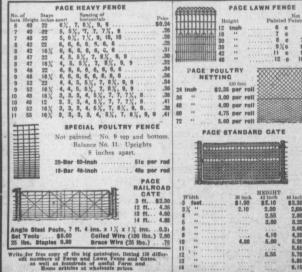
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PAGE FENCES AND GATES WEAR BEST-SOLD DIRECT



Here are the lowest prices on the bestwearing Fence and Gates. More PAGE Fence and Gates are sold than any other single brand. So our

manufacturing cost must be low. PAGE Fence and Gates are sold DIRECT

from factory to farm (freight paid.) So our selling cost must be low. PAGE Fence and Gates are made of the

very best materials-by the pioneer fencemakers-with 23 years' experience in building fine fence. Every part of every PAGE Fence and Gate is made full size. Even our Farm Fence locks are all No. 9 wire. So that PAGE Fence and Gates last a lifetime.

For these reasons PAGE FENCES and GATES are the BEST and CHEAPEST to use.

Mail your order, with cash, cheque, bank draft, Pestal or express order, to the nearest PAGE BRANCH. Get immediate Shipment from near-by stocks—freight paid on \$10 or over.

Page Wire Fence Co. Limited

1137 King St. West TORONTO 87 Church Street WALKERVILLE 39 Dock St. ST. JOHN, N.B. 505 Notre Dame St. West MONTREAL

5, 1915

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RVILLE St. N.B.



The First of the 1915 Crop of Lambs.

one of Our Folks, Mr. J. Herriot, Souris, Man., sends Farm and Dairy this illustration with the information that he had 21 lambs born in January of this year

ONTARIO RENFREW CO., ONT.

REFERENCE CO., ONT.

COBDEN, MARCH 17—5 spirited debate on the relative merits of beef and dairy cattle as money makers was hold on Marchael and the second of the second

LENKOX AND ADDISTOR OF CO. ONT.

SILLEWILLE. Feb. 3—A joint measure of the Adolphustown and South Fredricksbury Farmers' Glube was held in the
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LARGE

Improved Yorkshires Boars and Sows. from 8 weeks to 8 months old, sows in pig. Prices reasonable. Write M. J. DAVIS . WOODSTOCK, ONT.

We have only a limited supply of those Al Quality Henry Boker Razors.

They are being offered for One New Subscription to

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PERCHERONS, BELGIANS. SHIRES, CLYDESDALES

TALLON'S and MARES. We are offering our entire stock of imported horses at barn, and have not time or a sew as a reformation and building a large horse state, and have not time or a sew as a reformation and building a large horse atthough it would be profitable to do so, as you know there will be season, at though it would be profitable to do so, as you know there will be season, at the season and beighten in another year. If you want a bargain come and and champion, winners. Every stallion a good tool erter our best set, first prise and champion winners. Every stallion a good tool erter our best set, first prise and champion winners. Every stallion as good tool erter our best set, first prise and champion winners. Every stallion as good tool erter our best set, first prise and champion winners. Every stallion as good tool erter our best set, first prise and office of the company of the season of t

KORNGOLD IMPROVED ENGLISH YORKSHIRES Young Sows to farrow in April and May. Young Bears and Bows, months old. Will book orders for younger stock.

F. J. McCALPIN, Korngold Stock Farm, GANANOQUE, ONT.



AYRSHIRES

Winners in the show ring and dairy teets. Animals of both sease, Imported Long Distance Phone is house. Long Distance Phone is house. Imported and Home-Bred. are of the choicest breeding of good type and have found to the control of the control o



HOLSTEINS

"Clover Bar" Sires from R.O.M. and K.O.P. Dams

We have several choice ones 3 to 10 months old from the splended size. Court Mercede Curmby (after by Paladin Ormsby). All are out of 8.0 M. or E.º.P. dame, with records as byr-oids of 215 bis butter-2-yr-oid '13 butter-m. dure owns; 1450 lbs mill and 60 lbs butter. A couple of these sizes are supported by the service. They are nice follows and priced reasonable. Write or come and see P. SMITH ER. 3 STRATFORD, ONT.

LAKEVIEW STOCK FARMS, BRONTE
Branders of High Class Holsteins, offer for all enous choics Voing Stock of Noth Not.

F. OSLER, Pres. T. A. DAWSON, Mr.

W. A. CLEMONS, See'y H.-F Association

THE LYNDEN HERD If HE LYNDEN HERD High Testing Holateins I am offering 5 5yr-old Cows with records as follows: 1 a 71:8b. 4yr-old, 1 a 13:4b. 5yr-old, due daughter of the property of the follows daughter of Evergreen March, 1 Bull fit for service, 1 eight mot. old with a 2.5b. bd. am and Bull Culves. Basis-faction guaranteed. Write or come and say them. S. LEMON. LYNDE, ONT.

Registered Holsteins Headed by "Pontiao Sir Inka Korn-dyke," a grandson of "Pontiae Korn-dyke" and "Hengerveld De Ko!" Our special offering, 5 and 5 yr old hesters, young cows, ynarling bulls, and hester and buil oatros. Write for prices. W. W. (BORGE, MOSSLEY, R.R. J. ONT.

Home Farm Holsteins

Present offering-1 Bull, 1 mos. old.; 1 Heffer Call, 7 mos. old, in good con-dition. For particulars and breeding write, or better come and see them. Will meet you at Tavistock by appoint-NOAM S. BENDER, TAVISTOCK, ONT.

Avondale Farm

Still breaking records with three over 30 lb, over this season, one over 37 in 7 days and 10 12 30 days and 10 10 days and 10 10 days and 10 day

A. C. HARDY, Prop. BROCKY!LLE, Ont.

N.B. Do not forget our Great Sale, MAY 26th.

THE BLOOD OF CHAMPIONS I am offering a 12 months Buil from the 2-yr. all months old buil, by a full brother of the recent 2-yr old champion Scherisad Faforit, 80.65. Will also sell a number of tested cows, helfers and buil calves. HadenSyllak, ONT.

FOR SALE Grandson of King Segis

And son of Sir Lyons Hengerveld Segis, the \$1,500 North Toronto Bull. The dam of this calf, Aggie Emily De Kol, has an unofficial record of 10,200 lbs. as a heifer in one year. Her dam has an official R.O.P. record of 14,376 lbs. milk in

This is a most desirable animal and will sell for \$55. Write

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Sawing Wood For Less Than One Cent a Cord

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Becruse of its capacity, time after time the Sizzell' Disk Harrew has done DOUBLE THE WORK' in field competition against all, competitors, under the same con-

The special shape of the "Bissell" pintes cause them to enter the ground naturally, and TURN THE BOIL EASILY. Steel

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The seast is placed back on the Harrow so that the weight of the driver when riding balances over the frame and REMOVES NEON WEEDSHY. The hitch is well back, MAKING LIGHT. DRAUGHT.

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Search the Continent ever and you will not find a Harrow with
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SYDNEY BASIC SLAG-

Our entire output of this Fertilizer for Spring, 1915, has now been sold and we cannot arrange further agencies unless for Fall delivery. Where we have no local agent we will supply farmers who wish to get an experience of Basic Slag this season with ton lots for \$20.00, delivered free at any Ontario station, cash with order.

Descriptive literature and all further particulars on application to

THE CROSS FERTILIZER CO., LIMITED SYDNEY, NOVA SCOTIA

400 BUSHELS WISCONSIN NO. 7 All my own growing and every ear 85%. Admitted as our best corn for slage-my seed won bit at Chalabam 850%. In good bags, freight paid at \$330 per you.—eash with order. Better rate Culte c'in quantities P. M. McRINLAY R. R. F., TECUMBER, ONT.

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Grimm Alfalfa Seed Grown in Alberta. The hardlest known Alfalfa. Practically no danger of winter killing with this seed. Write for our book on Alfalfa and prices and sample.

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