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Club Five Hundred Head Prince Edward County Breeders are making for dially treated and driven free of charge among the CLARENCE MALLORY

Secy .- Treas. BLOOMFIELD, Ont.

CANADA'S GREATEST SEED HOUSE

STEELE BRIGGS SEEDS .

THE BEST BY EVERY TEST

FOR SALE BY RELIABLE MERCHANTS EVERY WHERE THROUGHOUT CANADA

The Feeding of Burkeyje Hengerveld

The Details of the Ration of this 20,000 Pound Cow and rome Feeding Ideas by her Owner, Mr. Joseph O'Reilley, Ennismore, Ont.

is the greatest."

These words were spoken by a well known auctioneer before he commenced selling a high record Holstein cow. I often think as I feed and care for those noble animals what a great part they play in the feeding of mankind.

part they play in the reeding of man-kind.

Truly a 20,000-pound cow doesn't happen, but with breeding, feeding and care we have brought them to the high standard they hold to-day. I be-night standard they hold to-day. I be-the compared to the standard they have been to the compared to the standard they are to the the dam about 12 who leave in with the dam about 12 who leave in with the dam about 12 who was milk, three times daily (always, new milk, three times daily (always, new milk, three times daily (always, new milk, three times daily (always, here pure to the standard they will, the standard they will, the standard they will, the standard they will, and manger saved and clean, and mangers sweet and clean.

RAND and noble brute.—Of all dely she did not freshen just in time is the greatest.

These words were speken by a well known auctioneer before he commenced selling a high record Holstein sw. I often think as I feed and care has been been as the play in the feeding of manind. Truly a 20,000-pound cow doean't appen, but with breeding, feeding feeding the play in the feeding feeding feeding the play in the feeding of manind. Truly a 20,000-pound cow doean't appen, but with breeding, feeding feeding feeding feeding feeding the play in the feeding of manind. Truly a 20,000-pound cow doean't appen, but with breeding, feeding fee



Burkeyje Hengerveld, 9906, the First Feur-year-old Cow in Canada to Produce over 20,000 lbs. of Milk.

for official record for one year is 20,177 lbs. of milk and 782 lbs. of butter. How as she fed? Read the article adjoining. Her owner, Mr. Joseph O'Reilley, Ennis-more, Ont. tells all about her Fatients.

We a year.

We don't believe in breeding the Meriers to freshen much before they have two years and three menths old, are two years and three menths old, are two years are extra large and strong, unless they are extra large and strong, when they may freshen a little

when they may freshen a little younger.

In fitting, a cow for a large record we feed from 12 to 16 lbs. of a mixture of bran, ground oats and oil meal, depending on the cow and the length of time dry. Ensilage, roots and have a seen and hay are the forms of roughage and hay are the forms of roughage and hay are the forms of the cow of the

delicate calves, and at a year old have—us about 100 lbs. of milk daily in four good growthy animals with any milkings; her best day's milk being amount of constitution.—Then when 104.5 lbs. In a cow giving upwards the time comes later on they are of 100 lbs. or over you are working capable of consuming large quantities with a very delicate machine, and any of feed which is so necessary to prochange, if absolutely necessary, must duce a 20,000-pound cow, or over, in be made very gradually.

Items of Interest

G. W. Mann, Peterboro Co., Ont., is a Shorthorn man. Under an illustration of his barn, which appeared in a recent issue of Farm and Dairy, he was mentioned as, a breeder of Holsteins, being confused with some of his relatives in the vicinity. As Mr. Mann has no desire to be classified among the fanciers of black and fied among the fanciers of black and whites, we are glad to make this correlations. whites, we are glad to make this cor-

Where may good seed be obtained for 1915? The Canadian Seed Growfor 1915? The Canadian Seed Growers' Association hase just issued a catalogue of registered and improved seed produced in 1914 and of the sale. The Canadian Seed Grout for sale. The Canadian Seed Growth of the sale in the

Vol. XX

Bean

HE be family of that fami plants. Th den bean, p and animals a century a village of M New York s the first be grown was 25 or 30 ye Pea Bean. dará variety price, there grown, such Marrow Fat.

Bean grov counties of are other se now Luccess suited to thi States, lie w drift of the a rule, are r and organic that a crop v the air, shou supply of ph

Beans have loamy soil, a deau Harbor out of beans. found that th clay soil, pro heavier-land be fall plowe loamy nature Sod land with yard manure beans. The crop may, he ease, and if practised. Bean groun

be kept in a May in order and to retain spring, the plowing, then good conditio for seed show disease. The three pecks to may take plac The ground is they are plan letting only t drill, making gerveld w and some

18, 1915

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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 cuitivators of the land. -Lord Chatham.

Vol. XXXIV FOR THE WEEK ENDING MARCH 18, 1915

Bean Growing in Ontario is Profitable

A Practical Talk by a Practical and Successful Grower MR. J. O. LAIRD, BLENHEIM, ONT.

HE bean is a member of the leguminosae family, and is one of a number of members of that family which are very important economic plants. The field, and to some extent the garden bean, provide nourishing food for both mer and animals. Beans were first grown over half a century ago, near what is now known as the village of Morpeth. The seed was imported from New York state by Mr. Collins Handy, who grew the first beans in Ontario. The variety first grown was known as the Medium Bean, but for 25 or 30 years the staple variety has been the Pea Bean. Although the l'ea Bean is the standará variety and commands the most uniform price, there are a number of fancy varieties grown, such as the Yellow Eye, Turtle Soup, and Marrow Fat.

Bean growing has been confined mostly to the counties of Kent and Elgin, but no doubt there are other sections where they could be and are now Euccessfully grown. The sections most suited to this crop, both in Canada and United States, lie within the area covered by the glacial drift of the great ice age, the soils of which, as a rule, are rich in lime, potash, phosphoric acid, and organic materials. It is reasonable, then, that a crop which is able to gather nitrogen from the air, should do well upon soils containing a supply of phosphoric acid and potash.

The Choice of Soil

Beans have been mos extensively grown on a loamy soil, and it is the tion lying near Rondeau Harbor that the most money has been made out of beans. However, of late years it has been found that they will do well even on a fairly heavy clay soil, providing the land is well drained. The heavier land that is intended for beans, should be fall plowed, but the land that is of a more loamy nature is as well not plowed until spring, Sod land with a coating of 10 or 12 loads of farmvard manure has wen most frequently used for beans. The use of manure just before the bean crop may, however, continue or produce a disease, and if so, some other system should be practised.

Bean ground that has been fall plowed should be kept in a fine state of tilth during April and May in order to kill as many weeds as possible and to retain the soil moisture. If plowed in the spring, the land should be rolled soon after plowing, then disked and harrowed and kept in good condition until planting. The beans used for seed should be even in size and free from disease. The amount used for planting is from three pecks to the bushel per acre. The planting may take place between May 28th and June 15th. The ground is usually rolled before planting, and they are planted with the ordinary grain drill. letting only three tubes run in an eleven-tube drill, making the rows 28 inches apart.

Cultivation of the bean crop is, of course, very important. It is a good practice to harrow the beans before they are up. beans germinate quickly, and under favorable conditions will be up in four or five days. The weeder is often used before the beans are large enough to cultivate. Whether the weeder is used or not, the shields on the two-horse cultivator should be raised just slightly off the ground, so the earth will cover any small weeds near the plants. The beans should be cultivated about every 10 days or after each rain. When the blossoms come out, it is best to cease cultivation, as the cultivator will knock off a great many blossoms. If the cultivation has been thorough, not much hand hoeing will be required.

Beans are usually ripe the first or second week of September. There is a bean pulling attachment which can be placed on the two-horse cultivator, which will cut two rows at once. The knives are placed V shaped, and so put the tworows into one. After pulling they are bunched up by hand in some cases, but more frequently a side delivery rake is used. This will rake three or four rows into one. The beans are left to dry for a few days and then turned over, and after another day's drying they are usually ready to take into the barn. However, a great deal depends upon the weather. If the weather is very wet, the only way to save the crop is to turn them often, for care must be taken not to draw

them in when damp. Each sling should be moved when it is put into the mow. It is a good plan to place a large pole across the mow so that the sling load will drop on it and be broken up, thus making it much easier to mow away. As soon as the beans are harvested, it requires but a small amount of work to make the land ready for fall wheat.

At the threshing time, we find out whether the yield has been satisfactory or not. The yield in the bean section varied greatly this year, as is usually the case, some yields being as high as 35 bushels an acre and others as low as 12 bushels an acre. The threshing is not done with an ordinary thresher, but with a machine specially constructed, having two cylinders, a slow running one and one that runs quickly. The bean straw is very good feed for cattle or sheep, and should be kept in the barn if possible.

The eastern provinces and the Canadian west have handled most of the Ontario beans for a number of years, but the price has always been influenced by the foreign beans. This year it has not been, nor will it be next year, and for that reason we should try to produce a bumper crop in 1915. The world will need them.

The market in the bean section of Ontario has been materially helped by the formation of the Kent Farmers' Produce Co., Ltd., of Blenheim, The company has been doing business for 11 years, and not only has it been a benefit to the bean market, but has been a benefit to the farmers in many other ways. In addition, it has

paid a dividend of seven per cent, this year.

That the supply of good beans might be increased, seed selection should be practised. Work could be continued at the college and also in the sections where beans are largely grown. Special attention should be paid to evenness of ripening, uniformity of size, and freedom from disease. We should strive to produce the largest number of pods to the stalk and the largest number of beans to the pod. The use of commercial fertilizer has not been common, but I believe it will be soon, and work along the line of fertilizer tests should be undertaken.

Well Balanced Production

Proi. C. A. Zavitz spoke words of wisdom

Weil Balanced Froduction
Proi. C. A. Zavits spole words of wisdom
when at the last Experimental Union meet
at Guelph he advised balanced production.
Prof. Zavits said in part as follows:
"There will be more hungry, starving
people in the world in the next few years
than for a long time in the past. There is a
great responsibility on the producer. At
the producer is a great opportunity
for the producer as great opportunity
for the producer as great opportunity
of the country must be conserved as well.
"We should plan so far as possible to
grow those crops that fit in best with present requirements. For instance, in Ontario
this year we had a very large, apple crop
which could not be marketed to advantage
which would not be marketed to advantage
which was the result. Such crops as
beans, the was the result. Such crops as
beans, and the was the result. Such crops
with the proper varieties.

"Skilled hoor on the farm is going to be
scarce. We must study to make the most
agreat governments. For instance, there is
a great governments. For instance, there is
a great governments. For or instance, the constitution of the constituti

Trouble With Diseased Beans

The bean buyers this year have been experiencing more trouble than usual with diseased beans. The machinery in the warehouses will make primes out of six or eight pound pickers when the beans are spoiled by the wet weather, but the machinery will not take out the diseased beans. Consequently they require to be hand picked.

The acreage of beans grown in 1914 was About one-half, or 23,143 acres, were grown in Kent. The other counties which grew a considerable amount were Elgin 5,860 acres, and Huron 7,874 acres, while the remainder of the crop was divided among most of the other counties. In view of the fact that beans have been a good price for a number of years, and also that they are of very great food value, we should encourage every person who can to grow as large a crop as possible this coming season.

Now they fin

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Hints for the Spring Planting Season

Formalin Destroys Oat Smut

A. P. Graham, Digby Co., N. S.

S MUT is a source of immense loss in Nova Scotia oat fields. My experience of the last half-dozen years has convinced me that this discease can be completely checked and clean grain grown on farms where previously the fields had always been smutty. My own experience has been altogether with oats. I really do not need to user formalin treatment now, but we keep on doing so as a sort of cheap insurance.

Our method of treating the seed oats with formalin is to thoroughly clean the barn floor, in which, by the way, there are no cracks through which the oats can leak into the cellar, spread out the oats several inches deep, and while one man applies a solutior of one pint of formalin. to 40 gallons of water with a watering can, another turns the oats with a scoop shovel so that all are thoroughly moistened. I find that about one gallon of the solution to each bushel of seed, grain to be treated is the correct quantity. I always put the most active man on the farm on the scoop shovel; that isn't to escape the job myself, but is to ensure a better mixing and a thorough sousing of every grain.

When the seed grain has been properly sprinkled, it is scooped up into a pile and covered with old grain sacks and horse blankets, these to hold in the gases and make the killing of every smut spore more effectual. Next day the pile is levelled out again and turned each hour to dry the seed.

Just one final hint. I never treat seed grain with formalin when a frosty night is expected, as there would be danger of freezing and injury to the germinating power of the seed.

Selection of the Variety of Corn* Clark Hamilton, Dundas Co., Ont.

S UCCESS with corn in Eastern Ontario depends very largely on the selection of the right variety. First and foreinost we must remember that the largest variety is not necessarily the best variety. We have too many varieties of corn to-day. We have a few really good varieties. Even yet, however, it is difficult to persended to the persent of the pers

The Flint varieties are the smaller and hardier. If one can grow Dent to a fair degree of matur-

ity, then grow it by all means.

Quebec Yellow, a Flint variety, is the earliest corn that is grown. If it cannot be grown to maturity, no variety can. It is possible to plant Quebec Yellow the last of May and have it ready for feeding the first day of August. Hence this variety is fine for fall feeding where there is no left-over silage for that purpose. Ordinary White

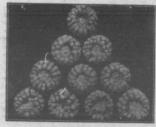
Flint grows quickly and yields well.

White Cap Yellow Dent is one of the earliest of the Dent corns. Bailey, another Dent variety, is becoming quite popular. A new variety, the Wisconsin No. 7, is now displacing the White Cap Yellow Dent. One of its principal superior features is that it is comparatively free from suckers at the

*Notes taken by the editor of Farm and Dairy on an address by Mr. Clarke Hamliton, at a Farmers' Institute meeting at Enrismore, January, 1915. root. The Improved Learning is the variety that we ourselves have always grown. It is a heavier yielder of ensilage than the White Cap or Wisconsin No. 7.

We always biy our seed on the cob. When dealers are selling on the ob they reserve the best cobs for that trade. The inferior and rejected cobs are shelled and the seed used to cater to the trade of those-who demand shelled seed. When we get a sample of seed corn cob we want-one that will not twist in the hand. Cobs that twist have not been stifficiently dried out or are immature. Hence they are subject to freezing and will show a low germination.

We cannot afford to take a chance on corn seed. With this crop, when we lose our first seeding we have lost our crop for the season. We are forcing the corn crop, as it were, in this country, and second seedings are almost impos-



Splendid Covered Seed Ears.

The ideal seed corn ear is well covered over the butt and the Seldom, however, even in the best seed, do we find butts so well covered as in these ears, the winning ten at a recent corn show.

sible. Hence we always buy our seed in advance and test it, a few grains from each cobbeing subject to the test of germination. If in the germination test we do not get a strong growth, we take it as an indication of lack of witality. Good strong germs are necessary, not merely germs that will show life under test.

Farmers are not going to produce more unless they are reasonably satisfied that they will get rid of what they produce. The big problem is not in mere production, but in more and better distibution.—Nelson Montieth, Perth Co., Ont.

It is not the glamor of the city that steals away our young people. It is the desire to win wages and have money of their own. Offer the boy a partnership. Give the girl a partnership. Start a poultry yard or bee department for her benefit. Dr. G. C. Creelman, O. A.C., Guelb. 600 Bushels of Potatoes per Acre
D. P. Cameron, Stormont Co., Ont.

In the summer of 1915 I took a piece of ground which was very bad with quack or couch grass. The soil was a sandy loam in fairly goud condition, except for the quack. There were one and three-quarter acres in the piece, one-half acre without any trees and the balance a young orchard planted ten years. As soon as I took the oat crop off the field, I plowed about eight inches deep, then disked and harrowed, and once a week I cultivated that field until late in the fall or just before freezing up. Then I plowed the field again about nine inches deep and harrowed the ground twice to level the land so I could spread the manure on it evenly.

Through the winter of 1913 and spring of 1914 I drew the manure on the land at the rate of about 20 tons an acre. When the land was dry enough in the spring to work (about May 24th) I again plowed the field if anything deeper than before, then disked and harrowed seven times. It was then ready for planting. I planted the field with an O.K. Potato Planter in drills 28 inches apart and about 12 or 14 inches apart in the row. When they were planted five days I harrowed the ground to kill all weeds sprouting, and in five more days I harrowed the field again, or just when the potatoes were coming through the ground. In about a week, or when the potatoes were up high enough to see the rows, I went through them with the scuffler, and in five days more I went through them again, and again in another five days. I went through again in a few days more when the blossom buds were on the potatoes, and just before they began to fall down with the hiller, which left the ground perfectly clean, and I never put a hoe near them at all. In a very few days the tops covered all the ground, and no more weeds made their appearance the rest of the season.

When the potato beetles made their appearance, which was only in spots in the field, I sprayed them with paris green, but I did not spray for blight, as the vines were green until frozen in the last of September. The potatoes were good enough to take three first prizes and three special prizes at the county and township fairs, and some weighed over 31/4 pounds. I dug the potatoes with an O.K. Potato Digger the first of October, and the yield was at the rate of over 600 bushels an acre on the half-acre without any trees and on the other one and onequarter acres with apple trees. I dug over 500 bushels of marketable potatoes, over 800 bushels in all. All the cultivating and close-planting of potatoes has smothered out the quack, and I don't think there are a dozen roots left in the fields

Start Fighting Weeds By E. L. McCaskey ONE of the worst weeds in our section is common mustard. It has been with us only a dozen years or so, but it has already infested several farms in the locality, and is still spreading rapidly. Its introduction in our ne ?ghb orhood has been definitely traced to one importation of western seed grain. The farmers who used that seed grain are still regretting that they did not get busy



A Building Arrangement That is Appreciated When "Wintry Winds Do Blow."

If buildings are constructed on this plan is ins't necessary to get into an overcost and pull your one do go year your ears when you so to the harm to feed the stock. House, drive, hours and bark, all it a your and connected, is quite a common arrangement in the Sartime Provinces and New England States. Of course to arrangement has its distribution, in the Sartime Provinces and New England States. Of course to a pranagement has its distribution of the sartime provinces and New England States. Of course to the house in the limitariation is that of L. M. still

fore putting easier than grown, and it seeds spread ably mention expense we of there was no in the land, if am told, will a single sease Where seed

4 V

VERY fa E features from all other ago I dropped to pay a visit one of the pic district. The Croxall farm t tion was the w ing problem h relative merits power have be here I found either in oper could be made mill or gasolin water," said n that finally de farm six years

farm six years
Mr. Croxall
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Croxall's farm
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A covered cen and the water required about piping to do th a tank which house. The ta ments. The la first flows is ju pipe conducts w cow barn, but a a small part go for the waste v of the water bo is automatically any patent device "One of the

water," said Micold in summer do not have to at the proper to the pipes never "What did it I inquired." "For the tank

milkhouse, abou

(5)

and pull out those yellow-flowered weeds the first year. Extermination would then have been easy. Now they find it almost impossible.

If I had any cause for regrets in connection with the mustard in our locality, I would be blaming myself for not having given that importation of seed grain a thorough fanning before putting it into the seeder. That would be easier than pulling the plants once they had grown, and a whole lot cheaper. I have often noticed that our experts, in explaining how weed seeds spread from farm to farm, almost invariably mention seed grain first. The trouble and expense we can save ourselves if we made sure there was no weed seed in the seed that we put in the land, is past computation. Some weeds, I am told, will increase several thousand-fold in a single season.

Where seed grain is shovelled directly from the

bin into the seeder, there is frequently considerable trash, such as broken pieces of straw, burrs and so forth in the grain. This trash clogs the spouts of the seeder or drill, leaving spaces of a few feet here and there not seeded. These unseeded spaces are a double loss. I have noticed that nature does not allow any land to remain vacant, and spaces not seeded with grain always produce the most prolific crop of weeds. And thea there is a loss of the grain that might be grown on that space. If it were alone to get rid of the trash in seed grain, the time spent at the fanning mill would be well invested.

In selecting our seed grain we fun it through three or four times at least. This thorough fanning is not only to get rid of the weed seeds, but also to get rid of the small and shrunken grain seed. Experiments conducted at Guelph and dealt with fully in their annual report, show

that large plump seed will return a yield of several bushels greater per acre than small plump seed or shrunken seed. 1 prefer to fan until I have the large plump seed to put in the ground, and then I can feed the small and shrunken seed. The latter may be just as valuable as the former for feed; then why not take the best for seed?

"Patriotism and Production" is a catchy phrase. I am sometimes afraid that the idea that will catch on with some farmers is that it means increased grain acreage alone. I am confident that if all of the seed grain in Canada this spring were given a fanning mill selection, that the resultant increase in crop yield on the same number of acres would be more important than increased acreage. Now is the time to start the fanning mill. If this job is left until spring seeding commences, there is small chance of it being done; at least, that is my experience.

With a Pioneer Dairy Farmer of His District Features of Interest on the Croxall Farm in Ontario Co., Ont.

BY J. R. DONALDSON

VERY farm has its own special features which distinguish it from all other farms. A few weeks ago I dropped off at Uxbridge, Ont., to pay a visit to Mr. Stanley Croxall, one of the pioneer dairymen of that district. The special feature of the Croxall farm that attracted my attention was the way in which the watering problem had been solved. The relative merits of gasoline and wind power have been long discussed, but here I found a cheaper method than either in operation. "That gravity could be made to do the work of windmill or gasoline engine in supplying water," said my host, "was the fact that finally decided me to buy this

farm six years ago." Mr. Croxall has taken full advantage of the natural opportunities that his situation offers him. The spring which supplies the water to his buildings appears on elevated ground some 30 feet higher than the point of delivery. The spring is not on Mr.

Croxall's farm. As a consequence one of the first things he did on taking possession was to buy a perpetual right to the use of its water from his neighbor. The privilege was certainly on the bargain counter. He got it for \$1.

A covered cement tank was built over the spring and the water piped down to the building. It required about 1,000 feet of one-inch galvanized piping to do this. The water is delivered into a tank which occupies one side of the milk house. The tank is divided into two compartments. The larger one into which the water first flows is just the depth of a milk can. A pipe conducts water from the smaller tank to the cow barn, but as the water flows continually only a small part goes in that direction. The outlet for the waste water is on a level with the top of the water bowls in the barn, and the supply is automatically adjusted without the need of any patent device.

"One of the great advantages of this spring water," said Mr. Croxall, "is that it is always cold in summer and never freezes in winter. We do not have to muss with ice to keep the milk at the proper temperature in hot weather, and the pipes never burst during a cold snap."

"What did it cost you to install the system?" I inquired:

"For the tank at the spring, the piping and milkhouse, about \$125," was the reply. "Of

A Milk House Supplied With Water on the Gravity Plan. The factor that decided Mr. Stanley Crerail to buy the farm he now owns in the tario Co., Ont., was the possibility of running water carried by gravity to the milk house and farm buildings. The illustration shows the circular censent milk house. Further particulars are given in the article adjoining.

course, that represents merely the cost of the material. We did all the work ourselves. Next summer I intend to extend the system to the house. We intend building a new kitchen, or it would have been installed there before. I will switch the delivery pipe before it enters the milk house and run it to the kitchen before carrying it to the milk tank. We will then have running water always on tap."

Mr. Croxall's Farm

Springvale Farm, as it is very appropriately named, consists of 104 acres. Some 13 or 14 acres creek bottom afford excellent pasture. Mr. Croxall keeps about a head to the acre on this part of the farm during the summer. A little grain and ensilage is fed in the dry season, but pasture is the main source of food supply.

Ten or 15 acres are kept under alfalfa, and a three-year rotation applied to the rest of the farm. Manure is applied to clover sod during the winter. In spring it is plowed and planted to corn and roots. Mr. Croxall is a strong advocate of the planting method of sowing corn. He uses a marker and plants by hand. Two men can plant 10 acres in a day, and any time lost is much more than made up by ease of cultivation later in the season. This system also gives a larger percentage of ears than the more common method of sowing with a grain driff. Oats and barley follow corn and with them is sown a mixture of timothy and clover. "We sow about 15 pounds of this mixture," said Mr. Croxall. "If the clover happens to kill out, there is timothy enough for a fairly good crop,"

Ensilage forms the basis of the winter ration. It is fed with cut oat straw in a mixture of about two-thirds ensilage and one-third straw. The mixing is done several hours before feeding in order that the straw may become soft. "I find there is less danger of causing scours by heavy feeding when straw is mixed with the ensilage than when the latter is fed alone," explained Mr. Croxall. Hay is fed at noon and turnips immediately after milking.

"Some people will tell you that turnips cannot be fed without injuring the milk, but we always get the bonus that the Farmers' Dairy Co. gives for quality milk," said Mr. Croxall in speaking of turnips and turnipy milk. "The concentrates are fed on the en-

silage. A heavy milking cow receives a gallon of oat and barley chop, a gallon of bran, and a quart of oil cake."

Stable Fittings

Like many other careful feeders, Mr. Croxall has little use for the continuous manger. He uses the steel partitions, that allow of lifting to clean the manger. The swinging stanchions are the kind that can be regulated to suit the length of the animal. This aids materially in keeping the flanks of the cows clean,

Mr. Croxall is one of the pioneer dairymen of his district. He was a beef man by education and training. The turning point in his career, as in the career of many others, came when he married. His wife is a daughter of Mr. P. W. Walker, the well-known Holstein breeder of Ontario county. During his visits to Utica he was not too preoccupied to notice that dairying seemed to be a profitable business. He disposed of some of his grade Shorthorns, replaced them with Holstein grades, and commenced shipping milk to Toronto. He soon proved for himself that there was money in the milk business. Then he began to think that pure-breds would not eat any more than grades, and the difference in the value of their progeny was at least the difference between \$5 and \$50. As the Holstein grades displaced the Shorthorns, so the pure-breds succeeded the grades. Mr. Croxall is well satisfied. Both changes have proved profitable.

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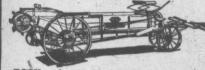
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McCormick Manure Spreaders



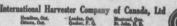
YOU are interested in the results you get from a spreader, rather than in the features. the only safe way to be, sure of getting results is to know for yourself the purpose of every feature on the machine. McCornick manure spreaders have all the important, necessary spreader features, therefore when you know. McCornick gpreaders you know them all. In a spreader you want a machine that will break up manure into small particles and spread it evenly, and that, finally, will last long enough to pay for itself. You don't need a spreading you want a machine that will break up manure in; your wagon will do that.

Spreading all manure in; your wagon will do that.

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Spreading all manure in; your wagon will do that.

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Buckwheat and its Culture Jas. C. Montgomery, Perth Co., Ont.

"During the last 10 years, no other "During the last 10 years, no other crop has increased in area to as great as a percentage as buckwheat," writes Prof. C. A. Zavitz, of Guelph, in a recent annual report. From the same report I find that the number of acres in buckwheat in Ontario in 1902 was 93,824 and in 1912, 205,893. The only other crop that approached buckwheat in increase in acreage in the same time was fodder corn, and even it time was fodder corn, and even it had to take second place to bftck-wheat. This increase in the acreage of buckwheat is probably due to several causes, such as its value as a smothering crop for the eradication of weeds, the lateness at which the crop can be sown in the season, and the can be sown in the season, and the season of the control of the

quality. One of the beauties of the crop in my eyes is that it will grow on comparatively poor land. It seems that soil has less effect on buckwheat than does the climate. A light, well-drained soil is preferable.

I have always grown the Common Grey buckwheat, but again referring to the report by Prof. Zawitz I find that a variety of buckwheat that has been grown for a long time in the Maritime Provinces, known as Rye buckwheat, cutyields the Common Grey in, the experiments at Guelph. The average of eight years shows the Ryebuckwheat with 35.9 bushels per acre, and the Common Grey with only Rysbuckwheat with 35.9 bushels per Rysbuckwheat with 35.8 bushels are the Schomon Grey with only 55.8 bushels are the Schomon Brown with a the Schomon Brown with a second most popular value and second most popular value as a cree. The Rysbuckweat, I understand, however, gives a flower with a decidedly yellowish tinge, and for this reason the Professor does not advocate a wholesale change from Common Grey to Rys. I vary my seeding from two to five pecks an acre, sowing broadcast. Two pecks would be seeding enough on fertile land, while five pecks would be preferable on light soil. I harvist when the first flowers ripen their seeds, using a self rake reaper. The

vest when the first flowers ripen their seeds, using a self rake reaper. The binder, too, may be used, but the loss of the seed in binding would be, I believe, considerable. Where my system of cutting with the reaper is followed, each little jag, is allowed to dry where the reaper leaves it. If rain threatens, several jags are thrown

FARM MANAGEMENT together. When cut wish a binder, the burdles are set up exactly the same as any other grain. It may be

threshed when dry.

The seeding date varies with the The seeding date varies with the spring. I never put it in until I am certain that it will not be caught with the spring frosts. If seeding is let too late, on the other hand, the trop may be destroyed by early fall frosts. Buckwheat may be safely sown later on high lying than on low lying land. On the former, I have seen it sown as an after harvest crop and a good yield obtained. The chief value that I place on buckwheat is as a smother crop.

The Preservation of Manure W. Powers, Durham Co., Ont.

Where manure is allowed to ac-cumulate in the barnyard from day to day, with no protection from rain to day, with no protection from rain or other starms, the nitrogen, potash and phosphoric acid will be lost to a more or less extent unless the, washings are kept from draining away. The loss of nitrogen may be more readily understood by the following experiment, conducted some years ago by a practical farm chemist. A number a practical farm chemist. A number of cattle were kept in a box stall, the manure being carried daily to a heap. These cattle yielded 10 tons of manure, containing 108 pounds of nitrogen therein. A short time afterwards this heap yielded only 7½ tons of manure, contribing ship 49 pounds of nature, containing ship 49 pounds of not only tons of two and one-half tons of manure and 44 pounds of nitrogen.

If this be taken as an average loss on every farm in Ontario, what would our total loss be in dollars and cents for one year? If this loss could be used for one year as a top dressing for oats, what would the increased production in bushels amount to? do not know, but we do know that the extra production would be suffi-cient to relieve much of the suffer-

ing due to hunger in our province.

It would be impossible for us to eliminate this total loss, but we can eliminate this total loss, but we can at least do our share individually to stop this leakage by proper attention to the manure. For a small initial cost we can erect a three-sided wall made of cement, stone, or other non-porous materials in the barnyard, and porous materials in the barnyard, and keep the manure therein. It is also essential to have a floor or bottom in it, sloping back from the open side or end; this prevents all loss of liquid manure. The purpose of the open end in the wall is to make it convenient for loading. The size of



A Four-Horse Job Satisfactorily Accomplished Without Horses



the enclosure amount of manu

the yard.

There is anot "box" method of the barnyard w during muddy se tion we will soo appreciate; spri

Where !

A very easy mangels, in fac was described b was described by inson of Wellin Farm and Dairy, tion that would asked, and whi Mr. Hutchinson, gels harvested rough manner than those pulle futchinson repli "I am watchi carefully with the pull just where out instantial where the second of the second of

out just where d about at what da date (January 15 cation whatever to start where the What little has a negligible quantity have started from of the mangel, bite out or wheel tearing a piece obroken piece will started to rot, as clined to shink the a broken piece is than the upper er

Are You Going

If so, take adv ne-way second cl certain points in Alberta, or if rousired, the low rat cursions in effect October 26th shou Bear in mind that cific Railway offer equipment and th The route scenic in the wor tourist sleepers, a Winnipeg and Va elling C.F.R. you of changing depot owned and operate affording the high iency. If such a tr eration, apply to a for full particular Murphy, District is let he crop frosts. later on g land.
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The World's Tallest Silo.

This silo at Comerville, Ohio, is 93 feet nigh, 14 feet in diameter. The feed chute, oo, is of concrete, the structure built in the Monsco style.

the enclosure will depend on the amount of manure to be handled and the length of time it is to remain in

the length of time it is to remain in the yard.

There is another advantage to this "box" method of handling manure— the barnyard will be dry and clean during muddy seasons of the year. The importance of this phase of the ques-tion we will soon be in a position to appreciate; spring is approaching.

Where Mangels Ret

Where Mangels Ret

A very easy way of harvesting
mangels, in fact the "turnip way,"
was described by Mr. Alfred Hurchinson of Wellington Co., Ont., in
Farm and Dairy, January 14. A question that would very naturally be
asked, and which she editor asked
Mr. Hufchison, was: "Will not mangels harvested in this somewhat
rough manner decay more quickly
than those pulled by hand?" Mr. Hufchison, replied as follows:
"I am watching my roots rathercarefully with the object of finding
and the state of the sta broken piece will be found that has started to rot, and I am a little in-clined to whink that the lower end of a broken piece is more apt to decay

Are You Going West this Spring?

Are You Going West this Spring?

If so, take advantage of the low, one-way second class Settlers' rates to certain points in Saskatchewan and Alberta, or if round trip ticket is designed, the low rate Homeseckers' Excursions in effect each Tuesday until October 20th should appeal to you. Bear in mind that the Canadian Pacific Railway offers the finest possible equipment and the fastest train service. The route is one of tile most scenic in the world. It is the only line operating through standard and the fastest train service and the world. It is the only line operating through standard and the standard and the



FARMERS

You'll Find Just What You Want For Spring Painting, In

MARTIN-SENOUR PAINTS AND VARNISHES

"MADE IN CANADA"

Your needs have been foreseen. Dealers in your neighborhood have been supplied with the Martin-Senour line. And you have only to name your Painting Wants, to have them promptly filled.

HOUSE PAINT—Why should you waste, money on impure paint, or bother with mixing lead and oil, when you can et Martin-Senour "1002 Pure" Paint for all outside and inside painting? Always the same in quality, color, fineness and purity.

FLOOR PAINT—There's only one to be considered—the old reliable SENOUR'S Floor Paint-the kind that wears, and wears, and wears.

BARN PAINT - Martin - Senour "RED SCHOOL HOUSE" is the paint for the bara. It spreads easily—covers more surface—and holds its fresh, bright color against wear and weather.

WAGON PAINT — Keep the machines, wagons and tools fresh and bright — and protect them against rust and weather—by giving them a coat or two of Martin-Senour "Wagon and Implement" Paint.

Write us today for "Former's Color Set" and name of

ADDRESS ALL ENQUIRIES TO The MARTIN-SENOUR Go.

655 DROLET STREET, MONTREAL

O.A.C. No. 72 OATS FOR SALE Grown on field that won First Prize from Eldon Agricultural Society. Good clean seed, true to name. Price \$1.25 per bus. Lo.b., Woodville. Sacks froe. GEORGE McKAGUE, WOODVILLE, P.O., Ont.

WHITE AND COLUMBIA WYANDOTTES, LIGHT BRAHMAS, S.C. WHITE LEGHORNS

SEED CORN

Over 30 years a breeder.

Stock and Eggs for Sate.

Michael K. Boyer, Box 23, Hammonton, N.J.

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The Best Built Roller

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is the "Bissell," with Drums of heavy steel plate, hard in temper, riveted up close, having pressed steel heads.

With AXLES of 2 inch solid steel re-volving on cold Rolled Roller Bearings. With LEABLE CAGE in one piece. he Roller Bearings in line on the

With DEAS BRACKET under the Pole, making the Draught down low. With the FRAME all of steel and the improved steel plate bottom.

You may be told that other Rollers are like the Bissellbut there is only s ne original Bissell Roller and to save our customers disappointment,

ers disappointment,
we put our name on every Roller we build.
Look for the name "Bissell" and write our Dept.

Loose for the finance of the first and write our Dept. R for catalogue. Several styles and a variety of widths to choose from, 6 ft. up to 12 ft. Grass Seeder Attachment also furnished if required. 73

T. E. BISSELL CO., LTD., ELORA, ONT. JNO. DEERE PLOW CO., LTD., 77 Jarvis St., Toronte, Sciling Agents for Ontario and Quebec.



NATCO EVERLASTING SILO "The Silo That Lasts For Generations"

s beilt of hollow virrified clap tile witch will endure forever, and whose glazed ces absords no moisture and totally exclude air and front. It's reinforced by bands of el said in the morter, and can essential wind and aliage pressures thus a taller slid in smaller diameter can be erected for there is no danger of a blowdown. Fina pages per all in ma... Beed feeling for a list of Natico owners in your providese

Wational Fire Proofing Company of Canada, Ltd.

Progressive Jones says :

"Grow Bigger Crops During the War"

HIS is the Canadian farmer's golden harvest-time. With wheat selling over the dollar mark, and other grains and vegetables bringing war-time prices, farmers should do their utmost to grow as big crops aspossible this year. This, friends, is the time of all times to enrich your soil with

FERTILIZERS

It is the sure way to make your soil s yield bumper crops and make more money for you. By using the proper fertilizers you can greatly increase your yield at no extra cost of labor or seed. Would it not pay you to grow the

supply both. maximum from your soil? If Harab Fertilizers were not exceptionally profitable to use, I don't think there would be such a great and growing demand for them, do you? But perhaps you would like to read the new ferti-

lizer booklet that describes them fully. If so, just drop a card to The Ontario Fertilizers Limited, and say "Please send me your new Harab Fertilizer booklet." They have promised me to send my friends this booklet promptly without charge.

Yours for bumper crops, Progressive Jones



DAVIES' Fertilizers

If y u've been in

the habit of using Davies' Fertilizers,

keep on using them. They are excellent

fertilizers. It's mere-

ly a matter of choice

between Harab and

Davies'. The Ontario

Fertilizers Limited

The Ontario Fertilizers Limited, West Toronto, Canada

Why Tarriff Reduction Didn't Reduce Implement Prices

THE price of agricultural implements will be increased to Canadian farmers as a result of readian farmers as a result of recent tariff increases. Saw the
opinion of H. W. Hutchindow, as the
opinion of H. W. Hutchindow, President of the John Deep President of the Grain Growers' Guide. The advance on imported implements is made necessary by the higher tariff. On Canadian made implements the new tariff on raw material will necessitate an advance in price. But let the Guide's representative tell his
own trory:

let the Guide's representative tell his own rtory:

"Things should work both ways, and so The Guide representative asked Mr. Hutchiuson if the price of binders was reduced to the farmer last spring when the duty on binders and mowers was reduced from 17½ per cent to 12½ per cent. "No," said Mr. Hutchiuson, it was not, because that apparent reducition in duty was a delusion and a saare. It was announced with a great dourish that the duty on binders, harvesters and mowers had been reduced, but the public were not informed that, at the same time, the valuation of at the same time, the valuation of out the public were not informed that, at the same time, the valuation of these implements was arbitrarily increased by the Board of Customs Appraisers with the result that the duty actually paid on a binder or a mower after the duty was reduced was just as high as it was before.

How Duties Increase
"The valuation, for duty, of a oinder at the present time, when the
farmer buys it for \$160, is actually
17 per cent higher than it was 28 17 per cent higher than it was years ago, when binders were sellifer \$250. At the present time, are paying duty on 22 per cent we than the binder or mower act ally costs us. There is a wagon of certain make that we import, which we are compelled to pay duty on 20 per cent more than the cost. On plows, we are paying duty on 12 per cent more than the cost. As a result of this over-valuation by the Customs Appraisers, the duties are actually about fire per cent higher than the tariff calls (or.

Annual of the control "When I was in Ottawa some time

Farmers Were Deceived

"Mr. Huchison strongly condemned this course as an underland and secret methods are as a underland and secret methods are as a underland and secret methods are as the same time, pretending the as the same time, pretending the as the same time, pretending to a the same of the farmers for reduction in arty, Mr. Hutchinson believes that the increase in the cost of agricultural implements acused by the tariff will provent many farmers from buying the implements aused by the tariff will provent many farmers from buying the implements which they require in order to cultivate their land thoroughly, and to increase the yield as well as the acreage of their crops."

Canadian A cultural Values in 1914

A PRESS bullatin insued by the resus and Statistics Office summade by the results of inquiries made by the results of inquiries made by the results of inquiries made by the results as to (1) the values of arm help and (2) the values of farm help in (10). Values of Farm Land For the whole of Ganada the average value of farm is and held for agricultural purposes, whether improved or unimproved, and including the value of dwelling - houses, farms, stables and other farm buildings, is returned as \$88.41 per acre, which is about equal to that of the last similar inquiry in 1910, when the value was about equal to that of the last similar inquiry in 1910, when the value was given as \$38.45 per acre. In 1911 the average was returned by the Census as \$30.41, but this value was based upon returns from all occupiers, including farms only recently settled, and therefore of leas value. By properties of the average values of 1914 and the properties of th

Agriculture neing subspinary to trust culture.

Wages of Farm Help
In recent years the wages of farm help have increased considerably, and they reached their highest boiled during the bumper harvest of 1913. But they want to be subspinaried to the subspinaries of 1913. But they want to be supported to the subspinaries of 1913. But the war has had for one of its effects an increase in the supply of farm labor, and consequently a fall in the wages. The demand for labor this winter has also decreased because of the increased cost of board. For the Dominion the average wages per month during the summer, including board, were \$50.55 for male and \$18.31 for female help. For the year, including

ITAL VAILUES III 1/17
ing board, the average wages were
\$323.30 for males and \$189.35 for females, whilst the average cost of board
per month works out to \$14.27 for
males and \$11.20 for femsiles, as compared with \$12.40 and \$5.05 in 1910.

Average wages per month in 1914
were lowest in Prince Edward Island,
viz., \$24.71 for males and \$14.48 for
females; in Nova Scotia they were
\$31.20 and \$14.80, and in New Brunswick, \$31.35 and \$15.65, and
in Ontario, \$32.00 and \$15.65, and
in Ontario, \$32.00 and \$15.65. In Itse
avestern provinces they were for males
\$20.15 in Manibola, \$40.51 in Sas\$20.15 in Manibola, \$40.51 in Sasklothewan and \$40.26 in Alberta,
females receiving \$22.55 in Sashatoba,
\$22.95 in Saskatchewan and \$23.63 in

To the Panama Pacific Exposition via the Canadian Rockies

At the present time a great many

At the present time a great many are planning their annual our. Considerable numbers visit the popular California resorts, while may prefer the unsurpassed resorts, palaital hotels and magnificent scener of the Canadian Rockies. This year thy not combine the two by a visit to the Panamane seed of the Canadian Rockies. This year they not combine the two by a visit to the Panamane seed about the form of the Canadian Rockies. This and a ford a trip, have the student idea that a journey of this natural smost expensive. This is not so; the student is not so; the property of this natural smost expensive. This is not so; the property of this natural smost expensive. This is not so; the property of the smooth of the property of the

Those contemplating a trip of any nature will receive full information from any C.P.R. agent; or write M. G. Murphy, District Passenger Agent,

O. A. C

I have sold out have son clean, Gover noxique weed mination." Buy from the whole have the much more ask for Gover pay you we clean, get mo to sell. Samp cation. A. FORSTER

RED CLO "Gun"
"A'con"
We have a of Extra MAMMOTH ALSYKE CL "Lake" ALFALFA C

Grimm SWEET CLO White Blosse White Blosse Yellow Bloss SEE

Emmer BARLEY BARLEY
O.A.C. No. 22
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O.A.C. No. 22
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Golden Vine
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O. A. C. 72 OATS

THE LEADING VARIETY I have sold over 1.00 buth, already, and clean, downton the state of t

A. FORSTER - MARKHAM, ONT.

NOTE these prices for Wouldly Seeds

Wouldl Quality Seeds No. 1 13.60 No. 2 11.75 ALSYKE CLOVER "Lake" ALFALFA CLOVER Ontario Variegated Lymann's Grimm . SEED GRAIN Black Hulless (60 lbs.)
Duckbill, vero-weed
PLAS
Duckbill, vero-weed
PLAS
Duckbill, vero-weed
PLAS
Duckbill, vero-weed
Duckbil 1.60

SPRING RYE KENTU & SONS TORONTO ONTARIO Alberta. The highest wages were paid in British Columbia, viz., \$47.85 for males and \$31.18 for females, these averages being suostantially less than in 1910, when reales received \$57.40 and females \$38

Fertilizers for Petatoes

The table herewith gives the results secured in fertilizer experiments conducted by the Ontario Agricultural and Experimental Union. Analyzing consultation by the contraint of the con ing 1.1.2. Yield of Potatoes per acre, (pus.)

Quantity Groups 1,2,3

Pertilisers Per Aver Jees. Aver Jyrs. and Manure. Pounds. 120,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140,3 140

Cow Manure 40,000	B	
20 ton	177.6	194
	10 3 59 7	

Cost \$17, Produced 7,025 lbs. Milk.

Just a Common Cow

Editor, Farm and Dairy,—I see by Farm and Dairy that you are to continue showing photos of 20,000 pound cows each week. Before I see all cows each week. Before I see all those cows and get discouraged, I am going to send you a photo of one of my cows of the common barnyard variety. She freshened on April 21st last and milked till January 31st, and in that time, nine months and nine days, gave 7,025 pounds of milk of good quality.

good quanty.

This cow got no extra feed. She was five years old last July. I bought her at two years old, just before she had her first calf, for \$17-all her owner asked for her. I consider I made a very good bargain. I am a great fancier of the Holsteins and am raising some grades now from a pure bred sire. I get a great deal of in-formation from Farm and Dairy, and would not like to be without it.—C. N. McPhail, Wright Co., Que.

While I was one of those who believed it desirable for the Holstein Friesian Association to cease paying for my paper, yet under no circumstances would I be without Farm and Dairy, and fully appreciate your great work for the dairy cow in Canada.—F. E. Came, Rouville Co., Que.

To grade up his cows, if he is not in reach of a testing station, the dairyman should have scaled and a hand tester. He should weigh each cow's milk at every milking, and keep an account of the amount of milk given and a sample for testings. At the end of a week, test the sample. Then you know just what each cow is doing.—J. P. Fletcher

"Our Length of Life Would be Greatly Prolonged"

PROF. METCHNIKOFF

One of the world's greatest scientists has specifically stated that if, actions, but only a few of the actions in infancy, our colons could be removed, we would be freed from the given condition; the others are negmoss profile cause of human ail ligible or detrimental."

This is a strong statement, but not so surprising when we know that physicians are agreed that 95% of all illness is caused by accumulated waste in the colon (large in testipe), that the first step a physician takes in all cases of illness is to give a medicine to remove that waste—and that probably more drugs are used for that purpose in this country to-day than for all other purpose combined.

The foot.

For this waste is the worst of refepoisons, as we all know—an atom of it in the stomach would inevitably produce Typhoid; and the blood constantly circulating through the colon, absorbs and is polluted by these poisons, making us physically weak and mentally dull, without arbition and the power to think and work up to our real capacity.

Now, the reason that physicians agree that 95% of illness is due to this cause is that it weakens our powers of resistance so much as to make us receptive to any disease which may be prevalent, and permits any organic weakenses we may have to gain the upper hand.

The effect of drugs is only temporary; they force Nature instead of assisting her, and the doses have to be constantly increased to be effective at all. Here is what the journal of The American Medical Association says:

itsetiple), that the first step a physician takes in all cases of illness is to give a medicine to remove that waste—and that probably more drugs are used for that purpose in this country to-day than for all other purposes combined.

The foods we cat and the manual labor or exercise that we fail to perform, make it impossible for Nature to act as theroughly as she did in the past, in removing this waste, and so we are all, every one of us, affected by its. alone, is responsible for Nature to act as theroughly as she did in the past, in removing this waste, and so we are all, every one of us, affected by its.

This, and this alone, is responsible for Nature to act as the conditions known as "contiveness," "constipation," "auto-intoxication," "auto-intoxica

You see, if the presence of this accumulation would make itself evident to us in its early stages, wo most serious condition—at the point would be better off, but it does not of death, according to physician who and there lies the permicious danger were summoned to attend him, and of it.

For this waste is the worst of poisons, as we all know—an atom effected a complete recovery.

Since that time Dr. Tyrrell has specialized on Internal Bathing alone, and has devoted his entire time, study and practice to this mode of treatment.

arbition and the power to think and work up to our real capacity.

You know how completely a bilious attack will incapacitate you, and it are subject, is summed up in a little book called and it is affected as the common of the What, the Why, the Way of it the colon work kept constantly attack with the colon work completely a summed up in a little book called in the work of t

There are many practical facts about the working of the digestive organs which everyone should know, but very few do, and inasmuch as the margin between good and ill health is inconceivably parrow, and it is apprent that so very little trouble is necessay to keep well and strong in advanced years as well as in youth, it seems as though everyone should read this treaties, which is free for the asking.

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March 18,

Evenness of Te It has been secur building it partia

Methods wi Walter Wright Of all the br

find that poultry say that it is be try in spring. mouth Rock is as any. The f every two of thr ed in milk and as the chicks be the food, giving noon and a littl middle of the aft always being o feed or starve full of fresh, cl chicks, using sl vent loss by d enough I start wheat is the begrowing I do not after the mothe a chance to deve

and healthy bire Care of F When the cole shut them up (as snow is on the old one is a gebreed I keep 1 cockerel. Then

The follows-ing during the w ed to keep my l ed to keep my l The following in some form, st head; if liver, he ing so that they selves. I always poultry, either pl shells, or bone. fresh water in that the litter

Winte

I keep all scr (except salt and feed in the morn feed this I cove and let it boil, bran so that it a teaspoonful of quarts of this r I feed a 10 hens every sec days I feed grain grain in the li scratching. My of a little grain quart to 10 hens get exercise by s

my hens receive a

Canadian Seed Growers' Convention

HE eleventh annual convention of

Dr. J. W. Robertson, the president, the past year to be the most prosper-in his opening address, discussed the ous-of its history. The membership-work of the association under the had greatly increased and a number two headings, (1) What we are now do-organized, and some of them were self-ing. The aim of the association, he ing considerable quantities of seed said, was the production of large this year. The rebort of the Secre-quantities of the best strains of seed tary-Treasurer, L. H. Newman, showgrain suited to climatic and soil con-ditions, for better crops on better managed farms, for better satisfied men. The association he maintained, was seeking to work harmoniously with all the other organizations in Canada of a similar nature.
Patriotism and Production

Dr. C. C. James, who is full to unning over with the Patriotism and Production campaign, sought to link up the association in its work with this great work of supplying food for the allies in the world conflict now going on. He thought the rank and file of the people were not taking the war seriously enough. He referred to the great sacrifice Belgium had made us and he thought that out of gratitude farmers should not consider production from the financial side but from the patriotic side. He wanted to be able to look those boys who have gone to the front and who were forgone to the front and who were for-tunate enough to return, straight in the face and say "You did your duty at the front, and I tried to do my duty at home.

Experimental Farm Prof. Grisdale addressed the meeting on "Systems of crop-raising, and the production of better seed on the Dominion Experimental Farms."

Prof. Grisdale claimed that the work they were attempting to do in seed improvement on the various Experi-

mental Farms was closely linked with the work of the C.S.G.A. They had Association was held in Ottawa, evolved seweral systems of crop retained with the condition of march 11th and 12th. The sestions were fairly well attended.

The program as usual was full of ada, was a short three year one, while production of good send for him.

hoe crop followed by grain and seeded with clover, then clover.

A report of the directors showed ger and better crops.

A report of the directors showed Dr. J. W. Robertson, the president, the past year to be the most prosper. organized, and some of them were sell-ing considerable quantities of seed this year. The report of the Secre-tary-Treasurer, L. H. Newman, show-ed that over 1200 were now connected

with the association as growers.

Seed Commissioner G. H. Clark, in
his address on "The Work of the Dominion Seed Branch," said that in 1900, he was the nucleus, with 1500 letters to analyse; to-day-the branch had a staff of 81 members and received a vote from Parliament of \$125,000. He described the work in five-year periods, as being 1st, purely educational; 2nd, was taken up with organization and legislation; 3rd, administration and development. The various activities of the Branch were outlined.

Progress in Alberta
Mr. E. A. Howes of Vermilion,
writing on "Seed Improvement Work
in Alberta," said they were making substantial progress in Alberta, They had done considerable work in demonstrations which had proved satisfac-

onstrations when had proved saustactory. He believed in standardization.
Mr. H. N. Thompson, of Regina, reported for Saskatchewan, that they had a number of live members of the association, who had produced 7,000 bus. of registered wheat, and 11,000

bus. of registered wheat, and 11,000 bus. of registered oats for sale lastyear. For Ontario, Prof. C. A. Zavitz sent a paper showing the popularity of such strains as O.A.C. No. 25 oats, O.A.C. No. 3 oats, O.A.C. No. 21 barley, and other crops. He thought Ontario could sell profitably all her cumple, each as forevolbe profes this surplus seed at favorable prices this year, because of the war and the shortage of crops in parts of western

Mr. G. A. Gigault, reporting for Quebec, showed how the production of good seed had been stimulated by seed fairs and field crop competitions until that had recently completed a cooperative seed centre at St. Roseile where the government had installed a power mill for cleaning seed and providing facilities for seed distribution The introduction of two clover hullers The introduction of two clover numers through the agricultural societies had been productive of thousands of pounds of red clover seed the year. Mr. Palmer, of Scotch Lake, N.B., W. L. McFarlane, Fox Harbor, N.S., gave verbal reports for New Brunswick and Nova Scotia respectively.

and Nova Scota respectively.

Dr. J. W. Robertson, re-elected president; L. H. Newman, secretary-tressurer; directors, Prof. C. A. Zavitz, Guelph, Ont.; Prof. L. S. Klinck, Vancouver, B.C.; Prof. F. J. Harrison, St. Anns, Que.; Prof. John Bracken, Agricultural College, Saskatoon, Sask; A. E. Towes, Vermillion, Alta.; Wm. Palmer, 'corto Lake, N.B., Narcises Savoic, St. Anne de la Pocatiere, P.O.; Win. McGregor, lot 16. P.E.I.; G. A. Gigault; F. W. Hodson, Myrtle, Ont.; W. L. McFarlame, Fox. Harbor P. — S.; Theodore Ross, Charlottetown, P.E.I.; A. Austin, Kamleops, B.C.; C. F. Balley, Toronto-H. N. Thompson, Regina, Sask. D. H. M. McPherson, Antigorish, N. S.; P. Newton, Woodstock, N.B.; Prof. James Murray, St. Anns, Que.; John Parks, Amhersburg, Que.; George Dow, Giberts Pulais, Man, ; auditors, E. D. Eddy, Beed Franch, Ottawa; accountant, Dept. of Agriculture, Of Officers Elected countant, Dept. of Agriculture, Ot

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GE FENCES WEAR BE



Evenness of Temperature is Almost Necessary in a Good Incubator House It has been secured in this house on the farm of L. R. Guild, Rockwood, Ont., by building it partially under ground. Notice too that good ventilation is provided for



Methods with a Small Flock Walter Wright, Renfrew Co., Ont.

Of all the branches of farming, I find that poultry is one of the most profitable. To the beginner, I would say that it is best to start with poulprohiable. To the beginner, I would say that it is best to start with poultry in spring. Select a few good birds of one breed only. The Plymouth Rock is about as fine a breed as any. The first few days I feed every two of three hours, bread soaked in milk and squeezed dry. Then as the chicks become older, I change the food, giving a hard boiled egg at nocn and a little dry catmeal in the middle of the afternoon and forenon, always being careful not to overfeed or starve them. I keep pans full of fresh, clean water before my chicks, using shallow dishes to prevent loss by drowning. When old enough I start to feed small grain; wheat is the best. When chicks are growing I do not allow them to ramble after the mother, thus giving them a chance to develop into strong, big and healthy birds.

Care of Fewis in Winter

Care of Fewis in Winter

and healthy birds.

Cars of Fowls in Winter

When the cold weather sets in, I shut them up (as they should be when snow is on the ground). I pick out the two males I wish to keep, If the old one is a good specimen of his bred I keep him, and a healthy cockerel. Then I kill or sell all the

The following is my method of feed-The following is my method of feeding during the winter. It is designed to the winter. It is designed to keep my means in good laying condition. One was a good laying condition. One was a feed mean in some form, such selections and bulk as do no other feeds. My head; if liver, hang it from the ding so that they cannot gorge that selections is to feed the clover and salves. I always have grit hefore my poultry, either plaster, ground dyster shells, or bone. Latios have clean, fresh water in the pen so situated that the litter cannot be scratched into it.

that the litter cannot be scratched into it.

Winter Feeding
I keep all scraps from the house fexcept salt and fat meat), which I feed in the morning. When ready to feed this I cover it with hot water and let it boil, then put in enough bran so that it will crumble. Half a teaspoonful of red pepper to two quarts of this mixture is of great value. I feed about two quarts to 10 hens every second day. The other days I feed arain, also scatter a little grain in the litter to keep them scratching. My noon ration consists of a little grain in the litter, one quart to 10 hens, so that they will get exercise by scratching. At night my hens receive a good meal of grain

(not in the litter), so that they can go to roost with their crops full. Dust Bath Necessary

It is also necessary, I find, to have a dust bath, in which the fowls may get rid of all vermin. One of the best is a mixture of coal ashes, road dust, and a little sulphur.

The nest is a part of the pen that needs great attention. They must be clean. They should be low down so that the hens will not need to fly to reach them. They should be in a dark place.

The roosts are very often built in a very uncomfortable place for the fowls, and this causes deformed breast bones. My own are built about breast bones. My own are built about two feet from the floor. Six inches under the perches is a board platform, well sprinkled with dust, to catch the droppings. This makes one of the most comfortable roosts.

With this care I find the hens lay recogniarly

regularly. The Bulky Ration

R. C. Thomas, York Co., Ont. Grains and concentrated mashes

Grains and concentrated mashes are the basic foods for egg production. The hen has a small stomach, which makes a bulky ration unprofitable. In this, biddy is a close relation to the hog. I believe, however, that even the hen should be given some bulky foods if she is to pan out a maximum number of winter eggs.

My staples in the line of succulent green foods are cabbage and roots. Sometimes these are pulped up fine-food fed in the mash. At other than the same than the same than the same than the pullets are food set of the mash. It have even fed corn callege when other green foods were not available, and found it better than current seven.

Polity pestered by Lies never thrive, do not so many before the March State of the March

Used and endorsed by Fifty Canadian and American Agricultural Colleges. Leading breeders and stockman for Canada and the United States use it almost exclusively. In Canada and the United States use it almost exclusively hard the Canada and the United States use it almost exclusively hard the Canada and th ZENNER DISINFECTANT CO.

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they would ask you for Beef-Scrap. They need it in winter for two reasons:

First-to supply the material for eggs; Second-to build up their strength and vitality. Cooped-up hens miss nature's big meat supplythe insects and worms that abound in the fields. That

is the natural source of protein, which forms over one-third of the solids in eggs and builds up body tissues.

eggs and builds up body tissues When you feed Beef-Serap, which is rich in protein, your hems can produce-eggs during the winter and spring months as maturally as they do in summer. Learn how to feed your hems for greater profit from our book, "The Bree that Lary is the Hen that they are the property in the property manual, sent price of the property of the proper

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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.

Real Wealth

HAT a glorious sunset!" There was the deepest appreciation in the words. The joy that that little lady with the grey hair took in that wonderful view glowed in the eyes that were still bright in spite of the sixty years she claimed. Her husband, just in from milking, paused at her side, and he, too, faced the glowing west with appreciation of its beauties written on every line of his face. Nature to these two evidently was a constant source of inspiration and delight.

This old couple have only been moderately successful as the world counts success. But they are rich people. Yes, very rich. Their treasure lies in their appreciation of the beauty of the sunset, the sparkle of the snow-covered meadows in the pure light of the moon, the singing of the birds, and the wonderful work of creation, which it is the God-given privilege of country men and women to in some measure guide and direct. In the love that they bear each other, and in their living interest in the changing aspects of nature, these two have real wealth that millionaires cannot purchase.

The United Farmers of Ontario

HERE are many-members of farmers' clubs and subordinate granges in Ontario who still do not understand the great difference that exists between the United Farmers of Ontario, which is largely an educational body, and the United Farmers' Cooperative Company, Ltd., which is a purely business concern.

For some years the feeling has been growing ... among many farmers in Ontario that they are suffering from exactions of the great railway and express companies, lack of capital, the operations of combines and mergers, unjust tariff discriminations, too many middlemen, the enormous increases in city land values, and other similar

causes. They are not permitted to discuss these matters in Farmers' Institute meetings. Local clubs and subordinate granges are unable to deal with them effectively alone.

Last March it was decided to endeavor to organize the farmers of Ontario so that they could discuss and deal with these matters intelligently. An organization known as the United Farmers of Ontario was formed. Any farmers' club or subordinate grange in Ontario may become affiliated with it by voting to do so and by agreeing to pay 50 cents per member to the funds of the central organization. In return for this money the central organization agrees to pay the expenses of a certain number of delegates from each of the local associations who attend an annual convention to be held each year in Toronto. The central organization also pays all the expenses of the annual convention, of sending out organizers and of general educational work. Nothing but educational work of this character is conducted by the United Farmers of Ontario. Its president is R. H. Halbert, Melanchton, Ont.

United Farmers' Cooperative Association

R EALIZING that the various local branches want to trade with each other and to buy goods on the cooperative plan, it was decided to form a company for that purpose. This company is the United Farmers' Cooperative Company, Ltd. Its headquarters are at 100 Church Street, Toronto. Rs president and general manager is Anson Groh, Preston, Ont., and its secretary J. I. Morrison. It holds a charter from the Ontario Government and has a share capital, its shares being \$25 each

Farmers' clubs or subordinate granges that desire to buy goods from this company must first become affiliated with the United Farmers of Ontario; second, they must purchase at least one \$25 share of stock in the United Farmers' Cooperative Company, Limited. They can raise the money to pay for this stock in whatever way they see fit. This money is extra to the affiliation fees they must pay to the United Farmers of Ontario. This entitles them to send a shareholder to the annual meeting of the company and to purchase goods through it.

The company has sold between \$2,000 and \$3,000 worth of stock. It has nearly 100 share-holders, of which 58 are local associations or clubs. It is doing a large and increasingly profitable business. It works in close touch with but entirely separate from the United Farmers of Ontario. In the two associations Ontario farmers have an opportunity to apply cooperative principle to educational endeavor in their business.

The Farm Garden

T T takes imagination to plant a fine garden. Lack of it is apt to result in the gardening formula of an Irish Canadian farmer of our acquaintance: Six rows of potatoes all around the outside and more potatoes filling the centre. The real garden, however, is not over-burdened with potatoes; they are more properly a field crop. The function of the farm garden is to provide green delicacies for the table, everything from asparagus, shortly after the snow goes, to the luscious, ripe tomatoes when the frosts of fall give warning of another winter approaching. In the intervening season a properly planted garden will furnish a continuous supply of radish, lettuce, green peas, string beans, early potatoes, carrets, parsnips, and in certain favored localities even-watermelens and muskmelons.

Many of Our Folks with splendid gardens are free to confess that the seed catalogue has been

their guide and advisor in the planning of the kitchen garden. They find a place in their gardens for every staple vegetable listed in the catalogues. We find that the most enthusiastic gardeners among Our Folks have also a hotbed where celery, cabbage, cauliflower, tomato, and onion plants are given an early start. These folks tell us that their gardens save them in store bills anywhere from twenty to sixty dollars a year. All housewives will testify to the aid that a good garden is to an attractive table and a healthy menu. Now is the time to order the garden seeds.

What is Labor Income?

THE success of a joint stock company is measured by the size of its annual dividend. The success of a farm is more commonly judged by the labor income of its proprietor. In determining whether or not a farm is yielding a business profit, we must distinguish carefully between income and labor income. The difference can best be explained by an illustration.

A certain farm in Western Ontario is capitalized at \$10,000. The total income last year was approximately \$2,000, running expenses, including outside labor, \$800, leaving \$1,200 as the farmer's income. The ruling rate on first mortgages in the vicinity is five per cent., or \$500 on the \$10,000 investment. The farmer's labor income, therefore, is \$700.

In industrial enterprises salaries are paid to all those who work, and what is left is divided in dividends. The difficulty in determining farm profits on the corporation basis-dividends-lies in this, what is a farmer's time worth? On the other hand, it is not difficult to determine the rate that must be paid on that portion of the farm investment that is borrowed on first mortgage; and this is what the farm investment should vield. What is left, the labor income, is therefore a correct index of the success or non-success of the farmer. If the labor income, altogether apart from the income on investment, is not enough for the farmer to live on, then his farming is a failure, viewed from a business standpoint. This difference between income and labor income should be borne in mind at this season of the year when so many of us balance our books. draw up our inventories, and determine just what the year has done for us.

Farm Furrows

66T'LL do it to-morrow" is responsible for late seedings, shorter crops, and trouble gener ally. "I'll do it to-day" may be spelled in seven letters-s-u-c-c-e-s-s

Strong vital seed sends a crop off to a good start. What a secure, comfortable feeling is his who has tested all his seed and knows that it

"The man who first brings a double disk harrow into his neighborhood is a missionary of the right kind," says J. H. Grisdale. Right. It cuts the cost of man labor right in half.

Spring work is hard on men. It is harder on horses. At seeding time, if ever, the merciful man is merciful to his beast.

Good government will come when our representatives feel that their constituents are keeping tab on their actions, and will demand an accounting. A letter now and then from "back home" has a wonderful effect in keeping the member in line with his duty.

The People Play Party Politics; the Plutocrats Plunder the Public Patrimony. A Partisan Parliament and Pliant Press Permit the Billage. Perish Party Politics. Pass the Peas .- Pettypiece.

Overr

HE brightest spe ial experience ar progressive, wide-ave who would rather far thing else, and like than to talk "farming whose interests lie in tion; myself, for in was out to the Ratcliffe, near the Exeter, in the county I had been speaking of farmers in Exetering and at the comeeting, Mr. Ratclif and asked me out fo between a night in night in a real home

On the drive of thr ed of many probler everything from pra-to political agricultu early the next mor with Mr. Ratcliffe farm. The building cliffe farm are of the that are characteris sections of Huron co barn is 48 feet wide with a post of 24 feet was one of the feat we mentoned. the things made pos fork and slings," re-cliffe. "It enables post up good and hi storage room for less

can get any other w
"Notice that steel
Patcliffe later. "It Ratcliffe later. "It 14 years, and I have drop of water to com cost me \$5 a squar Perhaps it is more Good shingles would to \$4 a square. The more cheaply put on tial cost was probabi in favor of the shing roof looks as good a Dual purpose Sho

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Overnight on a Huron Farm By THE EDITOR

HE brightest spots in my editor-ial experience are the little visits. I pay to the homes of practical, progressive, wide-awake farmers-the kind that love their occupation, who would rather farm than do any-thing else, and like nothing better than to talk "farming" with others whose interests lie in the same direction; the wind of the same direction was out to the home of I. N. these little visits that I made has summer was out to the home of J. N. Ratcliffe, near the small town of Exeter, in the county of Huron, Ont. I had been speaking to a gathering of farmers in Exeter one June evening and at the confliction of the meeting. Mr. Ratcliffe came forward resistance in the country of the same of the country o and asked me out for the night. Of course I went. There is no choice between a night in a hotel and a night in a real home.

between a night in a hotel and a night in a real home. On the drive one. On the drive one. On the drive one of the drive o

a hardy variety is worth propagating, do it right," as Mr. Ratcliffe exactly from the second crop. I did not get over one bushel to the acre on account of the dry year, but considering the price of alfalfa seed it was worth while." Ratcliffe's specialty, and be has pure bred cows in the Record of Perform-ance that milk 50 to 60 pounds a day, and it is his intention to develop a strain of milking Shorthorn that will

and it is his intention to develop a strain of milking Shorthorn that will be as good as any of the imported ones. I myself incline to favor the more angular, bred-to-milk specimens of the recognized dairy breeds, but it is all a matter of individual preference. Mr. Ratcliffe was brought up to appreciate the smoother, beef



Substantial Buildings and Dual Purpose Cows on a Huron County Farm Some years ago J. N. Bateliffs was experintendent of the farm in connection with the experimental Station of the State of Maine. To-day he is proprietor, and manager of 200 acres in Huron Co. Out., and possessed of an ambition to develop cover that will produce both milk and bert and pass along the data propentity to their offspring. Some of the contract of the co

or dual purpose kind, and he is aiming to produce the best of the kind.
"This field has made us more money than any other on the farm," remarked Mr. Ratcliffe, stopping beside a field of a falfal already cut. "A few years ago I was superistendent of the farm in connection with the Maine State College of Agriculture, and had a tenant on the farm. He seeded this exceeding the seeded of the seeded this connection with the Maine of the seeded this connection with the Maine State College of Agriculture, and had a tenant on the farm. He seeded this

There are 250 acres of land on the farm. Originally there were only 100, but Mr. Ratcliffe, thinking he could work an additional farm with the money than any other on the farm," work an additional farm, with the remarked Mr. Ratcliffe, stopping be-same machinery and very little additional field, and the stopping be-same machinery and very little additional field, and the second farm comes in the farm in connection with the Maine State College of Agriculture, and had hired man. I found that my host got a tenant on the farm. He seeded this field. We have now been cytting for to get a good man and then place five seasons and the alfalfa has been croming through the winter O.K., excharge of the work he is at and a good man will take an interest and

(13)

My visit had to be cut short, as trains wait for no man, and, with a thunderstorm threatening, which caught us before we reached the station and soaked us to perfection, I concluded a pleasant visit.

The Tuberculosis Problem

Editor, Farm and Dairy,—Has not the consumer of milk some rights when it comes to cleaning a herd of tuberculosis? I read an article in the February 11th issue of Farm and Dairy dealing with tuberculosis in the herds in the neighborhood of Ottawa. That article segment to look calls are That article seemed to look only on the loss to the dairvman, not on the effect of contaminated milk on consumers.

sumers.
You say a great per cent. of the cattle reacted to the test, and when slaughtered showed some signs of tuberculosis, both you think not enough to affect the milk. If these cows were left in the herd, how long would it be before the disease would would it be before the disease would be enough advanced to affect the milk and then it would be too late, as the disease would have been spread, and it would mean a great deal more of

which is worse, the loss of a few cows or a few of our children? How are you going to stamp out the great white plague if you are not willing to lose a few dollars for the cause? Why should we farmers be farced to buy cows that have not been test-ed? Why should we want to sell an animal for food or milk that we do not know is sound? Why should we not all be willing to do our part in out all be willing to do our part in set the hold on our herds that it has, in the United States? Only a united stand on the part of Tone of the control of the

Only a united stand on the part of Only a united stand on the part of the live stock owners can make our country free, from tuberculosis; and if we are not willing to act of our own free will, then the consumers should unite and force us to furnish milk and meat that is as pure and free from these dreadful germs as it is possible to produce.—L. G. Wussow, Langenburg, Sask.

MADE IN CANADA

Here is a chance to get a silo free

Ideal Green Feed Silo PRIZE COMPETITION

Open to every Canadian Farm Owner. It costs nothing to enter.

The competition is open to any Canadian farm owner or to any member of his family living on the farm with him.

It isn't necessary to send a cent to enter this contest. There are no entrance fees. The prize will be awarded to the one who gives the meet and beet reasons why there should be a sile on every farm.

The "reasons" should be written plainly in pen and ink, or typewsiter, on one side of the paper only, and sent to our Peterboro address, as given below.

The prize will be one of our 10 x 20 Ideal Green Feed silos, complete, with roof, having a silage capacity sufficient for 7 or 8

If the winner of the prize prefers a silo or larger size he will be given credit for the list price of a 10 x 20 silo toward the payment of a larger size silo.

Should the winner of the prize purchase an Ideal Green Feed Silo before June 1st, 1915, the date this contest closes, credit will be given him for the list price of prize silo toward payment on whatever size silo he may have ordered.

The contest will close June 1st, 1915, and no entries will be considered after that

Our new silo book, containing a great deal of silo and silage information, will gladly be mailed upon request.

DE LAVAL DAIRY SUPPLY CO., Ltd.

114 Park Street, Peterboro, Ont.

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TRUTH is the essence of perfect thought-A. S. Wilchere.

The Child of Her Heart

. BY ROSE E. PARMELE (Concluded from last week)

> "He's probably about somewh assured Paul easily. He stepped and called "Freddie!" several times

NE can always fill ber life with "I haven't seen him since he went something," Ruth smiled. "It out after breakfast. I supposed he is the personal work we do in was at the barn with you," said Auordi that brings the richest regusta, a little thrill of fear in NE can always no something." Ruth smiled. "It is the personal work we do in the world that brings the richest reward. Lacking a family to codile I have substituted a whole congregation."

Augusta looked around for Paul who had been engaged in conversation with the missionary, and was relieved to see her husband coming down the saisle. His presence naturally changed the subject and the friends soon separated to go home. Freddie had already elimbed into the phasten and was waiting for a developed wonderfully." Augusta confided to Paul on the way home. "She has a sweeter look than she had as a girl. It has been good for her to be loved and appreciated by a whole congregation." Augusta looked around for Paul who

a whole congregation."
"Belle is as vivid as ever, isn't he remarked.

she?" he remarked.

"Yes, but I think she has grown rather narrow," Augusta replied, but she did not give her reason for thinking so. "Isn't the moon beautiful over ing so. "Isn't the moon beautiful that clump of trees, with the fleecy clouds above it like a veil," she exclaimed, and the conversation shifted to another channel.

In her dreams that night she was.

the central figure at a state conven-tion of federated clubs and was being showered with praises and congratula-tions when a little figure beckoned to tions when a little figure beckened to her from the steps of a reform school and a reluctantly took leave of her find the reluctantly took leave of her stands and the would have detained her: "If it were not for Freddie—" She avoke sobbing and the morning found her depressed in spirit and body.

She and Paul prepared the breakfast together as they always did on Sunday morning. Freddie came down in a perfectly angelic frame of mind

in a perfectly angelic frame of mind and by the time the meal was finished the little blue imps that had tried to possess Augusta were completely rout-ed. When she put the child's bonnet on his head she threw her arms about him impulsively and kissed him before

allowing him to go and play.

"Does baby love mother?" she coaxed, holding him fast and gazing

coased, holding him fast and gasing deep into the innocent million bushed, "Yeth, more 'an a million bushed," he lisped, returning her caress with all his mail might histle at the gate she list that the carriage, called to Faul and he went out to see what was wanted. There was a broken spring, it seemed, and they went to the barn with the vehicle for repairs. It was two hours later when the stranger departed, having stayed to chat awhile after the break was mended, and Paul returned to the house.

"Where is Freddie?" asked Augusta.

gusta.
"I haven't seen him. I thought he was here with you," replied Paul.

turn of his own sweet will.

Paul came home to report, half
hoping to see the child there ahead
of him, but was disappointed. Then
he began a search of the cornheid
across the road, while Augusta still
waited on the porch with only her
dreadful apprehensions for com-

draadful approximators
pany.
What if Freddie had fallen in the
creek and drowned? It was entirely
possible, the stream being less than
a quarter of a mile down the roadture, where he level to go to see the
cattle, and they may have tossed or
trampled him to death. Anyway, he
was gone and might hever return
alive. The thought nearly drove her
frantic.

frantic.

If onl she had not been cross with him the night before! If only her love for him had not seemed to waver for a time! For she know now that it was only seeming. Her heart ached with its cry for him which was a prayer. She needed him more, oh, much more than all the honors any other had shought the child could veturn nothing! "Nothing makerial." Paul had said with a wise smile. She return nothing! "Nothing material," Paul had said with a wise smile. She was more than repaid simply in be-ing al wed to love him, but he re-turned her affection with all the strength and loyalty of his baby

but receiving no answer he went straight to an old unused well back

One of Ontario's Beauty Spots Near to Nature's Heart,

is soons illustrated herewith immediately suggests itself as a quick-regital country, it is not in its natural beauty. It is not in the scalade curve that is a part to the himber valley, forecast, the limber valley, forecast, and the limber valley, forecast, the that appears to the tired city dweller who take to constional half holdsy to enjoy its beauty. We in the country are surely blesse in that we have the region of the valley of the country are surely blesse in that we live in such an environment all the time.

of the barn. It was still covered usual, but he peered anxiously through a wide crack and closely scanned the dark water below. There was nothing in it to ruffle its smooth surface. It did not seem possible surface. It did not seem possible that a child could get into the well, but Paul had always feared he might e way.

With a breath of relief he gave his attention to other possible places—the stalls in the barn, the cornerib, the haymow, but had to return to the house alone. Augusta had searched the haymow, but had to return to the house above. Augusts had searched been and orchard, but discovering that he front gate was unfastened felt sure that Freddie had gone out to the road. No tiny figure was visible, however, but it would be an easy matter for the tall grasses or luxuriant hedges to hide him.

"I'll get on a horse and ride part way down the road. He cannot be very far from here, said Paul confidently, but his pale face belied his words.

Augusta dared not trust herself to speak, but quietly sat down on the porch step to vait. She must be

a environment all the time.

His dear, alluring ways and sweet prattle were a daily delight, and she and Paul had known a deeper happiness since Freddie's conting than ever before. A woman could fill her tild with philanthepit work preclay under the property of the control of

She felt that if Freddie were spared She felt that if Freddie were spared to her after this bitter lesson be would be to her not only as the writing on the wall to warn her if she should over become discontented again but he would be her crown of glory foreor.
"As ye have done it unto the least of these..." It was torture unspeakable to think of his never returning.

there if Freddie should suddenly re- The tears were falling fast by this turn of his own sweet will.

Paul came home to report, half weight of her dread, and the deep hoping to see the child there shead heaving sobs hurt her throat and of him, but was disappointed. Then almost choked her.

She went to the gate because in-action had become unbearable, and through her tears she saw Paul turn the corner down the road, and before him on the horse sat a tiny figure. Paul was riding like mad to bring her the good news and soon-reached the little gate.

the little gate.

"He was buried almost to his waist in the mud down by the bridge," said Paul tensely, handing her his sticky burden, himself well plastered with the sandy clay. "I rode the whole length of the creek in the cornflied, and when I got to the fence I looked.

and when I got to the fence I looked.

over and there he sat, so deep in whe
mire he could not get out. He was
erying softly in a sleepy little voice,
but did not seem to be frightened."

"Mother's precious baby," crooned
Augusta, taking the live model in
clay to her heart. "What made
Freddie go away down there all
alone?" alone?

alone?"
"Get pitty flowers for Muvva,"
lisped the child, beaming estatically
as he handed her a small handful of
dirty, witted blossoms. "Me love
Muvra a million bushel. And Fabva,
too." he added seriously. "He did
bring me home on the horse."
"Child of my heart," murured
Augusts, brokenty, and her whole soul
went up in a silent prayer of blandgiving.—New England Homestead.

. .

"My Johnnie is Over the Ocean"* Words by Alice A. Ferguson, York Co., Ont.

Tune—"My Bonnie Lies over the Ocean."

My Johnnie is over the ocean,

My Johnnie is over the sea, My Johnnie is fighting the Germans O, bring back my Johnnie to me.

Chorus: Bring back, bring back, Oh, bring back my Johnnie to me.

Our soldiers who watch from the airships,

Our soldiers who guard on the sea, Our soldiers who fight in the trenches,

Are guarding my country and me.

One night as I lay on my pillow,
One night as I tossed on my bed,
One night as my thoughts crossed
the billow.
I dreamed that the Kaiser was dead.

The women of Britain are weeping, Hearts break 'neath the Fleur de

Ten thousands of soldiers are sleep

ing, 'Neath the turf, or down under the Sea.

Then blow ye winds over the ocean, Elow peace from far over the sea;
Then blow ye an end to this warfare
And bring back my Johnnie to me.
Chorus, last line—"O bring back my
Johnnie Canuck."

A Grandmother's Recipe

Take one cupful of usefulness, one Take one cupful of usefulness, one cup of love for mother, snother cup of love for your little brothers and sisters, a whole pound of wishes to make other people happy, and a very little teappointful of wishing to be happy yourself. Beat it all together and see if it does not make the nicest kind of it does not make the nicest kind of the thought of the support of the property of the support of the property of

This song was composed by Miss Alio Ferguson and sung by the members of the King East Branch of the Women's It stitute at a patriotic concert held recently. The concert was a great success, the clearing 3103 for the Belgian Relief Fund

March 18, 1915 **********

The Upward ************* Our Talente

hrist's illustration of t ling his talent in the e lord's anger, is a well not only made no it altogether, and as servant, was kness.

ough responsible for had no realization of t was his. Many mo eal life do not reali sibility, as they have to think whether t nt or not, but they will hold them accou that master did his se ne of the wonders of the is the Lost Rive nary one it flows for , then disappears Beyond that place e of it above ground, anean passages it is along, often causing

ve to fall in. Daunt sted in such phenome se "case-ins" and rse in the depths be reappears again, fish ight with eyes which spots in the head, been of no use in th the same way many they have a certain



son,

hrist's illustration of the servant's ing his talent in the earth, and of lord's anger, is a well-known one. not only made no use of that ent, but on his master's return he it altogether, and as an unprofitservant, was cast into outer

Though responsible for that talent, had no realization of the privilege t was his. Many modern people was his. Many modern people cal life do not realize their re-isibility, as they have never taken to think whether they have a at or not, but they have, and will hold them accountable, just at master did his servant.

one of the wonders of the Southern tes is the Lost River. Like an is in the Lost Kiver, and the disappears at a certain any one it flows for miles above and, then disappears at a certain to Beyond that place there is not of it above ground, but in subman passages it is still windalong, often causing the ground to be considered to the contented with the vertain such phenomena go downs "case-ins" and follow its rise in the depths below. Where cappears again, fish have been ght with eyes which have become the with eyes which have become the plant of one it flows for miles abo

The Upward Look and command of it, and it is theirs of chinger. It is heartbreaking to think of all the satisfaction and pleasured to the command of the com

Not only do the owners suffer, but all those whom they might have helped to life's nobler realizations.

A woman with a voice-talent sang to a shut-in. She knew not in the least what it meant to that one to carry those grand sweet notes in her own soul, and in the hours of loneli-ness and pain, hear them over and over again

Thus hitherto unrealized, and how-Thus hitherto unrealized, and how-ever small or however great they may be, all ought to do their best with these God-given talenjs, and then instead of the dread "outer darkness" of failure there will be the grand "inner light" of joy in accomplish-ment—I.H.N.

OUR HOME CLUB

Another New Member

Our new member this week is a real, live man, and we introduce him to the Club as "Bachelor Uncle." The ideas expressed by "Aunt Jane" in our March 4th issue, on what constiour march with asset, on what consis-tutes a woman's work on the farm, has stirred'up "Bachelor Uncle," and his opinions, to say the least, are not at all in accordance with "Aunt Jane's" ideas. We would like to hear what other members have to say on this important subject.

We are glad to welcome back Aunt Harriet. She comes to us with an in-teresting letter this week. We are looking forward with interest to the discussion that these letters will in all probability call forth from other Home Club members.

. . . The Home Help Problem

A friend of mine living in a near-by city, recently inserted a small 20 cent ad, in the "Help Wanted" column of the local paper for a girl to work for her mornings. There were cleven applicants the following morning, and more in the afternoon. I venture that had she been a farmer's wife she would have inserted that all with the state of the half as much as does the average far-

mer's wife. She has all conveniences in her home, a small house, and a small family. She had no outside work to do, while many a farm wowork to do, while than a farm wo-man insists on adding milking and the care of the hens and garden to her already large share of duties. Isn't it about time that we men got to the fore and helped the women to

to the fore and helped the women to solve their help problems? I can't agree at all with "Aunt Jane" in her ideas of what constitutes a woman's work. If I am only a bachelor and therefore poorly quali-fied to speak on these subjects, I be-lieve this is fundamental that the wife was not made for work alone. She is supposed to be a chum and compan ion and with leisure enough and strength enough left from her home duties for her social duties in the neighborhood. If my wife (if I am so fortunate as to get one) ever has to work as hard as my mother always had, our home will never be the place of joy that I would like to have it. No, "Aunt Jane," I don't believe in any outside work for the women folk,

unless they actually take a pleasure in it and want to do it, and in that case it would be up to the man to do his share in the house at some of the

his share in the house at some of the harder work.

But I said it was time for the men to get to the fore. Well, here are my suggestions. Conveniences for work such as a rouning water system, laundry tubs, and so forth. If I can afford it, I will add electric or gasoline power to run the washing machine and wringer. Such are the ideas of a "Bachelor Uncle."



May be the dough had forgotten

Or had risen quickly overnight and fallen again-

To rise nevermore.

Try this good flows,

Twas weak flour, of course. Meaning weak in gluten.

But FIVE ROSES is strong, unusualty

strong. With that glutinous strength which compets

it to rise to your surprised delight.

Stays risen too. Being coherent, elastic.

And the dough feels springy under your hand. Squeaks and cracks as you work it.

Feel the feel of a FIVE ROSES dough. Note the wonderful smooth texture seft-pelpety.

Great is the bread born of such dough-Your dough!

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of Music in America.—Established 1898

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Course in your locality, we offer you, absent
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Violin, Guitar, Mandolin, Banjo or Cornet. Attory on have learned to piak we are positive that
consider the property of the positive of the
School of Music, for either beginners or advanced pupil. Our lessons as suited to your
note from another, our lessons are as plauple
and easy that any per. Who can read Magillar
weekly, and with our free tuttion offer, your
only stimes for the positions and music you use,
of pupils all over the world write—Wisia had
known of your wonderful school before. Write
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cannot give too many details,
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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 postal RIGHT AWAY, for full particulars, and don't be too late for our COMPRITITION. HILLSIDE FRUIT FARM, SIMCOE, ONT (Dept. 8)

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We don't ask you to pay us a cent until you have used this wonderful nodern light in your own home ten days, then you want y veings it is our expense if no legislated and the property of the pay to be a sea. We used the particular to be a season of the line a, smaller best sleetly, gooding or notifices. Lightney is port to the de dilman, and the pay to be a season of the pay to b no odor, mno ode, Three m worful, white,

\$1,000.00 Reward we can refer curconstory offer to m a special introductory offer to m to one imm is given free. V w 10-Duy Absolutely Free Trial P leggs how to get one free.

MANTLE LAMP CO., 432 A

Home Conversation

I once read that as people eat, so, they are. That may or may not be, but as people think and speak, so they surely are. Doubtless many of-we housekeepers could improve our daily menu, but how much improv-ment we might all make in our conversation

Each human being is enclosed with in the small radius of his or her own personality. We come into contact with the thoughts and emotions of others largely by means of speech. Every idea we express, no matter how trivial it may be, impresses slightly or much all who hear it. How well for us if these impressions are al-ways wholesome! We really cannot exercise too great care in our coa-

exercise to versation.

This is particularly true in the home. As we linger about the teatable chatting, little ears are often open and little minds alert. If we are open and little minds alert. If we are enjoying an elevating discussion, they are so much the better; if we are gossiping over our neighbor's short-comings, they are so much the worse. In this apparently small matter of In this apparently small matter of table talk, we hold a powerful factor in the forming of little minds. The children imitate our peculiarity of pronunciation and phraseology. Is it too much to state that they will imi-tate our style of thought as they learn it from our speech. I think you earn it from our speech I think not. Even if there are no children in the learn it from our speech

home, our conversation is still great importance. We, young and old alike, come to the home as a place from whence to draw mental and moral reinforcements for the bastle moral reinforcements for the bange with the world. We come home for rest. The home talk ought to be such that we obtain and give these very qualities. The char in the family circle should be brimful of love, sym-pathy and restfulness, but withal a mental and moral stimulant.—"Abut mental and moral stimulant.—"Aunt

The Marmalade Soason "Country Cousin," Peterboro Co., Ont

I wonder how many housewives have made this year's supply of orange marmalade. Now it the season when it can be made to best advantage. I have just finished mine up to-day, and while the topic is fresh in my mind. I have decided to give readers of this department some of my ideas and ex-I wonder how many housewives have

departments some of my deas and ex-perience and the source in the source of the When March comes in the source of the When March comes in the source of the when March comes in the source of the sa a general rule the freit fars on my cellar shelves are rapidly disappear-ing, and the making of marmalade not only constitutes a variety in the Fruit-line, but helps materially in filling up some of the vacancies.

There are several important Points in making good marmalade that in the source of the source of the source undeavor to several important, yellow color and of a gornaparent, yellow color and of a gornaparent, yellow color and of a gornaparent, sistency. A necessary precaution us the final boiling is to watch the mix-ture in case is should either boil, over or stick te the bottom and burn. I also keep the sour removed thorough-

or steek to the bottom and burn. I also keep the scum removed thoroughly and test frequently for jelly. Get good bitter oranges, peel off the rind as thin as possible in long strips with a sharp knife, then remove the white part. Cut the yellow part in year this whode, i.e. with a sharp knife, then remove the white part. Out the vellow part in very thin shreds, about one inch long, the sharp with the part into bits the size of the sharp with the part into bits the size of the sharp with the part into bits the size of the sharp with the sharp wit

(or less if it jellies) and it is ready for putting in glasses. A done or anges will make sufficient to fill three dozen ordinary jelly glasses.



Dep: 8
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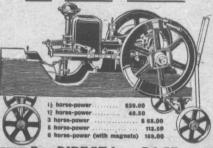
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The salt butter produced an increased overrun of 4.14 per cert, as compared with making saltless butter. In 1913, the overrun was 3.5 per cent. greater on the salt butter,

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The average of 44 churmings, ranging in weight of cream from 180
pounds to 1,514 pounds, and in percentage of fat from 28 to 41,6, was
1,47 pounds of buttermilk per pound
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butter, for each increase of one
per cent. fat in the cream above 28,
there was produced, on the average,
188 pounds less buttermilk per ton
of butter.

of butter.
Shaking Vs. Not Shaking
During the months of April, May, ative. One sample bottle was corked and the sample bottle shaken at each time of adding fresh cream; one was corked and not shaken; one was left

*A paper read at the annual convention St. Thomas of the Western Ontario

The Makers' Corner

Leocopopopo, secopopopo

Notes on Experimental Work* Prof. H. H. Dean, O.A.C., Guelph, Ont.

Experiments conducted in the dairy school at Guelph indicate that the loss of fat in the buttermilk was greater by pasteurizing sour cream at 140 degrees F. as compared with 140 degrees F. as compared with churning raw cram and less by heat-ing to 140 degrees F. as compared with heating to 190 degrees to 180 de-grees F. A-"holder" pasteurizer was used for the tests. The average per-centages of fat in the butternilk centages of fat in the buttermits were ,142 from raw cream, .275 for cream pasteurized at 140 degrees, and .37 for the lots heated to 160 degrees to 180 degrees F

In one churning where the pasteur-ized cream was held in the vat over night and the temperature rose several degrees, the percentage of fat in the buttermilk was .48. This indi-cates that where the cream is not held for some time at a comparatively low temperature before churning, there is likely to be an excessive loss of fat in the buttermilk when such cream is churned. Tap Opened or Closed

Experiments were conducted to find the moisture and salt in butter work-ing with the churn tap open and

3.095 2.98 2.95 2.81

Jacketed Vs. Milk Cans The average temperature of six deliveries of cream in hot weather jacketed cams was 64.3 degrees F., and in milk cans 67.5 degrees F. The average percentages of acidity in the cream were practically the same in both cans.

Recently a test for the salt on but-ter has been brought to the attention ter has been brought to the attention of buttermakers known as the "Chapman Salt Test," Comparing this test with the Standard Silver Nitrate test, we found it gave results rather higher. The average of 29 tests with Sulfer Nitrate was 2.76 per cent. salt. The average of 29 tests made on the same lots of butter by the Chapman test was 3.26 per cent. salt in the butter. Salt Vs. Saltless Butter. The salt butter produced an in-

June, July and August, 38 deliveries of cream were placed in pint milk bottles, containing a 3.1 potassium bi-chromate-corrosive sublimate preserv-



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MONTREAL TORONTO WINNIPEG

open and shaken; and one left open and not shaken.

and not shaken. The open bottle samples, as a rule, tested much higher than the average of each delivery. The shaken, corked samples contained most mould, the uncorked samples least. The practical lesson is to cork cream composite and not shake there when cal lesson is to cork cream composite samples and not shake them when adding frest samples. Out of fil monthly composite samples of milk kept in open and closed bottles during April to September, 28 samples were alike in fat percentage at the control of the con tles. Composite milk samples should be kept closed.

Ice Cream Overrun

The results of five tests of ice-cream The results of five tests of ice-cream overrun from raw and phasteuriged cream produced an average overrun of 57,95 per cent. and an average score of 94.5 from pasteurized cream. The raw cream produced an average overrun of 77.39 per cent; the score for quality averaged 89.76. The raw cream produced more "swell" or overrun, but the quality of the finished product was not so good as from the nasteurized cream. the pasteurized cream.

Spring Cleaning Hints

With the near approach of spring, almost every household experiences the throes of the vernal cleaning time. Furniture is moved outdoors, rugs are beaten, and dinners are scanty and

What is good for the place where food is served and eaten is likewise doubly desirable in places where food is manufactured. Hence the wisdom of the following hints to creamerymen by a buttermaker who is a strong ad-

ovo at buttermaker who is a strong au-vocate of better and cleaner butter: "Now is the time to prepare for the heavy June work—the 'peak' of

the creamery load. To be efficient in handling extra work a creamery must be clean and orderly.

"To clean outside the buildingget rid of rubbish and ash heaps; clean up the yard; straighten the wood piles; and have distinct drivewars by encouraging the greenty. ways by encouraging the growth of grass or by planting flower beds. Patrons will appreciate a combination of beauty and utility. "To clean inside—put screens on

at once to keep out the early flies; have everything in good shape to pre-vent accidents to men and machinery; vent accidents to men and machinery; sweep and scrub the odd corners; in-spect the sewace system; and arrange things conveniently in the store room. "Ontario creameries are increasing

the quantity of output yearly. Why not start the season right and make a corresponding advance in quality score? To do this, the first thing is cleanliness, and an annual spring dirt. round-up will turn out as a profit-able venture."

Cheesy Points

F. Brown, Grenville Co., Ont. Aim to have curd well formed in whey before too much acid has developed. I find that the amount of veroped. I had that the should acid given at dipping point should vary according to amount of moisture contained in the curd at this

Uniform temperature should be maintained and the cheese should be well matured and well pressed. Salt should be well distributed and well dissolved before pressing.

We add one-half to three-quarters were add and well with the cheese of a good culture statter when

we add one-half to three-quarters per cent. of good culture starter when temperature is raised to about 70 degrees F. and do not let the tem-perature run too high until all the milk is in.

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(Continued on pade 274.

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N.B.-Mr. Dairymanmake your bus 8, 1915

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Dear Mr. Brethen :

Kindly mail me at once a catalogue of your April 1st Annual Sale.

We have been thinking Holsteins for some time and having noted the success attending our neighbors with stock purchased at your former Bellevelle sales, we have been persuaded at last that we should make a start. If we had only sold a cow and put a little money with the purchase price and bought a Holstein a few years ago, what a nice herd we would have now. However there's no use "crying over spilt milk," we will get busy, attend your sale and get started at once.

We know you will have a splendid bunch of cattle on sale, and are sure to be suited from what we know of the Belleville Holsteins. Will meet you at sale and would be pleased to have you assist us in making a selection for a foundation.

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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.

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