

VOL. XXXII.

NUMBER 20

# RURALHOME

PETERBORO, ONT.

MAY 15



A FORM OF POWER STILL OF GREAT VALUE AND POPULAR WITH THE FARMER

The pure bred Clydesdale mares, here illustrated, constitute the most efficient and economical power on the farm of The pure brea Ciyaesaale mares, here mustrated, constitute the most efficient and economical power on the farm of W. J. Cox, Peterboro Co., Ont. And what is true of the farm of Mr. Cox is true of at least 99 out of 100 farms in Canada. Electric, gasoline and wind powers all have their place on the farm, and an important place it is, but on the ada. Electric, gasonne and wind powers an mare their place of the last in the all important place it is, but on the improvement of no class of power can the farmer more profitably concentrate his attention than on the breeding of more efficient horses. There will be a ready market for the best horse power for generations to come. But it must be the best. We can't afford to raise any other.

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Now that you have gotten into the busiest season of seeding and your cows are freshening, you can save yourself greatly and make more money by having the two great helpers we have for you



The favorite everywhere it foes. Note its beauty and heavy compact construction, with low-down, handy supply can only 3½ ft. from the floor.

The Large-Capacity "Simplex" Cream Separator
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What would you give to be able to free yourself from the drudgery of hand milking, and be able to milk all of your cows (and as many more as you wanted to put in), doing the milking thoroughly and successfully by mechanical means. A B-L-K Milker will milk your cows for you. Outfit costs not so much as you might think. Write for booklet describing it all.

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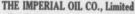


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### PROPOSED NATIONAL DAIRY SHOW AGAIN APPROVED

A S announced in last week's issue of Farm and Dairy, representation of the dai; interests in Justice of the dai; interests in consider the advisability of arranging for the holding of a dairy show in Toronto the latter part of next year. Those present decided to recommend such action to the associations they

represented.

Readers of Farm and Dairy will remember that at the annual conventions of the dairymen's and dairy cattle breeders' associations held last winter, representatives were appointed by the different associations for purpose of holding a conference of the purpose of holding a conference and the state of the

able to be present.

At the outset of the meeting Mr. Cowan was asked to relate the steps that had been taken some seven years ago to hold a national dairy show. He stated that at that time the proposal had been endorsed by all the dairymen's and dairy cattle breeders' associations, each of which had ampointed representatives to act on a central committee. This committee had met and selecte. Toronto as the city of the committee of the control of the co

CHANGED CONDITIONS

Mr. Coware explained that the oppositions of the Department had prevented a show being held at that time but since then the conditions have changed considerably. The success of the Ontaric Horticultural Exhibition has demonstrated that it should be possible to make an even greater success of a large dairy show. The addition of classes for borses at the Guelph Winter Fair has so crowed accommodation there it is now found difficult to provide sufficient room for the exhibits, and suitable hotel facilities are hocking. The

withdrawal of the dairy cattle exhibits from the Guelph Winter Fair would tend, therefore, to relieve the pres-

The holding of a national dairy show also would bring together the dairy interests of the province as is not now done. The exhibitions of cheese and butter held by the different associations could be united in entarge exhibition, the dairy cattle exhibits could be added and there would be facilities for making large exhibits of cheese factory and creamy supplies, dairy utensils of all kinds, and conventions could be held separately by the cheese and butter makers of the province, by the dairy farmers, milk and cream shippers, and allied interests.

THE PROPOSAL ENDORSED

A full discussion of the proposal then took place. It was found that the meeting was unanimously of the opinion that such a dairy show should be arranged. Mr. Hanmill raised the point as to what should be done in the event of a National Live Stock Show being held. He stated that he had attended the banquet given by the Canadian Farm last winter, at which Dominion Live Stock with the state of the state of

The discussion of this point showed that those present were agreed that the dairy interests would need to lose more than they would like to lose more than they would like to lose more than they would prove the strongly with such a show. It was pointed out that they would probably have only two or three members on the board of officers, and that in consequence many of the dair features that have done so much to make a success of the National Dair Show in Chicago, would have to be sacrificed. The fact that two separate exhibitions are held in Chicago one the National Dair Show, was mentioned. It was agreed their success was due to the fact their success the fact their success was due to the fact their success the fact their success was due to the

After all these points had ber considered, everyone present taking part freely in the discussion, a restution was introduced and carried us minously endorsing the proposal whold a national dairy show, preferably on the grounds of the Canadian National Exhibition, Toronto, this shor to represent all branches of the dair industry, and to be controlled entirely by the dairy interests. The various dairymen's and dairy catte breeders' associations will be advised by the dairy interests. The various dairy catter breeders' associations will be advised by the dairy exhibition next year. If a substitute of the dairy interests of the dairy exhibition at the same time, but that the latter should be coducted separately and controlled estirely by the dairymen.

In order that further information may be obtained it was decided to equize the committee. Mr. John McKee was appointed chairman, at Mr. H. R. Cowan secretary. Mr. Drummond was added to the committee. The committee may roll as other meeting at the sime of the Canadian National Exhibition, at Will probably send representatives with each value of the next National Dairy Show is Chicago to getter information of certaing its management.

Issued Each Week

Vol. XXXII.

How Dealers Conceal

ITHER quarter practically of sounders, can ness allayed. When guttapercha or other throughly smooth an colored to match the with hoof dressing, i ination in some cascs Enlargements or d

acute lameness is no opportunities for plyi an enlargement, as bo ening of any part of fellow, a hypodermic tity of some irritant cause a swelling, which careful observer may a men are aware that t different conformations is, a fullness or rough the joint is not necess and while undesirable i ble. He is also awar alike in conformation, c tion be undesirable and lameness it does not inc if one hock be disease made like it in appea nearly so liable to be de

singuistic to be designed and a series of that has caused an atrocles the trader is aware to that has caused an atrocles the trader is aware in a sain is able to fill the hollow skin is a mesh-like tiss in the third that is a mesh-like tissue and air fit the meshes of this tissue this of course forces the the hollow.

In some cases irritant of air. These liquids ca more permanent than the sorbed in a short time, with air is not so perma detected if the parts be be passed over the parts is found to be abnormal like passing the hand or Air, however, is preferre

This is the last of a series by Dr. Reed for Farm and of the common series in which these unsoundness defraud the prospect of the common series which the common series article should prove the control of accountry, must buy horse of from dealers. Other article found in Farm and Dairy for March 27 of this year.

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Only \$1.00

Vol. XXXII.

FOR WEEK ENDING MAY 15, 1913

No. 20

### THE TRICKS OF HORSE TRADERS EXPOSED \*- No. 4 Dr. J. Hugo Reed, Guelph, Ont.

llow Dealers Conceal some of the Minor Unsoundnesses of Horses such as Quarter Crack, Bony Enlargements, Sweeney, etc. How Vicious Habits may be Overcome with Drugs.

A Trick in Baying. ITHER quarter crack or sand crack, while

practically constituting permanent unsoundness, can be treated and the lameness allayed. When the cracks are filled with guttapercha or other material which is made throughly smooth and even with the hoof, then colored to match the hoof and the whole dressed with hoof dressing, it requires a careful examination in some cases to detect this fraud.

Enlargements or diseases of the hocks, when acute lameness is not present, give the trader opportunities for plying his art. When there is an enlargement, as bone spavin, curb or a thickening of any part of one hock and not on its fellow, a hypodermic injection of a small quantity of some irritant into the sound hock will cause a swelling, which to any person except a careful observer may appear normal. Most horsemen are aware that the hocks may be of many different conformations and still be sound; that is, a fullness or roughness of mostly any part of the joint is not necessarily indicative of disease and while undesirable is not liable to cause trouble. He is also aware that if the hocks are alike in conformation, even though the conformation be undesirable and there be no symptoms of lameness it does not indicate unsoundness. Hence if one hock be diseased and the other can be made like it in appearance the disease is not nearly so liable to be detected.

SHRUNKEN MUSCLES FILLED WITH AIR

Then again in case of sweeney or other disease that has caused an atrophy or shrinking of muscles the trader is aware that by forcing air underneath the skin covering the shrunken muscles he is able to fill the hollow. Just underneath the skin is a mesh-like tissue called areolar tissue. If a hollow needle be forced through the skin into this tissue and air forced through the needle the meshes of this tissue become filled with air, this of course forces the skin outwards and fills the hollow.

In some cases irritant liquids are used instead of air. These liquids cause a swelling which is nore permanent than the air as it becomes absorbed in a short time. The filling of the parts with air is not so permanent and is more easily detected if the parts be handled. If the hand be passed over the parts filled with air the touch is found to be abnormal and a crackling sound like passing the hand over paper is produced. Air, however, is preferred to the irritant sub-

This is the last of a series of four articles written concentration of the series all the series are series and the series unboundeness may be concealed to the series all the series all

stances as it causes no irritation or after effects. While irritant substances are liable to cause extreme swelling and soreness and in many cases the formation of an abscess; hence if a deal be not effected with a horse so treated the probability of being able to dispose of the horse for some considerable time afterwards is very slight.

Means of temporarily checking undesirable or vicious habits are many. The use of an iron extension to the crupper so hidden in the hair of the tail that it cannot be noticed is often successfully used in disposing of a switcher; and probably one that will kick if he gets the line



A Result of Using the Split Log Drag In Farm and Dairy last week W. J. Cox, Peterboro Co. Ont., told of the grand results he had socured throug using a split log drag. Here is the lame on which the drag is used, as photographed by an editor of Parm and Dairy.

under his tail. The introduction into the rectum of a small piece of ginger root will cause a tail hugger to elivate his tail. Horses that are kickers, shyers, too high lifed and generally hard to handle can be doped by administering proper doses of opiates or narcotics. This of course renders the animal somewhat dull and stupid but usually checks his vices for the time. Successful doping of this kind requires a knowledge of the action of the drug used and the proper amount to administer, as while the proper dose causes the effect noted, smaller doses cause stimulation and probably an increased tendency to vice, while over doses cause excitement and delirium and probably make the animal practically unmanageable.

HARNESS MAY COVER DEFECTS

Local abnormalities such as warts, small tumors, fistula, ulcers, etc., may be hidden by heavy harness or a saddle. The actions of the trader are often sufficient to cause suspicion. If he is anxious to keep the horse in motion all the time it indicates that he probably is lame from bone spavin, which lameness is often not shown except after standing at rest for a variable length of time, or

he may be sore in the fore feet, but a little exercise removes the symptoms and so long as he is kept moving they are not apparent.

Spring halt is often very hard, and in slight cases, impossible to detect except by allowing the horse to stand for a few minutes and then backing him or turning him short to one side or the other. The lameness caused by corns can usually be removed for a time by poulticing for a few days and then getting the wall of the quarter rasped down so that there is no pressure upon the shoe of that part.

### WHEN LAME IN FRONT

A horse only slightly lame in front will often go sound if the head be checked high and he be driven smartly on a tight line; but if the check be let down and he be driven at a jog with a slack line and on a hard road the lameness becomes

Ridglings (animals with one or both testicles not apparent in the scrotum) are often disposed of as geldings. The only means of detecting this fraud is by the general appearance and actions of the animals. They have a masculine appearance, which reasonably well marked, is readily detected by a horseman but cannot be well described, and the actions are those of a stallion when in company of other horses.

Some traders have such knowledge of the actions of certain drugs, that if they can gain access to a horse that they want to own, they will administer a dose that will cause sickness or partial inability with the hope of discouraging the owner and making him willing to part with him easily. We will not discuss this at any length as the practice is seldom possible.

### Ideas Briefly Expressed

The side-delivery rake is one of the finest implements ever invented. It affords the quickest way of drying the hay we have ever tried. have done away with the tedder altogether .-J. H. Grisdale

Some of the advantages that we have seen in our tile drainage system are that our soil is now warmer, clover grows better than it did before, all crops show more vigorous growth, fertilizers seems to yield greater returns and the greatest benefit of all is that our heavy clay does not bake and crack the way it did at one time.-L. K. Shaw, Welland Co., Ont.

We should be very careful about cutting down all bad weeds every year. If these are attended to and cut at the right time, the farm should soon be cleared of all weeds. Burs are one of the worst weeds around, but if they were cut when they start to blossom and kept cut every year we should soon be done with them. The trouble very often is that one farmer cuts the weeds on his farm but his neighbor is careless and lets them grow. I have seen some farmers even on rented farms much more particular about cutting weeds and keeping their farm clean than farmers who live on their own farms.-R. P. Hill, Victoria Co., Ont.

### Supplementing Short Pastures

S. J. Foster, Prince Edward Co., Ont.

For tiding our dairy cows over the period of short pastures we have abandoned the soiling crop system and have adopted the clover and silo one instead. On our 175-acre farm we grow from 15 to 25 acres of canning crop. We aim to keep

about 60 acres down to grass, 30 to 40 acres of new seeding and the balance in meadow that has been cut one year.

We have about 10 acres of permanent pasture that is in two different pieces. On these the cows run at mights throughout the season. For day pasture we take about 15 acres of new seeding clover divided in two bots. We turn the cows on one of these as soon as there is a bite if the land is dry enough. This one will keep them going until about the middle of these of these as

is dry enough. This one will keep them going until about the middle of June. We then take them out of this first lot and let it grow for seed. By this time the other one will be commencing to head, and we then turn our cows into it. It ill keep them going until about the middle of July.

THE BEST CROP OF ALL

We plan to have some well-cured ensilage in the bottom of our silo. This we then start to feed. With

a little meal on ensilage it is the best soiler that we have ever tried. We generally have enough silage to keep the cows going until filling time. We find it good practice, however, to sow a small block of medium early corn just as soon as the ground is fit. This may look pretty yellow when it comes up, but if kept cultivated it will come and be fairly well matured by the time the ensilage is gone. Of course, if we had no silo, we would certainly sow soiling crops, such as cow peas, oate or vetches, at different times on small plots to keep up a continuous growth of green food.

### THE SILO A NECESSITY

The time has come when the man engaged in dairying to any degree cannot do without the silo. We think that where corn can be grown at all, the silo is fast taking the place of the soiling system, because it is always ready to feed in any kind of weather. It also saves time and labor at the busy season of the year, and this is a big item since the high cost and searcity of farm help is one of the biggest problems facing the farmers of Canada to-day.

The silo is no longer an experiment. If one puts good, well matured corn into a properly constructed silo at the proper season, one will always have good feed at any time of the year. I would strongly urge those who have no silo, to build one this season and be prepared for the year following.

### Six Years of Silo Prosperity

M. J. Casselman, Dundas Co., Ont.

Some six years ago I became interested in the silo and immediately had one built. Result: During the last six years, I have had less trouble in handling my feed, brought my cows through the winter in better shape, and made more money than in any other like period of time during the 40 odd years that I have handled my own farm.

My silo is made of two-inch scantling, blocked and lined with tongued and grooved material. I have fed ensilage to mileh cows and young cattle, and can say that the silo is a boon to the man who winter darires, as it is to him who wiskes to bring his cattle, that are not milked, through the winter in the best of shape.

When using a silo there is very little expense incurred. The greatest expense is in the filling, which, with the corn cutters of the present day, is a very small item. I believe the silo affords the most economical method of storing corn, as when it is once in there is not the usual drag that goes with the other ways of storing corn.

COWS EAT LITTLE HAY
The cows will take one good feed a day, and



There is a Place for this Tool on Every Farm

Change in flux cost, more efficient in its work than the large horse seeder, and fairly rapid as the influx cost, more seeds as the one here seen. There are few farms on which a seeder of this kind work seeds and the more efficient work and the total distribution of the seeds o

will eat very little hay. Corn fodder has a very strong percentage of carbo-hydrates, and by feeding a small quantity of grain, protein and fat, two of the essentials to the mileh cow are easily produced. There is one drawback to the silo in our district; and that is the trouble in getting corn ripe enough to make good enslage.

I would advise every farmer, if he wishes to be



Where Returns are Quick and Sure

For many years Mr. S. A. Northcott, Ontario Co., Ont., has been feeding ensilage. So much did he appreciate the feed that about a year ago he erected a second allo, the cement one here illustrated. He considers the sile irrestment most profitable.

-Out courtesy Canada Cement Company.

successful, more especially in winter dairying, to see that before another winter comes, he will have a silo in which to store his corn. It is a pleasure for me to recommend the silo.

Get corn seed on the cob and grow according to the sample.—J. H. Grisdale.

## The Newly-Born Foal By "Jockey Bill"

Feeding colts is a skilled art. The feeding of almost any other class of farm stock is easy in comparison. When I am feeding the pigs or apportioning the ration for beef cattle, I know just exactly what I am working for,—increased weight

at the least possible cost a pound. Feeding the dairy calf is a little more complex. Here we have to feed so as to develop the milking functions, and mere gain in weight does not indicate necessarily the best feeder. When we come to the colt, however, we have the most complex problem of all. Here quality and temperament count for more than size, and are harder to get. Bad feeding may predispose to diseases unknown to other classes of farm stock, but such as would render the colt useless. Under feeding, I believe, will do more permanent injury to a cold than it will to any other young thing on the farm. I will give a description of my methods of colt handling that have given me extra good re-

I lay great stress on the colt securing a good drink of colostram or the first milk of the dam, as it possesses purgative properties.

sometimes find it necessary too to give a gentle purgative of castor oil to help remore the remains of foetal life from the intestines. The feal is then in a condition to utilize the new milk of the dam with good results.

When the dam has been hard worked before foaling, I always watch carefully to see that sufficient nourishment is supplied the foal. If I see any indications of the youngster being hungry. the mare is provided with feed that will stimulate milk flow. I have found nothing to equal good pasture grass in this connection, but if the grass is lacking would recommend oats, rolled barley, or wheat bran, with an equal weight of corn or corn meal. The oats and bran are the feeds I prefer at this time. On the other hand, I have frequently had mares providing too much nourishment, and the indigestion resulting often terminates in diarrhoea. My treatment in this case is to restrict the food of the dam and thus decrease the milk flow.

While I like to have the foals come on pasture because the surroundings are there absolutely cleany and sanitary, I believe in confining the mare for a few days after foaling, feeding her good clover hay and the grain feeds already men tioned, but not feeding too much. At the end of a week I would turn both mare and foal on pasture, always keeping an eye on the foal to note thrift and progress to check the first appearance of ailment. The most common ailment with which I have to deal is diarrhoea, brought on by overfeeding or exposure to inclement weather. Parched flour, rice meal gruel and boiled milk, I find are all excellent correctives. Constipation is also a common ailment, and I relieve this trouble with castor oil, and at all times I find that lessening the amount of food given is the best aid to nature in enabling either mare or foal to get back to a normal condition.

When the colt gets to be about two months old, I start supplementary feeding, but of this I may write more fully later. I would just make one point. The older countries of Europe as a general rule, have us beaten to a frazzle when it comes to raising great borses. In all cases they believe in feeding the young feals grain in addition to their regular grass rations. This feeding I believe largely accounts for the superiority of the horse of European countries.

May 15, 18

H. C.
"What brautistic spending thousalong its streets city gentleman v

last summer.

Who would att cents the value of farm home? As break, fine trees home and increas bare and unaturmade pleasant an few trees?

Our forefathers debted for the tre to-day, are entitle have left us a leg thing of beauty is

R. H. Hard

Having heard see being killed out is dayise any one with alfalfa, to sti years' experience wand shoulders about grow, and I can a Alfalfa will stay in to 10 years and proseason, after, perha will leave the soil seeded. I cut 17 g years, and it is in Alfalfa kile all to Alfalfa, like all to

mies. Some of the grass, poor weak su est difficulty to ove is very important t near the surface as ily. A heavy clay fi all surface water aw alfalfa without bein to clean the land t grass\*before seeding stand is procured it the ground so many if there is any blu quack in the land, it ally but surely crowd out in spots.

A GOOD SUBSOIL N.
It is doubtful if be made a real successeak subsoils. It be deep feeder that inothing good to feed the top the crop is 1 poor in proportion.

Having guarded with former hindrance the greatest important have seed from more of the with alfalfa are due than to any other or the which there should be number, I would say:

If you have a plot thoroughly clean of g from 15 to 20 lbs. s pecks of barley. If the be better to summer middle of July; then s mower over it in Sept act as a mulch, and t atter cutting. Be sure grown seed. If sweet of grown seed. If sweet of grown seed.

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### A Legacy from Our Fathers

H. C. Blair, Picton Co., N. S.

"What begutiful trees you have. Many a city is spending thousands of dollars to have such trees along its streets." These were the words of a city gentleman who paid us a visit on our farm last summer

Who would attempt to put down in dollars and cents the value of a fine grove of trees around the farm home? Aside from their value as a windbreak, fine trees add to the attractiveness of the home and increase the joy of living. How many bare and unattractive country homes would be made pleasant and inviting by the presence of a few trees?

Our forefathers, to whose foresight we are indebted for the trees that grace many of our farms to-day, are entitled to our lasting gratitude. They have left us a legacy of which can be said, "A thing of beauty is a joy forever."

### Common Enemies of Alfalfa R. H. Harding, Middlesex Co., Ont.

Having heard several reports about alfalfa fields. being killed out in spots, I feel constrained to advise any one who is perhaps about discouraged with alfalfa, to stick to it. I have had several years' experience with alfalfa. I consider it head and shoulders above any other crop that I ever grew, and I can grow good crops of anything. Alfalfa will stay in the land with success from six to 10 years and produce three good cuttings each season, after, perhaps, the first season or two, and will leave the soil richer than when it was first seeded. I cut 17 good crops off one field in six years, and it is in fairly good form yet.

Alfalfa, like all other good things, has its enemies. Some of these are, briefly, water, blue grass, poor weak subsoils and, perhaps the greatest difficulty to overcome, unacclimated seed. It is very important that water does not lie on or near the surface as alfalfa will surely drown easily. A heavy clay field, sloping sufficiently to run all surface water away easily, will do very well for alfalfa without being tiled. It is very important to clean the land thoroughly of blue or twitch grass\*before seeding to alfalfa. If a successful

stand is procured it remains in the ground so many years that if there is any blue grass or quack in the land, it will gradually but surely crowd the alfalfa out in spots.

A GOOD SUBSOIL NECESSARY

It is doubtful if alfalfa can be made a real success on poor weak subsoils. It being such a deep feeder that if there is nothing good to feed upon below the top the crop is liable to be poor in proportion.

Having guarded well against the former hindrances it is of the greatest importance that we have seed from more northern climes or from acclimated plants. I believe more of the failures with alfalfa are due to this than to any other cause. To new beginners with alfalfa, of which there should be a large number, I would say:

If you have a plot of ground thoroughly clean of grass, sow

from 15 to 20 lbs. seed along with about five ecks of barley. If the plot is not clean it would be better to summer fallow it until about the middle of July; then sow seed alone and run the mower over it in September. The cuttings will act as a mulch, and the plants will stool better after cutting. Be sure you get northern or home grown seed. If sweet clover is not natural in your

FARM AND DAIRY

soil, send to one of the Agricultural Colleges and get some nitro-culture and treat the seed before sowing. This treatment will take only a few minutes, and will well repay you. After you have the alfalfa well established cut your first cutting



For the Good, Old Fashioned Way

about June 15th, and keep an acre or so of the second cutting for seed. You will then have the greatest alfalfa difficulty surmounted; viz., home grown seed thoroughly acclimated.

Some people believe that soil from an old alfalfa field affords a more effectual manner of



A Style of Farming that is Unpretentious but Profitable There is something impressive about the light arm with its broad fields and its commodious buildings. Reside it the begrade covering a quarter of an acre or so, does not "look up to much." The well known to guide for of Eigin Co., Ont., where the proper control of the light of

inoculating a new field than does the laboratory culture that we prepare here at Guelph. There is no reason why this should be. We have found all the way from 100 to 10,000 bacteria on each seed treated by our culture Surely this number of bacteria should be enough to ensure thorough inoculation .- Prof. F. S. Edwards, O.A.C., Guelph.

Loss in Early Pasturing

L. K. Shaw, Welland Co., Ont.

Just as soon as the pastures begin to look nice and green, there is a temptation to turn the cattle onto them. This temptation is particularly strong when feed happens to be scarce. Feed is fairly plentiful this spring, but nevertheless there are always a large number of farmers who, for one cause or another, lose fully half the value of their pasture through turning the stock on too soon. We never allow the stock on our pastures before the 24th of May or first of June, and we believe we gain thereby.

In the first place, the grass itself is of little value for food so early in the season. A chemical analysis would show that the early spring grasses are largely water, and no matter how active the milk cow might be, she could not possibly get enough of this watery stuff to supply her with the nourishment that she needs for body support and to fill the milk pail. If she does fill the milk pail it is a sure indication that she is robbing her own body. I have talked with many farmers who have been disappointed to find that their milk cows, instead of fleshing up, have been growing steadily thinner after being turned to pasture. These farmers were expecting their cows to live on water.

In the second place, it is well to remember when deciding what time to turn cows to pasture, that all of the food that goes to make the plant tissue is manufactured in the leaves. If these are cropped off early in the season and kept short, the plant has no opportunity to manufacture the food needed for further growth. Hence the growth is stunted all the season and the pastures "don't do well." It is absolutely essential to give the pasture a chance to make plant food early in the season, and this cannot be done when the cows are running on it. Unless one has unlimited pasturage it is invariably a mistake to turn the cattle out early.

## The Wherefore of Underdrainage

"Experience," Elgin Co., Ont. Underdrains that carried away water and at the

same time caused crops to grow better in dry weather, were always a sort of joke in our community. We could not appreciate how these two functions could be performed by one system of drains. It was easy to see that we would get our seed in the ground earlier through the drains carrying away the surplus water. But why did the crops grow better in dry weather? We could see that they did. Our fields testified to that. Since then we have studied the subject a little

more and these apparently con-

tradictory functions of tile

drains have resolved themselves

into something that appears

natural and right. One of the effects of tile drains is to make the soil above the drains more porous. A porous soil will hold more moisture than a compact soil without making the soil appear any wetter; about 17 per cent more, so I have read in a bulletin

issued by Prof. W. H. Day. This in itself is enough to explain why crops grow better on drained soil in dry weather. Before our fields were drained the water stood very close to the surface during seeding time. During the first week's of growth the roots of the crops would reach this free water and then stop growing. Consequently, (Continued on page 11)

THE BACO

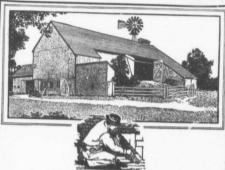
HE article the Fat I

Dairy o

hogs e and

have had

bacon hogs, a



When you buy paint, buy it for the protection and service it will give you.

Paint at \$1.50 a gallon that only lasts two years is much more ex-nsive than paint at \$2.50 per gallon that lasts five years or more.

Then remember that it is just as much trouble and expresse to apply good paint. Cheap paint work was one of the paint work were one of the paint work were one of the paint will be proved in the paint will be proved in a paint will be proved in the proved

# SHERWIN-WILLIAMS PAINTS & VARNISHES A FINISH FOR EVERY PURPOSE

THE SHERWIN WILLIAMS CO., OF CANADA, LTD. Montreal, Toronto, Winnipeg, Va





### We Give a Free Trial

of the Domo Cream Separator. Think of it. We see of the John Uream separator Think of fi. We send this high grade, easy-turning machine on approval, freight prepaid, to test at our expense. We take all the risk. Prices, from \$15.00 and upwards, about half what you pay for others, and you can be the judge of

Write to-day for Circular "D," which gives full par-ticulars of our trial offer, with Prices, and easy terms of payment. It's FREE.

### DOMO SEPARATOR CO.

BRIGHTON, Ont. ST. HYACINTHE, Que

# Natco Everlasting Silo

need no insurance-because it is permanent. It cannot burn; will not blow over; lasts a lifetime.

Built of Hollow Vitrified Clay Blocks

The most lasting material known. Blooks are air tight and moisture proof. They are glassed and keep slings sweet and palatable. No hoops to tighten; no stares to paint. Never sweet and palatable. No hoops appearance—a silo that will improve the looks of your farm.

Any Mason Can Build a Natco Everlasting Silo Once up — it will last a lifetime without needing repairs.



# EADM MANAGEMENT FARM MAINAULINA

Prof. C. A. Zavitz, O.A.C., Guelph Many of the soils of Ontario which have not grown alfalfa previously do not contain the alfalfa bacteria in the soil. It is wise to introduce this bacteria either with the seed which has been inoculated, or with the soil ob-tained from a field on which alfalfa has been grown successfully, and in which there has been an abundant de velopment of the nodules on the roots of the alfalfa. If the proper bacteria are not present the alfalfa must secure its nitrogen from the soil. With the proper development of the nodules on the roots of alfalfa the plants have the power of making use of the free nitrogen of the atmosphere as well as the nitrogen which is already in the soil. As the seed can be so easily and so cheaply treated it is usually wise to treat the seed unless it is known to treat the seed unless it is known that there is an abundance of the proper bacteria in the soil. For further information regarding the in-culation of alfalfa seed inquiries should be made to Professor S. F. Edwards, Bacteriological Department, Agricultural College, Guelph.

INME AND METHOD OF SOWING Labels of the College of the Col

Under average conditions in On-tario the alfalfa seed should be sown tario the alfalfa seed should be sown at the rate of about 20 pounds of seed an acre, and the seeding may take place at any one of three different times of the year as follows:

1. Alfalfa seed may frequently be sown on winter wheat in the early spring either on the old anow or on or fresh snow of one on two inches and on harrowing or oblivities has a seed of the control of the

no harrowing or cultivation is neces-sary. When this method is followed the soil should be free of grass and weeds, and the wheat should not be very thick on the land

2. On a suitable seed bed, and as soon as the land is sufficiently dry in soon as the latter is sufficiently uty in the spring, affalfa seed may be sown from the grass seed box placed in front of the grain drill. About one bushel of barley or spring wheat per acre sown from the tubes of the drill makes a very good nurse crop. After the seed is sown the land should be harrowed lightly. This method usually gives very good results providing the land is in a good state of cultivation and is in a clean condition.

3. Alfalfa may usually be sown alone to good advantage in the month of July on a summer fallow, providing there is sufficient moisture for good germination. This is a good system to follow providing the land produced a crop of grain or was a sod in the year previous to the sowing of the alfalfa seed.

It is nearly always wise to leave the

It is nearly always wise to leave the alfalfa undisturbed the first autumn. If there are weeds, however, that are likely to go to seed or if the crop is so heavy that there is danger of so heavy that there is danger or smothering in the winter a mowing machine can be run over the field so as to cut the tops off the plants, which could lie as a mulch on the field.

USES OF THE CROP

The alfalfa should be cut just as it is starting to blossom, and great care should be exercised to cure the alfalfa so as to retain as many of the leaves as possible, and to protect the crop from rain. The exact method to be used depends largely upon the amount of crop and upon the conditions of the weather. The second crop in the one season may be used for hay or allowed to ripen for seed production. If the second crop is used for hay there is frequently a third crop which may be converted into hay, or in some instances used to excellent advantage for mixing with corn when filling the from rain. The exact method to be for mixing with corn when filling the

At the Ontario Agricultural College At the Ontario Agricultural Coneg-or the last 15 years we have obtained an average of three cuttings of alfalfa a year, with an average total yield of a little over 20 tons of green crop, or 4.8 tons of hay an acre per annum The average for Ontario is usuall usuall about two tons of hay for the first crop, one ton per acre for the second crop, and from one-half to three-quarters of a ton per acre for the third crop. Where seed is produced from the second crop the yield usually varies from about one-half to seven bushels, the average being fully two hushels an acre. about two tons of hay for the firs bushels an acre.

If alfalfa is ever pastured it should

be done with great caution as the pasbe done with great caution as the patturing frequently ruins the crop. On those farms of Ontario where alfalfa can be raised successfully it is undoubtedly one of the most important crops that can be grown.

Land for Hoe Crops

Land for fice trops

I have a pice of land on which we put
stable manure this winter. Also have a
clover sod, second crop. Which would
be the best for corn. also for potatoes. I
have a sile. What kind of corn would
have a sile. What kind of corn would
have a sile. What kind of corn would
be the pice for a sile of the corn
form of the corn of the corn

J. C., Peterbero Co., Ont.

We would plant the potatoes on
the land that has been manured and
the carn on the clover sod. If man-

the corn on the clover sod. If man-ure is not too plentiful it would be well to manure the potatoes rather lightly in order to have some manure for the corn land. In lieu of manure we would give the potatoes an appli-cation of commercial fertilizer, say, cation of commercial fertilizer, say, 400 lbs. sulphate of potash, 150 lbs. acid phosphate, and 100 lbs. nitrate of soda an acre. If possible, get the manure on the corn land before plow-

After plowing, disc and roll the land alternately and cultivate till it is in A 1 shape. In almost every case it is advisable to plant corn on the level. Mark the land off and sow in rows 31/4 Mark the land off and sow in rows  $\phi_{2k}$  feet apart or in hills three feet apart. Early Leaming, White Cap Yellow Dent, or Longfellow are good varieties for Eastern Ontario. By closing intermediate tubes in your grain drill it may be used in planting corn.

Queries re Alfalfa

I am thinking of sowing some alfalfa f sown July ist will I get a crop this car? Please give me information rear? Please give me information rearding inoculating the seed. Where could get a pure brea single comb white legion cockerel?—G. J. P., Peterboro Co.

Alfalfa sown in July will give a good growth the same year, but it is advisable not to cut it as it leaves the plants unprotected for the winter If the growth, however, is very rapid it may be cut, providing it is cut early enough to allow the plants to make new growth before winter sets

Land that raised a crop of corn or roots last year would best suit your purpose. Commence cultivation early this spring and summer fallow to keep weeds and conserve moisture. down down weeus and conserve moiscure. Sow early in July without a nurse crop and use plenty of seed, 17 to 20 lbs. to the acre, depending on the condition of your soil. The material for inculating, with instructions for using, can be procured from the Ontario Agricultural College, Guelph. Sow the seed while it is yet damp, as the bacteria becomes weakened if allowed to get too dry. For the same reason harrow the field immediately

after sowing.

You will find in the Poultry Department of Farm and Dairy advertisements of reliable poultry men who have this breed of poultry. By writ-ing them you should be able to obtain what you require.

The high headed horse can best be bridled by having a snap in the bit. Put the bridle on then snap the bit

hog, or what fats. Hence m ject may be of I will first the 25 year ago time was a bree time was a bree said he rememb one of which wover 700 lbs., as 800 lbs. These than the ones M of keeping to do f helping to be times received. times, ranging year and a half of 400 lbs. and ove pigs, the old fa can remember ng enough to of corn through t



Duroc-Jerseys, B Whites and Suffe PATS NOT The raising and

short fat types w fit to us as we rais fall and after feed the winter we had fats in the spring and if they were they were poor run lers than singers, out to the hog pa composed of about and swamp. Here few peas they hunt about six month the hog with a goo length, was the bes The shorter fats hunt, but their sta them in healthy sh and early winter fe We housed these

We housed these fashioned pig pen a peas and water for months. At the confeeding they would three pounds a day they would weigh is. When ready for Christmas, they weig 450 lbs., and where 450 lbs., and when DON'T SATISFY

It would take a lon of this type to de-for themselves as th to-day has done. I w Macdonald would sa hotel in Toronto he breakfast bacon, and ed with a large slab fats. We always find ty of a product will demand,

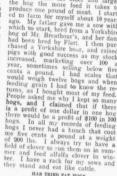
Is the old way of fe to the farmer? By re By re ments and from my

# THE BACON HOG UPHELD-EXPERIENCE WITH THE FAT HOG

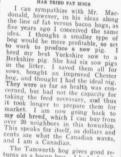
Geo. Laithwaite, Huron Co., Ont.

THE article, "Shall we go back to the Fat Hog?" written by Mr. MacDonald, appearing in Farm and Dairy of May 1st, should be honored with some comment. I have had years of experience with logs of different breeds, and have marketed hundreds of bcon hogs, and have also helped my father to raise the old fashioned hog, or what are called the thick fats. Hence my opinion on the subject may be of some value.

I will first say something about the 25 year ago hogs. When talking to Mr. Curvin to-day, who at that time was a breeder of Berkshires, he said he remembered killing two hogs, said he remembered killing two hogs, one of which when dressed weighed over 700 lbs., and the other lose to 800 lbs. These are a little larger than the ones Mr. Macdonald speaks of keeping to-day. I can remember of helping to butcher hogs several times ranging from ones. of helping to butcher hogs several times, ranging from one year to a year and a half old, and they dressed 400 lbs. and over. These were white pigs, the old fashioned Yorkshires. I can remember that their noses were long enough to reach the third row of corn through the fence. We raised



HAS TRIED FAT HOGS



The Tamworth hog gives good re-turns as a bacon hog. I had a bunch crossed with Berkshires, which gain-ed weight at three and one-quarter cents a pound on clover. I do not like the Tamworth, however, on ac-count of his color.

If we want to produce thick fats If we want to produce thick fats we can very easily do so with any breed of hog by feeding high in carbohydrates and fat and not allowing them to get exercise. With this method we will get the sloppy, soft pork of the fat type, but for the sake of the renutation our becomes pork of the fat type, but for the sake of the reputation our bacon is now winning on the markets, it behoves us as breeders to look after our own

The curate of and fashionable church was and fashionable church was mg to teach
the significance of to a Sunday
school class. Whe said he, "does
a bride invariably desire to be clothed
in white at her marriage?" As not
"White," did he, "stands for joy;
and the wedling he, "stands for joy;
and the wedling he, "stands for joy;
and the wedle if life."
A small boy querical, "Why do the
men all wear black?"

I believe that the older and larger the hog the more feed it takes to produce one pound of meat. I started to farm for myself about 18 years ago. My father gave me a sow with hog of Air, Breathour's, and her dam had been been a process of the started of the sta feeding grain I had to know the re-turns, as I bought most of my feed. People asked me why I kept so many hogs, and I claimed that if there is a profit of one dollar in one hog a profit of sl00 in 100 hogs. In all my records of feeding hogs I never had a bunch that cost me five cent and a bunch that cost

The Tamworth hog gives good re-irns as a bacon hog. I had a bunch

count of his color,

I was pleased to note what Mr.
Macdonald said about the packers
not paying by grade. If they did so
it would be no more than justice to
their own business, and would also
encourage the producers to produce a
No. I bacon hog. We have to consider the price hogs are to-day as
there its a limited market for thick
fat nork.

Regularity is as good as several pounds of grain a day in holding the cows to their milk. Have a regular hour for milking feeding, watering, and cleaning

HUNDREDS of farmers are proving to their own satisfaction that

# Caldwell's Cream Substitute

is a good business proposition any way they like to figure it out. The Mcal is precisely what the name implies—a substitute for the name implies—a substitute for the name of the name of

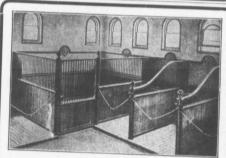
Ask your Feedman about it or write to us for full particulars. THE CALDWELL FEED CO., LTD., DUNDAS, ONT.

### MILK-COOLING

TANKS This Tank of our making is perfect as a Milk-Cooler. It condition, is strong and light. Never gets watersoaked. Is CLEAN, SANITARY, DURABLE.
Can be moved from place to place, or stored away,
or used for other purposes. Makes a good storage
ank for say.

STEEL TROUGH & MACHINE CO., LTD.





can equip your horse stable like this at a very low cost stable that you may well be proud of, and the best part of it is, it will look well, not alone when finished, but for years to

# BT Iron Horse Stable Fittings

BT Iron Stall Guards

are made of ½ inch iron rods secur-ed in a heavy frame. They allow the sunlight to flood every corner of the stable. They cannot be broken or in any way disfigured by the

BT Iron Stall Posts add greatly to the durability of the stable. No amount of battering will disfigure them.

BT Iron Stall Posts are grooved to receive the stall par-titions, and so save much time in constructing the stable.

BT Iron Feed Racks and Adjustable Mangers allow the dust to escape from the hay. They can be adjusted for dif-ferent widths of mangers.

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We also make Feed and Manure Carriers, Steel Stalls and Stanchions, Water Bowls,
Please mention if you name Catalogues.



Duroc-Jerseys, Berks Whites and Suffolks Berkshires, Chester

PATS NOT PROFITABLE

The raising and breeding of these The raising and breeding of these short fat types was lacking in profit to us as we raised our pigs in the fall and after feeding them through the winter we had a bunch of thick fats in the spring, about 10 or 12, and it has were not off their legs they were poor runners and short in the wind. Some made better whisting the wind. Some made better whisters than singers. We turned them out to the hop pasture, which was the wind. Some made better whitethe wind. Some made better whitelers than singers. We turned them
out to the hog pasture, which was
composed of about 60 acres of bush
and swamp. Here with the aid of a
few peas they hunted for themselves
the hour six months. We found that
the hour six months. The shorter fall bear big in the fall.
The shorter fall bear big in the fall.
The shorter fall bear big in the fall.
The shorter fall bear big in the oldfall and early winter feedings
We housed these pigs in the oldfashioned pig pen and fed them on
peas and water for two or three
muths. At the commencement of
the shorter from the shorter of the
would sa day. Wem housed
they would sa day. Wem housed
they would say two or
thristmas, the shorter from 175 to 250
lbs. When ready for market, about
Christmas, the shorter of the shorter of the shorter of
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the shorter of the shorter of the shorter
than the shorter of the shorter of
the shorter of the shorter of the
shorter of the shorter of the shorter
than the shorter of the sh

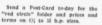
DON'T SATISFY CONSUMERS DON'T BATHSTY CONSUMENS
It would take a long time for hogs
of this type to develop a market
for themselves as the bacy
to-day has done. I wonder who a
Macdonald would say if when in
hotel in Toronto he were to ask for
breakfast bacon, and should be seryed with a large slab of the old thick
fats. We always find that the quality of a product will bring its own
demand.

demand.

Is the old way of feeding profitable to the farmer? By reports of experiments and from my own experience

# Why "MONARCHS" Are Best

Our "red circle" folder explains the wonderful "Monarch" farm engine, part by the This engine will saw, pump, and run cream separator, cut silage. I from place to place. Every part is made by experts, and made to last. is made by e. Get our folder.





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### Bigger Crops and Better Crops May be raised by Top Dressing with NITRATE OF SODA

15% Nitrogen 181/4% Ammonia ALL IMMEDIATELY AVAILABLE

The only Fertilizer that works in a cold soil.

Write for our Booklet on Home Mixing NITRATE AGENCIES COMPANY, Bay and Richmond Streets, TORONTO, ONTARIO

# OWL BRAND

ONLERAND On Cotton Seed Signifies highest quality and every business courtesy. Each sack tagged full 41% pro-

tein, guaranteed Great milk and meat producer. If your dealer can't supply you write us. We know some who will.

F. W. BRODE & CO., Memnhis, Tenn Canadian Agents-CRAMPSEY & KELLY, Dovercourt Rd., Toronto, Ont.

Fire destroyed a building that cost him \$8,000; all covered by insurance. But this insur-

> that much in the past few years.

The point for you is here: Fire may never destroy any

your property, t weather-rot

surely will if it is not well protected.

\$1,000 3 or 4 years ago would now cost \$1,500 to rebuild So don't let it "go

to nieces

he barn that cost

ance was \$3,000 under the cost of replacing the building. Materials have advanced

### HORTICULTURE \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Hints on Planting Trees

W. T. Macoun, C.E.F., Ottawa, Ont. W. T. Macoun, C.E.F., Ottawa, Ont.
One of the best crops to precede an orchard is the root crop. With roots on the land on the root crop. With roots on the land on the land on the root crops. The root crops the proper place and the root crops of the root of

small growth the first year.

Our experience with planting trees in the fall has been variable. Sometimes they do well and other times they make poor growth. They get but little hold on the soil in the fall and then have to stand exposed to the desired for the soil in the fall and then have to stand exposed to the dry cold winds for several months. By

necessary to go to a local nursery. Apple trees brought from a southern nursery if of a hardy veriety will grow just as well in this northern climate as home grown trees.

Crab apple stocks grow better on a moist subsoil than ordinary stocks. We have had much better success on our moist soil since we started to use

### Garden Notes

Garden Notes

Red cedar, Colorado blue spruce
and Black Hill spruce are excellent
evergreens for the yard or windbreak,
Window boxes should be prepared
now if they are to be used this summer. Cannas, geraniums, nasturtiums, coleus, petunias, and the trailing vinci make excellent plants for
this purpose.

Plantings of sweet corn may now be made frequently in succession. It is possible that the first few plantings may be injured by the frosts, but it is



Making Interest on the Young Orchard Land

Did one have to let orchard and die side for six to 22 years mutil the trees came to a profitable bearing and the side for six to 22 years mutil the trees came to a profitable bearing and the side of the side o

apring they are dried out and do not do as well as those set in what I becomes on early, lieve to be the proper season, the pring. If trees are delivered in the fall, they may be heeled in for the they begin to bud. They must not be they begin to bud. They must not be winter

DON'T PLANT TOO SHALLOW

Many trees are planted too shallow. The tender limbs are exposed to the air, the wood hardens and the sap being impeded there in its flow, there is a super-abundance of food at that point and suckers develop. At Ottawa we plant one inch deeper than in the nursery. If planted much deeper the

bark is apt to rot.

Young trees do not need plant food and I think that the manure applied to the young orchard is wasted. If the to the young orchard is wasted. If the ground is given good tillage, the plant food thereby made available will answer all requirements for the young trees. We do not trim the trees too closely when first set. We believe in giving the sap a chance to set. Theoretically a one year old tree is best. Practically a two or three year old tree makes the better growth, and two years is the preferable age. The older a tree is when planted, the quicker it will come into bearing. The difficulty in planting three year old difficulty in planting three year old

difficulty in planting three year old trees is that they are difficult to transplant and many die.

The larger a tree is before it comes into bearing the better the results will be afterwards. Trees stunted by poor cultivation can never be very profit-

If I can get trees dug in the spring, would prefer them. Trees dug in If I can get trees dug in the spring, I would prefer them. Trees dug in the fall are apt to be taken from the nursery row too early and they are not ripened properly. To get trees dug when you want them, it will be

led carefully, up to about the time they begin to bud. They must not be

they begin to bud. They must not be exposed to the wind or sun for even a minute, for if the resin sets in the roots, the plant might as well be thrown on the brush pile. There is still time to make a good lawn. Everly pounds of blue grass, lawn. The provided of the provided of the pounds are sufficiently as the provided of the pounds are sufficiently as the provided and provided the provided and provided the provided and red to grow guidely and and red top grow quickly and are gradually crowled out by the blue grass, which makes a much better lawn. Be sure that the lawn is finely raked and the soil is in the very finest condition of tilth before sowing any

Plant Lice in Spring .- Some trees and shrubs are loaded every season with plant lice. On those affected last year one is likely to find now small, black, shiny eggs at the ends of the twigs. These can be seen on small, black, shiny eggs at the ends of the twigs. These can be seen on fruit and other trees, various ornamental shrubs, and particularly on the buckthorn. As soon as the tender leaves begin to unfold on this shrub the eggs hatch, and the leaves shortly become loaded with lice. Why not, therefore, trim hedges and shrubs now, and burn the trimming-burn as well all prunings of fruit trees? It is very well known this plant lice increase at a tremendous rate when once started, thereforplant fice increase at a tremendous rate when once started, therefore, each egg destroyed now means the death of hundreds of lice, and the consequent lessening of the work of spraying later.—F. L. Washburn, Ensemble of the control of the control



\$2650.00 bu house, all mod garden, situate P.O., Peterbord Write for oth It'll pay you too to sell or buy. J. T. O'C

136 Hunte Open Evenings.

For Baby Chick Have you stock

Then why not erested know Farm and Dairy keepers to the Could you wis attractive field

For profitable; them one must and beyond he them and beyond he the set way is we make the ceven for small ted for only a feer inch each lines. \$1.00. This we give our lar big space in each classified and the set of them and the set of the set Classified rate each initial, sig count as one wo ways accompany advance for class Fix up your as are thinking abor-well sell your st /batching at good Farm and Dair message out to o

Farm an Advertising Dept.

Baby

Order your b now from or layingstrain COMB WHI HOR

Utility Pou T. G. DeLAMI STRATFORD



BRAND CRAMPSEY & KEL

# Look for the Lowe Brothers Little Blue Flag FARM SERVICE PAINT

one best for every utility purpose around your coperty. Basy to put on, hard to wear off in the purpose where the purpose were purposed in the purpose which is the continuous purpose which is not tought when the purpose which is not tought to the purpose when the purpo

Lowe Brothers Limited 269 Sorauren Ave., Toronto Dayton New York Boston Chicago Kansas City



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Stood bys 113
cres choice land, 80
cres under cultivaion, balance wood and
asture lands. Good
roomed house. New
ank barn and other
ut-buildings. Terms
basonable.

\$5000.00 buys 3 stopart containing 10 rooms, 7 bedrooms, all modern improvements, 6 minutes from P.O. rented at present. Would exchange for other property if suitable.

for other property if suitable.

\$255.00 buys a beautiful, 3-storey house, all modern improvements with house, all modern improvements with garden, situated 5 minutes walk from P.O., Peterboro. Sold on reasonable terms. Write for other attractive offerings.

pay you to come to us when you want sell or buy. For full particulars apply

J. T. O'CONNELL & CO. 136 Hunter St., Peterboro Open Evenings. Phone 376



For Baby Chicks and Eggs for Setting Have you stock you wish to dispose

Then why not let those who are inthe why not let those who are interested know of your proposition. Farm and Dairy readers are poultry keepers to the extent of 98½ %. Could you wish to reach a more attractive field?

attractive field?

For profilable sales and plenty of the most must reach out may have not made and began the most must reach to the most must be a first the most way to to advertise.

We make the cost very low to you we must be cost very low to you we must be the times—only \$1.49 per lack. It we times—only \$1.49 per lack. It will be the most must be the most must be the most must be a first must be a first

Classified rate only 2c per word, each initial, sign, figure, etc., to count as one word. Cash must al-ways accompany order strictly in advance for classified ads.

Fix up your ad, now while you are thinking about it. You may ac well sell your stock and edgs for Jatching at good prices!
Farm and Dairy will take your message out to over 16,000 possible buyers.

Farm and Dairy Advertising Dept. Peterboro, Ont.

# Baby Chicks

Order your baby chicks now from our splendid laying strain of SINGLE COMB WHITE LEG-HORNS

**Utility Poultry Farm** T. G. DeLAMERE, Prop. STRATFORD



and Poultry Feeds

BRAND CRAMPSEY & KELLY Dovercourt Rd. TORONTO, Ont

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

assasassassassassassassas R The Buttermaker's Poultry

P. von Mehren, Hinchley, Minn. P. von Mehren, Hinchley, Minn.
Three years ago, when I started
to work in whole milk creamery
near Merril, whole milk creamery
near Merril, and the surplus time
in the afternoons, I made up my
mind to keep some of made up my
mind to keep some of the surplus
over to my neighbors and case. I went
over to my neighbors and sign of the
near and one rooster, all sign was
hens and one rooster, all sign was
hens and one rooster, in March I
think, and of course I got from six
to seven eggs a day (as all hens will
to seven eggs a day (as all hens will
any cinckuns, at all). But the eggs
any cinckuns, at all). But the eggs my in the spring months if they are any chickens at all). But the eggs were just like the hens, all sizes and colors, some white and others brown. colors, some white and others brown. However, I set some of the hens with some of the eggs and hatched fifty chicks. All the cockerels from the hatch I sold in the fall for market price, which I think was 10 cents a pound

pound.

Among the ten hens I had, there were two or three S. C. White Leghorns, and I noticed that they laid two eggs to the others one, and the eggs were bigger at that. So I decided to legis were bigger at that. So I decided to keep only that kind, and sold all yold hens except the Leghorns. Of course, those I kept were not full-blooded, so I bought a full-blooded, so I bought a full-blooded occk bird for \$2. I also got hold of some poultry books and subscribed to some poultry backs and subscribed to a poultry apper. a poultry paper.

A SCIENTIFIC BREEDER

That winter I had eggs all winter. I learned in the poultry paper to pick out the best layers and use eggs from them for setting. When spring came I picked out I4 hens and put them in a separate zoop with the cock bird, and used only the eggs from these loss for hatching. That summer I hatched II 0 small chicks of which 48 were pullets and the rest cockerels, and some especially fine ones among and some especially fine ones among That winter I had eggs all winter. and some especially fine ones among them.

them.

My first pullet started to lay in
November when six months old, and
I had eggs and plenty of them all
winter. The eggs I didn't use myself
I took to town. When hatching sea-November when six months old, and I had eggs and plenty of them all winter. The eggs I didn't use myself I took to town. When being season came around I bought an ineubasion came around I bought an ineubasion, also two more cock birds a shipped in from Minnesota, paying \$6 apiece for them. I think I had been about 300 chicks that season, besides selling some eggs for hatching come eggs for hatching come eggs for hatching came eggs for hatching also with a several day old the selling and th date burn for my hous. Now after the three years improving my stock I have some very fine birds, not only in color and shape, when the pullets were four months and the pullets were four months and the pullets old, and in the last five months and the first of October 1912 to the form the first of October 1912 to the form average of 105 eggs a hen.—Butter, Cheese and Egg Journal.

Getting Results .- Letters are com Getting Results.—Letiers are coming from all through Canada with inquiries for stock and eggs from our wysandottes, showing us that your paper covers possible buyers from the islands of the Atlantic to the islands of the Pacific.—McLeod Bros., Stoney Creek, Ont.

"The Danish egg man sells to the English wholesaler. The keen busi-ness man can do business cheaper than can the cooperative society."

Feed Growing Chicks Right

pratts Baby Chick Food

ingredients to give them during the first three t, at a cost of 1c per chick. In boxes and bags, up. After the third week mix pratts Poultry Regulator

in to aid digestion and make the greatest gain for every pot onsumed. 28c, 88c, \$1. 25-1b. Pail. \$2.54 money back if it fails." PRATT FOOD CO., OF CANADA, LTD

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WONLY can be made easily by the proper friends and getting them to subscribe.



# An Unsolicited Testimonial

CLEAR-EYED young farmer stepped up to a manure spreader demonstrator at the 1912 Chicago

A manure spreader demonstrator at the 1912 Chicago Live Stock Exposition and, pointing to one of the spreaders in the exhibit said:

"I own one of those machines. It is the strongest spreader lever had on my farm, and I've had a number of different machines. I honestly believe that if I filled that spreader with soft coal it would spread the stuff for my spreader lever. I wouldn't trade it for any spreader I ever owned or saw;

owned or saw."

This unsolicited recommendation from a man who had used an I H C spreader, and therefore knew what it would do, carried weight with his hearers. They might have doubted whether an I H C manure spreader would spread soft company as no doubt in their minds that an I H C spreader had spread more to this man's attire satisfaction. This is a typical case showing what users think about the satisfaction.

I H C Manure Spreaders Corn King and Cloverleaf

I H C manure spreaders are made in many sizes, running from small, narrow machines for orchard and vineyard spreading to machines occapacity for large farms.

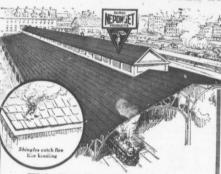
They are made with either ended with either ended with either ended with either the sor remains a you prefer.

The rear remains apons as you prefer of tractive power at all times. Beaters are of large disarring plenty of tractive power at all times. Beaters are of large disarring plenty of tractive power at all times and pulverize the manure are sequer and chisel pointed. The apron drive controls the load, increasing whether the machine is working up or down hill, or the level. I H C spreaders have a rear axle differential, enabling them to spread evenly when turning corners.

rear axe differentials, contains the machines will show you all their good points, and will help you dicide on the one that will do your work best. Get literature and full information from them, or, write the nearest branch house.

International Harvester Company of Canada, Ltd BRANCH HOUSES





### This Roofing Used Twice!

Most roofs have but "one life," This roof pictured above had 
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Northwestern R. R. in Chicago was torn down, its roof of NEPRINET 
Paroid, after fighting moke, burning cinders and storn for eight years, 
was rolled up and used to roof other stations. 
It's still gring perfect service. NEPRINET Paroid Roofing is constantly doing the perfect service. NEPRINET Paroid Roofing is constantly doing the perfect service. NEPRINET Paroid Roofing is constantly doing the perfect profing to give 
"Covered with NEPRINET Paroid" means that you have protected 
your stock, implements, pact, with the safest, sanest and surest 
product which the development of prepared roofing affords. It's a 
quality product. Abyone can lay it.

# NEPONSE

# Waterproof Building Products

Roofings NEPONSET roofings are fire protection, leak-pro and long lived. Anyone o laythem, REPONSET Pare Roofing is for general use. NEPONSET Proslate Roof-

66 - Farmer's form Scale, lbs. capacity,

**Building Papers** If NEPANSET Waterproof Building Papers are built into walls and floors, the building will be warmer, will cost less to beat and will last years longer. Recom-mended by architects, engi-neers and building owners

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Wall Board

Are you going to build? Write for valuable information about modern ways to was weatherproof. Sendsfor samples, free booklet and name of nearest NEPONBET BIRD & SON Est. 822 Heintzman Building, Hamilton, Ont. Montreal St. John, N. B. W. BIRD & SON

### Gates for Poultry Runs

The "runs" in connection with the The "runs" in connection with the two new buildings erected by the Poultry Department of the Ontario Agricultural College, illustrated here-with, are highly interesting from a constructional point of view. There are 33 runs in all, each being 47 feet

ng by six feet six inches wide.
The so'ution of the problem of fencing these runs was provided by a c'ever combining of steel gates, each united rigidly to its fellow by a simple bolt and nut device. No ground posts are required, and by the loosening of a few nuts-two to each gate the whole equipment can be easily removed so that the ground can be cleaned or nlowed right up to the buildings. The gates are five feet buildings. The gates are five feet three inches high, a notable feature being the top bar, a steel pipe placed six inches below the top wire. The idea behind this construction is that a hen in attempting to alight on the

endeavor to develop laying strains of the highest efficiency. The general plan of the new runs was obtained by Professor Graham during this recent visit to Great Britain, from the pheas-ant farms so common there, and the practical working out of the idea was entrusted to The Canadian Gate Com-pany of Guelph. "The order will go to the man who gives me the best idea." said Professor Graham to competitors for the order,

### Bedding for Live Stock By William Galloway.

Whenever I see a good herd of cat-Whenever I see a good herd of cattile, horses, or hegs, as fine flock of
sheep or a large, sprightly flock of
poultry. I know just what sort of a
caretaker is behind then. So much is
written about feeding and breeding,
that bedding is overlocked, when it is
just as important as feeding.

If a horse must rest in a wet, fifthy



An Unique Method of Constructing Poultry Runs

One hundred and fitteen steel gates have been used in building the runs in con-nection with the new O. A. O. poultry house here seen. A description of this method of poultry run construction will be found in an article adjoining.

runs are attached are those where the trap-nesting is done in connection with the experiments being conducted by Professor W. R. Graham in his

top bar is thrust back into the pen stall, he will go into the morning's by the top wire. Side gates are 15 work feeling sore and tired, skin and feet six inches wide, three to a run. hair dirty and not feel good all day. End gates are 13 feet wide. Thus If he is a cit such treatment retards there are in all 115 gates.

The poultry houses to which these stall bedded knee-deep in straw will his perfect development. A roomy stall bedded knee-deep in straw will do him as much good as a feed of grain, whether he is growing or work-

Look in at the barn of the suse The color in at the hurn of the authors are due to the color in an are due to the color in a color

Brood sows cannot do their best in coming through the winter without a coming through the winter without a coming through the winter without a coming through the series of the series o

which to scratch for her feed and this induces her to lay.

We enjoy the Household Department and the Horticultural and Dairy articles. We find the Upward Look excellent reading. Farm and Dairy is the first paper that is read when the mail comes.—C. Tennant, Lanark Co., Ont.

I was advised last year to take Farm and Dairy, and have found it such a good paper for a farmer that I would not now be without it. S. W. Armistead, Prince Edward Co.,

GET OUR SCALE BOOKLET FREE

# MAKE THE FARM SHOW BIGGER PROFITS

Unless you weigh your live stock, grain, roots, cheese etc., before they leave the farm, you stand to lose money. You are at the mercy of the bad scale, the poor reckoner and the "Smart Alec." You have earned a profit which you do not get.

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Then, too, when you own a Wilson Scale you can note the progress of your live stock, and sell at the right time.

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Every day this Scale will show you new ways to add to your profits.

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The book "HOW SCALES STOP THR LEAKS" is one we have prepared for Farmers—to whom it is of vital interest. A copy will be sent you on ap-

By its aid you will see where your profits can be increased, Get your copy before the leaks drain away the profits from the Drop us a line to-day for it.

C WILSON & SON SCALES 93 ESPLANADE TORONTO

May 15, 19 \*\*\*\*\*\*\*\* The Fee

The Feeders' of our subscriare invited to send items of tions will received X-------

Feed for How should I fe

and oats, clover stuffs?-R. T. H. C., The feeds give likely to give good duction of milk, judiciously. "A rather an indefined it could be i bran, then I wo lowing as a methoresults—in June, be green forage t night and morning cattle need; then a mixture of 500 barley, 100 lbs. barley, 100 lbs. lbs. buckwheat ar each four pounds duced by the cow comes in the amorgradually decrease found advisable amount, say a pou a half a day, even most plentiful sup or grass.

Feed for H

What is the properties a pure-bred Heaturity?—R. C., Has Whole milk show least one week week a change ma whole milk to skim be brought about gr

be brought about gring each day a re-proportion of skim amount of whole mil skim milk should be skim milk should be 90 to 100 degrees From less. To replace been removed from well as to furnish a it is well to add some the ration. This jell in small quantities a ncreased. Begin with ful in each portion a crease until about a fed night and morn

months old calf. To prepare the jell steep, one pound of water almost boiling paste results. And preparation is to tal ground flax in a qua allow to simpson in paste results. allow to simmer just point until a thick je should be kept cool

Another good jelly the milk is prepared part pure ground flax finely-ground corn m parts finely-ground and the whole well m and allow to stand for ered. Begin with or per day for the calf old; new milk for the and no solids. Incr ance as the calf grows to exceed a half-pound In addition to the fi and no solids.

the calf meal just des Start with very ties. Some clean, swe will be a valuable addi tion at a very early da

Whey may be used we is not to be had. Cha to whey as from whole milk (see method our The flax seed jelly, etc used just as with ski

(11)

### skim milk should be fed sweet for some The Feeders' Corner

The Feeders' Gorner is for the use of our subscribers. Any interested are invited to ask questions, or send items of interest. All ques-tions will receive prempt attention. 

### Feed for Grade Cows

How should I feed grade cows for best results with ground barley, buckwheat and oats, clover hay and a little mill stuffs?—B. T. H. C., Prince Edward Co.,

Ont.
The feeds given are such as are The feeds given are sucn as are likely to give good results in the pro-duction of milk, provided they are fed judiciously. "A little mill stuffs" is duction of mass, productions, productions, and indefinite term; but provided it could be interpreted to mean bran, then I would suggest the following the suggest that the sugge lowing as a method likely to give good esults—in June, there will, of course, be green forage to add: Clover hay night and morning, as much as the cattle need; then about one pound of a mixture of 500 lbs. bran, 100 lbs. barley, 100 lbs. backwheat, or 200 lbs. buckwheat and 300 lbs. oats for each four pounds of milk being produced by the cow. When green feed comes in the amount of meal may be gradually decreased; but it will be found advisable to feed a small amount, say a pound or a pound and a half a day, even during the time of most plentiful supply of green forage or grass. be green forage to add: Clover hav

### Feed for Holstein Calf

Feed for Holstein Calf
What is the proper feed required to raise a purebred Holstein bull calf to maturity—R. O. Hastings Co. Ont.
Whole milk should be feed for at tweek a chack. During the next week a chack make milk by should be brought about milk. This should be brought about milk for the same and the should be brought about milk for the same amount of whole milk with arm. The skim milk should be fed warm. The skim milk should be fed warm. The skim milk should be fed warm. The skim milk should be fed warm to be skim milk and to furnish additional protein, it is will to add some fax seed jelly to the ration. This jelly should be added in small quantities at first and slowly increased. Begin with a dessert spoonfall in each various not argued to favorition and gradually increased. Begin with a dessert spoonfall in each various and gradually in. increased. Begin with a dessert spoon-ful in each portion and gradually in-crease until about a cupful is being fed night and morning to the three months old calf.

To prepare the jelly, boil, or rather steep, one pound of whole flasseed in seep, one pound of whole flaxseed in water almost boiling, until a thick paste results. Another method of preparation is to take half a cup of ground flax in a quart of water and allow to simmer just below the boiling point until a thick jelly is formed. It should be kept cool and sweet until fed.

Another good jelly for mixing with the milk is prepared as follows: One part pure ground flax seed, two parts part pure ground flax seed, two parts in pure ground expression in the ground expression in the

ties. Some clean, sweet clover hay will be a valuable addition to the ration at a very early date.

tion ht a very early date. Whey may be used where skim milk is not to be had. Change from milk to whey as from whole milk of the skim milk (see method outlined above). The flax seed jelly etc., should be used just as with akim milk. The

skim milk should be fed sweet for some time at least. If it is likely, how-ever, that it will sometimes be sour it is advisable to gradually change to sour milk and feed sour milk invar-iably. The calf should be kept in a scrupulously clean pen. It should be dry and warm in winter and dry and cool in summer. A strict observance of the following general directions will almost certainly insure success: 1. almost ortainly insure success: 1.

Treat the calf kindly and carefully.

Be serupulously clean as to food, pails or troughs, and pen. 3. Make all changes in character of food very cardials.

This avoids whether all changes in character of food very gradually. This applies whether changes be as to temperature, per-centage of butter fat, acidity or sweetness, quantity, times of feeding or any other feature in connection with the food. 4. Feed only whole-some food, feed regularly, and feed in sufficient quantities, but not too gen-erously.—J. H. G.

### Grade Cows in Semi-official Test

Owing to a demand for yearly 'semi-official' records of grade cows, the Wisconsin College of Agriculture has announced that the College will has announced that the Conege win test grades and "natives" in much the same manner as the records for the same manner as the records for pure breds have been determined in the past. The department of dairy tests will supervise the milk and feed records of the cows, as well as conduct the monthly tests, and will certify to the production of milk and butterfat at the close of the testing year. This at the close of the testing year. This at the close of the testing year. Inis will enable farmers to obtain authen-ticated records of the production of exceptional producers in their herds, irrespective of the breeding of the

Cows,

The expense for these tests will be
the same as for pure breds, viz., §6
per month for tests of one day's duration for 10 cows or less, and \$8 per
month for tests of two days' duration
for the same number of covered month for tests of two days' duration for the same number of cowa or \$72 and \$96 per year. Year of the complete of the completion of the yearly record nest certificate of production, estimate of production, will be issued, which will be are the signature of Dean H II. Russell of the College and of Prof. F. W. Woll, in charge of Dairy Tests. On account of the expense involved, but few grade or native cows have

On account of the expense involved, but few grade or native cows have been tested up to the resent time, but as such cows make up to the dairy herds in the attainment of the dairy herds in the attainment of the dairy herds in the state of the state of the dairy herds in the state of the state of the dairy herds in the state of the state of the dairy herds in the state of the state o

The testing of pure bred cows has been conducted by the College for the been conducted by the College for the past ten years, in cooperation with various dairy breed association, and have been of great value to breeders of dairy cattle and, indirectly that the dairy interest of the state. With the inauguration of this more liberal policy even greater improvement should result in the future—Butter, Cheese and Eow Journal. and Egg Journal.

### The Wherefore of Under-' drainage

(Continued from page 5) when dry weather came and the water table receded rapidly, we had a crop with a shallow rooting system and hence not half the ability to collect hence not had the author to conecu-moisture from the soil as did the crops on the tile drained land where the roots grew right down to the tile because there was no water table to in-

This problem of tile draining to get better crops in warm weather was such better crops in warm weather was such a perplexing one to farmers in our community that I am writing this explanation for the benefit of farmers in other communities who may be similarly perplexed.

# SHARPLES MILKER

THIS equipment is revolutionizing modern dairy operation. During the four years since its perfection it has been installed with unqualified success in hundreds of the leading dairies throughout America and abroad.

The distinctive features of the SHARPLES MILKER, to which its complete success is due, are the Teat Cups with which its complete success is due, are the real cups with the Upward Squeeze and the Patent Pulsator operating them. This device reproduces nature's own method of milk ex-traction, which the most skillful handmilking cannot do.

The cows are more contented. The teats and udder become far better conditioned. The milk product is absolutely uncontaminatedpure and more valuable. Labor cutto one third.

Sharples Mechanical Milking means the end of all drudgery of milking.

Practically every dairyman can visit installations of SHARPLES MILKERS within easy distance, where the actual operation of this equipment can be observed under conditions approximating his own. We shall be pleased to hear from dairyman with a view to their making such inspections.



Agencies Everywhere

Take Notice

Ye Advertising Men and others that it is now high time you were getting your copy ready and orders in to "F. & D."

for great 5th Annual Farm Machinery Number, June 5. Press days are May 28 to 31.

### INTERNATIONAL POULTRY FOOD Will Just Double Your Profits

There is more than increased eag production for you in International Poultry
This wonderful tonic—made from roots, herbs and
nedicinal his wonderful tonic—made from roots, herbs and
revents diesea and sicknowners and hers vigorous and healthy. Cur purple
nedicinal and fibre. It is very beneficial good health, supplies material for bone
sizes from here for International Poultry
coaf produce fine, vigorous chicks



Forceful address missioned Marker Deputy Minister

the annual conven



"Vanity on the highway" still pays a ridiculous toll for automobile travel. But two hundred thousand new Fords will this season go to buyers who prefer real service at reasonable cost rather than ostentatious display at unreasonable

Our factories, produced nearly a quarter of a million Model T's. Prices: Runabout, \$675, Touring Car, \$750, Town Car, \$1,000—f.o.b. Walkerville, Ont., with all equipment. For particulars get "Ford Times"-an interesting automobile magazine. It's free—from Walkerville factory. Ford Motor Company of Canada, Limited.

Phone and neighbors right now while you are ask them to become subserbers to Farm and Dairy You can easily get up a club in this way, and 9 new subserbers you know will entitle you to one of Farm and Dairy a Pre-bred Pige.

ADVERTISE in these popular col-costs you only \$1.40 an inch.

S.C.R.I. RED EGGS, from good laying strain, \$1.00 per 15. Shipment guaran-teed.—Jas. C. Barrens, Indian River, Ont.

Opinions on National Show

Opinions on National Show
The meeting to discuss the holding
of a National Live Stock Show in
Toronto, reported fully in Farm and
Dairy last week, was not the love
feast that its promoters expected.
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the Dominion or Provincial Governments.

Mr. J. M. Gardhouse, of Weston, speaking for himself, was favorable to the holding of a truly national show, but not of holding a local show. It would not do for the proposed show to conflict with existing shows.

Prof. H. H. Dean, of Guelph, thought that the students of Guelph, and the management of the Guelph and the management of the Guelph Winter Fair would be willing to give their support to such a show, providing it did not conflict with the Guelph Winter Fair, which would be held willing to sink their men should be willing to sink their support of the cooperate in the holding of such a show.

differences and cooperate in the holding of such as how,
Mr. J. H. Grisdale, of Ottawa,
Director of Dominion Experimental Third p
Farms; Mr. J. Lockie Wilson, Superintendent of Agricultural Societies, had \$15
Toronto; Mr. Blane represented the troronto Board of Trade, and Mr. J. Keome,
G. Kent represented the Canadian of \$25,
National Exhibition. Each spoke next 12
briefly and expressed themselves as to \$111.

being in sympathy with the idea of the proposed show, providing it was conducted on national lines, and did not conflict with existing shows.

Items of Interest

The Canadian Forestry Association have announced July 7 to 9 as the date of the Dominion Forestry Convention to be held in Winnipeg. The other phases of prairie tree growing will occupy a large share of the attention of the delegates

All individuals or firms engaged in the business of bringing immigrants the business of bringing immigrants to this country or have business dealings of any kind with immigrants are required from now on to have a license from the Superintendent at Ottawa. This license will be issued without fee upon the Superintendent being satisfied that the applicant is complying with the requirements of the Immigration Art. This art is designed for gravation Art. This art is designed for gration Act. This act is designed for the protection of laborers coming into

gration Act. This act is designed for the protection of laborers coming into this country.

During the past winter, 34 Alberta boys have been conducting a steer feeding competition under the auspices of the Canadian Pacific Railpies of the Canadian Pacific Railpies of the Canadian Care the Canadian Steers Indeeding competition under the auspices of the Canadian Pacific Railpies Canadian next 12 competitors ranged from \$106

Dairy Association critical state of the the west. This cat Olds, Alberta, Fourteen years a pound, and there market for the hom late as 10 years ago shipped to Ontario Saskatchewan to rel The interval has se the matter of mark grown up in a day capacity for spendir tion has not kept t sant influx of settle year just closed, butter were consu 11,500,000 lbs. comi The country that fel



of its own supply.

Nor is production de year say an increase in the butter produced a wholesale price of maintained; thus it m the Western trade is ing. In the opinion there is no reason why the country should no of a great dairying addition to the proxir gry. wealthy market, grain and fodder pe than elsewhere on the

can now only manufac

Despite this rosy out is in a treacherous r market is being invaded land butter. In the f land butter. In the fr tariff, this foreign butter east as Calgary, receivi two cents preference manufactured article. and overseas competito and overseas competitor to the higher prices pa sending in the best they At present we have no b system, and the flat re-merchant unwilling to involved when he can ge ter with a government proval. According to Marker's analysis, the which we can meet this by producing a better q

aported commodity. Mr. Marker here got ity to give cream gradin the west at least, said he that cream grading has the quality of the crear quently that of the but up. If this practice is can enjoy the natural a

BREEDER IS KNOWN BY THE BULL HE KEEPS

# We Are The Bulls That Made Geo. Anderson Famous

I am "Francy Bonerges Korndyke"

"The daddy of them all," Velstra Triumph



"Buy the Best, breed Better," is my owner's motto. "Old Triumph" was been first, but joint at my "Young stuff." Of course they're out of his shapes, and those two locarest dams milling over 100 bis. a dayout of his shapes, and those two but he needn't think he's the only bull on this farm. Considering my age my built, and them my mother milked over 87 lbs in a day and made Canada. Then again my best 8 yr old you know she was Champion over Canada. Then again my father is a won or "Youthe Korndyka." Say, I have some breeding!



"He bought me to make good. I have. Look at my daughters. I tell you the test of a bull is the kind of cows he sires. "I can't forget those great milk records of my dams, no wonder the youngers produce, they're bred that way.

sters produce, they re brod that way.

"Constitution, res I have any amount of it and, better still, I transmit it along with those milking qualities, to my daughters. That shows I'm prepotent also. Pretty good things to have in a herd bull. Bay, taking interpotent also. Pretty good things to have in a herd bull. Bay, taking into consideration my Breeding, Individuality and Progeny, I'm a Wooder!

You Don't Experiment When You Buy These Bulls or Their Progeny They have been Tested, Tried and found Not Wanting

On June 12th, 48 Head (mostly these bulls and their progeny) will be sold by auction Evergreens Farm, Rossmore, Ont. (Befleville District)

Plan NOW to be There - - It will be a June Fair - - Take a Holiday!

(Specially reported for Farm and Dairy by P. M. Abel)
Forceful addresses by Dairy Commissioned Marker and G. Harcourt, Deputy Minister of Agriculture, at Deputy Minister of Agriculture, at the annual convention of the Alberta Dairy Association, laid bare the critical state of the dairy industry in the west. This convention was held at Olds, Alberta, April 31st and May

Fourteen years ago, said the speakers, butter was selling around 10 cents a pound, and there appeared to be no a pound, and there appeared to be no market for the home production. As late as 10 years ago, 300,000 lbs. were shipped to Ontario from Alberta and Sa-katchewan to relieve the glut here. The interval has seen a revolution in The interval has seen a revolution in the matter of marita. Cities have grown up in a day with a profligate or party for the party production has not kept up with the incessant influx of settlers. But the party in the party of the party of

The Alberta Dairy Convention location and cheap crops, and the (Specially reported for Farm and artificial advantage of the exceeding tariff discriminating against the New Zealander. Not until cream grading is in force, can dairying in the west assume its rightful proportions.

MIXED FARMING EXTENDING MIXED FARMING EXTREDING
Last year the provincial government started on foot a mixed farming
propaganda. This matter with
hearty response and farm met with
hearty response and farm the the
increase was cattle and hogs. Particle
lilott estimated that 5,000 dairy
cattle were brought into the province
last vear most of these coming from

last year, most of these coming from

Ontario.

The demand for anything that could be called a milk cow was so strong that prices went soaring. An ordinary price for a registered cow is \$250. ary price for a registered cow is \$250. Some unscrupulous dealers, taking advantage of farmers with more capital than experience, abipped in a lot of worthless culls that are going to cause worthless culls that are going to cause have a heavy increase in production from last year's importation, but indiscriminate buying of poor stock hurts the business incalculably. When









Lump Rock Salt, \$10 for ton lots, f.o.b. Toronto nto Salt Works, 128 Adelaide St. E G. J. CLIFF, Manager Toronto, Ont

You take a half hour now and yet busy on the telephone to your free and neighbors and tell them down the many valuable thinning Farm and Dairy. Then all them to subscribe. Get up up a real wise club. We'll pay you well.

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

FOR CHESTER WHITE SWINE. 6 to 8 weeks old, apply S. A. Caldwell, Billings Bridge, Ottawa, Ont.

SINGLE AND DOUBLE ACTION CUTA-WAYS for sale. Recommended by Mr. Grisdale, F. Hamilton strace of them working here and has ordered others. Fruit Farms for sale. Write J. Widdi-combe, James Street, St. Catharines.



"LONDON" Cement Drain Tile Machine Makes all sizes of the from 3 to 16 inches. Cement Drain Tile are here to stay. Large profits in the business. If interested send for containing the contain

(13)

### SEND \$1

Receive 5 Cloth Remnants for Boys' Give age and we will cut ready to make.

Standard Garment Co., London, Ont.

A Pure Wholesome Nutritious Meal CALFINE

CALVES LAMBS COLTS PIGS



**GUARANTEED** ANALYSIS

Protein . 20 per cent. Fat . . . 8 per cent. Fibre . . 4 per cent.

Save \$15,00 to \$20.00 on Your Calf Feed

Write for Booklet and Prices CANADIAN CEREAL AND FLOUR MILLS, LIMITED Toronto, Ontario



A Type of Roof that Affords Much Storage Reom

Last year when H. C. Garbuty. Feerborn Co. Ont., erected his new barn he adopted a style of roof that admits of almost trice the storage room had found in the roof of the old-fashioned barn. The roof is in the form of a half-style and is of corrugated from.

can now only manufacture 20 per cent these high-priced cows fail to bring the dividends, the industry will get of its own supply.

Nor is production decreasing, as last the blame

Nor is production decreasing, as last year as wa in increase of 28 per cent in the butter produced. Last summer a wholesale price of 27 cents was maintained; thus it may be seen that the Western trade is worth cultivating. In the opinion of all speakers ing. In the opinion of all speakers there is no reason why this section of there is no reason why this section of the country should not be the centre of a great dairying industy. In addition to the proximity to a hungry wealthy market, we can grow grain and fodder perhaps cheaper than elsewhere on the continent. The production in 1913 may be large enough to cause a small decline in the price of milk and cream. This should not, however, affect the importation of worthy animals; they are all too scarce in the West.

scarce in the West.

Foultry Nutrition Aliberta.

Foultry Superintendent Foler outlined to the convention plans for the cooperative marketing of eggs and cresse. whether, Owing to the next of knowledge among producers, mense quantitus of unaound eggs are now offered to the trade. This, more than anything else, is responsible for the present difference of from 10 to 30 cents a dosen between the price at 30 cents a dozen between the price at Calgary and country points. Caigary and country points. Trans-portation is very expensive and stor-age facilities limited. This combina-tion of adverse circumstances has kill-ed all but the local egg trade in Al-

The future efforts of the Poultry Branch will be along lines of stimulating the production of a higher quality article and marketing cooperatively through creameries. Last year the egg trade of the province amounted to \$1,000,000. With the government regulation of marketing, Supt. Poley predicted an increase of 100 per cent for the coming year. The future efforts of the Poultry

(Continued an page 16.)



# Boys! Boys!! Boys!!!

What say you to fulfilling your wishes and getting a pure bred pig of your very own. We have a pure bred pig for you. Here is your opportunity to get



YOUR CHOICE

Free from Farm and Dairy

TAMWORTH, YORKSHIRE OR BERKSHIRE

You need only to see 5 of your father's friends and mighbors who are not now the parm and bairy, get them to take Farm and pairy, get them to take Farm and pairy for a year; seed us to be a parm and bairy, get them to take Farm and part of the seed of the se Bright boys can win one of these pure bred pigs on a Saturday, or in a few aft

the way home from whole.

Over 780 boys and other people have won Farm and Dairy pure-bred pids:
these pids are dandies every one of them. You'll be proud to own one.
Say you write to Farm and Dairy right away and say: "I want to win
one your pure-bred pigs. I'll get the nine nead whose pids will be a some some of your pure-bred pigs. I'll get the nine nead whose pids you one some your gather's friends and neighbors.

You can possible, "then get bours getting your father's friends and neighbors, while your thinks about it.



Farm and Dairy Peterboro, Ont.



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OUTSIDE COMPETITION Despite this rosy outlook, dairying

is in a treacherous position. The market is being invaded by New Zea-land butter. In the face of a heavy tarift, this foreign butter comes as far tarif, this foreign butter comes as far east as Calgary, receiving as much as two cents preference our the home anufactured article. Both eastern and overseas competitors, from the to the higher prices paid her are sending in the best they can produce, sending in the best they can produce, At present we have no butter grading system, and the flat rs'e makes the merchant unwilling to take the risk involved when he can get foreign but-ter with a government stamp of apinvolved when he can get foreign but-ter with a government stamp of ap-proval. According to Commissioner Marker's analysis, the only way in which we can meet this competition is by producing a better quality article that will fetch the same price as the inpurted commedits.

per producing a better quality article that will fetch the same price as the imported modely.

Mr. Merchandeliy.

Mr. Merchande

### FARM AND DAIRY upon which he is able to obtain ad-ticularly in the higher grades of rural ed delegates to a conference that will

AND RURAL HOME

Published by the Rural Publishing Comof Paris

I. FARM AND DAIRY is published every Thursday. It is the official organ of the British Columbia, Eastern and Western Ontario, and Bedford District, Quebec, Dairymen's Associations, and of the Cana-dian Holstein Cattle Breeders' Association.

dian Holstein Cattle Breeders' Association.

2. SUBSCRIPTION PRICE, \$1.00 a year.

Great Britain, \$1.20 a year. For all courtries, except Canada and Great Britain,

add 50e for poetage. Notices of the expiration of subscriptions are sent to all

subscribers, who then continue to receive

the paper until they send notice of dise paper until they send notice of questionation. No subscription is contued for more than one year after date expiration. A year's subscription free a club of two new subscribers.

or a club of two new subscribers.

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

the banks.

4. CHANGE OF ADDRESS.—When a change of address is ordered, both the old and new addresses must be given. ADVERTISING RATES quoted on ap

5. ADVERTISATO A.

1. Copy received up to the Frida preceding the following week's issue. UNITED STATES REPRESENTATIVES STOCKWELL'S SPECIAL AGENCY Chicago Office-People's Gas Buildings. New York Office-266 5th Avenue. 6. WE INVITE FARMERS to write us only agricultural topic. We are alway aleased to receive practical articles.

CIRCULATION STATEMENT

The paid subscriptions to Farm and Dairy exceed 15.28. The nectual circulations to such that the subscriptions of the subscriptions of the subscription and sample copies, variety in arrears, and sample copies, variety from 16.19 to 17.300 copies. No subscriptions are accepted at less than the full subscription rates.

subscription rates.

Sworn detailed statements of the circulation of the paper, showing its distribution by counties and provinces, will be

free on request

tion by counties and provinces, will be mailed free on request.

We gauge of the country of the

pay the debts of honest bankrupts

FARM AND DAIRY PETERBORO. ONT.

### CHEAPER FARM CREDITS

In the discussion of economic conditions as they relate to agriculture, the opinion appears to be held by many that if changes can be brought about by means of which farmers will be enabled to obtain loans on low terms of interest, many of the problems of the farm will be settled. We are not as hopeful of this proving true as many seem to be. While we believe that farmers should have every possible advantage in the obtaining of easy credits, the ultimate outcome is likely to be that the cost of the goods they desire to obtain will be advanced enough to more than offset any improvement in the facilities for obtaining cheap money. Take for instance, school improvement societies, school a young man desiring to buy a farm: When such a young man begins to negotiate for the purchase of a farm the men who own these farms will know, as well as he does, the terms

portion. those things which the money enables two work admirably together. one to buy.

What we are most anxious to see is such an improvement in economic conditions that farmers will be able to make enough off their farms that it will not be necessary for them, except under unusual conditions, to look for loans at all. Were it not for the fact that existing conditions are working strongly against the farmers it would be unnecessary for any large portion of our farmers to mortgage their farms in order to raise money. When we understand the forces that are handicapping us, such as unjust tariff laws and an unfair taxation system. as well as the monopolization of our natural resources and of our transportation systems, we will, by improving these conditions be able to so increase the net returns of the average farm that the same need will not exist as does at present for cheaper credits.

### **EDUCATIONAL COOPERATION**

A farmer's education nowadays cannot be considered well rounded and complete unless it embodies instruction in marketing as well as in production. Farm marketing is becoming more and more cooperative marketing. In a recent issue of Farm and Dairy we called attention to a bill before one of the state legislatures of the United States making provision for the teaching of cooperative marketing in the public schools, and suggested that such legislation would be equally timely and valuable in Ontario and the other provinces of Canada. Prof. S. B. McCready, Director of Elementary Agricultural Education in Public Schools of Ontario, in a recent letter, endorses the suggestion advanced by Farm and Dairy, and adds the following pertinent sentence:

"The teaching of cooperation in our public schools would be a very difficult task unless made real and practical through the children's work; book teaching of it is almost outside the mark for our public schools."

Prof. McCready is about right. Even as production and marketing must go together in the after life of the child, so must instruction in the two subjects be given together to be of the greatest practical value. The cooperative spirit that may be developed among the children in the operation of their school gardens, develops their cooperative instincts and adds to the interest that they would take in more purely cooperative instruction. Were Prof. McCready's ideas, as advanced by him in various school bulletins, more fully carried out and fairs and school picnics organized, the cooperative spirit of all in the community would tend to develop.

We do not believe, however, that book teaching of cooperation, par-

vances. In consequence they will in- schools, is outside of the mark of pubcrease the price of their farms in pro- lic school instruction. If instruction The same principle works in production can be properly introthrough all lines of business. Im- duced into our public school system, proved facilities for obtaining money we believe that instructin in marketare almost invariably soon counter- ing, particularly cooperative marketacted by an increase in the cost of ing, has a proper place there too. The

### WILFUL WASTE

"I believe that the average farmer of this country is dropping all the way from \$100 to \$200 in good hard cash every year through his careless methods of housing and handling his implements." This statement, made by an agricultural implement man whose business covers all of one province, shou'd cause some of us to sit up and take notice of the manner in which we are caring for our own implements

It isn't the fault of the farmer that the binder for which he paid \$135 lies idle 51 weeks of the year. The nature of his calling makes it impossible for him to use his machinery constantly as does the manufacturer. It is the farmer's fault, however, if the binder is allowed to rust out because of lack of attention during the idle 51 weeks. The fact that the farmer uses his machines so little should be all the greater reason why he should take the greatest care of them.

On thousands of farms, perhaps some into the homes of which Farm and Dairy goes, the implements are drawn out in the spring and may be found almost anywhere on the farm but in the implement shed until the fall. If one is going to house implements at all, it would be better to leave them exposed in the winter and housed in the summer, as rusting proceeds much more rapidly in the warm summer weather.

### RAILWAY TAXATION

We in Canada have the most insane railway policy of any country on the face of the earth. We bonus our railways heavier than any other country, we give them larger land grants; and after we have done all of this, we subject them to lighter taxation than rules elsewhere. The members of the council of Grey Co., Ont., believe that the railways should be made to return to the people in just taxation a small portion of what they have received from the people. Moreover, they intend to do their part to see that our railways are taxed as they should be. At the November session of the Grey County Council, Mr. John R. Philip moved:

"That this council memorialize all "other county councils in the pro-"vince with a view of having repre-"sentatives of same meet on some "convenient date in the city of To-"ronto and have the matter of more "equitable equalization of taxation "threshed out, and, if need be, ob-"tain an interview with the Pro-"vincial Cabinet."

This resolution met with hearty approval, and the following counties have fallen in with the suggestion coming from Grey, and have appointmeet in September: Simcoe, Bruce, Norfolk, Victoria, Peterboro, Waterloo, Durham, Lambtod, York, Elgin. Wentworth and Prescott and Russell

The claim of the Grey county councillors that our railroads should be more heavily taxed would seem to be a just one. Up to June, 1911, the Dominion Government subsidized and bonused railways to the extent of \$148,217,071.75. The Ontario government has subsidized railways lying in its domain to the extent of \$13,361. 075.63, and the various municipalities have expended \$18,042,823.60 in the same manner. In addition to these large cash subsidies, Canadian railways have received land grants total ling 35,000,000 acres and bonds and guarantees of \$60,000,000. And with all of this assistance railways in Ontario and in the rest of Canada, are much more lightly taxed than the ordinary ratepayer.

An official report of the Railway Department at Ottawa states that Ontario has 8,230 miles of railway, and receives in taxes \$747,000, or less than \$90 a mile. Railways in Michigan, where conditions are similar to what ther are in Ontario, pay taxes of \$400 mile; in Dakota of \$300 a mile; Wisconsin, \$440 and in Maine, \$314 a mile. And even at this higher rate of taxation the United States railways. under like conditions and mileage afford a lower freight and passenge tariff than obtains in Ontario.

It is evident that our railways an not paying anything like their fair proportion of the taxes. It is only matter of common justice that they should be on the same basis as the farmer when it comes to meeting the assessor and tax collector. County councils that did not appoint delegates to the Toronto conference a their last session, would be wise to d so at their next session, in June. The question has now been opened up, and it is up to the county councils of On tario to push the matter vigorously

Based on the value of the various fertilizing ingredients contained in commercial fertilizers, we estimate

that a ton of farmya What is manure properly con-Manure Worth? served is worth two dollars sixty-five cents

The average ton of farmyard man ure will contain five pounds of phophoric acid, ten pounds of nitroger and ten pounds of potash. At sever teen cents, eighteen cents, and five cent a pound respectively, we go our total of two dollars sixty-fin cents. If an average ton of manus is worth two dollars sixty-five cen because of its fertilizing value, is worth while taking care of it? Is it worth while hauling it to the field Be sure and clean the barnyard well this spring. We cannot afford not to

Cooperation among farmers, M only in things commercial, but als in things political, will result it better living for the farmer and in proved social and educational con ditions for the family.

Notes on l E. F. Eaton, ( Potatoes are or making crops d Scotia. I am to tions of Ontario a quarter of a and the char potatoes on the inder the plow not consider that

> AD. LX

Some breed aghast at the id asked. "Does it men of the progre THAT IT WOUL Gooderham, of th have his QUARTI in Farm and Dair to advertise and increase in his cattle

Mr. Gooderhai running his ad. I over his first yea page space in Far is his decided into right along. What more pro

sire that it pays space in Farm ar He says: "Ady

and Dairy is excel fied right from the Of course you vourself much of it

to Mr. Gooderham sage going out eac than 16,000 possib Holsteins.

He sends this m commanding space Dairy at the merest it would cost to acco results in any other

In each and all has told a plain, s He has good stuff to stuff to sell, and he sonable prices.

In many ways his have been unique. absolutely new sta stock breeders-(no of space)-his ads. real sales stuff, gene the first person, an able, interesting, v and often illustrated his own stock.

Never before in nalism has a farmer try out his conviction to advertise as Mr. ( done in his 1/4-page now running well in vear

Others may be expe follow him. There a more of breeders who would pay well to ha page each week in Fa

It simply means set value of one real good to advertise and make increase from a herd Mighty good business

Write us for particul are ready to reap a si tage through Farm and "A Paper Farmers at will

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Notes on Potato Culture

E. F. Eaton, Colchester Co. N. S. Potatoes are one of our best money-making crops down here in Nova Scotia. I am told that in many sections of Ontario the farmers grow ontions of Ontario the farmers grow on-ity a quarter of an acre of potatoes or so, and the chances are, put their potatoes on the poorest piece of land under the plow that season. We do not consider that we can farm pro-finably without a good area in pota-

### AD. TALK LXXXI.

Some breeders have stood aghast at the idea! Others have aghast at the idea! Others have asked, "Does it pay?" Business men of the progressive type KNEW THAT IT WOULD PAY Gordon S. Gooderham, of the Manor Farm, to have his QUARTER PAGE of space in Farm and Dairy EVERY WEEK to advertise and make sale for the increase in his herd of Holstein cattle.

Mr. Gooderham has now been running his ad. for several weeks over his first year in his quarterpage space in Farm and Dairy. It is his decided intention to continue right along.

What more proof would you desire that it pays him to use this space in Farm and Dairy!

He says: "Advertising in Farm and Dairy is excellent! I am satisfied right from the ground up!"

Of course you can picture to yourself much of just what it means to Mr. Gooderham to have his message going out each week to more than 16,000 possible buyers of his Holsteins

He sends this message out in his commanding space in Farm and Dairy at the merest fraction of what it would cost to accomplish the same results in any other way!

In each and all of his ads. he has told a plain, simple message. He has good stuff to tell about, good stuff to sell, and he sells it at reasonable prices.

In many ways his advertisements have been unique. He has set an absolutely new standard for live stock breeders-(not alone in point of space)-his ads. have been of real sales stuff, generally written in the first person, and always readable, interesting, well displayed, and often illustrated from photos of his own stock.

Never before in Canadian journalism has a farmer made bold to try out his convictions that it pays to advertise as Mr. Gooderham has done in his 1/4-page weekly space now running well into the second year

Others may be expected to shortly follow him. There are a score and more of breeders whom we know it would pay well to have a quarterpage each week in Farm and Dairy.

It simply means setting aside the value of one real good Holstein cow to advertise and make sale for the ncrease from a herd of 50 to 100! Mighty good business that!

Write us for particulars when you are ready to reap a similar advantage through Farm and Dairy-

"A Paper Farmers Swear By"

toes, and we give our potato crop the best land and the best attention. We calculate in getting at least 200 bush-els of marketable potatoes to the acro-els of marketable potatoes to the acro-lation and the state of the con-bushel, an acro's crop would bring us \$100. Outside of fruit I know of no other crop as profitable. By storing our notatoes and shimping in the wijnother crop as profitable. By storing our potatoes and shipping in the winter we can bring the aggregate return per acre considerably over \$100. We can ship our potatoes all the way to Toronto and sell in competition with the Ontario grower and still make money. Perhaps, therefore, a description of the control of the con

money. Perhaps, therefore, a description of our cultural methods would interest Farm and Diriy readers. The first point, and one on which we lay great emphasis is the thorough working of the soil, the soil of t three the frost every enance to purverise the soil and make plant food available. When spring comes we cross regions to soil and the plant of the soil and leaves on the surface three heads and leaves on the surface three heads of the mellow soil. We do not so of these how soil. We do not so of the mellow soil in the head of the head of the head of the head of the mellow soil. The deliber so of the med to do not so of the mellow soil the mellow soil. The drills are oppened with the work. The drills are oppened with the work. The drills are oppened with the mellow soil include from the next one. The seed

the plow, each arill being from 21 to 30 inches from the next one. The seed is then dropped by hand, one piece each 15 inches in the drill. We then cover with the plow and the planting operation is over.

operation is over.

I must not forget to say something about commercial fertilizers. Even when we have lots of manure, the most of us use commercial fertilizer and believe that we get good returns from it. Quite a few farmers use ready mixed fertilizers, but others are coming to believe that it is more year. coming to believe that it is more profitable to buy the pure chemicals and mix them at home. A mixture that mix them are using with good results is 300 lbs. sulphate of potash, 150 lbs. of acid phosphate, 100 lbs. nitrate of soda. This application is used where there is little manure available. If there is plenty of manure the nitrate of soda might be omitted altogether and the quantities of the other two ingredients reduced.

ingredients reduced.

It is important that the commercial fertilizer have a high percentage of potash as the potato is a potash consuming plant. Another point that I might caution readers against is using muriate of potash instead of the more expensive sulphate. Potatoes grown on land fertilized with muriate of potash are almost certain to be soggy and of poor quality. This to be soggy and of poor quality. This fertilizer proposition is one with fertilizer proposition is one with fertilizer proposition is one with fertilizer in the fertilizer may be sowed either in drill behind the plow or broadcast use the land. We have noticed no difference in results between these two methods and the latter is easier.

After cultivation consists in dragang the rows lengthwise with a spike tooth harrow before the plants ap-pear above the surface and then in constant cultivation

Just one other thing I would men-tion. We have certain standard varieties and grow no others. If a dealer in Halifax were to write us for a car in Halifax were to write us for a car load of one variety we could give it to him. If we did not have a whole car load ourselves, our neighbors grow the same variety as we do, and we could soon patch up a car among us. This we consider a most impor-tant point. tant point.

eighbor About his

Wherever you find a De Laval user you will find a "booster."

The De Laval satisfies, pleases and makes money for its more than a million and a half owners.

There are probably quite a number of your neighbors who are using cream separators and in most communities a majority of these machines are De Lavals.

If you expect to buy a separator it will be worth your while to see what some of these De Laval users think of their machines.

If the evidence of your neighbors who use and recommend the De Laval is not enough to convince you of De Laval superiority, have the local De Laval agent put one in on trial for you and try any other machine you want to alongside of the De Laval.

Let the De Laval start saving your cream right now, this spring. It will soon pay for itself.



SOONER OR LATER YOU WILL BUY A DE LAVAL

## PUMPING With a "GOES LIKE SIXTY" Pumping Outfit



Write for full particulars and also catalogue of pumps, pump jacks, wood saws, etc.

Gilson Manufacturing Co. 302 York St., Guelph, Ont.



# This Engine Runs on Coal Oil

THIS LIBELITY RUIDS OH CUGI VII

Every farmer can afford an Bills Coal Oil Bagine. They give far more power from coal oil than other can be a supported by the coal of the coa

S to 15 horse-power We pay Duty and Freight Ellis Engine Co., 90 Mullett Street DETROIT, MICH.

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Wood or Concrete Silos, Which are best?

Over in the U. S. many experiments made by the various agricultural experiment stations have conclusively shown that silage does not keep as well in cement, stone or brick silos as in silos constructed of wood.

Furthermore, the advantage of the wood silo over cement, stone or brick is greatest in a cold climate.

The vital question is "Which silo will keep the silage in the best condition ?"

If you are interested in reading the unbiased opinion of scientific investigators who have given this

question careful investigation we shall be glad to send you, upon request, reprints of some of the experiment station bulletins giving in detail the reasons why wood silos make the best silage and keep it in the best condition.

We shall also be pleased to send you our silo catalog, and give you any other silo information desired,

e are exclusive distributors in Canada of the World's Standard De Laval Cream Separators, and also carry a complete line of creamery and dairy machinery and supplies. If interested write for separate catalogs.

## DE LAVAL DAIRY SUPPLY CO., Ltd.

LARGEST MANUFACTURERS OF DAIRY SUPPLIES IN CANADA MONTREAL PETERBORO WINNIPEG VANCOUVER

### Cheesemakers

Make big money in your spare time getting ubserptions for Farm and Dairy. Write our Circulation D. partment now for full particular ow for full particular own full particular own

Dairy. Write our Circulation De partment now for full particulars

### CREAM CREAM

Sweet or Sour

We are buyers of Cream and will pay the highest price for it per Butter-Fat test. We will supply the came. Make prompt returns by Bank Draft, payable at par, at any Bank in any town. We will operate the year around. References Bank of Montreal

THE BOWES COMPANY, Limited 74-76 Front Street E. Toronto

95 AND UPWARD **AMERICAN** Thousands In Use

Our Twenty-Year Guarantee Protects You

nd high quality on all sizes and generous terms of ar dairy is large or small, do not fall to get our great offer. Our chargy on request, is the most complete, elaborate and expensive ook of Cream Separators usually by any concern in the worm, hipments made promptly from Winnipeg, Man., St. John, N. B., and Toronto, Out.

AMERICAN SEPARATOR CO., Box 1209 Bainbridge, N. Y.

### \*\*\*\*\*\*\*\*\*\*\* Creamery Department

Butter makers are invited to send contributions to this department, to ask questions on matters relating to butter making and to suggest subjects for discussion. Address letters to Creamery Department Butter makers are invited to seentributions to this department, Butter makers are invited to same contributions to the department, to sake questions on matters relating to butter making and to suggest to butter making and to suggest subjects for discussion. Address pletters to Oreaners Department

### The Case for Grading

By L. P. Anderson

Jones is a careless dairyman, washing his separator only once every two days and leaving his cream sitting in the barn, or perhaps in the kitchen, and delivers his cream to the

Ritchen, and delivers his cream to the creamery only once a week.

Mr. Smith is a progressive and careful dairyman, who washes and scalds his separator after each separa-tion, cools his cream thoroughly, and never mixes until ready to deliver to the creamery, which he does three or four times which he does three four times a week in a nice, clean, sanitary condition.

Why should there not be a premium on the nice, sweet cream over the sour and almost decomposed cream? The grain buyer pays according to

the quality of the grain he buys. The stock buyer pays according to the quality of the live stock he buys. The merchant pays according to the qualthe produce and provisions he Why then should not the cream buyer pay according to quality of the cream he buys?

### The Marketing of Dairy Butter

Philip Fockler, York Co., Ont.

The butter business is one of the remunerative businesses of the day, if properly conducted, and there is no reason why the Canadian people cannot supply the demand of our own country with first class butter. The demand for butter seems practically unlimited, more especially unlimited, more especially for the better grades. The growth of the cold storage industry has tended to equalize prices by increasing the demand in summer, when butter is plentiful, and supplying the deficiency in winter when butter is scarce.

Since the demand is greater for the best grades, it is to our interest to produce what is wanted and the price depends chiffy upon the taste of the The intelligent buttermaker studies the tastes of those people who are willing to pay well for what suits them, and then he learns how to make that kind of butter. It is the only way he can get their money. It is not the expense of manufacture that fixes the price. The consumer cares not that the butter perhaps cost untold labor on the part of some one who churned and prepared it for market. If inferior it for an inferior price regardless of the cost of production, and if it is supercost of production, and if it is super-ior, it sells at top price though made with ease and little expense. And the beauty of the fact remains that the cost of producing the best butter the cost of producing the best butter need not be greater than that of pro-ducing goods of a poorer quality; in fact, the bad article is generally made at the greater cost, and a little more attention to details will result in a profit amply repaying the extra time and labor involved

In order to obtain a top price for butter it should have a good flavor which would be so pleasant to the sense of smell, and so sweet to the taste that it will create a desire for more. The texture, grain and closeness should be waxy and firm.—not salvy, greasy or crumbly; should be close in body, not spongy, and should nody, not spongy, and should not contain too much or too little moisture. The color should be uni-form and according to the require-ments of the market. Salt according to the market for which the butter is intended. Too much salt destroys the

sweet taste and too little salt makes

the butter insipid and tasteless.

The package of the butter is a very important point. The appearance of the butter when it goes to market is one of the things that sells that but ter and it is one thing many farmers wives overlook. It should be next It should be neat clean and attractive. The one pound brick print is the style most used and if you sell to the merchant or dealer you will receive a better price for they can handle it at less cost and less The parchment paper should waste. The parenment paper should be of good quality, of proper size and should be dipped in cold water before wrapping it on the butter. You should have some special brand printed on the wrapper with your name or name of your farm. The prints should weigh not less than 161/2 ounces each, extra weight being for shrinkage before reaching the consumer. The time of marketing will depend on local conditions but should be very soon after being made, as often as once a week at any time of the year. Use plenty of ice, and if possible keep below freezing point until on the con-

When it can be done in connection with the sale of other produce such as eggs and poultry the most profit can usually be made by selling direct to the consumer. If you have not to the consumer. If you have not time to bother with customers, then you can sell to dealers and an extra price can be obtained from them also soon as they are convinced that the butter furnished is first class. be remembered that it will take time to work up a demand for finest butter but when people are once convinced that the butter can be denended upon, they will not only call for such butter, but will tell their for such butter, but will tell their neighbors about it. All persons mak-ing butter for a profit should read, study, and make an effort to become proficient in the business they have With willing hands, an undertaken. active mind and a strong determina tion to reach his goal, he will surely succeed. "For his heart is in his work and the heart giveth grace unto

### Iced Butter Car Service

Commencing on Tuesday, May 13th, the Canadian Pacific Railway will run a refrigerator car service for butter only to Toronto and Montreal. The service will be four cars weekly as follows:

(1) From Windsor each Tuesday. (1) From Windsor each Luesday, a Way-freight extra. This car will leave London on Way-freight extra Wednesday a.m., and Toronto Thurs-day night. Shipments from interany night. Shipments from intermediate main line stations from Toronto will be loaded on this car.

(2) From Goderich, iced car every

Wednesday on Way-freight extra.
(3) From Owen Sound, iced every Wednesday on Way-frei iced car Way-freight

(4) From Teeswater every Wednes-(4) From Teeswater every the day on Way-freight extra. The service on the Goderich line will start on June 4th. Current tariff on less than car load rates will apply without any charge for icing.

### The Alberta Dairy Convention

(Continued from page 13.)
the convention on dairy cattle feeding. Prof. Elliott spoke on agricultural education. The Hon. Dunean Marshall dwelt on the past work and future plans of his Department at Education.

Edmonton.

The gold medal and trophy for high-The gold medal and trophy for highest scoring butter made at any previncial creamery was won by J. J. Skeletsky, of Viking. Four silver medals were awarded to M. L. Campbell, Red Deer; W. H. Jacksos, Markevville; Wm. Hanson, Innisfall, and J. A. Brown, Quarrel. necestatete Cheese De

Makers are invite butions to this de questions on mat cheese making and jects for discussion of The Cheese Maker \*\*\*\*\*\*\*\*\*\*\*\*\*\*

Chatty Letter Henry Cotton Oz

The prospects fo ese at our factor season is very good. more butter this win ever made during the provious year utter until May 15. farmers an opportun skim-milk at home a their spring calves a

In some parts of ou number of cows has h on the larger number number has increased



A Whey Tank S

This steel covered whey Factory in Prince Edwar elevated wooden tank

I have visited a number and I find that the count of the stables in element. The farmers had of feed this winter, and the amount of butter v and the appearance of are evidently using it. was very heavy last though harvesting condi of the best, the oats ha lent feed.

There is a decided te part of the farmers to ing more extensively. The fi important from the view of the farmers was the milk last year. We pa ers \$1.0087 a cwt. and a ers \$1.0006 a cwt. durin When we consi milk is hauled right from door to the factory and the whey returned to his far

retty good prices for m Those patrons who se ream for butter were st the average price for b winter season was 31.26

Another cause of increate the advent of the milk There are several farmed vicinity who have instal machines. The machines satisfactorily so far. M are visiting the places machines are installed, a g in conversation with a he favorable impressions es are making. are making. I b ilk the cows out clean, favorable effect on the co nakos

hos mers neat ound and

they

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and

You rint-

e or ould ach,

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1 88

such rofit rect

Cheese Department

Makers are invited to send control
buttons to this department, to ask
constitute of this department, to ask
cheese making matters relating to
cheese making matters relating to
control of the control of the control
to The Cheese Maker's Department. 

## Chatty Letter from Oxford

Henry Cotton Oxford Co., Ont.

The prospects for the make of these at our factory for the coming season is very good. We have made season is very good. We have made more butter this winter than we have more outter this winter than we have ever made during the same time any previous year. We intend to make butter until May 15. This gives the butter until May 15. This gives the farmers an opportunity to keep their skim-milk at home and thereby give their spring calves a good start.

In some parts of our community the some explanation.

In some parts of our community the some explanation.

At certain seasons of the year when on the larger number of cows has been reduced, but At certain seasons of the year when only new Canadian cheese is on the market and is selling in competition

necessassessessessesses to operate and keep clean and not cost too much, that milking machines will revolutionize the dairy industry. With hired help so hard to procure, these machines will help us to solve the labor problem.

### Canadian Cheese Highest

Canadian Cheese Highest

Editor, Farm and Dairy—In looking over the Farm and Dairy of the
look of April 24th, I notice an artice of April 24th, I notice an artice of the cheese Department by
'One of the Cheese Department by
'One of the Cheese Department by
beating us out on cheese Zealand is
beating us out on cheese Zealand is
do not know on what ground; that
remark is based. Perhaps it is because some statements have been going the rounds of the press that New
Zealand cheese is selling higher in
Creat Britain than Canadian cheese
Creat Britain than Canadian cheese
A statement of that kind needs
J a statement of that kind needs
some explanation.



NOTHING in cheese making is more important than salting the curd.

The flavor-even colorsmoothness-keeping quality and market price - all depend on the way the curd is salted, and on the salt

# INDSOR

Makes Prize Cheese

It gives a smooth, rich flavor to the cheese dissolves slowly-stays in the curd—and makes the cheese keep as good cheese should.

Windsor Cheese Salt is cheapest in the end because it goes further.



A Whey Tank Such as This is an Advertisement to the Factory

This steel covered whey stand is in connection with the Mountain View Cheese Pactory in Prince Edward Co., Ont. Is it not some improvement on the old elevated wooden tank that still disgraces so many cheese factories in Omario'

I have visited a number of patrons, with "old" New Zealand, the old and I filld that the cows are coming cheese naturally has the preference in out of the stables in excellent condition. The farmers had an abundance of feed this winter, and, judging from the amount of butter we are making and the appearance of the cattle, they are evidently using it. The oat crop was very heavy last year, and although harvesting conditions were not hope of the best. He oats have made excel.

New Zealand cheese has one advantaged to the best. He was the preference in the matter of price and for a month of the dest. He had the was the preference in the matter of price and for a month of the dest. He had the was the matter of price and for a month of the dest. He had the was the matter of price and for a month of the dest. He matter of price and for a month of the matter of price and for a month of the matter of price and for a month of the matter of price and for a month of the matter of price and for a month of the matter of price and for a month of the matter of price and for a month of the matter of price and for a month of the matter of price and for a month of the matter of price and for a month of the matter of price and for a month of the matter of price and for a month of the matter of price and for a month of the matter of price and for a month of the matter of price and for a month of the matter of price and for a month of the matter of price and for a month of the matter of the matter of price and for a month of the matter of price and for a month of the matter of price and for a month of the matter of price and for a month of the matter of price and for a month of the matter of price and for a month of the matter of price and for a month of the matter of price and for a month of the matter of price and for a month of the matter of price and for a month of the matter of price and for a month of the matter of price and for a month of the matter of price and for a month of the matter of price and for a month of the matte

whey returned to his tarm, these are pretty good prices for milk. Those patrons who sent milk or cream for butter were still better off. The average price for butter for the

The average price for butter for the winter season was 31.26 cents. Another cause of increased dairying is the advent of the milking machine. There are several farmers in our vicerity who have installed milking machine the machine are working machine to the machine are working to the several farmers are vicinity and the places where these machines are installed, and after being in conversation with a large number of farmers I cannot fail to notice the farmers I cannot fail to not f ber of farmers I cannot fail to notice the favorable impressions these mattry. chines are making. I believe if we the can get a milking machine that will milk the cows out clean, have no unfavorable effect on the cows, be easy Ont.

though harvesting conditions were not the best, the oats have made excelling the set of the best, the oats have made excelling the set of the s

Canadian cheese is not now required for winter consumption as it was be-fore the New Zealand cheese came on for the New Zealand cheese came on the market in such large quantities. Canadian cheese goes into direct consumption more than ever it did, and for that reason it should be better cured in the factory. That is why the practice which is becoming so common in late years of shipping cheese in a very green condition is so harmon in a transport of the state o

### Ye ADV. MAN.

d Here's a tip for you to get your copy in shape and in early for June 5th.

Tis our great 5th Annual Farm Machinery Magazine Special Number-more than 16,800 going out to prosperous Dairy farmers almost exclusively Press days May 28th to

Adv. Dept., Farm and Dairy

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with calf raisers. As rich a new milk at
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Toronto Creamery Co., Ltd. TORONTO

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checks at par.

It costs you nothing whatever to give our system a trial.

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ter cruise, Salan on."

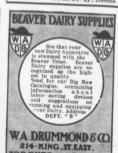
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D.P.A., C.P. By., Toronto



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EEP one thing forever in view—the truth; and if you do this, though it may seem to lead you away from the opinions of men, it will assuredly conduct you to the throne of God .- Horace Mann. . . .

## Rose of Old Harpeth

By MARIA THOMPSON DAVIESS

"Copyright, 1912, The Bobbs-Merrill Company" (Continued from last week)

ES, I reckon it were, but my make it no more and something has mind was so took up with the got to be done. But they ain't no use to talk about moving them old the ails with Bob on one side of her folks. I gather for combination and Mr. Crabtree on the other, I of what Mr. Gid one combination to consider the contract of the description of the state of the contract and Mr. Crabtree on the other, I couldn't hardly get my mind down to listening. And when she contrived Mr. Crabtree into the pew next to Mis' Plunkett, as she moved down for 'em, Plunkett, as she moved down for 'em, I most gave a snort out loud. Didn't Mis' Plunkett look nice in that second mourning tucker it took Louisa Helen and all of Sweetbriar to persuade her into?"
"Lou Plunkett is as pretty as a chiny aster that blooms in September and what she's having these number.

chiny aster that blooms in september and what she's having these number-two conniptions over Mr. Crabtree than I can see. I look on for is more than I can see. I look on a second husband as a good desert after a fine dinner and a woman after a fine dinner and a woman atter a fine dinner and I wouldn't make two bits of taking the season of the of his soft constitution. Mr. Satter-white, I'm thankful to say, left me so well provided for that I can afford Mr. Rucker as a kind of play orna-

ment."
"Yes, they ain't nothing been thought up yet to beat marrying,"
answered Mrs. Poteet. "Now didn't Emma Satterwhite find a good chanct Todd Crabtree married her and took her away after all that young Tucker Alloway doings? It were a Tucker Alloway doings? It were a kind of premium for flightiness, but I for one was glad to get her gone offine Rose Mary's hands. I couldn't a-bear to see her tending hand and foot a woman she were jilted for."

"Well, a jilt from seen the seen

"Well, a jilt from some men saves woman from being married with a a woman from being married with a brass ring outen a popcorn box, in my mind, and Tucker Alloway were one of theme kind of men. But talking about marrying, I'm kinder trouing about marrying I in ainter crou-bled in my mind about something, and I can depend on you not to say nothing to nobody. Mr. Gid New-some stopped at my gate last week and got me into a kinder hinting cha-nation with how here a trobble group and got me into a kinder hinting cha-vering that have been a-trobling me ever since. Now that's where Mr. Rucker is such a comfort to me, he'll stay awake and worry as long as I have need of, while I wouldn't a-dared to speak to Mr. Satterwhite after he put out the light. But this is about what I'en visced extent that it allowing what I've pieced outen that talk with the Senator, with Cal's help. That mortgage he has got on the Briars about covers it. like a double blan-ket on a single bed, and with the interest beginning to pile up it's hard to keep the ends tucked in. The time have come when Mr. Tucker can't

take over the place and make some sorter arrangement about them all a-staying on just the same. That'd be mighty kind of him."

You don't reckon he'd do no such take-me-or-get-out co'ting to Rose

pretty enough herself to hand it down even to the third and fourth genera-tion. But I must go and see to helption. But I must go and see to helping Granny out on the side porch in the sun. I never want to neglect her, for she's the only child poor Mr. Satterwhite left me. Now Mr. Rucker—Why there comes Mis' Amandy down the front walk! Let's you and me go to meet her and see what she wants. We can help her across the Road if she is a going to see anybody but us!" And with easer affection the two And with eager affection the strong young women with their babies in their arms hurried across the street in their arms hurried across the street in order to serve if need be the delicate little old lady who with her gray skirts fluttering and the little shaw streaming out behind, was coming at her tottering full speed in that direction. In her hand she held carefully a bit of sheet, yellow, old muslin, and her bright eyes were beaming with declicity as we she we shaw the same of the property of the same of the sam light as she met the two neighbors at the gate.

"It's the dress," she exclaimed, all out of breath and her sweet little voice all a-tremble. "Sister and me and Tucker were all baptized in it

when we were babies. Sister Viney has had me a-going through boxes and has had me a-going through boxes and bundles for it ever since little Tuck-er was named for us, and here it is! It's hand-made and fine linen, brought all the way from New York down to the city in a wagon before the rail-the city in a wagon before the rail-the fine of the result of the result of the late of the result of the result of the late of the result of the result of the hought may have a support of the result of the paused with a shy diffidence in offer-tage.

A Home Attractive Without and Convenient Within

This fine new brick farm house is the home of L. H. Lippsiti and family of Eigin Co., Ont. The home is lighted with natural gas: Mrs. Lippsiti cooks with natural gas and among other conveniences is numbered running water, but and cold. Read about this splendidly equipped home in an article in this issue.

About this splendidly equipped home in an article in this issue.

Mary, do you?" asked the soft-natured little Mrs. Poteet with alarmed sympathy in her blue eyes.

sympathy in her blue eyes.

"Oh, no, he sin't that big a fool.
Every man knows in marrying an unwilling woman he's putting himself
down to eat nothing but scraps around
the kitchen door. But I wish Rose
Mary could make up her mind to
marry Mr. Newsome. She might as
well, for in the end a woman can't
tell nothing about taking a man; she
just has to choose a can of a good
brand and then be satisfied, for they
all season and heat up about ailice.
I never gave him no satisfaction about all season and neat up about alike.

I never gave him no satisfaction about his praises to her, but I reckon I'm for the tie-up if Rose Mary can see it that way." And Mrs. Rucker glanced along the Road toward Rose Mary's milk-house with a kindly, Mary's milk-house with a kindly, though calculating matchmaking in practical eyes.

her practical eyes.
"I'm kinder for Mr. Mark." ventured the more sentimental Mrs. Poteet with a smile. He's as handsome as Rose Mary are, and wouldn't they

ing her gift.

"Gracious me, Miss Amandy, they didn't nothing ever happen to me like this little dress being gave to one of my children. I am going to let him be named in it and then keep it in the box with my Bible, where it won't be disturbed for nothing," exclaimed be disturbed for nothing," exclaimed Mrs. Poteet in a tone of voice that was tear-choking with reverence as she took the dainty yellow little gar-ment into her hand. "And to think how you all have worked yourself out a-looking for it!" she further ex-

"Oh, me and Sister Viney have had a good time a-going through things; we haven't seen some of them for we haven't seen some of them for thirty or forty years. We found the flannel petticoat Ma was a-making for hannes petteres me when she died over forty-five years ago. The needle is a-sticking in it, and I'm a-going to finish it to wear next winter. I'll feel like it is a comfort for my old age she just laid by for me. I've got a little lace collar Ma's mother wore when ahe come over from Virginy, and it's in the very style now, so we're going to bleach it out to give to Rose Mary. Come on up to tift house with me and see it and set with Sister Viney a spell, can't you? Sho's got mighty sore joints this morning, though Rose joints this morning, though Rose

Mary rubbed her most a hour last night." And in response to the eager And in response to the eager night." And in response to the eager invitation they all three went back up the front walk together. The thrifty Mrs. Rucker cast a satisfied glance back towards her own side yard, where upturned tub and drying the satisfied and where upturned tub and drying. wash were in plain view. Mrs. teet had put off the task of the Mrs. Po until a later day of the week and could make her visit with a mind un harrassed by he vision of suds boiling over on the stove and soap melting is

And there ensued several hours of And there ensued several nours of complete absorption for the four women closeted in Miss Lavinia's room in reviewing the events of the las half century by means of the remini-cences which were inspired by one uscences which were inspired by one upearthed heirloom after another. Pet and Shoofly were happy on the flos enveloping themselves and each other enveloping themselves and each other in long wisps of both-eaten yarn that Miss Amandy had unearthed in a bu-reau drawer and donated to their amusement. Mrs. Poteet had with her usual happy forgetfulness of any thing but the very immediate occupa-tion, lost sight of the fact that sh had left young Tucker asleep on the bed in her room, which location counting the distance across the two yards and down the Road, was at leas slightly remote from aid in case of a sudden restoration to consciousness for the young sleeper.

And in the natural course of event the young Alloway namesake did awaken and gave lusty vent to a defor mand for human companionship, which was answered promptly by the General, who happened to be passing the front gate in pursuits of his own usual decision of action Stonie picket usual decision or action Stonie picke up the baby and kept on his was which led past the garden up the hill to the barn. Young Tucker accepted this little journey in the world with his usual imperturbability, and his forts to support his bald head or the General's shoulders as if in pro at being in the company of one of his

Finding the barn also deserted Stonie laid young Tucker on the strain the barrel with two of Sniffer ping puppies and began to atte to his errand, which involved the etraction of several long, stout piece of string from a storehouse of his o under one of the the feed bins and the plaiting of them into the cracker as whip which he had brought along with him.

Down below the store the rest of the Swarm were busy marking out a lar circus ring and discussing with or siderable heat their individual right to the various star parts to be performed in the coming exhibition. Tardors of their several ambitions we not at all dampened by the knowled of the fact that the audience to would be in attendance to with their triumphs would in all probabity consist of only Granny Satte white, whom little Miss Amanda ways coaxed to attend in her e ways coaxed to attend in her company, with perhaps a few moments encouragement from Mr. Crabtree he found the time. To which would always be added the interested as jocular company of Mr. Rucker, always came, brought a chair to sit and stayed through the entire particles. formance. And in the talented a gregation of performers there was course just one role that could his been assumed by General Jacks that of ringmaster; so to that end sat on the floor of the barn besi the sleeping puppies and young Too er and plaited the lash by means which he intended to govern courses of his stars.

(Continued on page 22)

### \*\*\*\*\*\*\* The Upwar \*\*\*\*\*\*\*\*\*\*

Brotherh "On his triumphant forget his weaker I am going to tell yo We all remod days with who hear that it was This is a true ime a long while cident occurred go, I read the se School Times, I read the by the grandeu pathes that I it on to you much to thank ( secrate ourselves to light of such a trius as is here told.

ere is one person verbeard of her add the Century has writte wention, no discover id than the achieve id than the achieve which has vault circumvented the of sense." There at the Louisiana that is Helen Keller dumb and blind, yet ess obtained her deg



"On his triumphant way man must

y. We all remember in our od days with what a thrill we hear that it was to be a true. This is a true one. I cannot

Ito hear that it was to be a look to hear that it was to be a look to hear that it was to be a look to hear that it was to be a look to hear that it was to be a look to hear that it was to be a look to hear that it was led up the analy sale who is also to do things. The work of the

se agais here lords on whom all who we heard of her admire. wonder we heard of her admire. When he was cheed in many another heart, help in the heart of this was echoed in many another heart, help in the heart of the was cheed in many another heart, help in the heart of the was cheed in many another heart, help in the heart of the was cheed in many another heart, help in the heart of the was cheed in many another heart, help in the help in the help in the heart of the was cheed in many another heart, help in the help

Not Bleached

I am going to tell you, my readers,

his incident occurred not quite 10 sars ago, I read the account in the sanday School Times, and was no irrilled by the grandeur, and touched the pathes that I have read it or agin and again and now am saing it on to you. We too who use so much to thank God for should necrate ourselves to Him again in a light of such a triumph and messee a sis here told.

The day this story happened, she was the guest of honor at a Convention of the Instructors of her fellow-

tion of the Instructors of her fellow-sufferers. She spent one day at the Fair, seeing and hearing with her wonderful, sensitive fingers, and on that day addressed a meeting of the deaf and the dumb and the blind. Only those were sure of admission, but for them the vast hall was not nearly large anough. Every inch of space

for them the vast nan was not nearly large enough. Every inch of space had to do double duty.

As she was led up the aisle one

man who is able to do things. The best that there is to be had will be his; and it will be given to him with joy. He deserves it. Make yousself deserving of good things therefore and they will come without fail—

Christian D. Larson.

tion also illustrate the truth of the declaration."

But her voice could not reach all. Then stepped forward the President of the Exposition, who repeated what she said. Those who saw the trio will never forget it, the frail, determined girl, the patient, noble woman, the kindly, courteous gentleman, each uttering the inspiring words: "On his triumphant way man has not forgotten his weaker borther."

The state of the could not be the same the blind listened for her voice the deaf watched the motion of he had been watched the motion of he had been with the same the lind listened of the language. For them Alvin Cope was placed high up of the platform, who translated with swine the platform, who the platform who the platform who the platform who the platform who when the tangel language the platform who were still many, alsa' who tangel had the platform who was the platform who was the platform who was the platform who was the platform when the platform when the platform who was the platform who was the platform when the plat

-I. H. N

rision the world of eternal beauty. I rotiferated the message, this mobile and debarred from seeing and hearing woman, "whose years of tireless devo-only material things, which, after all, tion also illustrate the truth of the things."

As she reached the platform that

As she reached the platform that day and turned, one never saw a happier human face; not happy in a subdued patient sense, but brightly happy, radiantly happy. The deaf and the blind were before her; she knew that she could help them, and in this knew, the last kells was slad.

knowledge Helen Keller was glad.

anowiedge Helen Keller was glad.

At first she snoke of the practical aspects of the Fair, of the "giant locomotive with annihilates space, of the processes of irrigation which annihilates the desert." Then she passed to the processes of education, "which eliminate the darkness of the mind."

mind."

This was her text. "On his triumphant way man has not forgotten his weaker brother." As she uttered these words the face of the blind girl became luminas. She seemed the evangel of a plant and are used to the evangel of a plant as she stood there reclaimed from helplessness, in her own personality, she presented the proof of what she proclaimed.

Her tones, which she herself has never heard, for she has learned to speak with infinite difficulty, are like the "plaintive notes of a mourning dove," and could reach only those very lear. Beside her stood Anna Sulli, near. Beside her stood Anna Sulli, Beside her stood Anne Sulli

give us PIE.

ROSES crust.

At Pie Time Use FIVE ROSES

ARE OF THE WOODS MILLING COMPANY, LIN

Come again, Pie Time, and often. For wholesome, digestible "eats"

At its very best wrapped in a FIVE

Upsets Pie Prejudice without upsetting the Eater's Insides-FIVE ROSES flour. Great for Pie Crust - top and bottom. And Puff Paste and Difficult Things. Close-grained — melting — even textured. Flaky, too, and crinkly - crisp yet tender. Put into your bake things the rare nutlike sweetness of Manitoba wheat kernels. All soppy with the rich red juice of the cherry-or lemon pie-or apple-or healthy custard-meat, may be, or mince-Put the FIVE ROSES "crust end" about 'em. See the hungry wedges fade behind busy milk teeth.

Not Blended

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### The Call of The North

Do you know of the many advantages that New Ontario, with its Millions of Fertils Acres, offers to the prospective these rich agricultural lands, obtainable free and at a nominal cost, are already producing grain and vegetables second to none in the world?

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It is not often that prominent It is not often that prominent people today (and their names for unless the article advertised has proved of wonderful benefit in the reason of the people of the reason that we have the reason that we can be the reason that a fellow it is not think I could find words explicit reason that a fellow it is not think I could find words as I feel, enough to crypess myself as I feel, wo years and it has made a new man of me. In reality I feel that two years and it has made a new man of me. In reality I feel that money in the world if I could not buy another. Through my recommendation I know a number of my with the same satisfaction. For people troubled with Constipation I think it as Godsend (Signed) I think the a Godsend (Signed). Total, Ottawa."

Hotel, Ottawa."

Do not neglect Constitution Do not allow this clogging of the system with terribly poisonous waste to permeate your blood and lay tacks of the most serious diseases. Take steps to rid yourself of this affilician today, Write to Dr. Tyrrell, ask him about his system of treatment. It is recommended by treatment. It is recommended by physicians everywhere and it has been used by over 300,000 people. See what this simple and sane method of using plain, pure water will do for you. Dr. Terrell will be glad to send you bis free book and all particulars if you will address thin. Charles J. Terrell, M.D., Room 67-21, 289 College St. Toronto, Ont.

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The Dignity and Pleasures of Our Calling "Sunbeam," Leeds Co. Ont.

"Sunbeam," Leeas Co. Unt.
Farming is considered by many to
be an humble calling, an inferior one,
and those engaged in it are thought
to be of a lower class of humanity
than are those engaged in other callings. I make this assertion, carlessligs. I make this assertion, reariess-ly, for many times have I heard such ideas advanced, sometimes from town or city people, but often from farmers themselves, who seem to look down on their occupation. They are traitors to their own, instead of doing their utmost to advance and further the

cause of agriculture.

They court favor with professional men-doctors, lawyers and politicians; they treat them as little gods, tender them the highest places, as it were grovel at their feet (and are as a rule understood and thought the less of by those personages). Who can reof by those personages). Who can respect and honor dependents; those who have no dignity? Such ideas as these are so absurd, so erroneous, that the somer we educate ourselves to know that it is not money, the pro-fession or the position, but the real true worth that makes the man the happier will be this world of ours.

NO COMPARISON
Farming is surely one of the most independent lives, yea one of the most noble professions, where lie the great-est possibilities, the greatest oppor-tunities of doing good. Compare the life of the town or city man in his pent up office, the tradesman in his store, in his shop, as the case may be, surrounded by rows upon rows of brick and mortar (where naught is free save the air they breathe, and even that is polluted), with the life of the agricu'turist in the free country the agriculturist in the free country, with his broad acres, free, pure air and water, his independence, away from the strife and turmoil of the city, surrounded by the trees, the birds and thrown daily in contact with God's dumb creatures. The with God's dumb creatures. The farmer's education is a varied one. It deals infinitely more than with books. His knowledge is general. He daily walks hand in hand with Nature and learns of her, and is ennobled by

her.

Of course many fail to take this view of life. Such a picture as I have here described does not appeal to them. They do not possess the finer nature. They just drudge away from morning until night, from day unto morning until night, from day unto day, and year unto year, with one aim in view, i.e., to make money, quite regardless of the fact that time is fleeting, that we are going through life but once, that we shall never come this way again, and that we are expected to take pleasure and real enjoyment out of life as we journey along. along.

SOCIAL LIFE A NECESSITY It is little wonder methinks that some of our ooys and girls wish to leave the farm to seek enjoyment else-where. There is not the necessary social life on many of our farms. We do not seem to fully realize the fact that "All work and no play" makes us

There can be far more real enjoyment in the country than in the town, but we must put forth effort to ob-

Harm'ess amusements must be furnished for the young folk; we should give them plenty of reading matter— the local papers, a few good farm magazines and a good library. Then music in the house is a valuable asset We should not live in seclusion. We should mingle with our fellow-beings, entertain and be entertained, attend entertain and be entertained, attend more social functions, and take an occasional trip abroad. It is all right to learn of this great world from books; but it is well to see some of it with our own eyes. A little trip, a holiday, no matter if it is short, is of great benefit to us, both physics and mentally. A change is as as a rest, and it is better than 4 tors' medicine. We come home rate to take up the burden of life with newed vigor, with a new store knowledge, and sweet memories. We should all earnestly endeavor.

make the most of our lives, no ma what our occupation may be. La look on the sunny side of life, lend a helping hand to others. us strive to live up to our idea . . .

### A Trick for the Boys

Take an ordinary board, two three feet long, such as a bread be and place it on the table so about one-third of its length will paper and lay it on the table the board. Anyone not familiar the experiment would suppose to be easy to do, but try it. Unyou are prepared to break the bo you probably will not be able to ke

The reason is that when the b is struck it forces the other end and the newspaper along with it. 7 es a momentary vacuum causes a momentary vacuum to informed under the paper, and the pasure of the air above, which is also 15 pounds to the square inch. In vents the board from coming up. In is an entertaining trick to play at evening party, and also makes simple and interesting school exp ment.—"Popular Mechanics." \*\*\*\*\*\*\*\*\*\*\*\*\*

## THE COOK'S CORNER

Recipes for publication are no queeted. Inquiries regarding cooling, recipes,etc., gladly answered to no request, to the Housebold Edited Farm and Dairy, Peterboro, Ont.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Rhubarb-and-Apple Pie — paste-lined plate with choppe barb and apple, equal parts, add by ty of sugar, some bits of but sprinkle over a little flour, cover

top crust, and bake.
Rhubarb Snow-Stew the rhub and to a pint of the clear juice, is ened and flavored to taste, add m more than a half-ounce of gels when it is cold and partly set, in the stiffly beaten whites of beating all well togethe

Rhubarb Pie-Having lined a with paste, put in a large cup rhubarb cut in small pieces; be gether one-half cupful of sugar

gether one-half cupful of sausar one egg, and pour over the user in the sprinkle over a pinch of salt sprinkle over and the sprinkle over and the sprinkle over the sprinkle o thick batter; then stir in one of fine'v chopped rhubarb; h well-buttered cups, and steam for an hour. Serve with pudding st an hour.

Rhubarh Souffle-P cut fine, into a double boiler plenty of sugar to sweeten, and till tender: then press sieve. To three cunfuls of press thr the well-beaten volks of three then fold in lightly the stiffy whites, and bake in a well-bu dish until it begins to crack of

Rhubarb Pudding-Wash barb, and cut into inch pieces out peeling: to three pints add out peeling: to three pini-cupfuls of sugar mixed w grated nutmeg. Line a w dish with bread-crumbs, c-layer of rhubarb, and add butter: repeat the layers it is filled, having crumbs if and bake slowly. Slices of be substituted for the crumbs

May 15, 1913.

KEO UDDERS GUI N 24 HOURS BY **EGYPTIAL** 

re is the opinion of M leading resident

had wonderful Egyptian Linim it my duty to writer cattle were troubled , so bad in fact that w ld lose the use of then Liniment but twice, a hours we could milk

anything goes wastables, this excel or stables, this excelled for, and instant relief ope this letter will ca whose cattle are s

ed udders. quickly curing
Egyptian Linimen

orth in both human an gia, sprains, burns a It has healed, withou or other complicate sores and bruises.

all dealers. Free Douglas & Co., Na.



TENDERS.

ALED TENDERS addresses greet and enters addressed greet and enters addressed greet and enters addressed greet and enters addressed greet at the on Thursday, May 15. hase of site and building on south east corner of the enters of t

decline to enter into an ore mentioned. ading purchasers will rary information on app

dersigned.
Department does not bin
the highest or any ter
By order,
R. C. DESROCI

tment of Public Works, Ottawa, May 6, 19

### ell DRILL MACH

r 70 sixes and styles for drill or shallow wells in any kil ock. Mounted on wheels or engines or horse powers o and durable. Any meeds at them easily. Send for c LIAMS BROS., ITHA

BARB WIRE BARGA per 106 lb. keg. 100 rolls 5 lin ling, 42 in. high, all No. 9, per rod. Other bargains is Piping, Belting, etc. Send once before sold out. Ca

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cknowledged



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### **AKEO UDDERS CURED** N 24 HOURS BY DOUGLAS' **EGYPTIAN LINIMENT**

re is the opinion of Mr. Robert Hark-a leading resident of Tamworth,

Having had wonderful success with uglas Egyptian Liniment on my stock, sel it my duty to write you. Our cattle were troubled with caked ud-Dur cattle were troubled with caked ud-s, so bad in fact that we thought they ald lose the use of them. We applied Liniment but twice, and in twenty-r hours we could milk without any

when anything goes wrong in our se or stables, this excellent Idniment always called for, and never fails to

hope this letter will catch the eye of se whose cattle are suffering from ed udders."

ad udders."
sides quickly curing this trouble,
glas Egyptian Liniment has proved
worth in both human and animal distre, such as rheumatism, sedatios,
raigls, spream, sedatios,
raigls, sorea de burns and inflammais. It has beated, without blood poisg or other comulcation, serious
nds, sorea and bruises.

53 at all dealers. Free sample on est. Douglas & Oc., Napanee, Ont.



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num.

1 tender must be accompanied by expete cheque for \$100 on a charter-ka, payable to the order of the Honica the Minister of Public Works, will be foreited if the person tenderic the supplies to enter into an agreement and the property of the propert

dersigned.
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R. C. DESROCHERS.

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"ARLINGTON COLLARS" are good, IF CHALLENGE BRAND is the best

### A Well-Equipped Farm Home

A well-Equipped Farm Mome
Elgin Co., Ont., has more to recommend it than its many herds of splenmend it than its many herds of splendid pure-break of the splend in the splend in the
county are some specified farm homes
that might well be splend in the splend in the
farmers who are thinking of building
a new home or of remedial shomes is
an end home or of remedial shomes is
that of L. H. Lippsit, a Walknown
Holstein breeder. One of the editors



A Much Appreciated Convenience Herewith we have a kitchen view in the home of L. H. Lippeitt. Natural gas is here used for cooking, lighting and heating water.

—Photo by an editor of Farm and Dairy.

of Farm and Dairy who visited Mr. Lippsitt to inspect his fine herd of Holsteins was so attracted by the farm home that he stopped to take several photographs and get a few notes on the household conveniences that he noted there.

noted there.

The Lippsitts are peculiarly favored in that they are near the natural gas region. The home is lighted with natural gas, and Mrs. Lippsitt cooks and heats water with gas that costs them only 25 cents a thousand feet. This gas, by doing away with the use of coal, except in the furnace, does much to lighten the work of keeping the house clean, as well as of cooking. much to lighten the work of keeping the house clean, as well as of cooking. A special arrangement in connection with the gas range takes the place of a water front in connection with the ordinary coal stove for heating water in the large boiler seen in the illustration given herewith.

The running water supply flows:

The running water supply flows in from the roof of the house into a 30 barrel tank located close to the caves. here is thus no expense for pumping the property of the proper

over the whole downstairs portions, their house every time they have their house every time they have their house every time to tid yu after them, would especially appreciate Mr. Lippsit's farm office located off the dining-room. There Mr. Lippsith has a proper case for his herd books and files for pedigrees, and so forth. The cellar arrangement appealed to us particularly. The land directly behind the house falls away and consequently an outside door to the cellar is easily reached. Immediately inside

is easily reached. Immediately inside the door is a small washroom, where the door is a small washroom, where the men on their way from the barn or fields can stop to clean up, instead of carrying all of the dirt on their feet and clothes into the house itself. Adjoining is a laundry room equipped with set tubs, running water and other conveniences to make the weekly washing lighter. Special rooms too are set naide for fruit and vegetables.

Mr. and Mrs. Lippsitt have not be a feet of the convenience of the conven

### Vegetables as Medicine

Vegetables as Medicine
Fruit and vegetables are not only
wholesome, but absolutely essential
to man, says a wiff in the New Zealand Dairyman. A factor of the
no one, broadly speaking, on one, broadly speaking, when
were composed, nor could explain
how the different nutritive ingredients
of foods average their purposes in nuhow the different nutritive ingredients of foods served their purposes in nu-trition. Yet intuition, gleaned from experience, taught those wise women cour grandmothers—how to glean from the garden, the woodland, the meadows and orchards the seasonable fronts and medium to the seasonable fronts are the seasonable fronts and medium to the seasonable fronts are the seasonable fronts.

from the garden, the woodining, ine meadows and orchards the seasonable foods and medicaments that enabled foods and medicaments that enabled them to 'slam the door on the doctor's nose' for years at time. The onion they regarded time. The onion they regarded largestables fitted to cope with nearly defined that fish is heir to. They deemed it that fish is heir to. They deemed it has a great beautifier, clearly dearing the eyes, and ultimately learning the eyes, and ultimately and pneumonia, carache, insommia and memonia, carache, insommia and delimensa for diphtheria and memonian, carache, insommia and delimensa for opp. nervousses the state of th ity, the onion stood and stands un-excelled with this further point in its favor that the onion treatment leaves



Another Kitchen Scene

This corner wash bowl, supplied with both hot and cold water, is one of several conveniences in the home in the Li II. Lippaitt, Eigin Co., Ont. Running water in the home is no longer a "city" advantage.

—Photo by an editor of Farm and Dairy.

none of the injurious after-effects of drugs.

In cases of mnemia, cabbage, cauliflower, and spinach have proved dis-tinctly beneficial, and the more tinctly beneficial, and the more modern tomato stimulates the healthy action of the liver. Asparagus is beneficial in kidney troubles. Celery is useful in cases of rheumatism and neuralgia, and the carrot forms blood, the carrot street of the carrot shows of the kin.

# Roofing

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Alvays read
an in ulate,
alvays depenable and clips
cleanly, evenly and as cloud
as you wish.
If you have
one horse or
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syroger will
save and money
there is a low
first cost and
no repair expense.

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# Old Dutch



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### Rose of Old Harpeth

(Continued from page 18.)

And it was here that Everett found few minutes later as he walk ed rapidly up the milk-house path and stood in the barn door in evident hurried search for somebody or some thing.

"Hello, General," he said with a smile at the barrel full of sleepers at Stonie's side, "do you know where Rose Mary is?"

"Yes," answered the General. "she are in her room putting buttermilk on the five freekles that comed on her nose when she hoed out in the garden without no sunbonnet. I found 'em all for her this morning, and she don't like 'em. You can go on in and see if they are any better for her, I ain't got the time to fool with 'em now.''

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

### Patterns We Can't Deliver

Patterns We Can't Daliver
We would again call the attention
of readers of the Bousehold Department of Farm and Dairy to the necessity of exercising care when ordering patterns. Orders are condering patterns are only its each, but
we are unable to fill without condering the condering the conman or state post office. Rememname or state post office.

The pattern of the constate of patterns of the constate of patterns desired and its foreach patterns.

de server en en estat à

"Not for worlds!" exclaimed Evertas he sat down on an upturned peck measure in close proximity to the barrel. "Have you decided to have Mrs. Poteet and Mrs. Sniffer swap—er—er puppies, Stonie?" he further remarked.

"No, I didn't," answered Stonie with one of his rare smiles which made him so like Rose Mary that Everett's heart glowed within him. Stonie was, as a general thing, as grave as a judge, with something hauntingly, almost tragically serious in his austere young face, but his smiles when they came were fashes of the very divinity of youth and were a strange incarnation of the essence of Rose Mary's cousinly loveliness. "He was crying because he was by hisself and I bringed him along to wait till his mother came home. He belougs some to us, 'cause he's named for Uncle Tuck, and I oughter pester with him same as Tobe have to. It's fair to de my part." "No, I didn't," answered Stonie fair to do my part."

"Yes, General, you always do your "Yes, General, you always do your part—and always will, I think," said Everett as he looked down at the sturdy little chap so busy with his long strings, weaving them over and over slowly but carefully. "A man's part," he added as two serious eyes were raised to his.

"In just a little while I'll be a man and have Uncle Tucker and Aunt Viney and Aunt Amanda to be mine they and Auth Amanda to be mine to keep care of always, Rose Mamie aays," answered Stonie in his most see the end of the long strings draw into his weaving of the cracker.

"What about Rose Mamie herself?"

"What about Rose Mamie herself?"

aked Everett softly, his voice thrill-aked

ing over the child's name for the girl with reverent tenderness.

with reverent tenderness.

"When I get big enough to keep care of everything here I'm going to let Rose Mamie gat a husband and a heap of children, like Mis' Poteet—but I'm agoing to make c'em behave theyselves better'n Tobe and Peggie and the rest of 'em do. Aunt Viney says Mis' Poteet spares the rod too, much, but I'll fix Rose Mamie's children if they don't mind her and me." (Continued next week.)

### \* SPECIAL PATTERN SERVICE

We realize the great interest that all of our readers take in the paper styles, and have therefore made arrangements whereby we will able to give many more patterns in Farm and Dairy than usual during the many more patterns in Farm and Dairy than usual during the style of the structive spring style should you wish patterns other than you will be a tractive spring style should you wish patterns other than you got them for you. When order, atterns kindly give name and address, size and number of pattern desire price the each. Address Pattern Dept. Farm and Dairy Peterboro, Ont. atterns kindly give name and address, size and number of pattern desired. Price Sec. each. Address Pattern Dept. Farm and Dairy, Peterbore, Unt.

THREE-PIECE SKIRT, 783

The simple skirt with just a little the newest and best liked. This one is with the fashionable wide back and can the upper edge or dark filted. It consists of only three pieces and the fronts to the proper of the pieces and the fronts are the proper of the pieces and the fronts are the pieces and the pieces are the pieces ar pieces and the fronts are overlapped. For the draped effect, the left front is cut longer than the right but, when the plain skirt is want-ed, the two are cut after the same model.

un after the same model.

Bodel For the medium for



waist measure
FANCY BLOUBH, 7811
What is known as
the bosom blouse is
extremely fashlonable
attractive. In the
illustration, it is
inade of plain mate
inade of plain mate
index plain mate
and that combination
is extremely we illued, but both blouse
and overwaist of one
offect with the bosom
only in contrast, and

effect with the bosom only in the bosom only in the two under the two treatments give distinctly different results. The simple one with sether a limple one with sether with rather in the over-biouse is made with rather in the over-biouse is made with rather in the cover-biouse in the property of the p

SEMI-PRINCESSE DRESS FOR MISSES AND SMALL WOMEN, 7834



Here is a pretty, dainty frock adapted to all materials that can be made in lingerie style. In addition to serving for the treatment illustration of the could be made from founcing or bordered material inasmuch as it consists of one straight piece. For the 16 year siz 7½ yards of mater ial 27, 4½ yards 3 or 44 inches wide with 24 yards of lac

This pattern is cut in sizes for girls of 14, 16 and 18 years.

GIRL'S DRESS IN RUSSIAN STYLE, 7820



RUSSIAN STYLE, 7829
The simple frock that is made in that is made in that is made in the second of the front is being much worn this seament in the second of the front is being much worn this seament in the second of the front is being much worn this seament in the second of the front is being much worn the seament in the second of the front is a seament in the se

This pattern is cut in sizes for girls of 10, 12 and 14 years of age.



ways like to wo coveralls. These simple and cosy make and so qua and attractive in feet that they really picturesque well as useful begins a material muliked for such g ments, but stangalates. liked for such gaments, but stup-galatea, gingta-and linen are in e-ery way approp-ate. The patch pos-et is sure to be du-to the child's on heart.

to the child's or the target will be needed 1½ yards of material; or 36 inches wide, or ½ yard 44.
This pattern is out in aixes for childe 2, 4 and 5 years of agents. FOUR-PIECE SERFET, 7815



ent materials, the fashion materials. great these a upper ed ing a little it whether made ir w



Mothers will be to like this p frock. It is el-ingly dainty, em-ly attractive an ly attractive coming and, flouncing m own finish, tremely tremely in on shown mas 2 yards of bord material 30 in wide, 2% yards 2 ches wide, 1 yard

cut in sizes for This pattern as from 8 to 14 years. SEMI-PRINCESSE GOWN. 7818

Every kind of



straight For the med size will be not for the blouse

or 36, or 3 yards 44. This pattern is made 40 and 42 inches bust n made in sizes 3, 3



CEMENT FLORR—I h
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In it when ahe fosled in
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that you suggest here
that you suggest here that you suggest, hen be danger of infection plan would be to put wooden floor of plank

LUMP JAW.—A young ago had a lump gather was very hard, and in ab time it broke, but did not or get much smaller. Hou lib—H. I. M.
This is lump jaw. G of potassium three time mence with one dram mence with one dram instil she refuses food ar nutil she refuses food ar nutil she refuses food ar nutil she refuses food are.

ntil she refuses food an ins from eyes and me in becomes scruffy.



1 'A Wes

lese symptoms become asse giving the drug.

UNTHIFFT COW-I have sebended early in January; at about two weeks are supported to the property of the propert

Mix equal parts powdere iron, iron, gentian, ginger mica, and give her a tal-ree times daily. Feed ain, bran, raw roots and

LOOPY MILK-I have on the problem of the problem in a fix does not be a fixed to be a f at of cold water as a great ily until bood ceases to ap due to weakness and run ne of the small blood vesse.

der. In most cases it y atment, but is liable to rece appreciable cause.

913

E

CEMENT FLOOR.—I have a box stall which is all comented. I had my mare within the commented of the control of th

LUNP JAW—A roung core two months ago had a lump gather on her joo. It was very hard, and in about three was very hard, and in about three with the two beauting it broke, but did not run very much the life. The mailer. How should I treat here. It was the life in the life is lump jaw. Give her ieddide of potassium three times daily. Commence with one dram doses and increase the dose by one-half dram daily until she refuses food and water, fluid until from eyes and mouth, and the kin becomes scruffy. When any of

Our Veterinary Adviser milch ow freshening two weeks ago was milch ow freshening two weeks ago was been milked on the milch of the milch own freshening two weeks ago was been milked to the own freshening two weeks ago was called the seem of the milked to the milked to

as wrong successive.

As a result of the sickness the activity of the udder has been lessened.

It is probable that it will gradually return, but in some cases it does not.
All that you can do is feed liberally on
milk producing food, massage the udder well frequently and milk regularly.

### Lambing Time Hints

To prevent ewes from disowning To prevent eves from disowning one of their lambs in case of twins—a trouble with which case of twins—a trouble with which can be consumed have to contend, it is suggested that small pens, sad-it is suggested that small pens, so our by four, or four feet by five feet, but partition, ed off by means of little but partition, ed on the consumer of the may then be removed to make place When any of for other ewes.



A Western Idea of a Dual Purpose Cow

ase giving the drug. If necessary estment may be repeated in two

UNTHRIFTY COW—I have a cow that wakened early in January; she was fat, at about two water and the treatment of the comparison of the compa

Mix equal parts powdered sulphate iron, gentian, ginger and nux nica, and give her a tablespoonful ee times daily. Feed well on ree times daily. ain, bran, raw roots and good hay d keep comfortable.

LOODY MILK.—I have a cow that is to preache in a few days. I have the control of the control of

to or cold water as a green twice by until bood ceases to appear. It due to weakness and rupture of as of the small blood vessels of the er. In most cases it yields to tment, but is liable to recur withappreciable cause.

Every ewe should be examined twice Every ewe should be examined twice each day to secretain whether the lambs take all the milk, or whether they use only one side of the udder. If there is a surplus, it should be removed in order to keep the udder from caking. It will be wise to examine the udder of each ewe each day for at east three days.

least three days.

Ewes witherey large udders should be fed lightly on grain for about three days, so as the few event milk fever. After this period the week of the few well to continue their milk a power of the think of the few event to continue their milk and the few event to continue their milk and the few event that bring good prices may be read that bring good prices may be a few for the few events of the few events o

higher market price. higher market price. However, it is not a good plan to perform both opera-tions on the same day; a week apart is better.—Frank Kleinheinz in Live Stock World.

Many an unprofitable cow would show up better before the scales and Babcock test did she get enough feed out of which te make milk about the afraid of the cow that is a big cater. And don't buy a cow recommended as a small aster. a small eater.

J received my pair of pure-bred White Wyandotte fowl for securing a club of five new yearly atherriptions to Farm and Dairy from Mr. Charles N. Klink, of Elmira, Ohn must say that they certainly are a fine pur-ty for the property of the control of the Everybady who has seen them in pair. say that they certainly are a nne pair. Everybody who has seen them is also of the same opinion. I would not want to part with them. — Thomas Byrns, Lambton Co., Ont.

### HOLSTEINS LYNDEN HERD

High Testing Holateins for sale. One sull, i year old. Sire's dam Luin Glaser. Sire's lam Luin Glaser. The butter, 7 days. Dam 's richly butter, 7 days. Dam 's richly butter, 856. Also Bull butter, 856. Also Bull butter, 856 and upward also two 'year-old Holfers in milk. Write o'w o 'year-old them. LYNDEN. ONT.

### HOLSTEINS Two Holstein Bulls

Fifteen months old, one from a twenty-one-pound cow. Good individuals. R. F. HICKS, NEWTON BROOK, YORK CO.

### LAKEVIEW HOLSTEINS

LAKEVIEW HULSJEINS
We are now testing some of the
daughters of Count Hengeword Type
He Kol, and they are running from
100 He soil hirst calt to 20 lbs. with
100 He soil hirst calt to 20 lbs. with
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Ourvilla Holstein Herd Ourvilla Molstein Herd
Buils of serviceable age all sold. If
you want them from here we would
advise you to biy
Colantha Sir Abbelira and from 221 for
Colantha Sir Abbelira by Detelhand
and 23.66 lbs. 4-year-old Grand indiutduals 4 monthe old.
LAIDLAW BROS., Aylmer, Ont.

## LAKESIDE DAIRY AND STOCK FARM

Present offering, Bull Calves from Record of Performance dams; also a few females.

W. P. BELL, BRITTANNIA REIGHTS, ONT Ottawa Bell 'Phone.

# CAMPBELLTOWN HOLSTEINS

CAMPDELLIUM NULTEINS
This week we offer Bull Calf, bora April
2at, 1911. A dandy, nearl Calf, bora April
2at, 1914. A dandy, nearl Calf, bora April
2at, 1914. A dandy, nearl Calf, bring the land of the land of

GRACELAND Herd eires. 3 nearest dama Av. 32 lbs. butter 7 days. 6 of his ancestors in 3rd eservation back have daughter with generation back have daughter with cother two from 30 to 31 lbs. 7 days, and the other two feeding. beet to bim. Write Flax RUBY. TAVISTOCK, ONE. · TAVISTOCK, ONT.

# Lyndale Holsteins

We are now offering Bull Calves from 1 month to 7 months old. All are from official record dams and sired by some of the greatest bulls in Canada.

Brown Bros., Lyn, Ont. HOLSTEIN BULL CALF

FOR SALE First-class Calf, 15 mos. old. Also Heifers, different ages, cheap for quick sale,

J. O'Connor, Campbellford, Ont. Woodlawn Stock Farm

## RIVERVIEW HERD

9 Young Bulls, from 2 to 12 months, sired by King Isabella Walker, whose sister, 5 nearest officially tested dams, a sister of his dam, and two sisters of his dark after average for the eight 30.54 lbs from R. O. M. and R. O. P. dams. P. J. SALLEY, LACHINE RAPIDS, QUE.

\*\*\*\*\*\*\*\*\*\* Breeder's Directory

The Feeder's Corner is for the use of our subscribers. Any interested are invited to ask questions, or send items of interest. All ques-tions will receive prompt attention.

\*\*\*\*\*\*\*\*\*\* YORKSHIRE PIGS, all ages, either eez. Ohoice Young Bears, fit for service. Also Sows of all ages, bred and heavy with pig.—H. C. Benfield, Woodstock, Ont.

FOR SALE-2 Sons of King Fayne Segis Clothide, from R. O. P. cows. Also three Clyde Fillies and 3 Stallions, Yearlings. -E. M. Holtby, Manchester, Ont.

FOR TAMWORTH SWINE-Write John W. Todd. Corinth, Out. E. F. D. No. 1.

HOLSTEINS—Young stock for sale. Sired by Imperial Pauline De Kol. whose 15 nearest dams average 25.20 lbs. butter in 7 days—R W Walker, Utica, Ont.

### HOLSTEINS

HOLSTEINS FOR SALE

10LSTEINS FOR SALE
FERNDALE STOCK FARM
2 Good Korndyke Bulle left, also 1913
alress, which whose helders who whose helders re doing nicely and the state of the s FIERHELLER BROS., MT. ELGIN, GNT. Bell 'Phone 167 R. 12. C.P.R. Station.



45.34 lbs. Butter in seven days 170 lbs. Butter in thirty days are the latest world's records Made by a siste King Segis Pontiac Koningen

LYNN RIVER STOCK FARM We offer for sale Cows, Heifers and Heifer Calves; also one Bull Calf and our senior Herd Sire, 4 years old. Write your needs and we think we can please you both as to breeding and price. J. ALEX. WALLACE Lynn River Stock Farm - Simcoe, Out.

North Star Holsteins

ATUS ERI EAGU FALLER ALVISUELLING
Bulls ready for service, from B. O. M.
dams, sired by a son of Natoyo De Kol
this, record of 55.22 lbs. in 7 days, 150.
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W. STEWART, . . LYN, ONT.

### OXFORD DISTRICT The Holland of North America

Is the place to buy Holsteins of quality. The Third annual sale will be held in the city of Woodstook on March 35th, 1914. Full list of breeder in the Origon District with post office and station addresses sent on application to: R. J. KELLY, SECY., TILLSONBURG, ONT



Purebred Registered
HOLSTEIN CATTLE
The Greatest Dairy Breed
AND FOR FREE ILLUSTRATES BOOKLEY Holstein Friesian Asso., Box 148 Battlebere V

BROOKSIDE OFFERS FOR SALE

DNUUROIDE UFFEND FUR OALE
A No. 1 Buil, fit for service. Dans,
Flora Korndyke Piecertje, at 1
Dans, produced 153 lbs. butter, R. O. M.
Ban Jewell Hengerweide
son, whose
the service of th B. E. HAGERMAN, R.M.D., Harold, Ont.

# HET LOO STOCK FARM

Present offering a son of Minnie Landes. Les Chenaux DeKol Burke and Paul DeKol Jr. Blood. Calf aired by a son of King Segis and out of daughter of Paul Beets. Write for price.

HET LOO STOCK FARM, VAUDREUIL, QUE. Dr. L. de L. HARWOOD, Proprietor GORDON H. MANHARD, Manager

### HOLSTEINS

Herd | "KING SEGIS PIETERTJE" Sires "FINDERN KING MAY FAYNE"
Bred by Meyrs, Findern, N.J.

The dams of the set we size average over 32; ibs. for 7 days, official test. Get your next young bull from my herd—best by test. One animal or carload lots (Farm only 40 \_ods from station) Write, L. H. LIPSITT, Straffordville, Ont.

Proprietor, Forest Ridge Holstein



2 Bulls, rising 2 yrs., grand-sons of Pontiac Korndyke, and 3 rising 1 yr. old from other

Also Bull and Heifer Calves. Females, WM. HIGGINSON, INKERMAN, ONT.

### **CLOVERLEA HERD**

We raised Griselda, the cow recently sold for \$3000.00. The highest priced Holstein cow ever sold in Canada.

The blood that sells is the blood that

JOHN J. TANNAHILL

Avondale Stock Farm A. C. HARDY, PROPRIETOR. HERD SIRES

HERD SIRES

Frince Bengerreid Pittle, 123 (58,82).

Sire, Penness Hengerveid Lab.

Sire, Penness Hengerveid Lab.

Highest record daughter of Hengerveid

King Pontine Artis Canada, 18,42 (71,724).

Sire, King of the Pontines.

Dam, Pontine Artis, 31.7 lbs. butter 7

days, 1,478 lbs. 38 days.

Lab.

L

### YOUNG COWS AND HEIFEDS HOLSTEINS of different

Safe in calf to a son of the great bull De Kol the 2nd's Butter Boy the 3rd. Also Yearling Heifers, and Heifer and Bull Calves for spring delivery. Write

W. W. GEORGE. · CRAMPTON, ONT.

### MAPLE CROVE, CRESCENT RIDGE and WELCOME STOCK FARMS

and WELCOME STOCK FARMS
Make a special offering in a grandson (if for service) of the \$1,000.00 King of the BRUSE Kings, out of a 105-bit. Syear-old BRUSE Kings, out of a 105-bit. Syear-old between the services of the serv H. BOLLERT, R.R. NO. 1. TAVISTOCK, ONT

ELMDALE DAIRY HOLSTEINS

sifes up relations to 20 lbs., and one 3-year-old. resp. 5-year-olds up to 20 lbs., and one 3-year-old. No. 1. Dam. R. O. M., 435 lbs. milts. [18,7] lbs., but-ter is 7 days. Full sister to call, R. O. M. at 2 year. 2 mos., 335 lbs. milts. [18,13] lbs., butter in 7 days. Full sister to call, R. O. M. at 30 lbs. the in 7 days. Full sister to call, R. O. M. 300 lbs. milks. [16,5] lbs. butter in 7 days at 2 yes. 1 mo. old. For prices write. FRED CARR — 100 x 115, 87, THOMAS

### **MISCELLANEOUS** MAXWELTON FARM

Has some of the BEST JERSEY CATTLE in the land. Also BERKHILE SWINE. Make your wants known to the Manager,

**MAXWELTON FARM** STE. ANNE DE BELLEVUE QUE.

### MARKET REVIEW AND FORECAST

Tronton Monday, May 12-Not in years rain dealers, are agittaling for payment have we had more favorable seeding weather than farmers have experienced this spring. No rain worth mentioning has fallen since seeding commenced. If days for their payment from Great Britain, who lesses the seeding commenced of the summary of the seeding commenced of the seeding commenced. If days for their payment from Great Britain, who lesses to the seeding commenced the summary of the seeding the seed

mer are at all favorable, grain at least should be a bumper crop. The effect of a should be a bumper crop. The effect of the country at the country at a farmers are already discounting this season's crops. The country are already discounting this season's crops. The country are considered, but men who are taking out mortgapes at its and one half per cent. and grapes at its and one half per cent. The amount of Canadian securities being dispersed of the control of the more market. The amount of Canadian securities being dispersed of in the Od Country indicates that considered the control of the being invested in the farm lands of the West and solitely unproductive and makes capital soarcer for productive enterprise. WHEAT

WHEAT
There is little doing in the export wheat
trade. Buyers on this side of the Atlantic
are insisting that wheat be paid for on
sight draft and not on a 65 to 50 day
income that and not on a 65 to 50 day
ing yeasels carried wheat across the Atlantic. Hritish dealers so far have retuned to meet this condition, but wheat is
used to meet this condition, but wheat is
application is expected. This holdup
along with the report of the record winer crop in the United States has had a
left companies of the condition of the
condition of the Condition of the Condition
and the market is fairly firm. No. 1.
Northern, 50,00; No. 2, 55,00; No. 3, 59/40;
form to 780.

CARSE GRAINS
"Nothing doing," characterizes the

"Nothing doing." characterizes the coarse grain market. There is a smaller roune both of corn and oats moving practically unchanged. Quotations: Oats, C.W. NO. 2, 60; NO. 1, 506; NO. 1,

MILI FEEDS

How to dispose of their mill feeds is
becoming a serious proposition with millers. Manitoba bran. Siz 50 to \$19; shorts,
\$20 to \$21; Ontario bran. \$19; shorts,
\$20 to \$21; Ontario bran. \$19; shorts,
\$20 to \$22, and middlings, \$24 to \$25.

to \$22, and middlings, \$24 to \$25.

to 822, and middlings, \$24 to \$22.

The demand for first quality hay is stronger. For lower grades the market is dull. No. 1 baled hay, \$12.50 to \$15.

No. 2, \$5 to \$51. No. 3, \$5 to \$57. baled etraw, \$5 to \$5.50. flight practs hay is at stronger. So to \$25. bale the popular and the stronger is the stronger. So \$1.50. to \$1.

SEEDS

to 89.90.

No. I clover is exhibited and the No. 2
grade is 836 to 84.56. Other quotations
are: Timothy, No. 1, 87.50 to 881.02, 26
to 85.90; alfalfa, No. 1, 87.50 to 830.00;
No. 2, 87.50, salke, No. 1, 83.50 to 830.00;
The potato morts and Standard Stand

EGGS AND POULTRY Wholesale egg quotations have ruled father than the state of the weeks now. The trade is taking large quantities and all of the surplus is being put into storage. New aid egg command 20 to 21c here and 17c at country points. Conditions at Montreal are eimiar, with 16c the ruling price in are eimiar, with 16c the ruling price in

Prices on dressed poultry continue at ast week's high lovel. Now is the time to ell surplus stock. We quote as follows: Fresh killed chickens. 19e to 25e; fowl. to to 18e; live chickens, 16e to 16e; live owl, 16e to 15e and dressed turkeys, 20e o 25e.

### DAIRY PRODUCE

Blocks of butter are accumulating and easier prices are looked for, although not yet announced. Cheese factories equipped for the manufacture of butter are still making butter, although the nominal cheese-making season is opened. It is fortunate that butter is so strong as cheese prices are rather unsteady, particularly as cheese dealers, not to be behind the

LIVE STOCK

Recent reduced prices and reports of large stocks in the hands of packers and butchers have had the effect of reducing receipts and consequently this week prices have taken an upward jump of 25c all have taken an upward jump of 25c all the way around. Choice export cettle week run at \$8.75 to \$7.25. Other quota-tions are: Choice butchers' cattle, \$8.75 to \$7; medium to good, \$4.75 to \$8.75. to \$7; medium to good, \$4.75 to \$8.75. good, \$3 to \$8.75; bulls, \$3 to \$6; feeders, (for which there is a great demand), \$5.25 to \$6.05; feeding bulls, \$4.50 to \$4.50;

### Astonishes Us!

The way our live stock advertisers are making sales so easily through the columns of Farm

and Dairy is astonishing.

Recently Mr. Joseph O'Reilly,
of Ennismore, a new beginner as a breeder of pure bred cattle, advertised a bull calf, using the columns of Farm and Dairy. On the strength of the first ad he sold the calf at \$100.

sold the cair at \$100.

The calf was a good one and well worth the money. Yet it is very encouraging that a new breeder, not at all known outside of his home community.

side of his home community, can make such a good sale and so readily through advertising in Farm and Dairy.

Mr. S. Armstrong, of Jermyn P. O., Ont., recently had an ad. in Farm and Dairy. He disposed of the stock he was offering and secured more replies than he could take care of, so he pass-ed them on to some of his neigh-

Have you pure bred stock you want to sell? It will pay you to seek buyers for it through the advertising columns of Farm

the decertainty and Dairy!
You know our service costs you only the low flat rate of \$1.40 per inch each issue. Your advertisement will take your announcement out to 16,000 possible buyers. Try this way of seeking sales! Fix up your at tonight while you're thinking about it and send it to us and have it in Farm and Dairy for several issues.

stockers. \$3.50 to \$6, and canners and cut-ters. \$2.25 to \$3.78. we are in good demand at \$56 to \$87.70. medium bring \$35 to \$55, and springers. \$39 to \$75. Calves are 50, stronger at \$5 to \$35. Calves are 50, stronger at \$5 to \$35. Calves are 50, stronger at \$5 to \$35. Calves are 50, stronger at \$5 to \$35.0 each. \$7.50 for yearlings, and \$7 each for this seasons erop. Light ewes bring \$5.50 to \$7.50; heavy, \$5.30 to \$6.50, and bucks and Hog receipte continue libral, but all Hog receipte continue libral, but all

culla, \$3 to \$5. Hog receipte continue liberal, but all buyers are on hand with liberal wants. Packers are quoting \$9.45 to \$9.50 f.c.b. country points, and sows, \$7.95 to \$8.

MONTREAL HOG MARKET Montreal, Saturday, May 10.—The mar-ket for live hogs is steady, with prices unchanged, selected lote selling freely at 310 to \$10.50 a out, weighed off cars. Dressed hogs are also meeting with a good demand and fresh-killed abattoir stock is selling that \$2.50.

EXPORT CHEESE AND BUTTER

EXPORT CHEESE AND BUTTER
Montreal, Saturday, May 19.—The maket for cheese has become steader and
prices at this week's country markets
prices at this week's country markets
pound, with white cheese, monopole
demand than colored and commanding a
premium of about ½e a pound at some
of the markets. Receipts are increasing
steadily, but are still away behind last
year's. The demand, however, is less than
year's. The demand, however, is less than

it was at this time last year, and the small receipts have not had any effect manufacted and prices are study and the small receipts have not had any effect and the small receipt and the small receipt and the small receipt and demand on the other side next week. It heart of the small receipt and the small receipt and the small receipt and there is no evidence of any chance of an improved market during this month at improved market during this month at

improved market during this month least.

Items.

The provide market during the product a decline which was registered at the binning of this week. Dealers speak of a inquiries from the West. It is reported to the product of the pr

CHEESE MARKETS roquois, May 3.-400 colored cheese soid

Belleville, May 3.—545 cheese 166 sold at 11% and 165 at 11 1-16c

165 sold at 11% and 165 at 11.1-16c.

Cowanawille, Que, May 3.-655 puckage of butter; 15 factories sold at 25c and ast two factories at 25%.

1.-600 boxes at 25%.

12%c. Dairies sold at 12%d to 12%c.

Campbellford, May 6.-256 cheese boxied.

Woodstock, May 7.-256 boxes of colored Woodstock, May 7.-260 boxes of sales.

Madoc, May 7.-256 offeres boarded as 16.-25% of the colored and 16.-25% of the colored and 16.-25% of the colored and 16.-25% offeres boarded at 16.-25% offeres

Bidding reacased 1256 with no sales.
Madoc, May 7.—175 obsess boarded & sold at 11c.
Brockville, May 8—Offerings were 2.5 boxes—1.611 colored and 645 white. The sales were 24 colored at 30%c.
Kingston, May 8.—Thirty colored ax 2.5 boxes of white boarded. All sold # 2.5 boxes of white boarded.

1740. 170quois, May 9.—400 colored and 6 hite. All sold; colored 10 15-16c. as

Jones May 9-40 colored and white All sold: colored 10 13-16c. as white He. Sold: colored 10 13-16c. as white He. Sold: colored 10 13-16c. as white He. Sold: colored 10 13-16c. as white May 9-752 cheese boarded 6 Cornwall, May 9-752 cheese boarded 6 cheese, All colored All sold at 10 15-0 cheese may be sold at 10 15-0 cheese were often All sold at 10 15-0 cheese were often 15-0 chees

A GREAT PRIVILEGE FOR MAY 28

A GREAT PRIVILEGE FOR MAY 3

A GREAT PRIVILEGE FOR MAY 3

It will be one of the great privileges a Heteline for many readers of Farms and Bully who are not believe the Control of the Con

### \*\*\*\*\*\*\*\*\*\* **OUR FARME**

May 15, 1913

PRINCE EDWA PRINCE EDWA

KING'S CO.

CARDIGAN. May 5.—

April we had lovely w
is has turned cold. Im

Many farmers have etc.

disking. A few early

disking. A few early

to 20c, and not much.

Out. 20c to 40c a bush.

50c; wheat seed, island

ported. \$2c; eags. 17c; b

milch cows, \$30 to \$40; f

live.—H. P.

ONTAR

ONTAGE
HEFWORTH. APTI S.
HEFWO SIDNEY CROSSING

SIDNE HASTINGS CO.

SIDNE HASTINGS CO.

SOURCE HASTINGS CO.

SOURCE HASTINGS CO.

SOURCE HASTINGS CO.

SOURCE HASTINGS CO.

LAMBTON CO.

Wyoming: R. L. Moo: W. Fausher, Florence; Wanstead, and S. C. Sm A primate of Porenoc in A prim

Ennes are looking very control of the control of th

ALBERTA RED DEER DISTRICT, A DEER, April 26.—Farm province are busy see

PRINCE EDWARD ISLAND

OLBDIAN, May 8.—The last week in
APPLOVAN, May 8.—The last week in
APPLOVAN MAY 100 May 10

ONTARIO

porteel. 82; eggs. Be; butter, 36e to 25e; miles cows. \$3 to 849 rat castile, 6e to 7e live.—H. P. ONTARIO

BRIUGE CONT.

HEFWORTH, Ant. Control of the cont

conting very promising in the continuous art nooning very promising in the continuous art not all what is splendid of the continuous all what is splendid of the continuous all what is splendid of the continuous art not all what is splendid of the continuous art not all the continuous art not not all the continuous art not all the continuous ar

ALBERTA
ED DEER DISTRICT, ALTA.
EER. April 26.—Farmers in the
province are busy seeding. Cen-

OUR FARMERS' CLUB the land and bright, warm weather, Dairy produces are in good demandable. Dair

WHAT THE DOMINION GRANGE IS DOING

W. C. Good, Master, Dom. Grange

WHAT THE DOMINION GRANGE IS DOING.

W. G. GOOd, Master, Dom. Grange
A the last annual meeting of the Deman of the last annual meeting of the Deman of the last annual meeting of the Deserver of the last annual meeting of the Deman of the last annual meeting of the Deman of the last annual meeting of the Deman of the last annual meeting of the Manuscript
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propagands and the encouragement of international antity; arbitration insections
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war as a method of settling international
of Local option for municipalities in
methods of municipal taxation.

6. The attendance through the initiative
and referendum.
The above objects together with those
dealing with rural education, constitute
the control of the control of the constitution of the control
and should, we think bounded the formance
indeed, rarel. The officers of the Grange,
indeed, rarel. The officers of the officers
any opposition either to the rail districts,
any opposition either to the rail districts,
any opposition either to the rapid deserious handicap under which our farmeserious handicap under the districts. The
difficulty in securing help (districts) and
of many of the younger men and women,
of the dean property of the granger
thanding the younger
than the work of the dean property of the
officers of the dean

### AYRSHIRES

Burnside Ayrshires Winners in the show ring and dairy tests. Animals of both sexes, Imported of Canadian bred, for sale. Long distance 'Phone in house. R. R. NESS. HOWICK, QUE.

SUNNYSIDE AYRSHIRES

Imported and Home-bred, are of the choicest breeding of good type and have been selected for production. THRES been selected for production. THRES will be selected for production the fall ared by Nether Bell Good-time "—5,641—(Imp.), as well as all Good-time and see, for sale. Write Eumake of various ages, for sale. Write Implementations ages, for sale. Write Implementation of the selection of

J. W. LOGAN, Howick Station ('Phone in house.)

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### AYRSHIRES

TANGLEWYLD AYRSHIRES
3 TOUNG BULLS (Sept. and Oct., 1912),
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We are offering a number of fine Young title of different ages, sired by "Barch kie Cheerfal Boy" (Imp.) No. 28,878 Two Market of the Advance of the Cheerfal Williams of number of the others and the Advance of the Record of the Present unret test for the Record of the Record of

LAKESIDE FARM, PHILIPSBURG, QUE. QEO, H. MONTGOMERY, Prop. 164 St. James St., Montreal

# Ayrshires and Clydesdales

AT AUCTION

The Second Annual Sale under the auspices of the District or Beauharnois Live Stock Breeders' Association, will be held at

# Ormstown, Que., June 20th

In connection with the Annual Show, June 18th, 19th and 20th.

100 Head of Ayrshires 10 Head of Clydesdales

Send in your name for a catalogue.

GEO. BRYSON, Secy. ORMSTOWN, QUE.

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Sons of FONTIAO KORNDYKS, ready for service in the near future or younger, sons and daughter of SIE JOHANNA OULAYTHA GLADI, whose three first daughters to efficially retend average between 28 pounds each as junior two-year-olds, and sons of RAG APPLE KORNYUR, and RAG APPLE MORNING TO SUPERIOR OF THE WORLD WITH A STANDARD CONTINUES AND A STANDAR E. H. DOLLAR, HEUVELTON.

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# **Woodcrest-Oakland Sale**

# 100 Head of Holstein-Friesians

Of the Producing Kind

Both the Woodcrest and Oakland herds are under government supervision, and hence are eligible for shipment into the Dominion without a retest.

THE PRIMARY OBJECT of the Sale is to dispose of the increase of two great herds. The offerings consist of breeding stock, not trading stock-animals that in their new homes will add to the reputations of the establishments that now stand back of them.

Among the number are daughters of Homestead Girl De Kol Sarcastic Lad; Pietje 22d's Woodcrest Lad; Pietje 22d Son; King Segis Hengerveld; Woodcrest Johanna Pietje; Tidy Abbekerk Prince; Changeling Butter Boy; Woodcrest Princess Lad; Count Hengerveld Johanna Fayne; Cornucopia Pietje Lad; and others of nearly equal quality.

The daughters of the above sires number about fifty.

Oakland Farm enters sixteen yearling daughters of Urmagel Segis, who was by Sir Gelsche Walker Segis and from a 22-lb. 3-yr.-old daughter of De Kol Hengerveld Burke and Urmalgelsche 2d A. (31.24 lb), the only 31-lb. cow having two 31 1/2 lb. daughters. The dams of twelve of these heifers were by a son of Aaggie Cornucopia Johanna Lad Jr. All will be bred before the sale to the wonderful sire, Sir Korndyke Pontiac Artis. Four daughters of Mooie Fayne De Kol, one a 24-lb. 3-yr. old with a 100-lb. 30-day record; another out of a 30-lb. dam, Three daughters of De Kol Hengerveld Burke.

All the animals in the sale are young-five years old or under, except three cows, two six years, and the other eight years old.

THE TWO HERDS REPRESENTED:

Woodcrest Farm Rifton, N.Y.

Oakland Farm Weedsport, N.Y.

### Remember the date, May 28th, 1913

Place of Sale: Rifton (R. R. Station, Rosendale, on Wallkill Valley Branch of West Shore R. R., leaving main line at Kingstop.)

### Auctioneers :- Kelly and Haeger

For catalog or other information, address the Sale Manager,

E. M. HASTINGS, LACONA, N.Y.

N. B.-When writing for catalog, be sure to mention Farm and Dairy, and state whether or not you expect to attend the Sale.

Every farmer is perfectly familiar with the fact that if a good herd of Shorthorns falls into the hands of a stockman who feeds them average farmer feeds his stock, there will be a rapid decline, in each successive generation, from the former high standard of the herd. Every farmer is also aware of the fact that if a stockman, who has brought a herd of Shorthorns up to a high stan-dard of perfection, discontinues the selection of the best animals for keeping up or improving his herd, it will "run down" rapidly from generation to generation. Just as surely as these two factors—namely, good feedthese two ractors—namely, good reed-ing and selection—are necessary for keeping a good herd of Shorthorns from "running down," so are they necessary for keeping a farmer's po-tato-seed stock from running out.

AN IDEAL STANDARD YIELD

The ideal feeding standard for potatoes should be such as will produce not less than 200 or 250 bushels duce not less than 200 or 200 busness per acre, and preferably more. This requires a soil that is, first of all, fertile, and, secondly, in a good con-dition for the roots to gather plantfood from. In addition, the plants must not be overrun with weeds, and the bugs must not be allowed to get away with the crop. The fertilizing can be accomplished by rotation of crops and manuring. A rotation or crops and manuring. A rotation that supplies a clover sod, or a sod of clover and timothy, one or two years old, is generally best for the potato crop; the only exception being that found in some cases where some that found in some cases where some other crop is grown on the sod, to be followed by potatoes. The manure can be applied to the sod at any time, during the year preceding the potato or other crop, that may be practicable. Liberal applications should be made, usually 10 or more good sized loads an acre. If this cannot be done for the active postero-field. loads an acre. If this cannot be done for the entire potato-field, it should be done on enough land to supply from two to five times as many bushels of seed potatoes as will be required to plant the next year's

SEED BED AND CULTIVATION REED RED AND CULTIVATION
The second requirement for good feeding can be suplied by first preparing the best possible kind of a seed-bed, and second thorough cultivation of the crop. In preparing the seed-bed, many plow twice, first about four inches deep in the fall, and four inches deep in the fall, and again, seven or eight inches deep, in the spring. This method seems worthy of trial. At any rate, the land should be plowed deep, preferably eight inches. This should be followed by a thorough working up of the seed-bed; to be followed by a liberal use of the harrow, weader, and cultivater. harrow, weeder and cultivator, as needed during the season.

needed during the season.

The benefit to be obtained from the proper feeding and care of the potato erop is greatly increased by the selection of the tubers possessing the most vitality for seed potatoes. Even though the crop as a whole may have been well fed, and the yield large, there is much difference in the way in which certain tubers acquire the vitality that results from liberal feeding.

VITALITY IN POTATOES The sign of vitality in a potato is, most of all, the plump form, as considered with reference to length. Rural New Yorkers and similar varieties should be round and more or less flattened, without the least elementaries. elongation.

The signs of degeneration in po The signs of degeneration in po-tatoes are as follows: (1) elonga-tion of form as compared with the shortest, plumpest form that can be selected for the variety, often ac-companied by more or less tapering ends, a taper toward the "saeed end" being worst; (2) eyes more numer-

How to Prevent "Running Out" ous than usual, especially in b.d. ly-degenerated tubers; and (3) an increasing proportion of small po-

The foregoing principles of selection may be applied to any variety of potatoes. Degeneration is the same for nearly all of them. A few varieties do not show the elongation, and the difference in the eyes, that are generally found along with degenera-tion — until they are almost com-pletely run out. In such cases, the proportion of small potatoes is more

important than ordinarily.

Small potatoes should never be used for "seed." They are very likely to be the most degenerate seed stock that could be planted.

Record Centres and Burglars C. F. Whitley In Charge of Records, Oftawa.

The marked increase of interest in or the times. New associations are being organized and new dairy record centres have been established this centres have been established this year at Alexandria and North Gower, Ont., Shawville and Ste. Henedine, Que., Scotsburn, N. S., and Sussex,

With a simple record system, there is no valid reason why a dairy

### Have You Something to Sell?

Did you ever hear the story of a boy who was sent to market with a sack full of rabbits, ingering around town all day and coming back with ut selling them. When asked by his mother why he had not sold the rabbits he said no one had asked him what was in the sack!

no one had asked him what was in the sack!

Are you as a breeder of pure bred with the sack!

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Issue.

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readers about the merits of letter fix
stock you offer for sale! Better fix
ip the ad tonight while you are
thinking about it. Mail it to us
and start in with next issue.

farmer should harbor the type of col farmer should narbor the type of our that is reluctant to pay her way; nit systematic records of the yield of each cow, he is in a position to build up a herd in which each individual pays; good profit. To increase the prefiper cow means to increase the interest of farm life and the real joy of living. Wand was man rather these power in the profit of Would you not rather keep cows giving \$30 profit than those giving only dollar profit?

Milk record forms, we may remise our readers, are still supplied free or application to the Dairy Commission approach to the Dairy Commissioner, Ottawa: state in your letter whether you want forms for keeping daily weights or only three days a month. Send for record forms as insure yourself against the modern burglar cow that steals the credit and the profit made by the good cow. Ottawa: state in

The cosy homestead with its fassetting of trees seen in the heading a page four of last issue is the home of W. A. Oswald, Two Mountains C. Que., a competitor in Farm si Dairy's Prise Farms Competition. The Holstein herd seen in the heading on page seven was photographed by an editor of Farm and Dairy on the farm of Samuel Dickie and Sen, General Senting of the page of the prise The cosy homestead with its fine than any other herd.

HAT system tario adopt? of constructi When will the wor commence? Such general questions t are turning over in coupled with this question, how is th improvement going
The following pa

pretend to give ansitions for no answers framed. It is knot the Province, through is committed to the proved highways, by yet been established administration cre and specifications. The council will me and the matter will until then. The out far from speculative. about what the public they want they have Something of the imp coming can therefore The future road de

tario will depend uthemselves. The treeach locality will depe locality wants, and wants it. It is the a of the Provincial Go point an investigati which will devolve the which will devolve the making a province whole highway problet or things, this body wations from various prince, who will be get tunity to present the requirements of their requirements of their tricts as meriting a p eral scheme. Ronds ar extent a matter of loc one central body would one central body would the task of properly prescribing for all the attention. It will ren with each municipality its own case.

The province has alresiderable advancement of 1901 for the Improvement ways. By this Act cer roads, selected according quirements, are assume ties, and on approval Government grant of o tended for constructi counties are now operat Act, and over 240 mile constructed last year length of county system struction is over 3,600 plans for highway dev undoubtedly include the this Act which have be fully administered administered. fully administered. however, may be made stance, in the amount available from the provi-

WILL PROVINCIAL GRANT An increase in the as a third to a half has lon of in municipalities the province, and such an in province, and such an incertainly prove a great road building. Another has been the subject of it tation is that of province n the maintenance of re ore there has been so or upkeep, and the road nently suffered. Both increased assistance in d of inaugurating a syst ance are to be taken u ear future, and some ki onouncement will be

The selection of roads proved will be left for set ween the municipalities orthoning Commission o vay Department. Estima eady been made, howeve (3) an

lection of porieties ad the e gencom s, the

stock lars est in signs s are record this ower,

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### THE ROAD OUTLOOK IN ONTARIO

THE ROAD OUTLOOK IN ONTARIO

What system of roads will Ontario adopt? What standards of construction will she assume? When will be work of construction community the work of construction community the work of construction community that were so made are turning the work of construction and coupled with this minds, and coupled with this minds, and coupled with their minds, and coupled with the province, through the Legislature, is committed to the extension of improved highways, but no fund has as yet been established, no machinery of administration created or no plans and the matter with the province, through the character of the country with the minds and the matter with the province when the province with the commission will in addition to its other work, go into the matter of construction will addition to its other work, go into the matter will be province, and that any extension of government assistance and supervince with the province with the work of course the structure with the work of course the structure will be province with the condition and the work of the work that the province with the prov

each locality will depend on wear varieties in clearly will depend on the badly it wants it. It is the avowed intention of the Provincial Government to appoint an investigating body, upon which will devolve the responsibility of making a province wide study of the whole highway problem. Among other whole highway problem. Among other whole highway problem are to the province, who will be given an opportunity to present the conditions and requirements of their respective discounties with the state of the province who will be given an opportunity to present the conditions and are the state of the property and are to so great an extent a matted of soil concern that one central body will be desired in the general body for the processing of all the loads needing attention. It will remain, therefore, with such municipality to make out its own case.

with each municipality to make out its own case.

The province has already made considerable advancement under the Act of 1901 for the Improvement of Highways. By this Act certain systems of the Act of 1901 for the Improvement of Highways. By this Act certain systems of the Act of 1901 for the Improvement of the plans, a flower ment of the plans, a flower plans for highway development will eaght of county systems under constructed last year. The total leagth of county systems under constructed in the provision of a this Act which have been so successfully administered. Amplifications, plans for highly administered. Amplifications, plans, and the province of the plant of the grant plant of the plant of the province of the plant of the plant of the province of the plant of the province of the plant of the pla

will provincial oran't incursas?
An increase in the assistance from
a third to a half has long been alked
of in municipalities throughout province, and such an increase would
certainly prove a great stimulus to
road building. Another question that
has been the subject of increased agi-tation is that of provincial assistance
in the maintenance of roads. Herealso one the subject of increased agi-tation is that of provincial assistance in the maintenance of roads. Here a consider the provision of t

them. The selection of roads to be improved will be left for settlement between the municipalities and the down of the municipalities and the down of the municipalities and the municipalities and the down of the municipalities and the municipal

municipalities, and improvements therefore should be optional with them. The people are not to have the roads thrust upon them. They must show the way.

Pointers by Mr. Grisdale .

In deciding the crops to grow on the dairy farm, the points to bear in mind are succulence, variety in the ration and quality or palatability.

The chemical composition may be exactly the same in two rations, but a cow will give 10 to 20 per cent more on the ration she likes. Hence the windom of providing for variety in the wisdom of providing for variety in the

ration.

It is well to count on growing onequarter to one-third more feed than
you will need.

Don't say, "I guess I will have corn
in this field and oats in that," but

in this need and case in that," but have a regular cropping system.

Where there is much rough land on the farm I would take the arable land and follow thereon a three-pear rotation. The crops I would grow are cours assistance, a small amount of roots.

land and follow increon a inter-year rotation. The crops I would grow are core ensilage, a small amount of roots and grain seeded down. Here is my seeding system: Six pounds timothy; two pounds alsike; IO ibs. red clover and six to eight pounds of alfalfa. It may seem heavy

Corn ensilage should be the staple Corn ensilage should be the staple crop on every farm in Ontario to-day, in the greater part of Quebec, in New Brunswick and Nova Scotia, but pos-sibly not in Prince Edward Island. Practically the only hard work in corn culture is the throwing of corn on to the wagon and from the wagon on to the cutting how



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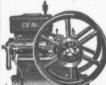
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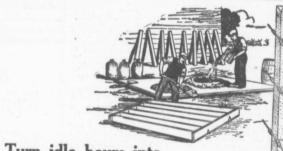


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