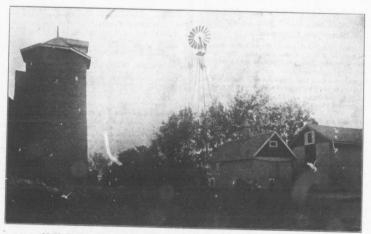


VOL. XXXII.

NUMBER 11

RURALHOME

PETERBORO, ONT.



SOME WAYS IN WHICH CEMENT MAY BE USED ON THE DAIRY FARM

This has been called the cement age. In almost every kind of permanent construction cement is finding a place. This is as true of the farm as the city. In this illustration may be seen a few of the ways in which Mr. James Mc-Kenzie, a dairy farmer of York Co., Ont., has utilized cement in farm building construction. Note the splendid cement block silo to the left, the cement milk house in the centre, and the cement ice Louse to the right. Mr. McKenzie has used cement in numerous other ways and in all cases he has done the work himself. Another advantage of cement construction,-we can utilize home labor. Structures such as the ones here illustrated are

almost as cheaply constructed as frame buildings and have the advantage of being more permanent.

DEVOTED TO

BETTER FARMING AND SANADIAN GOUNTRY LIFE

Cut Your Work

IN TWO

By starting in this season to Use a Large-Capacity

Simplex" Cream Separator

The 1,100 lb. size "Simplex" when at speed and skimming, takes no more power than the ordinary 500 lb. size separator of other makes.



e favorite everywhere it goes. its beauty and heavy compact truction, with low-down, handy ly can only 3½ ft. from the floor.

The large-capacity "Simplex" Hand Separator will

Save you Time, Save you Labor Save you Expense

Because it will cut the labor of skimming the milk more than in two, not only because it turns easier than most other hand separators, regardless of capacity, but because it does the work in half the time.

In these busy days when labor is so scarce and so expensive, and so unsatisfactory, a saving in time is a great direct saving in money to you.

Now, while you have time to read, send for a copy of our book describ-ing in detail, the improved "Simplex" large-capacity, Link-Blade Cream Separators.

Write us a post card to-day asking for the book.

When writing ask for an estimate on what it will cost you to put in a B-L-K Mechanical Milker to milk your cows.

D. Derbyshire @ Co.

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

WE WANT AGENTS IN A FEW UNREPRESENTED DISTRICTS



A Re-adjustment of Taxation Needed

All government expenditure on permanent improvements results immediately in increased land values. These increases in land values due government expenditure, both provincial and federal, are found largely in our cities, where land is worth hundreds of thousands and sometimes millions of dollars an acre, and yet the taxes that cause these increased values, are raised largely by indirect taxes that fall on the laboring man values, are raised largely by indirect taxes that fall on the laboring main and the farmer, and by taxes on improvements, that again must be paid out of the proceeds of the labor of the farmer and his brethren in the city. If the city land hooder reaps the bulk of the benefits of taxation expenditure, why should he not bear the half of the taxes as well?

Coming Events

Holstein Sale of Wilber Prouse, Oxford District Holstein Breeders' Consignment Sala, Woodsteek, March

Spring Show, Edmonton, Alta. April 2-3.

pril 2-3.
Calgary Spring Show, April 8-11.
Belleville Breeders' Combination
ale, Holsteins, Belleville, Ont., Sale, April 2.

School Children Organize

Waterloo county has a new organtation. The Rural School Fair idea seems to have taken hold, and the schools in North Dumfries Township, which have been holding such a Fair this last few years, have organized a Rural School Fair Association. The a Kurai School Fair Association. The pupils in each of these schools held a meeting for the election of direct-ors, one from each school, and these directors met in the office of the Department of Agriculture on Satur-day, March 1st, and completed the organization with the following of-

ficers:

Hon. Pres., F. C. Hart; Hon. VicePres., G. R. Green; Pres., Frank McPhail, River Rd. School; Vice-Pres.,
Mayme Douglas, Stone School; Sec.,
Scott Turnbull, R. R. No. 3, Galt;
Treas., Marjorie Magce, Branchton.
Directors: Leslie Oliver, Little's Corners; Cecil Snyder, Dickie's Settlement, Robert Barrie, Reider-Ricdie, Wrigley's; Elmer Becker, Rese-

In the formation of this organization, everything was carried on in a business-like way. Nominations were moved and seconded nominations closed by motion, voting by ballot, and speeches by the directors elected, as in any properly conducted business meeting

meeting.

Heretofore the Fair has been carried on by the Department of Agriculture, but in thus placing it in the hands of the pupils themselves, the Fair will not only become more substantial and progressive because the pupils will be more vitally interested, but it will also afford an education in business methods and in conducting an association of this kind. At the

of large educational value to the boys and girls in our rural schools

Dairy Show Warmly Endorsed R. J. Kelly, Tillsonburg, Ont., Sec'ty. Oxford Dist. H.-F. B. Club

Oxford Dist. H.-F. B. Club
I have been greatly interested in
the discussion that has been going on
for the last few months on the question of holding a winter dairy show
apart from the fair at Gueigh. I
know that the dairymen of this district feel that the unsefulness of the
dairy test at Gueigh is about done,
and that the time has arrived when we must have a national or international dairy show, with room for the dairyman who wishes to do so, to take a car load or two and make an exhibit worthy of the breed of his

When the dairymen at the late Winter Fair at Guelph signed a state-ment that they would not exhibit at that fair again unless they were provided with better accommodation for themselves and their cattle, they were only expressing what they felt and what they knew was not fair treatment for one of the best exhibits ever offered at any exhibition. I do not onered as any exhibition. I do not think it is fair to expess any breed association to give more money year after year to a fair than they receive in prizes. And I believe the Holstein men have the most reason to grumble about this kind of treatment

Does any one think for a moment that the horse breeders, the beef cattle breeders, the sheep breeders, the swine breeders, the sacep breeders, the swine breeders or the poultry men pay in more than they receive in prizes? If anyone will take the trouble to look into the matter they will agree with me that the dairymen had good cause to feel dissatisfied with the treatment they received.

It is time for the different dairy-men's associations to get together and see if something cannot be done or an agreement made with the To-ronto Fair Board so that when the new cattle barns are built they may te heated and made suitable for a winter dairy show. Something must be done. We have the men, we have but it will also afford an education in be done. We have the men, we have business methods and in conducting an association of this kind. At the first meeting on Saturday many important suggestions were offered for improving the Fair, and plans made for increasing its success.

Work of this kind is bound to be

Issued Each We

Vol. XXXI

Conditions tha

OST I quired the rea Heaves, or lungs, but i irritation. I ceptions a he and a very or grain of driving a he meal, when t considerable musty hay, e cases there is the lungs.

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irritation will that both org the same pair and that the thy existing the lungs the air cells to w small bronchi closely connec and delicate. walls become cells become tent the natur power of expe ticity accompa of the thoral portion of the ed secondary cles is necess counts for the flank in a hor case of heave marked during are notificed d

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"This is the sec Reed is writing Horse Traders." every farmer wh



160-page Poultry Book, 10c by

Issued Each Week



Vol. XXXII.

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FOR WEEK ENDING MARCH 13, 1913.

No. 12

Only \$1.00

a Year

THE TRICKS OF HORSE TRADERS EXPOSED-No. 2 *

Dr. J. Hugo Reed, O. A. C., Guelph, Ont.

Conditions that give rise to "Heaves" or "Broken Wind." The Effect of Drugs in Checking Outward Symptons. How to Protect Oneself in Buying.

OST professional horse traders have ac-Quired the art of temporarily checking the readily observed symptoms of heaves. Heaves, or broken wind, is a disease of the lungs, but is generally caused by stomach irritation. It will be noticed that with few exceptions a heavy horse is a deep ribbed fellow, and a very heavy feeder. Feeding hay, or grain of poor quality, habitually working or driving a heavy feeder shortly after a hearty meal, when the stomach is gorged, feeding for considerable time even moderate quantities of musty hay, etc., are exciting causes. In most cases there is probably a cogenital weakness of the lungs. All that is required are conditions favorable for development of the disease.

The explanation of the fact that stomach irritation will cause a disease of the lungs, is that both organs derive their nerve supply from the same pair of nerves, viz., the pneumagastric, and that the disease is due to nervous sympathy existing between stomach and lungs. In the lungs there are very many little sacs called air cells to which the air is conveyed by very small bronchial tubes. These air cells are very closely connected and their walls are very fine and delicate. In a case of heaves many of these walls become ruptured and two or more air cells become one. This removes to a great extent the natural elasticity of the lungs, and their power of expelling the air. The remaining elasticity accompanied by the normal contraction of the thoral and abdominal muscles, expells a portion of the air but a more or less well marked secondary contraction of the abdominal muscles is necessary to complete the act. This accounts for the well marked double motion of the flank in a horse suffering from a well developed case of heaves. In heaves the symptoms are marked during expiration, while in roaring they are notified during inspiration.

WHY SYMPTOMS VARY

There are many points about heaves that are not well understood. We know that in most cases the symptoms vary greatly in intensity. This is accounted for to a great extent by the condition of the atmosphere, a clear pure air tending to lessen the symptoms, while a heavy, muggy condition has the opposite effect. On the other hand, even without a change of atmospheric conditions the symptoms often differ greatly in intensity and that often for a considerable length of time. There have been horses suffering from well marked attacks which upon being removed to a different climate and receiving different food and conditions generally, aparently made a thorough and permanent recovery. These facts are hard to understand,

"This is the second of a series of articles that Dr. Reed is writing for Farm and Dairy on ""his of Horse Traders." They should be of peculiar value to every farmer who must necessarily patronise horse

as it is not reasonable to suppose that the broken down walls of the air cells can by any process of treatment be repaired or rebuilt.

If we admit that the trouble can be caused by stomach irritation are we not justified in assuming that the symptoms can in a like manner be influenced by drugs or food introduced into the stomach? If the disease is caused by the

Experimental Tests with Varieties of Roots
Tests by members of the Ontario Experimental
Union with varieties of field roots show the following average results:

The state of the s	Comparativ	e Yield per
Varieties	Value.	Acre (tons)
Mangels (7 tests)-		
Ideal	100	32.40
Yellow Leviathan	9.1	31.89
Sutton's Mammoth Long	Red. 88	31.05
Sugar Beets (3 tests)-		
Rennie's Tankark Creat	11 100	21.05
Steele-Brigg's Royal G	ant 88	19.08
Swede Turnips (8 tests)-		10.00
Rennie's Empress	79	24.51
Garton's Keepwell	79	22.44
Steele-Brigg's Good Luc	k 100	21.45
Carrots (10 tests)-		
Bruce's Mammoth In	iterme-	
diate Smooth White	100	22.04
Steele-Brigg's Improved	Short	
White	90	19.78
Fodder Corn (4 tests)-		
Hoopengardner's Very	Early	
Yellow Dent	55	17.29
Wisconsin No. 7	73	17.10
White Cap Yellow Dent	* 100	17.06
The White Cap Yellov popular variety with ex higher yielding rivals.	Dent was	the most

effects that certain conditions exert upon the nerve supply, are we not again justified in assuming that drugs or food introduced into the stomach may and will have an effect upon the symptoms, although they cannot reconstruct or build up the broken down tissue? Hence, if food of a certain character, accompanied by air of certain character, be given and inhaled constantly, we may reasonably expect an apparent permanent cure, but if the patient be again introduced into a climate where the food and air are not so favorable, the typical symptoms will again appear. Certain drugs given in sufficient doses have effects similar to the climate and conditions noted, but while the advisability and wisdom of removing horses to districts where the climate and general conditions are favorable, cannot be questioned, the regular administration of drugs to check the disease cannot be too highly condemned. The action of a drug is of short duration, hence in order to keep it up the dose must be repeated at regular intervals, and if this be kept up for a length of time the animal's general constitution becomes disorganized and he becomes useless. We don't consider that it would be wise to mention any drugs that in certain doses would have the effect noted. as it is within the range of possibility, though

hardly probable, that some reader might use the

knowledge for dishonest purposes.

Many "horse traders" know that certain drugs administered in certain doses, will have the effect of to a greater or less extent disguising or checking the ordinary symptoms of heaves for a short time, in some cases for a few hours. Individuals of this class are always ready to trade or give a few dollars for a heavy horse, provided he, in other respects, is a fair individual. The new owner, after in some way ascertaining where there would be a prospect of a sale or trade, administers a dose or two of the drug, and when its action is established, shows the horse to his prospective victim, and in many cases effects a deal. Now the new owner, probably thinking that he "has done the trader at his own game," proudly puts his horse in the stable and gives him a good meal. The next morning when he goes to the stable he discovers that it is he who has "been done"; that he "has bellows to mend."

The action of some drugs in this respect are sufficient to deceive a close observer while the horse is at rest or at ordinary exercise, but if subjected to sewere exercise, as a gallop for a quarter of a mile or so, the horse will show distress and difficult breathing. Hence if the propective purchaser is dealing with a man of doubtful character, or if the general appearance of the horse indicates that he would be a likely subject for heaves, or from any cause he is suspicious and has a doubt of his own ability to detect the condition even under severe exercise, it is wise to refuse to trade or purchase.

Expert Handling of Hogs

J. Kenneth Featherston, Peel Ca., Ont.

The secret of success in feeding hogs from weaning to the block, we believe, is to never allow the young hogs to lose their milk, or fall in flesh. We always keep them growing. To ensure that there will be no loss of fat at weaning, we commence feeding the youngsters milk when they are three weeks old and are still with the sow. Some of them will not drink at this age, but usually they can be taught to drink a little new milk and when they learn to gobble it up greedly, we feed warm separated milk with a little shorts. We feed them this five times a day, giving them just what they will clean up nicely.

When two months old, we feed shorts and fine ground oats. As they get older and stronger, we feed a mixed ration of, say, shorts, oats and corn, and sometimes barley. We use a larger proportion of the heavier meals as we near the finishing stage. These feeds with a moderate amount of exercise, a few roots, such as mangels, or grass or clover when available, has proved to us to be the most satisfactory way of feeding hogs.

Three hundred years before Christ, Aristotle said: "The land that will produce beautiful flowers, lus ious fruits, and nourishing vegetables is bound to produce a happy, intelligent and prosperous people." And Thomas Jefferson said: "They who till the soil are the chosen people of God."—Elbert Hubbard.

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Age to Breed Heifers

G. A. Brethen, Peterboro Co., Ont.

The warning note re the fully of too early breeding of heifers, recently published in your paper from the pen of Prof. Barton, of Macdonald College, is timely. In these days of "Hustle up Johnny, get rich quick," etc., even the pure bred cattle are innocent victims of the craze of humans to get ahead of the other fellow.

Apparently there is a very strong temptation to breeders of the present day to have the work of re-production begun almost before the female has passed the age of calfhood. I believe with some of us this is done with a well defined purpose in view of promoting early development of the organs of production, and thereby make a highly creditable showing for the heifer, when age is taken into consideration; and we would hesitate to call such an object an unworthy one. With altogether too many, however, apparently no better reason is forthcoming for early breeding than could be given by the boy with the new jackknife, "When he has the knife he needs must whittle." No aim, no definite purpose, just haphazzard mating, and at any old time.

In the case of well grown heifers with a tendency to become rough, we believe it is quite proper to make an exception, and breed earlier. But we deem Prof. Barton is on the right track when he suggests deferring the breeding of the heifer until about 24 months of age, as a safe rule to follow.

ARE CATTLE DEGENERATING?

Time and again, when visiting some of the older breeders of Holstein cattle, I have been very forcibly impressed with the size, strength, and type of the early imported cattle, as displayed on the pictures hanging on the walls. Whether these pictures are true to type, I am not prepared to say, but be this as it may, cattle of this description are altogether too uncommon in these days of wonderful progress, especially along the line of almost abnormal production.

While we would hesitate to say that the persistent breeding of immature animals has worked all the evils attributed to the practice, still I think that any course which leads to deterioration in the size, strength and constitution of dairy cattle, should be carefully avoided.

In our experience, while we must admit that to a limited extent, we have been guilty of this practice of having heifers freshen at or near 24 months of age, we confess we have not seen the evils resulting therefrom to such a marked extent as has the Professor with the cattle with which he experimented. This seeming confliction of results, we believe, lies in the fact that we have always, in handling heifers in this way, made it a practice to lengthen the first lactation period to about 15 months.

ADVANTAGES OF OUR SYSTEM

Much can be said in favor of this system. We give the heifer at least a 12 month milking period with her first calf. This is conducive to the habit of persistent milking, the balance of her life. At the same time we leave a sufficient period for a rest period in which to build up the heifer before she is called upon to perform the work of her second period of production. An examination of the heifers handled in this way in our herd show them invariably of more size and depth than their dams, and their increase in production very satisfactory. It looks to us, and has repeatedly been remarked on by visiting breeders of national reputation, as a genuine case of "breeding up."

But here again we cannot attribute in full these results to practice outlined above, as we believe these heifers were better fed and better grown as calves than their dams, and this fact must be taken into consideration in comparing them with the cows from which they were bred.

On the other hand we have had heifers that as calves were inclined to be too fine and a trifle undersized that when handled in the way suggested by Prof. Barton, that is, not allowed to freshen more than a month or two under three years, have shown wonderful development, and matured as good sized cows.

To sum up. In general I think it would be wisdom to follow more closely along the course suggested in Prof. Barton's articles, that is have beifers freshen when well on to three years of age, taking exception to this in the case of extra well grown heifers inclined to coarseness. In addition I would say take extra precautions

How to Test Seed Corn

R. Chitten, Oxford Co., Ont.

Is \$10 an hour good pay? I know that most of us would jump at the opportunity to earn wages such as that; and yet I and many of my neighbors had exactly that opportunity last spring, and the great majority did not grasp it. Seed corn ast spring was of rather inferior quality, at least the corn we got in this trict was. A few of us tested all of the seed before seeding, but a great many did not. Some of the latter had to re-seed their corn away on in June, while others harvested only half a crop. Through not testing their seed I estimate that some of my neighbors lost in the neighborhood of \$50 or \$60, in the smaller crop that they



A Valley Scene Such as is Typical of the Province of Neva Scotia

Nova Scotia is a land of hills and valleys. Most of the fertile soil and the great majority of the farms are located on the interval land of the valleys. The scene here illustrated was photographed by an editor of Farm and Dairy in the Sieveiacke Valley, Colchester Co. N. S. and its typical of Nova Scotia's farming districts. The land in these valleys is good and in many onese farms can be purchased for little more than the value of the buildings.

in feeding and surroundings to have the calves comfortable. The most successful breeders of the present day are the men who have learned that it pays to raise the calf well. Careful attention to these simple rules will do much to upbuild the breed and attach to such dairymen the proud distinction of being a breeder.

Scratches or Cracked Heels

By Dr. H. Preston Hoskins

Scratches, also called cracked heels or mudfever, can be prevented by careful stable management. Cases are rarely met with in well kept barns, but are often seen in dirty, poorly drained stables. Dryness and cleanliness of the floor of the stall are the two most important factors in the prevention of scratches.

Horses should not be allowed to stand in piles of manure and decomposing urine. These irritate and inflame the thin skin in the fold of the ankle, just below the fetlock. The skin then becomes thickened, due to the inflammation, and breaks or cracks in it appear and if allowed to go untreated, the condition grows gradually worse. The affected area grows larger, the cracks become deeper, and the animal is in an unsightly and painful condition.

Owners of horses can prevent the trouble, in the majority of cases, by doing two things. Do not allow manure to accumulate behind your horses, and see that your stalls are so constructed that the urine will drain away promptly. If your horses show any tendency toward the condition, apply a small amount of carbolized vaseline, benzoinated lard, or zinc oxide ointment, well rubed into the affected parts. These remedies will soften the skin and protect it from external moisture and irritating substances. During wet weather, or when the roads and streets are muddy or slushy, extra precautions should be taken to prevent the condition. Do not wash cracked heels, as water and rubbing only aggravate the condition.

harvested. It would have taken them only an hour or two to have tested their corn and avoided all the difficulty. Hence my claim that they might have made \$10 an hour or more wages while testing their seed corn.

I always buy my seed corn on the ear. As soon as received I lay the ears out in regular rows on the table, numbering each ear with a piece of chalk. I then extract two kernels from the centre of the ear and two from each end. These kernels are then dropped on a piece of blotting paper ruled out in squares of one inch, each square marked with a number coresponding with the number of the ear of corn. A very shallow box with about an inch of moist soil in the bottom has been secured in the meantime and the blotting paper on which are the kernels is laid directly on this sail. The blotting paper itself is then soaked with tepid water and another sheet of blotting paper similarly soaked is pressed down on top of the first one. Moist cloths or any other material that will keep the kernels moist and at the same time retain heat, are then laid over the blotting paper.

This test box should be kept in a place with an even temperature. I find that the best place in my house is on top of the furnace. At the end of a few days, three to five depending on the temperature at which the seed has been kept, I carefully remove the coverings and examine the kernels. If I find that on some of the squares the kernels have not germinated at all, or that only half of them have germinated, the ears that they represent are immediately discarded and used for pig feed. If I find that the general germination is about 80 per cent., I would plan to seed a little heavier than if the germination were 95 per cent. For perfect germination I reckon a peck of seed to the acre and correspondingly greater amounts for a smaller germination.

This plan of corn testing does not take long. and when we plant our corn we know exactly what we are doing and are sure of a good stand.

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March 1

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reduced as Gradually th its own body horse can ge little strengt pect of hors when we tak them with h field? Such one, reminds returned from it easy all w hard work o which got th I do know th difficulties th ately change ment. The i ing them, eve ed, will put horses and g Even if we ca in the yard the extra fee

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Hardening the Farm Horses

E. F. Eaton, Colchester Co., N. S.

Are the horses ready for spring work? If not we are in a fair way to lose much time later on. Two days now are not nearly so important as one day will be a month or six weeks hence. The comparative ease with which we have been taking things for some months past, will then changed for the greatest hustle and bustle, the most exacting and strenuous work of the whole year. We ourselves have been doing up the chores around, working a little in the bush, breaking roads (very infrequently this winter) to say nothing of chopping stove wood, and are fairly ready for the spring work when

But spring work is not as great in its demand on manual labor as it is on horse labor. It is of more importance that our horses be in good condition when seed time comes than that we ourselves be fit. At harvest time the farmer has much cause to complain of overwork, but at seed time it is the horse that bears the brunt of the burden. We have already started to prepare our horses for the rush.

FOOD INCREASES VITALITY

Our first move has been to increase the grain rations. We are never able to find much work for the horses in winter, and hence rations are reduced as soon as work ceases in the fall. Gradually the demands that the horse makes on its own body are reduced and by this time the horse can get along with little food and there is little strength left in them. What can we expect of horses whose vitality is at a minimum when we take them suddenly some morning, fit them with harness and start them off to the field? Such a procedure, which is a common one, reminds me of one spring when I had just returned from college where I had been taking it easy all winter, and jumping right into the hard work of spring seeding. I do not know which got the worst of it, the horses or I, but I do know that I got a new appreciation of the difficulties the horse is up against, and immediately changed our system of spring management. The increased feed that we are now giving them, even if the exercise were not increased, will put new life and vitality into the horses and give them the fire and gimp that will enable them to stand up to their work. Even if we cannot work them, when turned out in the yard they will exercise enough to keep the extra feed from doing them serious harm.

With mature horses we have a comparatively easy time getting them ready for spring work, but we usually have a team of colts, and with them it is a different proposition. Every farmer knows how a colt will prance along, fuss about everything and get covered with froth and sweat without actually drawing a pound of weight. We believe in getting this stage over before the actual work begins, and we are doing it right now. Every trip that we have to take to town with the heavy sleighs (or more generally waggon) it is the colts that go. By the time spring work starts they will have learned to go along quietly in their place without tiring themselves out by unnecessary exertion and as well their muscles will have become accustomed to the constant strain. This training of the colts is one operation above all others that we like to get through with before the spring rush begins.

A few years ago I was very strongly opposed to clipping in any shape or form. I always regarded it as an excuse for laziness, claiming that if a horse was curried as well as it should be, that there would never be any need of clipping. Probably one thing that set me against the practice was that most horses in our neighborhood that were clipped were robbed of their

hair in the fall of the year at the beginning of the season when they needed it most and it was not an infrequent thing for the clipped horses to be getting chills, cracked heels, etc. Of late years however, I have come to believe that spring clipping is an excellent practice for horses that naturally have a long, warm coat, or in fact, for almost any horse. I still emphasize, however, the necessity of having a blanket handy to throw over the horses every time they are stopped outside on a cool spring



The Most Desirable Way of Distributing Manure

day, even if only for a few minutes. The practice of clipping only parts of the body, above the knees and around the belly, has its good points, but for my part I would not want to be seen off the farm with a half-clipped team. I would rather take the necessary precautions with a full-clipped pair of horses.

Working on the lines that I have outlined, I expect that our teams will be good for half as much work again as they would if taken right out of the stable and started to work without any previous preparation.

The Country Boy's Creed

I believe that the country which God made is more beautiful than the city which man made; that life out of doors and in touch with the earth is the natural life of man. I believe that



Better Than Keeping it in the Barn Yard

Piling in heaps in the fields each day is good practice when the heaps are made small enough to freere through and thus avoid formentation spreading directly from the stable, as illustrated above, is better.

—Oute courteey I. H. O. Service Dureau.

work is work wherever I find it, but that work with Nature is more inspiring than work with the most intricate machinery.

I believe that the dignity of labor depends not on what you do, but on how you do it; that opportunity comes to a boy on the farm as often as to a boy in the city; that life is larger and freer and happier on the farm than in the town; that my success depends not upon my location, but upon myself-not upon my dreams, but upon what I actually do; not upon luck, but upon pluck.

I beleive in working when you work and in playing when you play, and in giving and demanding a square deal in every act of life.-Edwin Osgood Grover.

Life is what we make it, in the country as in

The Flock at Lambing

R. T. Baker, Durham Co., Ont.

My sheep pen is dry and well lighted, with a yard to run outside where no other stock can interfere with the sheep. I believe many ewes are injuced and lambs aborted through being chased by colts and hooked by cattle. All doors should be wide enough to allow the sheep to enter without difficulty. Dogs should be kept away from the fold unless the sheep are accus-

tomed to having them around. I also object to strangers going into the sheep pen when ewes are

in lamb.

About a month before the lambs are due to arrive, my ewes are fed about one pound daily of oats and bran mixed and some clover or alfalfa hay. I do not approve of having ewes too fat, but my experience has been that when some grain is fed before lambing the lambs are stronger and more

vigorous.

I believe the care and attention necessary during the lambing season is one of the reasons why more sheep are not kept. A man who cannot or will not give time and care to the flock during the lambing season should never attempt to raise sheep. We may listen to Institute speakers who talk on sheep and read all the literature available, but the attributes of success in raising a good crop of lambs is a liking for sheep, patience, and practical experience

I try to have my lambs due to arrive about the first of April, not that that is the best time, but the lambing season is then about over before the spring seeding begins. From the time the first lamb arrives until the lambing is about over, the sheep fold or pen should be visited several times during the day and the last thing

at night.

A ewe will usually deliver a lamb without assistance, but in case of a false presentation, or a very large single lamb, expert assistance is required to deliver the lamb, which usually can be safely After a ewe lambs, it is advisable to remove her from the flock for a day or two, if possible to a small enclosure alone. you find a young lamb that has become chilled, get a pail of water as warm as one can put his hand in, and immerse the lamb, all but the head. Keep it in the water a few minutes, then rub it dry and get it to drink. A lamb that is chilled and with a cold nose will not drink. We must

first warm it. I do not give a ravenous lamb too much at the first,

There are different methods of making a ewe take her own or another ewe's lamb that she won't own. I tie such a ewe up in a small enclosure so the lamb will be near her and compel her to let the lamb drink when necessary. Usually in a few days she will take the lamb. As the ewes lamb, I take them away from those that have not lambed to warm quarters and feed more liberally on clover hay, alfalfa, pulped turnips or mangels, oats, bran. A few split peas and oil cake will improve the ration. I then provide a creep for the lambs with nice hay, bran and finely pulped mangels, and a few oats when the lambs are two weeks old. The only way to make a good sheep is to keep the lambs growing when young.

I usually clip all the wool from around the (Continued on page 8.)

296

DEAR MR. FRUIT GROWER:

You know you cannot grow fruit profitably without spraying.

Do you realize the difference between careless spraying and careful, intelligent spraying?

Careful spraying means good equipment, thorough application at the proper time, and, above all, the use of only the Best Spray Ma-

GRASSELLI LIME-SULPHUR SOLU-TION is a clear liquid; contains the largest amount of Lime and Sulphur combined in solution. The guaranteed analysis and Beaume test are on every package. It is sold by the gallon, and you pay only for just what you get.

GRASSELLI ARSENATE OF LEAD PASTE has given satisfactory results in the fruit growing districts of Canada, and its reputation is thoroughly established. It is extremely fine grained with resulting easy mixing properties, even distribution and quick action. Every package bears the guaranteed analysis.

There is no guess work connected with the manufacture of Grasselli Spray Products. Every process is under the supervision of skilled chemists. They carefully analyse both the raw material and the finished products. Our success depends upon our ability to make good chemicals as yours does upon your ability to grow good fruit.

Not only can we supply you with the highest quality, spray material, but our prices are right.

We respectfully solicit your orders.

The Grasselli Chemical Company, Limited

Head Office and Works: HAMILTON, ONT.

Branch Sales Office: TORONTO, ONT. MONTREAL, QUE;

HORTICULTURE

A Spray Calendar

A. P. McVannel, B.S.A., P. E. Co., Ont.

The first application of spray should be put on shortly before the buds burst. For this application the lime sulphur mixture is used. Either the commercial brand or the home-made concentrated lime-sulphur may be used at the rate of one gallon to nine gallons of water.

The second spraying should be applied just before the blossoms op For this spraying either line-sculphur or the old bordeaux may be used. The former is preferred and a poison should be added of at least two lbs. of arsenate of lead. In the event of lime sulphur being used, it should be diluted from one gallon to 35 or 40 gallons of water. For charry trees it should be diluted about one to 50 gal-

Arsenate of lead for potatoes should Arsenate of lead for potatoes should be applied early in the season, just as the eggs of the beetles are being hatched. If the plants are thorough-ly covered at that time, probably one more spraying will be necessary, this being when a great deal of new growth is starting, and a new generation of beetles are at work laying

Canadian Apples in Australia

D. H. Ross, Melbourne, Australia The quantity of apples imported in to Australia during the season of 1912 to Australia during the season of 1912 exceeded the average owing to a good demand and the adverge of a second dinear and and the adverge of a second line of steamers in the San Francisco trade. The prospects are that the Tasmanian production in 1913 will be comparatively small and hence the market will likely so bare when the next Canadian shipments arrive in Aparalla. It is satisfactory to report that, from special inquiries made at Sydney, practically all the



Orchard Practice in a Very Cold Country

This orehard is located in a section of the West where winter temperatures frequently drop lower than 40 degrees below zero. Notice the heavy mulching to protect the roots of the young trees. In a warmer climate this mulching would not be advisable as the mulch would be a harbor for mice and the trees would be almost sure to be girdled

The third spraying should be applied immediately after the blessoms have all or nearly all fallen, and be-fore the calyees close. Make this application exactly the same as that for the second spraying. This is the application for the "Codling Moth" and it would not hurt to add more poison.

Arsenate of Lead More Freely Used

Arsenate of lead, because of its sticking and non-burning qualities, has almost entirely replaced paris green among orchardists. Potato green among orchardists. Potato growers still prefer paris green be-cause arsenate of lead is not effective against potato bugs, but some claim that they can find nothing better than the lead.

Arsenate of lead is much slower act-Arsenate of lead is much slower acting poison than paris green and for that reason many prefer to use the lead. Generally two pounds of paris green to 50 gallons of water is a strong enough solution for any emergency. This will even kill adult teetgency. This will even kill adult Leet-les. A weaker mixture should suf-fice because eight ounces of paris green is used freely to 50 galons of water. Aresnate of lead being slower acting poison it is not recommended where the grubs are very large, as very hour of their activity means a oss of money

lons of water, while for pear trees the British Columbia apples landed were mixture applied to apple trees is most first-class in quality and the packing was exceptionally good.

Some small shipments of Canadian pears also came forward. The fruit landed to a bare market and realized inded to a bare market and realized good prices, with the exception of the last ahipment by the Makura (that reached Sydney on December 23) which arrived when some early Au-tralian apples and other small fruit were available, to the detriment of the prices realized on the imported lines. British Columbia shippers were unable to fill the orders received were unable to fill the orders received from Australia through the want of cold storage space on the Canadian-Australian steamers. The total number of cases was 72,107, of which 45,401 cases were shipped from San Francisco and 26,706 cases from Vancouver. It is impossible to state what proportion of the apples shipped at Vancouver was of Canadian growth but, presumably, some were from Washington state.

The Best Strawberries.-At Ottawa ve have tested 500 varieties of strawwe have tested 500 varieties of straw-berries. Some have appeared promis-ing for the time and then failed. So far, we have not found a single new variety to take the place of the old varieties. My pick of the old varie-ties would be: Bedderwood, Splendid, Warfield, Senator Dunlop, the most popular variety in Canada. Sample, Buster and Parson's Beauty.

March Ontario

The well and socially of every fa homes there there for e La Yet agri Ontario Ry ly taking p aimost as Here in On are great re corn to mat vater, our ter as well The west

places the cannot gro food, to th can. Apple advantages leaps anad population What is this? The bare, rich, l stead duties with which offers great the west, bu is asked for two-thirds to six per or

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Ontario Farming Interests Gordon MacGregor, Northumberland Co., Ont.

The well being of the farming in terests of Ontario, both financially and socially, should be near the heart of every farmer of the province. The more farms and the better farms and homes there are, the more pleasure is

nomes there are, the more piesaure is there for every one concerned.

A Yet agriculture is going back in Ontario. Rural depopulation is rapidly taking place. Young men leave for the cities and the western provinces aimost as rapidly as they grew up. Here in Ontario, we grow applie with Here in Ontario we grow apples which are great revenue producers, we grow corn to maturity, we have pure spring water, our woods and hills afford shel-

water, our woods and hills afford shelter as well as beautiful seenery.

The west is level and in places a treeless, wind sweet plain. In many places the water is not good. They cannot grow corn, that great cattle food, to the same perfection as we can Apple three can. Apples there are a costly lux-ury. Yet with all these natural disadvantages the west is growing by leaps anad bounds, while the rural population of Ontario is diminishing.

population of Ontario is diminishing.

A VIKEND QUESTION INDEED

What is the cause and remedy of
this? The west offers 160 acres of
bare, rich, level prairie for only homestead duties. This is a valuable setwith which to start a farm. Ontario
offers great natural advantages over
the west, but from 800 to 8100 an acre
is added few the land with from one to is asked for the land with from one to two-thirds down, balance from four to six per cent. interest. Now how is any young man to get this "down" with which to start a farm in Ontario? Very few farmers hire a man all the year and when the fall comes the young man is thrown cut of employment or, if he stays at home the year round he is expected to work for his board and clothes with protably a little locse change thrown in. True, some men stay on the farm and work, and save, till they get enough to start, but, they are usually away past their best before they do get a start and are in good repair and sharpened.

they are not able to accomplish much. It is when a man is young and strong, anad full of courage that he abould get a start. He is not then travelling in a deep rut, his ways are not as est as are an older mans. He not as set as are an older mans. He once apt to succeed in building a borner apt to succeed in building a bar and vigorous at the time of digging. they are not able to accomplish much.

AT Ow about the ventilation in 3 our found?—the country a country H ow about the ventilation in school? — the country school? — the

get them what they want his seat will be in danger of coming out from under him. Then some day when he is quietly dozing through the session, he

quiety dozing through the session, ne will suddenly get through his muddled brain that the farmers' bill that is going through has some connection brain that the farmers' bill that is going through has some connection "Mr. Grul." is very fond of them. I salary which possibly means a complete the salary which possibly means the salary which possibly means the salary which possibly means the salary salary that salary salary the salary salary that salary the salary salary that salary the salary that salary that salary the salary that salary that salary the salary that salary

See that the garden and farm tools

Early Potato Culture

realth. It is stated that in Denmark the least state of the country of home?—the country of school to grow and the country of marketable size.

The ground should be thoroughly prepared. Three or four days before planting, the furrows should be run 28 inches apart and four inches deep. This will permit the soil to warm up government will grant a young man enough money at low interest to make the soil of the so government will grant a young man enough money at low interest to make a good payment on a farm. If he is not able he is not forced to pay it back regularly. Why can't Ontario do the same?

Farmers must cooperate. We must stop holding politicians up as such great men. They must stop talking politician and tall Mr. Politician what they want; and if he deesn't help to get them what they want his seat will see them what they want his seat will see them what they want his seat will see that the sear lies to the search of the search

The Early Ohio is the earliest variety, but it is not a very heavy crop-per. Early Eureka is a week later Der. and a heavy cropper.

be overcome by keeping a careful watch for them and digging around the plants in the early morning.—D. W. Marden, Pilot Mound, Man.



Cream Wanted we furnish cans and charges. Drop us a card. For reference—Imperial Bank, Ridgeway.—Point Abino Creamery, Ridgeway. Ont.



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One of the handlest tools made for working the soil close to small plants. Furnished complete with plow, cultivator tooth, cultivation of the control of the

VERY SIMPLE CONSTRUCTION HANDY AND

This Seeder simple, accurate strong. The se device has but moving parts—a shaft and small wheel. No cams wheel. gears, cams

RELIABLE

springs as found old - style mach They plant any seed from celery either properly

sown in drills in any quantity or depth. Changes can be made sown in drias in any quantity or depin. Oranges can be made quickly. They plant accurately in small quevittles as well as any other way, thus saving seed, time and labor in thinning out. We guarantee them, and know they will do your work right, and please you. Note the low price. 70-238X. Price....

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FARM

March 1

My alfalfa, yielding as I stalk and leave to a height of flowers are purfalfa is this, a

onditions?—A.
Ont.

The alfalfa
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ther which it There are have proven than the Com would mentio gated, the G Dakota, and Commerce have variegate tan alfalfa, tan alfalfa, v the Western S and the true variety usuall ilts than th Utah, Kansas tana, which is history back t far south as which countrie some time sine over from Et Zavitz, O. A. C

Pointe
E. D. Eddie, 1

Clover is a property well as a constatement of the clover is a most the farmer.

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the farmer.

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In some country crops, such as percent to get the An application of sometimes necess.

One of the bigs

Ontario clover gr in using insuffici four pounds of c "Extract from an on the "Growing of ern Ontario."

Kasasasasasasasasasasasas

Identity of Alfalfa

My alfalfa, while a good catch, is not yielding as I thought it would. The process of the property of the process of the proce

Ont.

The alfalfa here described is the The affalfa here described is the common variety and it is quite probable that the seed traces to the Western States. The probabilities are that the variety is rather tender and that it will likely survive favorable winters in Ontario, but will probably kill out at the first severe weather which it executes the second of t ther which it encounters.

There are several alfalfas which

have proven more hardy in Ontario than the Common variety, of which I would mention the Ontario Variegated, the Grimm Alfalfa of Min-nesota, the Baltic Alfalfa of South Dakota, and the Sand Lucerne of Commerce. Each of these varieties have variegated flowers. The Turkestan alfalfa, which contains purple flowers like the Common alfalfa of the Western States, is much hardier, and the true seed of the Turkestan variety usually gives much better re-sults than the Common variety of Kansas, Colorado and tana, which is generally quite tender owing to the fact that it traces its history back through Southern Cali-fornia, Mexico and in some cases as far south as Central America, in which countries it has been grown for some time since it was first brought ever from Europe. — Prof. C. A. over from Europe. — Zavitz, O. A. C., Guelph

Pointers on Clover*

E. D. Eddie, B. S. A., Seed Division, Ottawa

Clover is a plant food gatherer as well as a consumer. In converting atmospheric nitrogen into plant food, clover is a most valuable assistant to the farmer.

The large and extensive root system of the clover plant tends to make the soil of better mechanical texture. In decaying the roots leave channels through the soil that assist the circulation of air and water.

The majority of farmers do not grow clover as extensively as would be to their advantage. One reason of this is the high price of seed. I beli ve farmers have a great opportunity for improvement in the pro-duction of their own clover seed.

The farmers of Eastern Ontario are making a big mistake in depend-ing on other districts for their clover seed. South-Western Ontario may be the home of the clover seed industry but we in the East can grow our seed to advantage.

IF SOME. WHY NOT ALL?

I have heard it contended that the Ottawa Valley is too cold for clover seed production, but in that valley seed production, but in that valley are many furmers who grow clover seed to perfection. In Quebec pro-vince in Pontiac county a large number of farmers save clover for seed.

Clover land must be in good heart to give the crop a start, but when the crop is started it will keep the land in fairly good condition itself.

In some countries other leguminous an some countries over logarithms erops, such as peas, are grown before clover to get the land in condition.

An application of land plaster is also times necessary.

One of the biggest mistakes Eastern Ontario clover growers are making is in using insufficient seed. Three or in using insufficient seed. Three or four pounds of clover seed, with an *Extract from an address by Mr. Eddie on the "Growing of Clover Seed in East-ern Ontario,"

FARM MANAGEMENT age seeding. Three or four times this much clover would be more ad-

In many cases the clover is allow ed to stand too long before the first cutting to use the second cutting for It is also allowed to stand too seed. long to make first-class hay. should not be cut later than full bloom. This leaves time for the second crop to produce seed. A better plan where there is sufficient meadow is to pasture the land intended for is to pasture the land then cut, run-clover until June, and then cut, run-ning the cutter har high. Where this ning the cutter bar high. method is followed we avoid the clover midge and get a larger yield.
Always secure No. I clover seed and



Our Dominion Poultry Husbandman Our Johnson Fourty Husbandman.
The appointment of Prof. F. C. Elford to the recently c cated post of Dominion Pourtry Husbandman, noted in Farm and Dairy last week, will be a source of Dairy last week, will be a source of Dairy last week. Will be a source of Canada venerally ymen of Canada venerally.

produce this kind as it is scarce and high in price. The production of low class grades is not profitable.

Manure for Buckwheat Land

We have a piece of ground, about four acres, that we intend to crop to buck acres, that we intend to crop to ourse wheat. The soil is not rich and we had intended to work this piece well and manure moderately. Would manuring intended to work this given manure manure moderately. Would manuring spoil the crop of buckwheat? Some neighbors were telling me that buckwheat does not do well when sown the same season as the field is manured.—E. F., Bruce Co.,

Buckwheat as a rule does not need manure; but, where it is applied, if it be worked thoroughly into the soil, it is not likely to do any harm, pro-vided the buckwheat is sown early enough to permit of its ripening in the fall. before frosts come. Buck-wheat is very easily affected by frost, and if sown on manured land, the growth of stalk and leaf is so much increased as to considerably extend the period necessary from seeding to the period necessary from seeding to ripening. Hence, late or even early July seeding would hardly prove sa-tisfactory, excepting possibly in some of the more southern parts of Bruce county, where September frosts are less likely to occur. Sowing fairly thickly would also tend to lessen the growing period. It is customary to sow one-half to three-quarters of a bushel of seed an acre; but if you bushel of seed an acre; but if you sowed from three-quarters of a bushel to a Lushel, it would ripen somewhat more quickly and be likely to give better results than lighter seeding where the land was manured.—





Modern Barns Mean Less Work-Rigger Profits

on BY Sanitary Steel Stalls and Stanchions make Dairy Barns modern—they save work. The Adapting Bovine on the HY Stall and Stanchion lines up every cow sevenly over the gutter, so the same properties of the bedding or but the cow. This save you titue and labor in cleaning reds on the bedding or but the cow. This save you titue and labor in cleaning and money in as-sorors of other sea, so that the same properties of the same properties. The same properties of the same properties of the same properties of the same properties of the same properties.

SANITARY BARN EQUIPMENT

STEEL STALLS, STANCHIONS, PERS, ETC.
Send for our free Shall Book whether you have 6 cows.
Send to route free Shall Book whether you have 6 cows.
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Please send me without charge the books I have checked below. (.....) Stall Book. (.....) Book, "How to Build a Dairy Barn?

P. O.

(8)





An Interior View of the Main Laying House

The house here illustrated is 195 feet long and 16 feet wide. Mr. T. G. Delamere, Prop. of the Utility Poultry Farm, is making the same success with poultry on a large scale as thousanks of farmers are doing on a small scale.

The Barn of To-day is Sanitary

T is clean, airy and comfortable. Under modern conditions cows give more conditions cows give more milk and are more profitable. The best barns are equipped with Louden Stalls, Stanchions, Litter and Feed Carrier which cost no more than poorer makes. Pr within reach of everyone.

LOUDEN Cow Stalls and Stanchions

are made of light, strong tubular steel with malleable iron fittings. The stalls, bull pens, and calf pens allow the animals plenty of air and light, and promote cleanly conditions.

Has positive latch, east ted but perfectly secure

Our Barn Architect will prepare FREE Plans. Write for New Catalogue.

The LOUDEN MACHINERY CO. - Dept. 72. GUELPH, Ont.

Cement Floors in the Stable

Cement Floors in the Stable

A. McCall, Ontario Co., Ont.

"Though cement is the most durable, and perhaps the most sanitary
floor for the barn, I do not want my
cowis when they can carry a large
udder to lie down on cement in their
stalls, any more than I want them
out in the cold. Cement is a good
conductor of heat and cold, and when
they are compelled to live directly on
it diseases is liable to develor. The they are compelled to live directly on it disease is liable to develop. The mammary glands, especially in highly-developed dairy cows, have a thin coat of hair and skin, and there is a large circulation of blood in this region which should be shielded from radical changes. "If I a stable in which were cement floors, one of the flow of the control of the control of the country of

for my dairy cows to lie on. That is, if I did not have a great quantity of straw for bedding. The paragraph above, however, which I have clipped from a United States farm paper, refers to solid cament floors. I recently saw a style of cement which I do not think could be object-

at he Cement is not cold of itself. It is simply a good conductor of cold. built right on the ground, the

built right on the ground, the of the cement is due to the cold-of the earth underneath. The eart floor that impressed me so lavorably, was a reinforced slab of cement resting on a concrete ridge next the gutter and on another ridge next the feed manuer. Undernaged next the feed manger. Underneath the slab the warm air of the stable circulated freely. Hence the floor was just as warm as the air and not open to the same objections as the solid floor.

This style of floor has many points This style of floor has many points in its favor. It is just about as warm as a board floor. It is much more durable, and consequently cheaper, and from a sanitary standpoint is much to be preferred to the plank platform

Items of Interest

Dr. De Laval, inventor of the cream separator, is dead. Dr. De Laval's name will go down in history as one

of the greatest inventors of his time.

A special course on ice cream ice cream A special course on lee cream manufacture will be given at the dairy school, O.A.C., Guelph, March 24-29. Mr. D. McMillan, who has spent some time studying this ques-tion at one of the American stations, will have direct charge of the work.

The course will consist mostly of practical work. There will be no fees. Students will register at 1.30 p.m., and begin work at 2 p.m. on the 24th

The Flock at Lambing

(Continued from page 3.)
ewe's udder after she has lambed, so the lamb will have access to its dinthe lamb will have access to its din-ner without hunting amongst dirty wool. A ewe's udder should be ex-amined daily for a few days to see that in case she has but one lamb one side of the udder is not ne-glected. When a ewe has a cracked teat it should be looked after and teat it should be looked after and the milk drawn off and some glycer-ine and mutton tallow applied. In case a ewe's udder is caked and hard it should be liberally fomented with warm water and thoroughly rubbed with camphorated sweet oil or poul-

With the best of care there will occasionally be a case of eversion of the womb. If this occurs after lambthe womb. If this occurs after lambing the afterbirth should be separated from the womb and the parts
thoroughly washed with warm water
in which has been added a little carbolic acid. The ewe's hind quarters
should be raised, the organ replaced, and about two stitches in the
valve will retain the organ in place
until danger is passed. An injection
of a weak solution of alum water is
advisable, and the ewe should be
placed alone and kept quiet for a few
days. the womb.

I usually clip the ewes about the middle of April whether they have all lambed or not. We dock lambs and castrate those not kept for and castrate those not kept for breeding purposes at two weeks old. A few days after the ewes are clip-ped I dust the lambs with insect powder and dip them later when the weather is warmer.

Thousands of farmers who have done their first power pumping by gasoline engine have become tired of it and are buying windmills.

Windmill Power Is Growing In Popularity



YOU CAN SAVE THE COST OF A BAKER IN ONE YEAR.

The cost of gasoline, oil, batterisand repairs in pumping for 150 host of stook and the average farmhome with a gasoline engine will buy a BAKER BACK-GEARED Ball Bearing Pumping Mill every year. You can't afford to waste both money and your time. Look into this proposition.

Send for catalogue-and list of satisfied users

THE HELLER-ALLER COMPANY

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The Best Built Roller

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

With AXLES of 2 inch solid steel revolving on cold Rolled Roller Bearings. With the MALLEABLE CAGE in one piece, holding the Roller Bearings in line on the axle.

With DRAW BRACKET under the Pole, making the Draught down low.

With the FRAME all of steel and the improved steel plate bottom.

You may be told that other Rollers are like the Bissell-but there is only one original Bissell Roller and to save our customers disappointment, put our name

on every Roller we Look for the name "Bissell" and write our Dept.

for catalogue. Several styles and a variety of widths to choose from, 6 ft. up to 12 ft. Grass Seeder Attachment also furnished if required.

T. E. BISSELL CO., LTD., ELORA, ONT.

March 13

Bedford Dis It was neit

an optimistic ers that face H. S. Foster. of the Bedf Association, Que., two we tion is the old ada; but such of the farmer took all of the the start, an Burrell, who v duce the dair association. the membershi

the end of the

for the future decidedly brig This year fo history of the was held in con men's meeting first Seed Fai there were over of the exhibit The three cou Brome, Mississ all represented

SIL

In his openi Foster drew at the growing se weed problem, ed, threatened sperity of the tent as the rap ber of noxious ent through a district. district. As Foster urged t sheep, but also fact that if t in a later issue

Hon. Martin Baker, Mr. G. MacKinnon, of J. A. Ruddick. missioner, were Burrell, in his the work that ment of Agricu promotion of a and in a gener whole field of as vored to give I ciation of the occupation and students as we Geo. H. Barr, Department, sp and urged cow great step town ment. He cl With the cost of men, butter me east three center men, the two and or

EXTEND 8 Mr. G. H. C. Commissioner, of the seed fair district. It we them to get a b through exchang ing seed of doub side. The Federa a grant of \$50 s ernment a grant prize list, and a of the farmers th

one-quarter cent

whole-hearted, et Mr. Dan. Dru Stock Departmen t strange that in the country

Bedford District Dairymen Meet

It was neither an enthusiastic nor an optimistic gathering of dairy farm-ers that faced their President, Mr. H. S. Foster, at the annual meeting of the Bedford District Dairymen's of the Bedford District Dairymen's Association, held at Cowannyille, Que., two weeks ago. This association is the oldest of its kind in Canadag, but such seems to be the apathy of the farmers of the district that it took all of the influence of Mr. Foster, who has been its president from the start, and of the Hon. Martin Burrell, who was in attendance, to induce the dairymen to continue their association. A new start was mean the membership increased, and before the end of the convention the outlook for the future of the association had decidedly brightened. This year for the first time in the

history of the association, a Seed Fair was held in connection with the dairymen's meetings. Although it was the first Seed Fair held in the district, there were over 70 exhibitors, and some of the exhibits were of first quality. The three counties of the district, Brome, Missisquoi and Shefford were

all represented SHEEP OR DOOR

In his opening address, President Foster drew attention particularly to the growing seriousness of the noxious weed problem. Nothing, he contended, threatened the welfare and prosperity of the country to such an exspenty of the country to such an ex-tent as the rapid increase in the num-ber of noxious weeds that are preval-ent through all the counties of the district. As a partial remedy Mr. Foster urged the keeping of more reaser urged the keeping of more sheep, but also drew attention to the fact that if they would keep sheep they must give up keeping dogs. In fact, the dog question must be solved before the sheep industry is introduced. Dr. Robertson, who followed W. Ewster sold fair the sheep industry is produced by the sheep industry is introduced. duced. Dr. Robertson, who followed Mr. Foater, told of his impressions of Denmark. and drew there from a picture of an ideal dairy country. This address will be published in full in a later issue of Farm and Dairy. Hon. Martin Burrell, Mr. G. H. Baker, Mr. G. H. Clark, Mr. Jas. MacKinnon, of Sherbrooke, and Mr.

J. A. Ruddick, Dominion Dairy Com missioner, were the principal speak-ers at the Thursday sessions. Mr. Burrell, in his address, dealt with the work that the Dominion Depart-ment of Agriculture is doing for the promotion of agricultural education and in a general way covered the whole field of agriculture. He endeavored to give his hearers an appreciation of the importance of their occupation and the necessity of being students as well as workers. Mr. Geo. H. Barr, also of the Dominion Department, spoke on "Dairying," and urged cow testing as the first great step towards dairy improve-He claimed that factories have been making butter too cheaply.
With the cost of upkeep and equipment and the salaries of experienced butter makers should get at least three cents a pound in place of the two and one-half and two and one-quarter cents that they now get.

EXTEND SEED FAIR WORK

RXTEND REED FAIR WORK

Mr. G. H. Clark, Dominion Seed
Commissioner, urged the extension
of the seed fair idea in the Bedford
district. It would, he said, enable
them to get a better quality of seed
through exchange and avoid procuring seed of doubtful value from outside. The Federal Government makes
a grant of \$50 and the Quabec Govare a grant of \$50 and the Quabec Govprize list, and all discoverable the
prize list, and all discoverable the
orders themselves are a little. of the farmers themselves was a little

of the farmers themseres was a little whole-hearted, enthusinstic support.

Mr. Dan. Drummond, of the Live Stock Department at Ottawa, thought it strange that the number of cattle in the country should be decreasing

with prices so satisfactory. Prices, he said, had increased 100 per cent in the last few years, and the cost of raising the animals had raising the animals had remained the same, a statement with which many of his hearers differed. Mr. J. A. Ruddick drew pointed attention to the fact that while the number of dairy cows was decreasing the total production was increasing, owing to the improvement of dairy herds largely through cow testing. "A million cows on Ontario farms," said he, "have given \$5,000,000 worth of extra milk. There was never a time in the history of this country when there was so much encouragement for farmers to increase and develop the num-ber of their dairy cows."

ELECTION OF OFFICERS

ELECTION OF OPTICERS

The electrion of officers resulted as follows: Pres., H. S. Foster; Sec., A. J. Leonard; Directors: Brone Co., El. S. Foster, H. Ingalls, D. A. Mansson; Missisquot Co., G. P. England, L. Rocheleau, A. E. Ruieter; Shefford Co., L. H. Lawrence, M. E. Dunlavey and J. A. Yages.

And how is agriculture to be encouraged in the Bedford district? What factor would brighten the prospect for the future? President Foster believes that a partial remedy at

ter believes that a partial remedy at least might be found through trainleast might be found through training rural ministers in agriculture, in
order that they might give advice on
farming methods as well as be the
spiritual guides of the community.
Mr. Foster pointed out that a number of schools and colleges in the
United States have provided such
courses in agriculture for clergymen
going to rural districts, and he desires that this scheme be adopted in
Canada.

Milking Twice or Three Times a Day

Carefully conducted experimental work in Denmark supplies a contri-bution to the vexed question of the advisability of milking two or three times a day. In these experiments several groups of 20 newly-calved cows were divided into two divisions of 10 each. The cows were so divided that each division was giving practically the same amount of milk and of butter-fat. One group was milked twice a day, and the other three times a day, and then the order was changed, day, and then the order was changed, so that those previously milked twice were milked three times and vice versa. Where two milkings was practiced the interval between milkings was 12 hours, and where the cows

was 12 hours, and where the cows were milked three times daily the in-terval was eight hours. The outcome of this work was that cows which yielded 28 to 30 lbs, of milk a day, milking three times, produced an extra yield of 1½ lbs, a cow as compared with the animals milked twice. Nevertheless from these experiments of brief duration no correct judgment can be formed as to the influence which more frequent milking exerts on the development of the milk productiveness of the cow. One is readily inclined to assume such an influence, particularly if the three

milkings are practiced on young cows.

Though the extra yield was not so large as is usually counted on in practice, the report of the experiments ascribes this to the fact that in practice, when changing over to three milkings a day the food ration is at the same time increased as a rule, and therefore a portion of the extra yield must be put down to this increased food supply.

Any time after the leaves have fal-len and before the sap begins to flow, pruning may be done. By making the pruning an annual task the labor is lightened and its efficiency increas-

Seed, Grain and Potatoes

Siberian Oats, clean and pure, 70c per bus. No. 21 barley, from hand selected seed, absolutely pure, 8125 per bus. Em-pire State, Delaware and Satisfaction Systates, all from selected registered seed, specification of the period of the selection of the A SUTCHINSON, MOUNT FOREST, ONT.

(9) SPECIAL PRICES ON QUANTITIES

O. A. C. No. 21 BARLEY, choice threshed and not scoured. Ten bushel lots, 85 cents. Best cotton bags 25 cents extra. Write early and be sure of satisfaction.

H. R. NIXON, . ST. GEORGE, ONT.

Your Crops don't eat enough meat

Perhaps you think this is rather a strange saying.

Not at all. Your crops eat, just as you do. Just as in your case you grow healthy and strong with good and proper food, and thin and weak with poor food, so they-your crops-with proper food will grow healthy, abundant, and strong, and bring you big returns.

The food your crops feed on consists of Nitrogen, Phosphoric Acid, and Potash, and that food which they depend upon for size and quality of their food is POTASH, which we have aptly termed the "meat" that your crops eat.

POTASH PAYS

And we can prove that POTASH pays. Hundreds of farmers in Canada have doubled their crops with the proper use of POTASH, and this is the way they have done it.

They have taken the ordinary fertilizer which they buy from their dealers and which contains less than 10% POT-ASH and they have added enough POTASH, under very easily followed instructions, to make that fertilizer a 10%

The results have brought many a penny to their pockets. YOU can do the same. Your crop, no matter whether it is oats, wheat, apples, potatoes, tobacco, corn or anything else, removes from your soil three times as much POTASH as it does Phosphoric Acid. But the ordinary low-grade fertilizer contains only 2% POTASH as against 8% Phosphoric Acid.

So, Mr. Farmer, this does not give back to your soil the proper amount of POTASH. Naturally you must increase this amount of POTASH in order to make a proper fertilizer. You don't have to take our word for this. Ask any Agricultural Expert in any part of the world and he will tell you that it is true,

So, then, if you want to raise a bumper crop-if you want to get the maximum amount of produce from your soil, use a 10% POTASH fertilizer. Insist upon it. If your dealer does not sell POTASH we will gladly ship you the POTASH which we have stored ready for immediate delivery in warehouses at Montreal, St. John, N.B., and Toronto. You can mix your own fertilizer at home if you want to, and our experts will tell you how to do this free.

Send for free booklet which will tell you how to properly fertilize the kind of crop YOU raise. We will gladly send you this important and interesting booklet free.

Send your order for POTASH through your dealer, or if your dealer has not got it, send us the dealer's name and we will quote you prices and send full particulars.

"Potash Pays." Make this year's crop a bumper crop. Ask us to help you-write for free expert advice TO-DAY.

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Why I Prefer the Ayrshires Joseph Thompson, New Westminster Dist., B. C.

In expressing my preference for the Ayrshire I wish to do so without cast-Ayrshire I wish to do so without cast-ing any reflection on any other of the well-known dairy breeds. The breeds of dairy animals mest promin-ent in Canada to-day are the Ayr-shire, Holstein, Jersey and Guernsey. Each of these breeds has many admirers, who stand ready to back them against the world. Hardly a week passes by but we read in some of our farm journals of some animal that has been creating new records in their respective breed, and no matter whether she be Holstein, Ayrshire, Jersey, Guernsey or any other breed, every progressive dairyman will be pleased to know that the owners of these different breeds of cattle are raising the standard of production;

raising the standard of production; which means more profit to the farmer. But why do I prefer the Ayrahire? Because, having tried several individuals of the other breeds as well as Ayrahires, and taking all things into consideration, I have concluded that the sideration. I have concluded that the Ayrshire is the most profitable cow for me to keep. The Ayrshire comes near-est to lenig a dual purpose animal of any of the dairy breeds. Although not able to produce such a large amount of milk as the Holstein nor Guernsey, yet when such Jersey or Guernsey, yet when such Jersey or Guernsey, yet when such the Jersey or stands second to not a such a large to stands second to not see the such as the such as the stands second to none. stands second to none.

No breed of cattle can surpass them in appearance, as the Ayrshire has a style and temperament which appeals to every one, and which is characteristic of the breed. None are more hardy, nor will give as good returns on poor feed as the Ayrshire. With good care and feeding, however she will respond as well as any, and as a rule they are very persistent milkers. In fact, I find it hard to get them dry. No cattle are easier kept or more easily fattened, so that when their kept or more days of usefulness are over at the pail either through old-age or accidents) they can very quickly be made into good beef, and of a quality that any butcher is pleased to have. Believing as I do that these statements are true, is it any wonder I prefer the Ayr-

I give herewith Fairview Lassie's (No. 26,531) record, made as a two-year-old, as a sample of a persistent milker. Calving at less than two and a half years age, on September 9, 1910, her milk record is as follows:

Sep., 1910 616.5 Mar., 1911 873.5 Oct., " 1,019 Nov., " 913.5 May, Jan., 1911 906.5 July, " 845.5 478 Aug., " 478

at three different fairs. This certainly affected her milk record, as a she
was taken off good pasture, and placed
on dry feed these three weeks, to say
nothing of the rough handling she gos
whits travelling. At no time was abe
forced to make any record, being fed
the same as other cows that were not
under test, and milked twice a day.
Considering all this, what would her
record have been had she been forced
for 12 months? This is where I claim
the Ayrahire stands supreme — her
ability to make good under any
condition. Fairview Lassie was bred and
is owned by the writer. Petate



Government Standard SEEDS

We buy most of our seeds directly from farmers here who grow them. Reclean them twice. Our guarantee is that if seeds do not satisfy on ar-rival you may ship them back at our

SILVER MINE OATS, 60c bushel SIBERIAN OATS, 60c bushel BANNER OATS, 60c bushel. O. A. C. No. 21 BARLEY, 99c bushel. GOLDEN VINE PEAS, \$2.00 bushel. ALFALPA, imported, \$12.00 bushel-RED CLOVER, \$15.00. ALSIKE, \$15.00 TIMOTHY, \$3.00.

Bags, extra cotton 250, jute 10c. Ask for samples Cash to accompany order.

The Caledonia Milling Co. CALEDONIA, ONT. LTD.



SYNOPSIS OF DOMINION LAND REGULATIONS

Nov. " 913.5 May, ".1,10.5 Dec. " 892 June " 1,045.5 Jan., 1911 906.5 July, " 845.5 Jan., 1911 906.5 July, " 845.5 Jan., 1911 906.6 July, " 478 A total of 10,464 lbs. milk in 353 days. " 478 Jan. July " 478

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March

A GOLD

It will p
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THE WILL Poultry

grit, beef scra etc., and all Po or lower than CRAMPSEY & KE FOR SALE A

BUFF ORPIN from laying Pure bred. Tate, Lakefie FOR SALE—ir Rails, Chain etc., all sizes stating what Waste and M Street Monti

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other parts in our runninger and up a A GOLD MINE ON YOUR PARM.

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Hook and get it free. It tells you all book and get it free. It tells you all book and get it free. It tells you all parts accurately. The same parts of the parts accurately. Write to-slight for your group of "A Write to-slight for your group of "A Write to-slight for your group of "A tell parts accurately."

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Order your baby chicks now from our splendid laying strain of SINGLE COMB WHITE LEGHORNS

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POULTRY YARD

Canadian Pens Doing Well

Farm and Dairy readers who are interested in poultry may remember the close finish to fast year's contest at the International Egg Laying at the International Egg Laying Competition, Storrs, Conn., when the Canadian White Wyandottes, with only two eggs less than the winners, took second prise out of 100 pens competing. The 1912 second prise pen is in this year's context, and at this carly stage holds third position among the hense entered. The breeders and owners of above pen, McLeod Bros., Beulah Farr, Stoney Creek, Ont., have refused many splendid offers for them. They also have a pen of five White Wyandotte pullets in this year's contest, and the last report shows them heading the list for the week with 26 eggs to their credit.

The laying records of these hens are creating a greater interest in Can-

creating a greater interest in Can-adian poultry on both sides of the line, and their exceptionally good winter laying proves that our crisp winter air is certainly no hindrance

winter air is certainly no hindrance to heavy egg production.

"Cannot the farmers and poultry-keepers of this great agricultural country not make a genter effort, through improving their flocks and by increasing the winter egg yield, to keep at home the thousands of dollars that yearly go out of the coun-try for eyes, that dellars that yearly go out of the country for eggs that can and should be produced here?" ask McLeod Bros. "In all our cities the winter supply of new laid eggs is far short of meeting the demand, and this at prices that should yield a good profit."

Poultrymen-Attention

As a means of furthering the policy of developing the poultry interests of the Dominion in which the Live Stock Branch of the Department of Agriculture is actively engaged, the Live Stock Commissioner is anxious the Live Stock Commissioner is anxious the stock Commissioner and address of acceptance of the property of the Commissioner is a support of the Commission of th improve the quality of his stock, particularly from the standpoint of rom the standpoint or increased egg and meat production. The information is desired in order that the Live Stock Branch may be that the Live Stock Branch may be brought more closely in touch with progressive poultrymen throughout the Dominion and with those whose names might be eligible for inclusion in a Dominion Poultry Directory. As a means of securing this information, in part at least, all those who are interested are requested to write to Live Stock Commissioner, Ottawa,

indicating:—

(a) The breed, variety and strain or family of poultry they are breed-(b) The extent to which selection

for increased egg and meat production is being practised.

(c) A brief but specific statement

(c) A brief but specific statement of what has been accomplished. (d) Whether or not they are ac-tively engaged in trap-nesting at the present time. If not, what means are being used to select the most de-sirable individuals for the breeding

pens.

Letters giving the above information should be addressed to the Live Stock Commissioner, Ottawa. Such communications do not require pos-

Farmers in need of good seed corn would be wise to write to L. H. New-man, secretary of The Canadian Seed Growers' Association, Canadian Building, Ottawa, for price list of registered and improved seed pro-duced in 1912 by members of The Canadian Seed Growers' Association.



Join the "don't worry club!" Buy your Ford today. Thousands were disappointed last year. Don't take a chance this time. And remember that the more we make the better we make them. Insist on an immediate delivery.

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125-Egg Incubator and Brooder For \$13.75

d together we send both machines for only \$13.75 and we seight and duty charges to any R. R. station in Camda. branch warehouses in Winnipeg. Man. and Toronto.Ont. branch warehouses in Winnipeg. Man. and Toronto.Ont. doubtron nearest warehouse to your R. R. station. et al. (1998) and the station of the st

Write us today. WISCONSIN INCUBATOR CO., Box 216, Racine, Wis., U. S. A.



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New Cardinal Globe Beet

The most desirable variety up to date Lb. \$2.00, 1/4 lb. 75c, oz. 25c, pkt. 10c

New Early Cabbage COPENHAGEN MARKET.— Undoubtedly without a rival as the finest round-headed Cabbage in cultivation. 1/4 lb. \$4.00, oz. \$1.50, pkt...... 10c

Montreal Musk Melon True DECARIE Selected Strain.—¼oz. \$1.00, Pkt. (with special cultural instructions).... 25c

A New Garden Pea From New Zealand RICHARD SEDDON.-We can say with con-RICHARD SEDDON.—We can say with confidence that there is no better all-round early variety than this. By express or mail, at buyer's expense, 10 lbs. \$3.00, lb. 35e; by mail, postage paid, lb. 40e, ¼ lb. 15e, pkt. 10e

A NEW EARLY TOMATO Rennie's "Ninety Day

This northern-grown strain of Tomato is un-doubtedly the very best earliest scarlet-fruited Tomato. Oz. 80c, ½ oz. 50c, pkt....... 15c

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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 con-

If you are interested in reading the unbiassed 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 catalog and give you any other silo information desired.

We 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.

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MAPLE SYRUP **MAKFRS**

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\$500 IN GOLD CASH PRIZES



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Why not be a WINNER in this Contest?

We are giving away \$500 in Gold Cash Prizes to users of the Grimm "Champion" Evaporator.

Full particulars will be mailed on receipt of above coupon.

The competition will take place during the last two weeks of April, and the samples of syrup and sugar received will be placed on exhibit in the show windows of the "Montreal Star." Every purchaser and user of the Grimm "Champion" Evaporator may purchaser and user of the Gramm Champion Evaporator may take part in this contest. Now is the time to properly equip your-self to make high grade syrup and sugar—high priced and therefore profitable. Do it now before the sap runs. State the number of trees you will tap and we will give you a price on a suitably sized outfit.



Address all enquiries to: PRIZE CONTEST:

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(Don't Forget Coupon)

Farm Cooling of Meat

While it is almost impossible to get the best conditions for handling meat on the farm, a knowledge of the best principles may aid in getting a better quality of meat. It is very important that the carcasses be cooled soon afthat the carcasses be cooled soon at-ter slaughtering, and yet that they be not allowed to freeze. While the temperature cannot well be control-led on the farm, it is possible to slaughter when the weather is favorable to the proper cooling of the car-If during the winter season, choose a day when there is a prospect for cooling the carcass before the surface freezes. The most desirable tem-perature for cooling meat is 34 deg. to 40 deg. F., and an approach to these temperatures will give good re-

HANDLING MEAT IN SUMMER

In summer seasons it is best to dress the animal in the evening, leavthe cascass in the open air over night and carrying it to a cool, dark cular before the flies are out in the morning. Very often a cool room in the barn can be used for the purpose if made dark. There should be no fresh paint, tar, kerosene, or like sub-stances around, however, as freshly killed meat absorbs such flavors read-

Cooling is often hastened by splitting the carcasses into halves or even into small pieces. It is best, however, not to divide the carcass until the meat is firmly set unless absolutely necessary to prevent it from souring. Stripping out the leaf lard materially Stripping out the leaf lard materially aids in quickly cooling the bog carcass. For the best results in cooling meat, the air abould be dry, as well as of a low temperature; and free circulation aids greatly in carrying away foul odors and mold spores.

It is also important that flies and insects be kept away from the meat. If it is fly-blown, maggets will soon appear and it will be very difficult to save the meat.

Holsteins in Dairy Tests

"Holsteins have again made an excellent showing in the dairy tests of the year, particularly at Ottawa and Guelph," said the directors of the Holstein Association on their annual report. "At the latter fair an excel-lent example was afforded of the value of grading up with Holstein sires, when Mr. Ryan's grade cow Cherry won the championship over all. As usual at Ottawa, Mr. Sangster head-ed the list with his many-times winner, Rhoda's Queen. ner, knoda's Queen. In one or two tests our Ayrshire friends came out first, which will be a source of en-couragement to their breeders and a warning to ours not to rest on their

"When we consider that there are about 3,000,000 cows in Canada, and only about 50,000 pure-bred females of all dairy breeds, there does not ap-pear to be much ground for the fear of some timorous people that the Hol-stein business will be overdone. Fe-males are always in demand at good prices, and dairy farmers are realizing as never before the value of the

laurels.

"The extraordinary demand from the Canadian West for both pure-bred and grade Holsteins is only a promise of what we may expect for years to come. New Zealand, Australia and South Africa are all taking our cat-tle, and our foreign trade should intle, and our foreign trade should in-crease as breeders in other countries come to realize that Canadians are producing the very test Holateins to be found anywhere. In constitution, conformation, shaplines of udder, as well as capacity at the pail under normal conditions, Canadian Hol-steins have no superiors. 19



MAIL CONTRACT SEAT-ED TENDERS, addressed to the Postmarter General, will be received at Ottawa until Noon, on Prilary, the 4th April, 1913, for the conveyance of His for the Control of His for the Postmarter of His for four years, sit times per week, ower Brazil Mail Route No. 5, from Peterboth Contarlo, to commence at the pleasure of the Postmarter General, the pleasure of the Postmarter General, the pleasure of the Postmarter General, the pleasure of Tender may be seen and blank forms of Tender may be obtained at the Post Office Office Inspector, Kingstop, 4.

H. MERRICK, Post Office Inspector.
Post Office Inspector's Office,
19th February, 1913.

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Do you know of the many advantages that New Ontario, with its Millions of Fertile Acres, offen 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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Barley. Satisfaction assured. Write for
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P. D. CAMPBELL,
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Corn That Will Grow Money back if not satisfied

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March Spring By C

The mode best posted horse owner all horses in state horses so could she fort over a since we o work on wa ter coat she same reason winter garm off rapidly, cold as easi to be affecte unclipped ar cause clippe

Many of our F The splendid st Que. The splen

their food and ing refreshed Since the ad enclosed gear work of taking easy. With th easy. With the be clipped all whereas with t it required sev

Dairymen, a all over two of every three or easy to clean ing. This mea dirt and other the milk.

Classifica

At the annu Ontario Associa hibitions a rauthorizing th select a commi the proper clas Composed of M. H. G. Reed. J. Bailey and J. I February 17th lowing regulation

Heavy Draft should conform which they rep animal should upwarde Agricultural...

should conform draft horses but By Charles H. Tougalin

The modern practice among the best posted and most progressive horse owners and farmers is to clip all horses in the spring. It is done horse where and farmers is to clip all borses are spring. It is done on the theory has in their natural all horses in their natural and horses in the spring. It is done on the theory has in the spring of the spri

General Purpose—No agricultural society abould offer prizes for general purpose stallions at exhibitions, but, if thought advisable, prises might be offered for general purpose mares, fillies or geldings. General purpose boses should conform in outline close-bose should conform in outline close to be seen to be larger and strong-type, but to be larger and strong-trand strong-trand strong-trand strong-trand strong-trand strong-trand-strong-tran should weight from 1,100 to 1,000 tos.
The minimum height of general purpose horses should be 15.3 hands.
Carriage—There should be separate

unerpped animals, whose longer hair holds the perspiration for hours. Be-cause clipped horses dry off rapidly sters at ever exhibition, and these they rest better, get more good from two breeds should not be shown in

type, out should be larger and strong-er and able to do satisfactory work in wagon, plow, buggy and saddle. They should be clean limbed, without excesshould be clean imbed, without excessive hair on the legs, and be able to travel seven miles an hour. Horses ahowing draft conformation should not be included in this class. They should weigh from 1,150 to 1,350 lbs.

Field Root Specialties BRUCE'S GIANT FEEDING BEET - The most valuable Field Root on the market; combines the rich quantities of the Sugar Beet with the long-the quantities of the Sugar Beet with the long-keeping, large size and heavy croping qualities of the Mangel. We offer two colors, WHITE and ROSE. & 1b. 18c, & 1b. 29c, 11b. 29c, putpuid. BRUCE'S MAMMOTH INTERMEDIATE SMOOTH WHITE CARROT-The Best of all field Carrots. 1/2 lb. 53c, 1/2 lb. 94c, 1 lb. 51.80, postpaid. BRICE'S GIANT YELLOW INTERMEDIATE MANGEL-A very close second to our Giant Feeding Beet, and equality easy to harvest. % lb. 18c, ½ lb. 28c, 1 lb. 50c, postpaid.

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Since the advent of the Lair-Dearing enclosed gear clipping machine the work of taking off the winter coat is easy. With the machine a horse can be clipped all over in helf an hour, whereas with the old two-hand clipper is consider according to the control according to the control of the co it required several hours to do it.

it required several hours to do it.

Dairymen, also, now clip the owas all over two or three times a year. The flanks and udders are clipped every three or four weeks, so it is easy to clean the parts before milking. This means less opportunity for dirt and other impurities to get into the milking.

Classification or Horses

At the annual convention of the Ontario Association of Fairs and Exhibitions a resolution was passed authorizing the Superinendent to select a committee to arrange for the proper classification of horses at fairs and exhibitions. The committee, composed of Mesers, Robt, Graham, H. G. Reed John Gardhouse, C. F. Bailey and J. Lockie Wilson, met on February 17th and drew up the following regulations: Ontario Association of Fairs and Ex-

lowing regulations:
Heavy Draft—Heavy draft horses should conform in type to the breed which they represent. A matured animal should weigh 1,500 ft.s. and

Agricultural-An agricultural horse Aprendural—An agricultural horse should conform closely in type to draft horses but on a smaller scale, and should weigh from 1,350 to 1,500

their food and come out in the morning refreshed and fit for work.

Since the advent of the Lall-bearing enclosed goar elipping machine the height of the animals should be 15.1

hends.

Roadsters—Roadsters should be judged in every case for conformation, style and speed.

Saddle Horses—In the saddle class horses should be tested in walking, trotting and cantering.

Ponies—The maximum height of all classes of ponies, except polo, should be 14 hands. Shetland penies should not exceed 12.3 hands.

Of Interest to Importers.—The new Customs regulations in regard to the importation of pure-bred stock which come into force April last next, which come into force April last next, which come into force and the interest in the force. According to new regulations as person to obain a duty free certificate in the British Empire. A statutory certificate must be provided by the British guest to the effect that he is a British subject to she effect that he is a British subject and resident in the British subject as far force and markings it must be a stated. Our markings it must be a stated. Our markings it must be a stated. Our markings it must be a stated. toms officials will be required to compare the descriptions given on the import certificate of the animal, and if there is any discrepancy the duty must be paid.

The bees in my orehard are inval-uable. Every blossom has a bee in it and it is well fertilized.—J. W. Clark, Brant Co., Ont.

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Engine

STOP! HERE'S A DYER FENCE!"

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Standard Dairy Convention at Ormstown A great convention and one worth Gasoline

A great convention and one worthy
of the great dairy district in which
it was held was the 31st annual convention of the Huntingdon Dairy Association, held in Ormstown, Friday,
February 28th It was recognized to
the best convention held for years.
It was recognized to the convention of the convention of the convention held for years. Many new subjects were discussed and the program was interesting and instructive enough to be enjoyed by all. The President, Robert Ness, of Howick, was in the chair.

March 13, 1913.

At the morning session, Prof. H. Barton, of Macdonald College, gave a practical address on the feeding of dairy cows. He said in part that most of farms are understocked, and the stock underfed and poorly bred. Farmers are not growing the right kind of roughage. Farmers should grow more ensilage, rotos and clover. grow more ensilage, roots and clover. He advised farmers not to start growing too large an acreage of corn at first, but to start small, and as experience was gained, increase the acreage. He considered that no dairy farmer should be without a dairy farmer should be without a soiling crop to supplement the pas-ture, and recommended alfalfa, peas and oats, vetches and oats, and en-siage. He advised farmers to give more study to the making of a bal-anced ration, as recommended by the Scandinavian feed unit system which is in use by the Swedish Milk Pro-ducers' Association. The address of ducers' Association. The address of Prof. Barton was full of thought, and based on experiments made at Mac-

donald College.

MILK PARMING AND BACTERIA MILK PARMING AND BACKERS.

At the opening of the afternoon session, Dr. Harrison, of Macdonald College, gave an address on milk production from a bacterial standpoint. He considered that the situation of district was link. the farmers in the district was link-ed with the milk supply of Montreal city, and he described some of the methods of delivering milk in the cities of Europe, and found that the cities of Europe, and found that the best results were realized by com-panice commencing in a comparative y small way and worked upward to a large distribution. He emphasized the necessary of farmers putting up a clean milk and showed the connection of disease readmine agrantiem. of disease producing organisms between the animal and human, especially was this so in connection with tuberculosis and kindred diseases. Dr. Harrison considered that a great responsibility rested on the dairymen in producing clean, wholesome milk in producing clean, wholesome milk as the largest consumers were chil-dren and intuities. A few years ago and the supply of Montreal and tested a large number of samples. They found the conditions so unfavorable that they refrained from publishing the results. He advised dairymen to pay greater attention to the cleanto pay greater attention to the clean-

to pay greater attention to the clean-liness and ventilation of the stable.

Robert Brodie, of Westmount, gave a short address on the apple orch-ard. He said that in order to get the best results, attention had to be paid to drainage, cultivation and variety. He mentioned particularly two varieties, the Fameuse and this McIntosh Red, which were prolife-yielders and most suitable for the di-trict of Beauharnois. For first-clas-apples of these varieties there was alapples of these varieties there was alappies of these varieties there was al-ways a ready market at big prices. Mr. Wm. Ewing, of Montreal, gave a short address, in which he referred to the growing of clover seed and the possibilities for the marketing of mile way other ready as it the adjunter. and other products in the adjoining city of Montreal.

A COMMERCIAL FERTILIZER ADVOCATE
At the evening meeting D. M. MaPherson. of Lancaster, the first President of the Association, referred to
the good work done by the Association
since aversities in T. I. a length. since organization. In a lengthy address he went to show how that formally he advocated the feeding of the

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March 1

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this prize far down to essen the best farm systems of fare es; no two of ed the same n tal; most of most insurmou most successful some of the p nearly all gree of success were themselves. E forces, and as succeed or fail, had attained t large visions as pose, which ero 81100008 WHERE

In referring Cowan stated suffering to-da tion and indiv ers of valuable resources and o country which people. Were people. ing to its value. and other asset there would no iggest, strong One of the n

of the convention of the gold the successful weight Farms Com lows: Gold n Tulloughgorum, T. O. Bourdon, Brown, Howie

cow to make fertilizer to enrich the soil, to grow large crops. He had seen the fallacy of that system and had learned that the proper method was to feed the land so that it would was to feed the land so that I would produce-large crops to feed more cows and thus increase the profit per acreage and lessen the cost of production. He acreamented that along with a certain amount of barnyard manure the application of a arong with a certain amount of barn-yard manure the application of a samercial fertilizer with four per cent soluble nitrogen, eight per cent soluble phosphoric acid, six per cent potash and about 200 lbs. soluble lime. An application such as this potash and about 200 loss. Solutions in a philation such as this would be a balanced ration to the soil, and applied early in the spring, he had found to give big returns in experiments that had been tried in the county of Glengarry during the past

county of diengarry during the past two years.

Mr. H. B. Cowan, Editor of Farm and Dairy, Peterbore, touched on a new subject to the convention,—the single tax system. At the commence ment of his address he complimented ment of his address he complimented the farmers of this district for their excellent and well managed farms, and said that Chateauguay county had a national reputation through its stockmen and Inter-Provincial Farms Competition as conducted by Farm ment to make up this world; and on and Dairy. He stated the object of any given matter the judgment of

Ormstown; John Geddes, Ormstown; Ormstown; John Geddes, Ormstown; J. W. Logan, Howick; J. Milne, Riverfield; Jas. MacKell, Riverfield; Robt. McNeil, Ormstown. Mr. Thos. Drysdale, one of the judges, was present and pinned the medals on the breasts of the successful winners, after which all made two-minute speeches, including the judge. After singing "For they are Jolly Good Fellows" and "God Save the King," one of the most successful and profitable conventions of the association closed. able c

closed.
The following are the officers and directors for the ensuing year: Robert Nees, Howick, Pres.; Arch. Muir, Huntingdon, Vice-Pres.; W. H. Walker, M. L. A., Sec.-Treas. Directors: D. D. MeBain, Valleyfield; Wn. Scott, Valleyfield; Edward McGowan, St. Mastina. Las. Reyon, Preson. Scott, Vaneyned; Edward McGowan, St. Martine; Jas. Bryson, Bryson, ville; Thos. Drysdale, Allan's Cor-ners; Jas. Burke, Corbin; D. H. Brown, Beith; Jas. Donaldson, De-wittville, and Thos. White, Hunting-



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What Have You Learned About Dairying?

most insurmountable difficulties; the most successful ones were breeders of some of the pure-bred dairy breeds; nearly all grew alfalfa. The competitions had proven that the essentials of success were largely in the men themselves. He said thoughts were forces, and as men think so will they succeed or fail, and most of these men had attained their always. had attained their place by having large visions and a continuity of pur-pose, which crowned their efforts with \$11000085

WHERE FARMERS SUFFER.

In referring to the single tax, Mr. Cowan stated that farmers were safering to-day because of corporation and individuals becoming owners of valuable water powers, mineral resources and other large assets of the country which rightly belonged to the people. Were the land taxed according to its value, these water privileges and other assets would be made pro-fitable rather than kept idle, and there would no longer be monopoly of land, which he considered was the biggest, strongest and most effective combine of the day.

combine of the day.

One of the most pleasing features of the convention was the presents of the convention was the presents of the convention was the presents of the convention was the present to differentiate the man air Farms Competition in 101 as follows: Geld media—Alex Young, Tulloughgorum, Que, Silven Wenter and Silven Window boxes will be improved by an application of liquid manure. See Brown, Howick; Andrew Geddes, that all dead flowers are picked off.

this prize farm contest was to get any man is apt to be affected by his down to essentials and find who were point of view. In one day's correstence to the set farming. In doing so they from breeders, each looking at the had made some interesting discoveries; no two of the competitors followed the same methods; the best farming the satted in with little or no capital; most of them had overcome all most insurmountable difficulties; the most successful ones were breeders of most successful ones were breeders of subject of testing from a curerant angle. The theme of the first letter was that the short-time test was worthless and the yearly test the only reliable one; of the second, that as long as there was prompt sale for cows with seven-day records, there was no need to test longer; and of the third that both tests were good but was no need to test longer; and of the third that both tests were good, but that it needed a combination of the two to really show the productive canacity of a cow. While I agreed fully with the last writer, I could not agree at all with the other two, and told them so

told them so.

It is quite customary for men who have climbed to eminence to kick aside the ladder which has aided them; and the short-time test is the ladder that has made the long-time test possible. The short-time test has its imperfections, as its advocates fully admit; but its good points much more than counterbalance all that can he said against it. No doubt breedmore than counterbalance all that can be said against it. No doubt brad-ers do test cows in order to make them saleable but the perspective of any man who regards salesbility as the only reason for testing is, to say the least, very narrow. Any man who loses sight of the fact that testing for advanced registration has for its main object the improvement of the breed will never attain any great success. Such a man is sure to be lacking in the enthusiasm that must be present to differentiate the man who keeps cows from the man whose cows keep him.

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FARM AND DAIRY

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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

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honorable business men who advertise, not pay the debts of honest bankrupts.

FARM AND DAIRY PETERBORO, ONT.

FARMERS MUST PAY-BUT?

One of the coolest pieces of plutocratic arrogance-we would prefer to call it plutocratic insolence-of which we have heard in a long time was the proposal advanced at the last Good Roads Convention in Toronto that the control of public highways be taken from the township and county councils and assumed by the Provincial Government. This proposal was advanced by President Walker, of the Bank of Commerce, and met with the support of the whole coterie of his automobile-owning friends.

On dissection this proposal, were it to be adopted, would amount simply to this: That the farmer who pays the taxes would still continue to do so, but he would have nothing to say about the expenditure of that taxation. The money raised in his township might be spent hundreds of miles away on roads that he might never see. The road from his

own door to his own market at certain seasons might be impassable, while his road money was being spent to perfect some other highway much travelled by automobiles, but of little value to farmers generally.

When Mr. Walker's proposal was first advanced we did not intend to say anything about it. We supposed that it was so ridiculous it would not be considered seriously. In the meantime, however, several leading journals, as well as country newspapers, have come out in support of provincial control of all public roads. The farmers of Ontario will not be easily led to give up their control of highway expenditures. But they should be ever on their guard and ever ready to oppose such suggestions as that recently advanced at the Good Roads Convention.

THE NATIONAL HIGHWAY AGAIN Another project supported by the delegates to the Good Roads Convention was like unto the suggestion to remove the control of road expenditures from county and municipal councils, in that it was designed for the benefit of wealthy automobile owners. We refer to the proposal to build a great national highway extending from one end of Canada to the other. We are told by the advocates of the national highway that it will be of particular benefit to the farming community in that it will enable thousands of farmers to reach their market easier and will be an object lesson in highway construction to the whole country.

We are not told that the chief benefits will be derived by city automobile owners who are the only ones who would ever make use of such a highway. What farmer would ever think, for instance, of driving from Toronto to Kingston or from Toronto to London? But this trip is made regularly by big touring cars owned by city magnets, and it is with this class that the national highway project finds its chief support. The roads that the farmer desires are those that lead from hisfarm to his nearest market or shipping point. It is the improvement of these roads that will be of advantage to farmers generally and to the consumers of our cities and towns, and it is on these roads that public money should be expended.

Those who are so enthusiastic in support of a national highway do not propose to build it or even to specially contribute to the cost of its construction. Their proposal is that the expense be met by the federal and provincial governments and by the municipal councils of those counties through which the highway would pass. The federal and provincial governments, according to the scheme now advanced, would bear the great proportion of the expense. That is, hundreds of thousands of farmers living hundreds of miles from the proposed highway and who would never see it or derive one cent of benefit from it, would pay practically as much towards its

construction as would those living on the highway or those who use it most -the automobile owners of our principal cities. Could anything be more unjust?

The time will come when Canada is more thickly settled and when revenues are more abundant than they are now, that we will have splendid highways extending from one end of Canada to the other and to every part of every province. In the meantime, the highways in need of improvement are those that the taxpayer uses most, and the only way in which this can be secured is to leave the farmers of the various municipalities in conjunction with their neighbors in town to improve the roads that they need.

FARMS OR FIELDS

Will the demonstration farm teach neighboring farmers how to farm? The Agricultural Section of the Dominion Commission of Conservation believes that it will. They have already selected farms in various parts of Canada that will be run according to the directions of the commission's experts.

Dr. G. C. Creelman, President of the Ontario Agricultural College, does not believe that these demonstration farms will accomplish the purpose for which they are being established. To illustrate his contention that farmers will not follow the methods which they see pursued on the demonstration farms, Dr. Creelman made reference at the recent Corn Show at Windsor to a small farm of fifty acres adjoining the college farm at Guelph, and surrounded on three sides by college property farmed on up-to-date principles. This farm the college was recently obliged to purchase to clean it up. A weedier or more indifferently farmed parcel of land, said Dr. Creelman, it would be difficult to find. And yet one of the finest demonstration farms in the province was not only near it, but surrounding it. To still further strengthen his case, Dr. Creelman referred to the great number of poor farmers all over Canada who have lived all their lives beside those who farm in a progressive mad up-to-date manner, and have themselves made little or no progress towards more desirable systems of agriculture.

We agree with Dr. Creelman that the demonstration farms will not accomplish all the good things that its promulgators expect them to do. We do believe, however, that the principle could be applied with good results. As we stated when the Commission of Conservation first announced their plans, we believed that the demonstration field system would be much more productive of good than to extend the operations of the Commission over a whole farm. The plan outlined in Farm and Dairy some months ago was to select a field of convenient size, say twenty acres, adjoining a much travelled road. If a four-year rotation were to be followed this twenty acre The Polar Tragedy

The civilized world has been deep-ly shocked by the news which has come from the Antarctic regions of the tragic death which overtook Capt. Scott and his gallant comreturn from rades on their onquest of the South Pole, and the hearts of the people of all nations go out in sympathy to the bereaved families and friends of the dead heroes. If money could have saved the lives of these brave men millions would have been gladly spent. And yet it is for the destruction of just such men that armies and navies are designed. The nations of the world are pouring out their millions for the building of engines of destruction which, if war comes, will be used to mangle and to kill thousands of men just as brave and courageous as Captain Scott and his gallant band. When will our states men see the tragedy and the wickedness of war?—Grain Growers' Guide.

five acres each, and cultivated according to rotation. A large signboard erected beside the road would draw attention to the fact that this was a demonstration field, would give explanations as to how it was being farmed, stating the rotation, amount of seed sown per acre, fertilizers used, and so forth. Everyone would be watching that field and the improving fertility and increased roduction would be evident to all. The passer-by would not need even to stop his horse to note the progress of the experiment. The lesson s thus brought home to the farmer traveller much more readily than if he had to stop and spend an hour or two inspecting a farm.

In the meantime the demonstration farm idea is being tried out. If it does not work as satisfactorily as expected it is not yet too late to give the demonstration field idea a trial. We believe that it would make good.

We all know how a narrow-tyred wagon and a heavy load will cut into the average country road. Even the best macadam

Desirable roads are worn out Legislation. much more rapidly by

heavy loads on narrow tyres than where the tyres are of a greater width. A bill recently introduced in the Ontario Legislature by Mr. Rankin proposes to regulate the width of tyres for certain loads in order to further conserve the life of the country road. According to this proposed legislation all wagons with a capacity of two thousand to four thousand pounds must have threeinch tyres; four thousand five hundred to six thousand pounds, three and one-half inch tyres; and six thousand to ten thousand pounds, four and one-half inch tyres. This bill, if it meets with the approval of the house, will come into force in January, 1916, applying from that date to newly-made vehicles. bill also provides that no vehicles whatever shall have tyres of less than the minimum width after January, 1919. We believe this to be commonsense legislation. One of the greatest deterents to the maintenance of good roads, however, has field might be divided into plots of not yet been touched by the Legis-

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There is something noteworthy in the series of advertisements for the Spramotor Co. that have been in Farm and Dairy now for some weeks past, and will continue for several weeks to come.

You might criticize these advertisements because they occupy only small to medium space, they contain considerable copy, and small type is freely used.

And so far as they might apply to your particular business the criticism might be well taken.

But you will have noted that they are abundantly well displayed, without having gone to the expense of art work and electros.

Then, too, they are well illustrated. Thus they catch the eye.

Whilst these ads. contain a lot of the trader small type, not too easy to read, you will notice that the display line running through them all—''A Gold Mine on your Farm''—will catch even him who runs. The headings attract and convey a meaning. ''Spramotor'' is emphasized in every case.

Thus it has been made certain that anyone, even on the run, will catch the idea and the name of the Spramotor spraying equipments. Under ordinary circumstances it has been estimated that over 65% of readers who nause to read an advertisement desire some information and might not "write for booklet." Thus the information—and something new each week—is given in these ads.

The Spramotor line of sprayers and accessories is a big one. It is impossible—and certainly undesirable-to get a description of it all in any one advertisement: therefore a different subject is touched on in each ad., and thousands who will not now write and who do not vet need a spraving outfit, are being educated and being given the right impression as regards the Spra-Thus, in addition to immediate results, seed is being sown for the harvest certain to come into fruition later on.

These ads. vary in size from small 50-liners, and 65 lines and 65 lines like this week, to as big as half pages like was used last week in our great Orchard Number. When but only a fair percentage of Farm and Dairv readers are extensively engased in Fruit Growing, it would not be the part of wisdom to make a spluree in every issue for this specialty line. With products having a general appeal it would be different. Big space would be O.K. and quite desirable.

The Scramotor Co. was assisted by Farm and Dairy. Advertising Dept., in outlining and writing these advertisements. Probably you would like to use our assistance. Consult us and have us serve you through Farm and Dairy—

"A Paper Farmers Swear By"

lature. What are they going to do with those touring automobiles that will tear up a good dirt road in a single season?

One of the finest examples of a "save the penny, swallow the dollar" policy, is the manner in which some dairy farmers

Cood Seed
Corn. European Court Manager Coustomed to paying seventy or eighty cents a bushel for our seed corn that it would be hard to convince some of us that first-class seed corn is worth three dollars a hushel to any man, and that we cannot afford to spend less than one dollar fifty cents to two dollars a bushel for the seed on which de-

A good stand of corn for ensilage purposes is twenty-four thousand plants to the acre. If, however, the seed that we plant has a germination of only sixty per cent. (and a large part of the cheap seed corn

pends the success of our corn crop.

NATIONAL prosperity original acts on the farm. The farmer is the dynamic force. This is the easen the farmer is missed to as the "backbone of the country." The yelfare of the farmer is intained. The yelfare of the farmer is intained to a state of the farmer is intained. The yelfare of the farmer is intained to the yelfarmer is not to the yelfarmer in the yelfarmer is not on the yelfarmer in the yelfarmer is not only in the yelfarmer in the yelfarmer is not yelfarmer in the yelfarmer in the yelfarmer is not yelfarmer in the yelfarmer in the yelfarmer is not yelfarmer in the yelfarmer in the yelfarmer is not yelfarmer in the yelf

sold has about this percentage of germination), only fourteen thousand four hundred plants will grow. That is, a crop that would have been worth thirry dollars an acre is reduced to one worth eighteen dollars, or we suffer a loss of twelve dollars an acre through the planting of inferior seed. One bushel of corn seed will plant four acres. That is, in saving a dollar or two on the price of the original corn, we lose forty or fifty dollars on the crop. This is saving the pennies and losing the dollars with a vengeance.

There is lots of good seed corn produced in South-western Ontario. Also there is any quantity of inferior corn grown. If we are willing to pay a good price for our seed corn, we will get the good article and consequently the good crops. If we insist on paying the low prices to which we have been accustomed, we have no one to blame but ourselves if the seed is not satisfactory, the stand thin, and the crop short.

Repair farm machinery now. You cannot afford to stop work in the rush season for repairs that can be made now.

Sit down and think through next season's farm work step by step. A day or even a week spent in this way will make you more money than many weeks hard manual labor in the year. Make your head save your heels.

CREAM SEPARATORS

No Excuse for any Cow Owner Being Without One

There is no reason why any cow owner who sells cream or makes butter should be without a cream separator and there is no excuse why he should not have the best separator.

Any creameryman

Any creameryman or experienced dairyman will tell you that a good cream separator will give you a great deal more and a great deal better butter than you can make with any gravity setting system, and equally, of course, more and better cream, if you are selling cream.

The DE LAVAL is acknowledged by creamerymen and the best posted dairymen the world over to be the "World's Standard," and the one and only separator that always accomplishes the best results possible and always gives satisfaction.

You cannot make the excuse that you can't afford to buy a De Laval, because it save its cost over any gravity setting in six months

will not only save its cost over any gravity setting in six months and any other separator in a year, but is sold either for cash or on such liberal terms that it will actually pay for itself. A little investigation will prove to you that the truth of the

matter is that you really can't afford to make cream or butter without the use of the DE LAVAL cream separator.

The nearest De Laval local agent will be glad to demonstrate this to your own satisfaction, or you may write to us direct.

DE LAVAL DAIRY SUPPLY CO., LIMITED

Good Seed Barley

85c per bus., f.o.b. In lots of 10 bus. or over, 80c. Special price for large quantity. Good cotton bags, 25c each.

R. B. BROCK - BOX 10, JARVIS, ONT.



For Sale Cement, Sewer Pipe & Drains TILE, all sires. Counties and Township, send in your orders to JOY & SON, Nannee, Ontario Agents for Acme Tile Nachines and Silo Block Machines,



The Feed That Makes The Cream

Livingston's Oil Cake is the chespest teed for cows—cheaper than corn, about or even hay. Because it actually increases the richness of cream—and also increases the amount of butter that you go not of the milk. The star your cows before and after faeding Livingston's Oil Cake for a south—and your better money" will show the economy.

Livingston's OH Cakes contain from 8 to 118 of pure Linserd Oll—are soft anough to break into small nuts—and are completely and early digested. Write us for sample and prices if your dealer cannot supply you, Dominion Linserd Oil Co., Limited, Baden. Toronto, Montreal.

Livingston's Dairy Oil Cake

The Results At The Kerwood Cheese Factory

VERY week or so we receive letters from creameries and choese and butter factories. reporting tests made with the Standard cream separator. For example, the Kerwood Ohesee and Butter Factory reports as follows on tests made Oct. 33, 1912:

Per Cent of Butter Fat in Cream. 36 .02 43.5 .02 45 .03 Test No.

In each of the above tests the milk was fed to the machine at the rate of 69 lbs, per pour (maschine listed at 600 lbs.) and the free from cream and in good condition. The milk ekimmed was not new milk, but he milk ekimmed was not new milk us for the machine nearly 100 lbs. per hour faster than its rated capacity, and per coat of butter fat, so that I consider the work done in this gest exceptionally good.

W. WADBILLO, Proprietor,
Kerwood Cheese and Butter Factory.
The above test again emphasizes the supe

The above test again emphasizes the superiority of the Standard in The above test again emphasizes the superiority of the Standard in dictored the superiority of the Standard from the Standard for the Standard from kinning closer than other separators do under most favorable conditions. Figure 16 unt. It will pay you to dis eased your old machine and get a "Standard" and do it now. There is no descript the standard you equal results and it's results that count. Send for

The Renfrew Machinery Company, Limited

Head Office and Works: RENFREW, CANADA Agencies Everywhere in Canada

CREAMERY TO BENT

CREAM WANTED Highest City prices paid for cream. We furnish cans, pay all charges, remit promptly. Haven't paid less than &c for two months. Write CREAMENT TO REAT
In a good dairy locality, two bours disnance from Toronto, on main line of
promptly. Haves't paid less than 35c for
you months. Write
TORONTO CREAMERY CO., I.TD., Toronto

MAPLE LEAF CANADIAN LINSEED OIL CAKE BRAND



"Maple Leaf" Brand

OLD PROCESS

OIL CAKE MEAL

is the Best Food to fatten an animal in the shortest time; it multiplies the feeding values of all grains, and fodder fed with it, and leads all other feeds in manurial value for fertilizing the soil.

A ton of MAPLE LEAF OIL CAKE MEAL contains three times the digestible protein or muscle making element, contained in a ton of corn, and protein is the most costly, necessary and valuable element in food.

Feed MAPLE LEAF OIL CAKE MEAL-

Watch the Result

If your dealer cannot supply you, write us direct

The Canada Linseed Oil Mills

LIMITED

MONTREAL and TORONTO

Keesessessessessesses

Creamery Department

Buy a Large Machine

By J. K. Van Camp A point of great importance in buying a cream separator is what size machine to purchase. A great many make a big mistake when they figure on saving some money by getting the smaller sizes. Just compare now. A

smaller sizes. Just compare now. A machine with a capacity of say 900 to 1,000 pounds of milk an hour will do the work twice as fast as one running from 400 to 500. That is plain.

Also it is evident that the large machine will get but half as much wear as the smaller size and will therefore have double the life of the

smaller size.
Suppose it takes the small machine 30 minutes to a run. The machine does it in 15 minutes. The large can milk four good cows in those 15 minutes you save, and in six months time those four cows will make you in clear money from \$150 to \$200 at the very least and no "extra" time added. Isn't it plain to you that the big separator is the only one to buy if you ever figure on milking over five cows?

CUSTOMERS SAY SO I have sold a great many of the smaller size machines and time after time my customers have expressed the time my customers have expressed the wish that they had purchased a larger machine and offered to make a trade with me. They found absolutely no fault with the machine they had ex-cepting the capacity, but they could see where it would be to their interests to have a larger capacity.

These customers have caused me to

look into the reasons I have set down look into the reasons I have set down above, and they are absolutely sound. "Pay more money and get the larger machine and you will save money." Follow that advice and you will be glad that you did so before six months roll around.—De Laval Monthly.

Trouble with Butter Color

By Jas. Sorensen

By Jas. Sorensen.
When there is anything wrong with
the color of butter, there are those
who at once jump to the conclusion
that the butter color is to blame, and
while this may be true in some instances, it is safe to say that as a
rule something besides the color is to
blame for off color in butter.

blame for off cofor in butter.

Color specks are, of course, communicated to the butter by the butter

color, but it is due to the color not
being properly cared for in the
creamery. There is, of course, more
trouble with color specks during cold creamery. There is, of course, more trouble with color specks during cold weather than during the warmer months. This is generally due to the color freesing or chilling, and buttermakers should not allow the color to freeze, it may be brought back to its natural state by setting the color can in boiling water for a considerable leggth of time. The vegetable butter colors should preferably be kept in a place where the temperature is moderate, and it would not be advisable to keep color where it would get too warm, as it might result in deterioration and cause trouble by imparting off flavors to the butter. It is a good plan never to buy butter color in large quantities, and there is less chance for having trouble with the color if it is bought fresh and not allowed to become old in the creamery.—Dairy Records. -Dairy Records

Renew your subscription now.



AMERICAN SEPARATOR CO., BAINBRIDGE, N.Y. Creamery For Sale?

Creamery, running summer and winter.
Very large make. Everything in first-least
arging reals. Everything in first-least
arging reals. Everything in first-least
arging reals. The second of the least
to the buildings. 6 sares good land. Close
to town and railroad. This is one of the
best dairy districts in Ostario. Write
DELSON SCHATZ. - BADBN. ONT.

FERTILIZERS

THE WILLIAM DAVIES CO., LTD.
West Toronto - - Ontario

An Experienced Butter Maker Wanted

Must understand business from A to Z. iso one with one or two years exper-nce. State wages, with or without oard. Year round position to right man. Apply at once to Box 133,





Sweet Cream Wanted

Full particulars on application to

The Farmers' Dairy Co. 367 Queen St. W. TORONTO - - ONT.

March ****** Chees

jects for to The Cl The Fo

We were of the Gran at Guelph train. around our with our h house (to k ren have any amount of is allowed tion with c mense amor that is was used good as was loss is so er

> Did My ad. Dairy did came out Saturday, was looking the ad. many the paper. reader. T. H. H Farmers'

day threate

dairy in We had busi cheese maki as economics in the utili Professor D however, sta absolute sta loss must be across some United State great this lo stimated t butter milk of butter in of which is the aggregat of protein lion and a h To this wa the manufactotal of 2,56 valuable foo utilized; or man, woman

From what the two cour that the ind more saving it is in the are few fact the whey is is a common large propor off into the every year. ter milk is us as it might b ducts contain

Here is a dairymen to we going to profitably so be placed or now is?

********** Cheese Department

Makers are invited to send contri-butions to this department, to ask questions on matters relating and questions on matters relating to cheese making and to suggest sub-jects for discussion. Address letters to The Cheese Maker's Department.

The Food That We Waste

Ine FOOD I nat We Waste Silve were standing on the platform of the Grand Trunk railway statum at Guelph waiting for the Toronto train. As we slapped our hands around our shoulders and beat time with our heeds against the station house (to keep warm, of course), we shall do dairy matters. 'Very few tables of dairy matters.' "have any comprehension of the vast amount of good food material that is allowed to go to waste in connecis allowed to go to waste in connec-tion with our cheese industry every year. Look," asid he, "at the im-mense amount of good animal food that is wasted in the whey that is as good as wasted through the poor care that it receives on the farm. The loss is so enormous that it will some

E. N.Y.

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Did the Work O.K.

My ad. recently in Farm and Dairy did the work O. K. The ad. came out Friday. It was noticed Saturday, and I hired the man I was looking for Monday. He saw the ad. in Farm and Dairy, so many thanks to your valuable paper. With best wishes from a render

render.
T. H. HUMPHREY, Proprietor,
Farmers' Union Cheese & Butter
Co., Uniondale, Ont.

day threaten the very existence of the dairy industry."

We had always known that the We had always known that the dairy business, particularly the choese making business, was not on as economical a basis as it might be in the utilization of by-products. Professor Dean's emphatic remarks, however, started us thinking afresh along this line and we do not need absolute statistics to know that the loss must be counted in almost millions of dollars. Later across some figures prepared by the United States Department of Agriculture that serve to illustrate how culture that serve to minstrate now great this loss may be. It was there estimated that the skim milk and butter milk used in the manufacture of butter in the United States, most or outter in the United States, most of which is not utilized, contains in the aggregate over one billion pounds of protein and more than one bil-lion and a half pounds of milk sugar. itori and a haff pounds of milk sugar. To this was added the \$1,000,000 pounds of protein whey left over in the manufacture of cheese, making a total of 2,667,000,000 pounds of meet valuable tood material not properly utilized; or over 37 pounds for each man, woman and child in the United States.

From what we know of dairying in the two countries we do not believe that the industry in Canada is any more saving of food materials than it is in the United States. There are few factories where every bit of are few factories where every bit of are few factories where are few factories and its states. the whey is properly utilized and it is a common thing to find that a good ws a common thing to find that a good large proportion of the whey is run off into the nearby swamp or river every year. The same applies to the creameries where little of the but-ter milk is used to as good advantage as it might be. All of these waster pro-ducts contain valuable food water at

ducts contain valuable food material.

Here is a problem for Canadian dairymen to ponder over. How are we going to utilize our by-products profitably so that our industry may be placed on a surer basis than it now is?

Prosperous Oxford Factory

A live meeting was that held at A live meeting was that need the Newark cheese factory on Feb. 17th. Mr. Henry Burrell presided and the relative values of condensor versus cheese factory were discussed and the patrons decided unanimously the second sectors. W. to stay with the cheese factory. W. Marror, C. Wade and Geo. Chambers Marror, C. Wade and Geo. Chambers addressed the meeting. The annual report was read. The total amount of milk received for making cheese was 2,210.706 lbs.; for making butter, 120,628 lbs.; money received for cheese. \$25,358.43; for butter milk for cheese 104.77 cts.; average milk for cheese 104.77 cts.; average price per lb. cheese 13.10 cts.; average price per lb. cheese 13.10 cts. The patrons are highly pleased in the way the factory is being conducted by the proprietor, Mr. Fred Snell, and from present indications it looks as though the present year will be one of the best in the history of the factory.

Instruction Work in Northumberland

G. W. Bensley, Dairy Instructor, Northumberland Co., Ont.

I have had 42 factories under my supervision this last year, 41 making cheese and one making casein. I worked 35 full days making cheese, testing milk and giving general instructions and made 205 call visits. I spent eight days census taking at one factory. I made 217 visite to the farms and also made 37 fermen-tation tests and found 20 samples either overripe or tainted. This is either overripe or tainted. This is a slight improvement over last year, a slight improvement over last year, due largely (I am sorry to say) to the cool season and not to any extra effort on the part of the patron. There were 30 new silos tuit in the district. There were 618 old cown discarded. The estimated expendi-ture in the way of

ture in the way of improvement was

The total number of cows furnishing milk to cheese factories in the district was 23,323, owned by 2,738 patrons, an average of between eight and nine cows a patron. The average per cent of fat in the milk for the season was 3.54, a little less than last year. There were five factories in the group making whey butter.

The average loss of fat in the whey
was 20. The average acidity of whey
in tanks was 1.12 and fat .08.

The cheese in the district, gener-

ally speaking, was rather better in former years, which we would nain tormer years, which we would na-turally expect owing to the favor-able conditions, cool weather, good water and plenty of good grass. The principal defects were open and coarse textured cheese, due largely to too great a development of acid at the time of the removal of the whey and not maturing curds long enough be-fore and after salting.

fore and after salting.

I found a decided improvement in Tround a decided improvement in the sanitary conditions of patrons' stables, which was much needed. There is still a wide scope for im-provement in that direction. Stables should be clean, well lighted and well ventilated

There were one or two cheese made in my section last season not worth raving over, but the majority of my boys put up as fine cheese as were made in Canada. Only five of the makers were pinched. One got drunk on whiskey, another unjustly criticis-ed his employer and another had an inordinate desire to survey the roads The other three were cut ou bad flavors and too much acid, in all a loss of \$162. These are some of the things the instructors bump into.-Wilson, Dairy Instructor, Leeds Cc., Ont.

Subscribe for Farm and Dairy now.

Headquarters for FARM SEEDS

A man buys Dr. Goods at a dry goods store, Hardware at a hardware store, Shoes at a shoe store, Trees from the nursesy man, etc., and because he goes to headquarters for these different lines of goods, he has the benefit of intelligent advice in purchasing and he gets what he goes he will be a common thing however for many farmers to buy their farm seeds, to, red foundation of their success of failure, from inexperienced men. Is its wonder therefore, that many farmers have poor crops, because the seeds they planted were poor in quality and low in vitality, and like produces like.

Price herewith quoted good for one week from date of issue

Keith's Best Keith's Best old Brand Alfalfa o.1Gov. Standard s the choicest rade of northern rown Alfalfa. Sun Brand Rsd Clover No.1Gov. Standard Is the best obtain-able regardless of price. We invite com-

grown Alfalfa.
\$12 per Bush.
Our seed is obtained from sections
where plants have
endured the extreme cold of hard
wintersand will do
well in our country

KEITH'S NEAR BEST Silver Brand Alfalfa No.1Gov. Standard \$11 per Bush

Mangel Seeds

Keith's Best Diamond Brand Timothy No.1Gov. Standard Choicest grade of strictly fancy Tim-othy on the mar-ket. \$15.50 per Bush.

KEITH'S NEAR BEST

Keith's Best Ocean Brand Alsyke No.1Gev.Standard

Moon Brand Red Clover No.2Gov. Standard \$14.25 per Bush Good colored seed Contains odd rag-weed.

KEITH'S NEAR BEST

Crescent Brand Timothy No.2Gov. Standard Grades No. 1 for \$2.85 per Bush. Clean enough for Keith's Prizetaker

KEITH'S NEAR REST Sea Brand Alsyke No.2 Gov. Standard

Put up in 1-lb. cotton bags

Price of following varieties per lb. 35c; 5 lbs. or over at 30c, Add 5c per lb. to above prices if wanted by mail. Champion Yellow Inter-Giant Half Sugar Swede Turnip Seed Add 5c per lb. if wanted by mail.

Mammoth Long Red Prizetaker .30 Scottish Champiou .25 Elephant or Jumbo .20 New Century .20

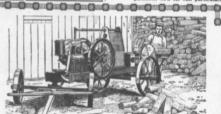
Put up in 1-lb.

what we have to offer in SEED OATS and SEED CORN in our Catal GEO. KEITH & SONS - 124 KING ST. EAST, TORONTO

Seed Grain eties of Oats, Bar-iety, Wheat, Peas, eto, Seed Potatoes. Write for prices and quotations. Eight years at it. Satisfaction CRAMPSEY & KELLY, DOVERCOURT RD., TORONTO, ONT.

Cheesemakers

Make big money in your spare time getting subscriptions for Farm and Dairy. Write our Circulation De-partment now for full particulars



Put the Load Where It Belongs

IF you are to make the most of your time and opportunities, you must have efficient tools to work with. You have enough hard, tiresome work without wasting your time and energy in such jobs as wood-sawing, water-pumping, grindstone-turning, and the like. Use an 1H C engine to turnish power for such work. In far less time, the wood is sawed, the stock watered, the tools sharpened, all at one-tent the expense of hand work. Put the heavy load where it belongs. Buy and use an

I H C Oil and Gas Engine

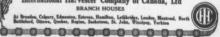
and save money as well as hard work. It is the cheapest engine you can buy—because it costs less per year of service than others. It is so simple that it is practically troubleproof. Perfect combustion makes it

economical.

IH C oil and gas engines operate on gas, gasoline, naphtha, kerosens, distillate, alcohol. Sizes are 1 to 50-horse power. They are built vertical, horizontal, potrable, stationary, skidded, air cooled and water cooled. Sawing, pumping, spraying outfits, etc. IH C oil tractors, 12 to 60-horse power for ploving, hreshing, etc.

Look over an IH C engine at the IH C local agent's place of business. Learn from him what it will do for you, or, write the nearest branch house for catalogues.

International Harvester Company of Canada, Ltd **BRANCH HOUSES**





TE only is advancing in life whose heart is getting softer, whose blood warmer, whose brain quicker, whose spirit is entering into living peace.- John Ruskin

Rose of Old Harpeth

By MARIA THOMPSON DAVIESS

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

at Everett's presence as he knelt by the chair across from Tobe and almost as close to Rose Mary's protective presence as either of the two combatpresence as either of the two comba-ants. With a we'coming smile the General slipped the little brown hand of fellowship into the stranger's, thereby offering a material support to the latter's agony of embarrass-ment, which only very slowly receded from face and demeanor as the services proceeded.

Then as across the crackle of the fire came the confident word of David the Singer: "The earth is the Lord's the Singer: "The earth is the Lord's and the fullness thereof; the world and they that dwell therein," intoned in the old man's reverent voice, something led Everett's glance out through the open door to see the bit of divine dominion that spread beof divine dominion that spread or fore him with new eyes and a newer understanding. Harpeth Valley lay like the tender palm of a huge mas-ter hand with the knuckles of rough blue hills knotted around it, and dotblue hills knotted around it, and dot-ted over the fostering meadows were comfortable homes, each with its morning altar fire sending up opal wreaths of mist smoke from the red brick or stone chimneys. Long creek lines marked their way across the fields which were growing ten-der green with the upbringing of the spring grain.

"Who hath measured the waters in the hollow of His hand," droned Un-cle Tucker. "The hollow of His hand," assented Everett's conscience in artistic appreciation of the simile.

"And stretched out the heavens as a curtain and spreadeth them out as a tent to dwell in," came as another line of interpretation of the picture spread before the strangely unshackled eyes of the bowed man with the little boy kneeling beside him. Quickly he turned toward Rose Mary with almost a startled glance and found in her eyes the fact that had been faring forth over Harpeth Val-ley on the wings of Uncle Tucker's supplication as had he. The wonder of it rose in his eves, which were about to lay bare to her depths never before stirred, when a fervent "Amen! I beat you that time, Tobe!" fairly exploded at his ear as the General took the final word out Tucker's very mouth rival to his worshipping opponent.

"I said it first, but it got blowed into Miss Ro' Mary's sleeve," avow-ed Tobe with a flaunt at his com-

petiton petiton
"If nobody he'r'n it, it don't
count," decided the General with
emphasis. And in friendly dispute
he escorted his rival down the front
walk, while Uncle Tucker, at was his

UT after a few minutes of most becoming reverence Stonie's eyes opened and revealed his surprise Everett's presence as he knelt by thair across from Tobe and almost close to Rose Mary's protective sence as either of the two combations of the companies of the co old mystic both assumed and ac-

in the dim distance he discerned his Waterloo. And as he worked carefully with

his examining pick over beyond the his examining pick over beyond the north pasture through the soft spring-warm afternoon, he occasion-ally smiled to himself as the morn-ing scene of worship, tethed deep on his consciousness by its strange-ness to his tenets of life, rose again and again to his mind's eye. They ness to his tenets of life, rose again and again to his mind's eye. They were a wonderful people, these Valley folk, descendants of the Huguenots and Cavaliers who had taken the wilderness trail across the mountains and settled here "in the hollow" of old Harpeth's hand. They were as interesting scientifically from a philosophical standpoint as were the geological formations which lay beneath their blue-grass and clover beneath their blue-grass and clover fields. They built altars to what seemed to him a primitive God, and yet their codes were in many cases not only ethically but economically and democratically sound. The men he had found shrewd and as a whole more interested and versed in states-craft than would seem possible, considering their shut-in location in regard to the places where the world wheels seem to revolve. But were wheels seem to revolve. But were there larger wheels revolving, silent-ly, slowly, but just as relentlessly, out here where the heavens were stretched "as a curtain," and "as a tent to dwell in?"
"The carth and the fullness thereof," he mused as he raised his



A Home Fit for a King

counted for a stewardship in behalf the others assembled under his

But in the eyes of Miss Lavinia all forms of service were the marshall-ing of the hosts in battle array and at all times she was enlisted in the ranks of the church militant, and upon this occasion she bore down up-on Everett with banners unfurled.

on Everett with banners unfurled.

"We are mighty gratified to welcome you at last in the circle of
family worship, young man," she
declaimed, as reproach and cordiality vied in her voice. "I have been
al-alying off to ask you what church
you belonged to in New York, and
have a little tally with you goes come." have a little talk with you over some of our sacred duties that young peoof this generation are apt-"
Rose Mary," came Miss Aman-

"Rose Mary," came Miss Aman da's cheery little voice from the door da's cheery little voice from the door-way just in time to save Everett from the wish if not even a vain attempt, to sink through the floor, "bring Mr. Mark right on in to breakfast before the waffles set. Sister Viney, your coffee is aget-ting cold." Little Miss Amanda base the control of the same than the control of the beautiful than the control of the same than the beautiful than the control of the same than the same of the same than the same than the same than the same of the same than the same the coffee threat to Miss Lavinia had been one of the nimble manocuvres that she daily, almost hourly, employed in the management of her sister's ponderosity. Thus she had saved this day, but Everett knew that there were others to come, and

eyes to the sky; "it's their cereyes to the sky; "it's their: ret-tainly, and they dedicate it e heir! God. I wonder—" Suddenly the picture of the woman in the oun.n rose to his mind, strong and gra-cious and wonderful, with the young "fullness" pressing around her. teening with—force. What force— and what source? Suddenly he drop-ped his pick behind yets con-venient bush, shouldered his kit of rocks and sand climbed to the forces. rocks and sand, climbed the fence, and tramped away down Providence Road to Sweetbriar, Rose Mary, and her cold milk crocks, thither impelled by deep-thirsts.

And under the hospitable eaves of the milkhouse he found Rose Mary and her cooling draft—also Mrs. Caleb Rucker, with small Pete in

tow. "Howdy, Mr. Mark," the visiting neighbor answered in response to his forcedly cordial greeting. If a man has walked a mile and a half with a picture of a woman handing him a glass of cool milk with a certain lift of her black lashes from over deep, black blue eyes it is-discon-certing to have her do it in the presence of another.

sence of another.

"I just come over to get a bucket
of buttermilk for Granny Satterwhite," he found Mrs. Rucker saying as he forced his attention. "She ing as he forced his attention. "She won't touch mine if there's any of Rose Mary's handy. Looks like she thinks she's drinking some of Rose

thinks she's drinking some of kose Mary's petting with every gulp."
Everett had just raised the glass Rose Mary had handed him, to his lips, as Mrs. Rucker spoke, and over its edge he regarded the roses that suddenly blushed out in her cheeks. but she refused to raise her lashes a fraction of an inch and went calm-ly on pressing the milk from the but-ter she had just taken from the churn.

churn.

"Grampy knows that love can be sent just as well in a glass of buttermilk as in a valentine," she finally said, and as she spoke a reguish smile coased at the corner of her mouth. "Don't you suppose a piece of hemp twine would turn into a yold cord if you tied it around a bundle of true love?" she ventured further in a spirit of daring, still with her eves on the butter. with her eyes on the butter.

with her eyes on the butter.

"Now that's something in meaning like my first husband, Mr. Satterwhite, said when we was married."

assented Mrs. Rucker with hearty appreciation of the practicality in Rose Mary's sentiment. "He gave me two sows, each with a litter of pigs, for a wedding present, and said they'd be a heap more to me than any kind of jimcracks he could even hought for half the money they'd. than any kind of jimcracks he could er bought for half the money they'd bring. And they was, for, in due course of time, I sold all them hogs and bought the plush furniture in and bought the plush furniture in the front room, melojeon and all. Now Mr. Rucker, he gave me a ring with a blue set and 'darling' printed inside it that cost fifty cents extra, and Jennie Rucker swallowed that ring before she was a year old. I guess she has got it growed up inside her, for all I know of it, and her Paw is a-setting on Mr. Satter-white's furniture at present, speaking still. Sometimes it makes me ing still. Sometimes it makes me feel sad to thing of Mr. Satterwhite when Cal Rucker spells out. 'Shall we meet beyond the river,' with two fingers on that melojeon. But then fingers on that melojeon. But then I even up my feelings by rememberius how Cal let me name Pete for Mr. Satterwhite, which is a second-husband compliment they don't many men pass; and it pleased Granby 50 clearly so that the second for the secon

extolling the present incumbent of the husband office to her friend. But at the mention of his name a moment earlier, young Peter, the bond between the past and present had sidled out the door and proceeded to sit calmly down on the ripuling surface of the spring branch. His rescue and retirement necessitated his mother's departure and Everett

nis mother's departure and Everett was left in command of the two-alone situation he desired.

"Hasn't this been a lovely, long day?" asked Rose Mary as she turned the butter into a large jar and pressed a white cloth close over it with pressed a white cloth close over it with a stone top. "To-night is the full April moon and I've got a surprise for you. If you don't find it out too soon. Will you walk over to Tilting Rock, beyond the barn-lot, with me after supper and let me show you?"

"Will I cross the fields of Elysium "Will I cross the fields of Elysium to gaze over the pearly ramparts?" demanded Everett with boyish enthusiasm, if not a wholly accurate use of mythological metaphor, "Let's cut supper and go on now! What do you say? Why wait?" "I'm afraid," laughed Rose Mary

or you say? Why wait?"
"I'm afraid," laughed Rose Mary
as she prepared to close up the wide
window and leave everything in ships
shape for the night. "A woman
oughbu't to risk feeding a hungry oughn't to risk feeding a hungry man cold moonbeams instead of hot hoecake. Besides, I have to see everybody safely tucekd in before I can leave. Aren't they all a precious houseful of early-to-bed chickens?

(Continued on page 22.)

****** The ******

March

The Being a you, we we ed unto you only, but all you were de

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The Gospel and More

Being affectionately desirous of you, we were willing to have impartyou, we were willing to have imparted unto you, not the gospel of God only, but also our own souls, because you were dear to us.—1 Thess., 2:8.

How many of us live up to this verse and its teachings? Perhaps the majority of us are not specially endowed with the power or talent of imparting the gospel to others in a way that will be beneficial to them. And we sometimes wish when we hear some great preacher or orator that we had his command of language to express our thoughts which seem to come to him without any difficulty.

come to him without any difficulty.

Although much good may be done
by imparting the gospel in well chosen words and pleasing wanner, set we
believe much will be lost if the person
does not impart some of himself in
presenting this gospel. There are
many opportunities for us to tell
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of the co not give some of ourselves we are not giving enough and our work will not count for as much as it might. The great men and women of to-day who are doing a grand and noble work for Christ 'are those who are sacrificing self for others. There are many ways in which we may accom- tles somewhere else.

plish this end. By little acts of kindplish this end. By little acts of kind-ness or in many ways in which we can forget self in helping others in Sunday school or church work or in every-day living.

every-day living.

The Lord Jesus is the great Work-er. While on earth he was continu-ally living for others and sacrificing Himself in order to help His people and tell them more about His Father and His wondrous love for them. And His work did not cease when he as-cended up into heaven. He is still the great Worker throughout all the ages, and we are the medium through which He may convey His love and power towards the world.

which He may convey His rove and power towards the world. We see through Paul's letters what a great power for good he had over men, but we believe he would not have had this influence had he not have had the influence had he not make the had been as the seed of the had been as the seed of the had been as the seed of the had been as the had been as

The best duster is a slightly damp (not wet) cloth, passed lightly over the surface, and changed for a clean one as often as it shows soil. A feather duster only disturbs and aids in distributing the dust, which setVentilating Cellars

An unventilated cellar is a reservoir for the seeds of pestilence and death. Diphtheria and typhoid fever are not unfrequently the result of minms accumulated in close undergrands. ground apartments where vegetable and animal matters are allowed to

and animal matters are allowed to decay and decompose. Organic matters of any kind should never be kept in any room or place unless free and ample circulation of air is secured. Here is a good plan for ventilating:

A stove on the first floor may have a branch from its smoke pipe passing down through the floor, so as to receive the top air of the cellar. This pipe should be slightly enlarged at pipe should be slightly enlarged at with a varied and should be supplied. its lower end and should be supplied with a valve; when the fire is being lighted this valve may be shut and afterwards opened, so as to leave sufficient draft for the stove. Thousands of cubic feet of damp air and foul gases will pass through the foul gases will pass through the chimney from the cellar daily and thus render it both clean and dry at all times. Every philosophical mind will see the truth of this statement and at the same time must admit that where such an arrangement does that where such an arrangement does not exist that, to a degree at least, these foul gases must leak through the cracks in the floor, to the detri-ment of the health of the inmates be-fore it passes through the fire into the chimney. Every chimney should be connected in some way with the cellar, so as to be used as a ventila-tor when required.—Western Farmer.

More Education

Mrs. J. T. S.

How many of our readers think

How many of our readers think they have enough education to make the most of life? Did your education stop when you stopped going to school? Have you ever heard people say, "If I had a better education I was a superior of the property of you can, as your reading will then be more systematic. A Shakespeare club, Dickens club or Reading Circle might be organized in many country locali-ties, and much pleasure and profit de-rived therefrom.

rived therefrom.

It is a pity some people do not care to read. What a world of information and happiness they miss! By all means let us try to do some worthwhile reading this winter. Let us try to be wiser by spring.

Renew your subscription now.



"Listen, Rose." Bud reads:

"Madam, your own white hands are the first to touch FIVE ROSES.

"For nearly one mile it travels through "hygienic automatic processes-more

"and more spotless.

"Till in a clear creamy stream it flows into

"clean new packages, filled full-weight by "infallible machinery—sewed automatically."

"Goodness!" said round-eyed Rose.

Bud reads eagerly:

"Hand-proof, germ-proof. Every littlest

"bit of machinery is bright - polished like "those piano keys of yours. FIVE ROSES is

"healthy flour, wholesome, none like it.

"Unbleached, too."

"Nobody touches my flour-but me" said Ross. Imagine such purity-get FIVE ROSES.

Not Bleached



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The fact that we are parties to a one-sided contract like this-bringing the goods to your door and taking them away again if you are not pleased-makes it imperative that only first-class values and up-to-date goods are offered.

For Most People Honesty is the Best Policy For Us Honesty is the Only Policy

We must make honest statements in our Catalogue, we must send honest goods at honest prices and give you honest service or the expense would put us out of business.

The Company imiled TORONTO

Rose of Old Harpeth

(Continued from page 20) old Sweeties have forgotten The old Sweeties have forgotten there is such a thing as the moon and Stonie hasn't—found it out—yet." And with a mischievous backward glance, Rose Mary led the way up the liliac path to the Briars on top of the hill just as the old bell sounded caused by the rivalry of up to General and Tobe over the pulling of the rones.

And it was quite two hours later that she and Everett made their way across the barn-lot over to the broad, moss-covered Tilting Rock that jut-ted out from a little blackberry ted out from a little blackberry covered knoll at the far end of the

pasture.

"Now look—and smell in deep!"
exclaimed Rose Mary excitedly as
she pointed back to the Briars.

"Why—why!" exclaimed Everett
under his breath, "it's enchantment!
It's a dream—am I awake?"
And indeed a very vision spread

itself out before the wondering man. The low roof and wide wings of the Briars, with the delicate traceries of Inc low roof and wide wings of the Briars, with the delicate traceries of vines over the walls and gables, or the state of the state of

back days or destroys them altogether. I wanted them so very much this year for you, and I was so afraid you would notice them before we got over here where you could get the full effect. I promised you lilacs for being good, but this is just because—because—"

"Because what?" asked Everett

quietly.

"Because I felt you would appreciate it," answered Rose Mary, as she sank down on the stone that still held a trace of the warmth from the sun, and made room for Everett beside her with one of her ever-ready gracious little gestures. "And it's lovely to have you here to look at it with me," she added. "So many times I have sat here alone with the miracle, and my heart has ached for miracle, and my heart has ached for the whole world to get the vision of it at least. I've tried sending my love of it out in little locust pray-ers to folks over the Ridge. Did you ever happen to get one any

'Last April I turned down mission for a false test for the big gest squeeze-out copper people in the world, fifty thousand in it to me, I I thought it was moral courage, but I know now it was just on account of the locusts blooming in Harpeth Valley at Sweetbriar. Do you get any connection?" he demanded lightly, if a bit unevenly.
(Continued next issue.)

. . . Grease sweet potatoes before they are put into the oven to bake; they will bake in half the time and the skins will be soft.

Toughness of angel cake is often due to the fact that the eggs are not beaten properly. They should be teaten so stiff that they will "stand alone"

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Fresh Air By Stephen Innes, M. D.

A wreck of a man, whose resistance to disease was reduced to about the point called nil, who not only was anemic and run down generally, but also threatened with consumpdespair whether there was any medi-cine in the world that could cure time.

"There is a medicine that can cure you," replied the physician. "It has cured hundreds, thousands like you. It will cure you beyond the shadow of a doubt." The poor fellow looked up eagorly. What is it, Doctor? For pity's sake tell me what it is. I thought I had tried everything that's known. I am not a wealthy man, but—"

'You don't need wealth for this

stock, and for a long time it was tak-en for granted that in such a large number of cattle some of them must be diseased, and the fact was simply

be diseased, and the fact was simply carried to the profit and loss account. But about two years ago it was suggested by a physician that loss in diseased cattle could probably be less-ened if not prevented entirely. He went himself to the ranch and made an inspection.

an inspection.

"It is easy to see what the trouble is," he announced, on his return. The sheds were built in such a way that when the cattle crowded in, to protect themselves from cold and storm, they kept themselves warm at the expense of open air. "It is surprising to me," he said, "that so many of them keep as well as they do."

"But Doctor, what would you ad-

Think of something old Dutch Cleanser hard to clean and full directions on Large Sifter-Can 104

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Capable Old Country Domestics

Parties arriving about February 18th and 28th APPLY NOW

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The wealth of the world some day will be judged by the

THE Human Body is kept in health by simple living,

out health there can be no success, for gain of fame or

gold will not profit a man who barters away his health.

happiness of mankind,-Elmer Lee, M.D.

which after all is a test of fitness for success. With-

medicine," answered the physician. vise," asked the owners. "The cat"It's not only the best medicine in
the world, it's also the chespest. In
rain and snow and icy blasts." fact, you get it without money and without price."

without price." The man's face fell. "You're jesting with me, doctor," he said. But the doctor was not jesting. Fresh air was what he meant, and he went on to tell this easy victim for diseases a few things about the value of fresh air as a medicine, that opened his eyes and placed him on a road that eventually led to health and strength and added life.

THE AMOUNT OF AIR WE BREATHE

How many men or women are there who know that at times of quiet, normal breathing they take into their lungs 30 cubic inches of air at each breath? There are 18 breaths a minute, approximately speaking. A very simple mathematical problem will show that 777,600 cubic inches of air pass in and out of our lungs every day of 24 hours. Is the importance of this fact fully grasped?

of this fact fully grasped?
When it is carefully considered we can afford to pass to the next fact which is this: The heart, with its 70 beats a minute, delivers to the lungs for nevation five ounces of blood at every beat. Again we put to use mathematics, and we find that during a 24-hour day the enormous quantity of 3,400 gallons of blood is brought to the lungs for aeration. brought to the lungs for aeration.

Think of it! Three thousand four hundred gallons of blood a day de-

livered to our lungs for aeration.

A distinguished scientist has explained what this means. It means that the lungs handle and cleanse in one day at least 125 barrels of

blood.

When we reflect that this quantity of blood must be supplied with oxygen in order to make it rich and red, and able to accomplish the purposet "Whereto it is sent," is it not obvious that it is important for everyone, whether well or ill, to secure an abundance of fresh air? Either as a preventive or a medicine fresh air is without an equal. It is alike powerful with children and adults, and for that matter with animals too with everything that lives and breathes.

On a Wyoming ranch it was shown by the books that there was a yearly loss to the business from diseased loss to the business.

"Il advise you to tear down your sheds," replied the physician. "Have only a long straight wall to protect the animals from the blasts. Other-wise set everything be open."

After hesitation this advice was

After nesitation this advice was taken, and the losses from diseased cattle not only grey less with aston-ishing rapidity, but at the present time them are practically at the vanishing point.

time them are practically at the vanishing point.

THE OLD REMEDY SEEMS NEW
As with cattle, so it is with the human species. Yet the fresh air treatment for the curing of human illis seems to be a secret which very recently has been learned, and the pioneers who within late lears have blazed this path have suffered the usual persecutions of innovators.

Unity about seven years ago, for the control of the con

many others are now demonstrating, that fresh air is good treatment for pneumonia, whooping cought, measles and other disease of children.

The faddists have proved to be wise and sensible, for on every hand we find outdoor sleeping porches and other means for obtaining fresh air by night as well as by day.

The nublic schools in some cities.

The public schools in some cities is establishing roof gardens where even in winter weather, classes are held in the open air, and with good

A CONSUMPTIVE SAVED One little fellow, known to me, a delicate boy whose father was a con-sumptive, and who himself has shown every sign that eventually he would every sign that eventually he would be a consumptive, has improved under open air study and treatment, "Why Jim, I wouldn's know you," I exclaimed the last time I saw him. "No more doctors or doctoring for this chicken," he answered, refreshingly outspoken, as he came up smiling and expanding his lungs. He

(Continued on page 25.)

GRAND TRUNK RAILWAY SYSTEM!

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Each Tuesday March to October i Clusive via chicago and St. Paul
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Through Coaches and Tourist Sleepers to WINNIPEG without change, leaving Toronto 11 p.m. on above dates.

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Low Round Trip Rates each Tuesday, March to October inclusive Winnipeg and Return - \$35.00 Edmonton and Return - 43.00 Other points in proportion rn Limit 60 days. TOURIST SLEEPING CARS

on all excursions. Comfortable berths, fully equipped with bedding, can be secured at moderate rates through local agent.

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For settlers tra-velling with live stock and effects SPECIAL Trains Leave Toronto Each TUESDAY March and April 10.20 p.m.

Settlers and fam-ilies without live stock should use Regular Trains Leaving Toronto 10.20 p.m. Daily Through Colonist & Tourist Sleepers

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AROUND THE WORLD via "EMPRESS OF ASIA" The "Enprese of Asia" will have Liverpool June 4t, calling at Madeira, Cape Town, Durban, Colombo, Singapore and Hong Kong, arriving Vancouver Amgust Stressel remains it days at long Kong. "Rate for Intire Cruise, SSIA," Ex-press of Asia," and stop over at Hong Kong.

Full particulars from any O.P.B. Agent, or write M. G. Murphy, District Passenger Agent, Toronto



To lessen household drudgery and make life easier for housewives is the basis on which our establishment is founded, and the growth of our business is due entirely to the fact that we have accomplished that object.

we have accomplished that object. The patented and exclusive features that make the "Playtime" superior didn't "years of experience and study. In OUR opinion, it is the best washing machine ever made for farm use. We would the YOUR opinion after a careful examination of its merits. See it at your dealer or eard to us for full information.

Cummer-Dowswell Limited, Hamilton - Ontario.

"A Godsend to People with Constipation" THIS WASHER

Address me personally: F. T. MORRIS, Manager, 1900 Washer Co., 367 Yonge St., Toronto, Can.

Farm Help

Farm Laborers will again be brought out this year by our Immigraon Department.

Also Boys and Domestic Servants We are making a special effort this year is country districts and will have the best class of immigrants. We seek desirable places for these.

Apply early for application form to

The Salvation Army Immigration Dept.

Cheap.Profitable Farm Lands

For Stock, Poultry and Hog raising, Dairying, Fruit grow-ing, Truck Crops, Alfalfa yields and General Farming, the SOUTHEASTEER STATES present soil, climatic and market condi-tions unsurpassed by any other region.

Farm land values are most tempting. Undeveloped tracts sell from \$6 an acre up; improved properties range from \$20 to \$30 per acre.

THE SOUTHERN RAILWAY

Mobile & Ohio Kailroad or Goorgia Southern & Florida Railway
will help you find a desirable farm location where two and three crops
grow annually. Alfails produces 4 to 6 tons, Corn yields 60 to 100 bus,
Truck crops make 8100 to 8400, Apple Orchards 8100 to 8500 per acre,
and Beef and Pork are produced at 3 to 4 cts. per lb.

et us know in what state and branch of farming you are interested.

nformation given and free publications furnished on application

M. V. RICHARDS, Land & Industrial Agest, Reem 30 Washington, D. C.

M. V. RICHARDS, Land & Industrial Agent, Room 30

Don'ts for Housekeepers

By "Sunbeam."

Don't forget to take an interest in your home. It is the first essential

Don't forget to establish a system (as near perfect as possible) in your housework. By being systematic much extra labor is saved.

Don't forget that an ounce of pre-

vention is worth a pound of cure.

Don't forget to do your work in season. Procrastination is the thief

Don't forget that a good kitchen drain is an absolute necessity. A cess-pool at your door is very unsightly besides being detrimental to health. In summer it is a perfect spot to breed flies and in winter the polluted snow presents such an un-

pleasing appearance.

Don't forget ventilation as your health and that of your family is dependent on it.

Don't forget that a wilful waste means a woeful want.

Don't forget that your clothes wear out much sooner if left out from day to day in the wind and storm. Clothes should be brought in when dry. Don't forget to be tidy. Cleanliness

next to godliness.

Don't forget to prepare daily the very best meals possible for your husband and family. None are as worthy. Never deny yourselves the necessary nourishing food for the sake of money.

Don't forget that plenty of fresh eggs, pure cream and butter, are better than doctor's medicine.

Den't forget to make your home attractive. Don't forget to find time for re-

Don't forget that "every day is a fresh beginning." If we fail today, try again tomorrow. Always aim at

perfection.

Wholesome Country School Activity

A girl teacher in a country school found her pupils grew restless during the long hours of the school day. The schoolyard was bare of shrub or flower, as were the dooryards of many of the homes of the children under of the homes of the children under her charge. This teacher asked the larger boys to bring spades, hoes and rakes. With them she went to the neglected yard and helped them dig up a strip along the fence. Together they worked to make the soil fine and mellow. A good-humored farmer and mellow. A good-humored farmer the boys brought of the properties of the the boys brought of the properties of the pro-tain and all the children helped to mix its and all the children helped to mix it through the freshly dug earth. Neigh-bors divided their stores of hardy bulbs and roots and the children planted.

There was then no lagging interest. Instead there was the greatest eagerness to see, to do and to help. Scofness to see, to do and to help. Scof-fing passers-by predicted that the children would soon uproot and de-stroy the plants. They misjudge childhood. Instead each one from the smallest to the greatest prized and protected the school garden.

FOR HOME MAKERS This teacher learned that the girls of her school were ignorant of the basal facts of the chemistry and art of cookery. On a coal stove so high that she must climb on a chair to that she must climb on a chair to reach its top, she began to give sim-ple lessons. Once a week part of a meal was cooked, thus to help out what the children brought in their baskets. A passing farmer chanced to step in and was amazed to see the to see in and was amazed to see the children sitting in orderly placement at their little desks eating in order-ly manner a meal cooked half on the old heating stove. His interest awakty manner a meal cooked half on the old heating stove. His interest awakened; a cooking stove was procured flavour.

A spoonful of brown sugar in the totiling water will improve the taste of turnips. It takes away the bitter

and placed in the school-room. This greatly helped the work and enabled the teacher to widen the field. Now once each week two of the girls take bread in the school room. To the astonishment of the little teacher the boys showed nearly the same interest in cookery as the girls. They have been given a part in the work. ASSISTANCE WILL DESERVED

Now the teacher is asking for a small additional room where can be set a real dining-table with its access sories, where she can teach the little maids to set and serve meals and maids to set and serve means and where might develop s vital social centre in that country district. It is said of the pupils of this school that the new sort of training given them by this teacher has resulted in

******** REPUTATION is in itself only a farthing candle, of wavering and uncertain flame, and easily blown out; but it is the light by which the world looks for and finds merit.

their being far more gentle, court-cous, intelligent and interested in the vital things of life.

These examination questions are copied from the blackboard of this school: "How high is this school-house above the sea? How many house above the sea? How many inches of rain normally fall on X county? Jason Brown sold his 40-acre field for \$80 per acre. How much of it could you have bought for 5 cents? Willie Jones grew 87 bushels of corn on his acre. He had 224 missing hills on the acre. He had 224 missing hills on the acre. If these had been supplied, how much should he have grown? Marian Price's tread got cold Thursday night and did not rise. Explain why. How long would it take 20 children to breathe in the air of this room which is 16 feet by 24 feet by 9 feet?"

This teacher had a rare gift, a sense perspective, an instinct for vital ings.—Joseph E. Wing, in Breeders' Gazette.

Making Home Attractive

A recent writer on "What the Farm Home Needs" makes a few sug-gestions for making the country home more attractive and pleasant:

home more attractive and pleasant: Have as much music as possible. A phonograph is a good investment. Indulge in an occasional trip eith-er to nearby or distant points. On returning, the home will be much more attractive. Read books, papers, and maga-zines. There is no company like a good book.

zines. The Replace the old household methods by modern labor-saving devices as far

as possible.

Make over the house so that there

may be a bathroom. Have a better arrangement of the kitchen so that there may be running water anad drainage.

ning water and drainage.

Have as many modern comforts as
possible, such as better lights, better heating system, comfortable furniture and home furnishings.

Arrange the home duties so that
less of the hard manual labor falls
on the woman. Let machinery do as
much of the washing, ironing, churning, etc. as possible.

ing, etc., as possible.

None of these things are out of the reach of the average country home and their introduction will repay their cost many times over and go a long way toward solving the country home problem.

. . .

March

MAIL SEALED TI SEALED TI Postmaster G Ottawa until April, 1913, f Majesty's Mai for four year Rural Mail R Oglario, to ou the Postmaste Printed not formation as Contract may Tender may bo of Peterboro a Office Inspect

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MAIL CONTRACT

SEALED TENDERS, addressed to the Postmaster General, will be received at Ottawa until Noon, on Priday, the that April, 1935, for the conveyance of His for four years, six times per week, over Rural Mail Route No. 2, from Peterboro, Oglario, to commence at the pleasure of Conference of the Post Office Inspector, Kingston.

H. MERRICK, Post Office Inspec Poet Office Inspector's Office, 15th February, 1913.

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For best results ship your live Poultry to us, also your Dressed Poultry, Fresh Dairy Butter and New Laid Eggs. Egg cases and poultry crates supplied

PROMPT RETURNS Retablished 1854

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Toronto, Ont.

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Anyhody can operate the simple "GOBS LIK'g SIXTY Engine. Ready for work the moment SIXTY Engine. Ready for work the moment can be compared to the sixty of the si

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********** **OUR HOME CLUB** *************************

Lighten Mother's Burden

Of course you have often thought of it that "men do not successfully till the soil without the aid of women. They may fight, but they will not farm unless women and children help.

As a boy here on the old farm at home I never fully realized how im-portant the women are. Nor did I realize how much they do of actual work that simply must be done. Like unto most men who have never as yet known what it is to have lost, through death, a wife, I little real-ized a fraction of what women mean in the economy of the farm household and home.

and nome.

Recently I was visiting at a distance and amongst some farmer friends; then it came home to me strongly how great is the burden of work, which many of our farm women carry. Little time there was for reading, little time for recreation. reading, little time for recreation.

Mea's and regular household work
took up the day. Then there were
the children. And after they were
safely tucked in bed—well there was the mending!

I wondered, as I noted the men, who enjoyed more leisure, if it ever occurred to them ever to help out a little more at times. And especially to the boys. They seemed to take it as a matter of course and quite the Divine right of their mothers to do

most things.

Let's take a little thought on these things. Let's keip mother s little more aand lighten her load and make her life a little brighter! -

. . . Her Accomplishments

By Mrs. C. E. T.

woman of my acquaintance is noted for the amount of work she does. She is past middle age and although she milks six or seven cows a day, makes butter from eight or nine, feeds calves and other stock, tends her garden, raises and dresses chick-ens for market and does her house-work besides, she keeps remarkably well and happy. She said something to me about resting one day and I said "Why! Mrs. _____, I didn't suppose you ever rested."

She replied, "Don't you think I ever rest? Well I do, and I could not do the work I do if I didn't. In the summer I can go into the garden and hoe a couple of hours; then I come in, remove my shoes and stockings , take a foot bath and lie down and sleep like a baby. I wake much refreshed and can go at my milking and evening work with so much in-

While we are not all called upon to do this kind of work, the same princi-ple will hold good in any work. A man who goes out to plow does not drive his team to do its best continually, but stops them to rest occasionally before they are completely exhausted. If he did not, before night they would be lagging so that not nearly so much would be accom-plished and the team would be in poor condition for the next day.

Human beings are very similar in this respect to animals and should be this respect to animals and should be treated with as much intelligence. Another woman who has a large family of little folks to care for and who gots along remarkably well, takes an hour each day to lie down and rest and can always find time to sit down and look at the mail.

seems try to kill themselves working. It is uncalled for and never pays. A woman owes it to herself and those dependent on her services to care of herself. When she worl dependent on her services to take care of herself. When she works be-yond her strength she is doing her family an injustice just as much as if she left some things go undone.— Indiana Farmer.

Fresh Air

(Continued from page 23.) showed how in seven months' time showed how in seven montus time he had increased his chest measure one inch and a half, and he had ac-complished it by merely taking long, deep inhalations of open air as he studied his lessons.

studied his lessons.

Fresh air is a remedy we have at hand. We do not need to go away.

The air is our heritage. It is about us where we are. What we need is to fill our lungs—not merely a part of them, but fill our lungs with open air, tier on tier of cells until the last lung-cell is swept, cleansed and aired, and then enjoy life as only a vigor-ous, healthful man or woman can. The breath is life, the vital principle

Dr. Lytton says: "To all animate Dr. Lytton says: 10 an animal bodies there must be one principle in common, the vital principle itself. What if there be a certain means of recruiting this principle? What if that secret can be discovered?"

Perhaps the discovery is beginning to be made. At any rate, whatever the secret may be beyond, the first door to it is to be found in the ex-haustless, overflowing abundance of open air.

Life, more life! was Goethe's pathetic, dying cry. The way to get more life, whether it be physical or otherwise, the way to have our life and youth renewed and increased, the way to achieve health and keep it after it has been obtained, is first to remember that 125 barrels of venous blood must be aerated in our bodies every day, and then to see to it that we breathe fresh air.—Health Culture

Resessantessantessantessantes THE COOK'S CORNER

Recipes for publication are re-quested. Inquiries regarding cook-ing, recipes, to, gladly answered up-on request, to the Household Editor, Farm and Dairy, Peterboro, Ont.

Reseaseseseseseses Date Filling .- Chop the dates fine and add to warm boiling icing. Pile high on the cake and press the next layer gently down into the dates.

Cold Slaw Dressing. - Two teaspoons sugar, four teaspoons vinegar, two teaspoons cream, pinch mustard, salt and pepper to taste. Have cabbage cut fine and bruised, and pour dressing over and

Masked Chops.—Dip lean pork chops into beaten egg, then sprinkle over them equal parts of salt and sage mixed together. Roll in flour and fry to a nice brown.

Salmon Loaf.—One large can sal-mon, freed from skin and bones, one mon, reced from skin and nones, one cup cracker crumbs, two tablespoons melted butter, three eggs beaten soparately, sait and pepper to taste, milk to moisten. Bake one hour in moderate oven. Take immediately to

table from oven.

Nut Patties.—Two cups washuut

meats, we cups toasted bread

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reated with callingiand and belt only as pre
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***************** The Sewing Room

(25)

Patterns 10 cents auch. Order by number, and size. If for children give age; for adults, give buss measure for waise, and waist measure for skirts. The children give account of the patterns.

HOUSE JACKET WITH FITTED BACK.



Pretty, ming house jackets always are in jackets always are in demand. This on e combines loose, tucked fronts with a fitted back. Most women like open necks for home wear, for we have learned that the best development for the throat and object is to be but to be a set of the combined of the co chest is to be obtained the chest is to be obtained the chest is to be obtained the chest is discovered to be chest in made with open neck and big collar or with round collar and bigh neck as liked.

This pattern is cut in sizes from 34 to 44

SURPLICE BLOUSE, 7630



ILOUSE, 1839
This surplice blouse
This surplice blouse
that is full at the
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This pattern is cut in sizes from 34 to 40

GIRL'S NORFOLK DRESS, 7620



Every variation of the Norfolk idea is fashionable for little girls. This dress includes the character istic box plaits and can be made very plain and simple or more dressy in effect as the neck and sleeves are finished sleeves are finished in one way or another. The blouse is made simply with front and back portions which are laid in box plaits and settin style. The skirt consists of four pieces with box plaits laid in over the laid in over the laid in over the seams

This pattern is cut in sizes for girls from 8 to 14 years of age

CORSET COVER WITH STRAIGHT

UPPER EDGE, 7612
The main portion of the corset cover is of the corset cover is cut all in one piece and, since the upper edge is straight, it is especially well adapt-ed to flouncing. There are only under-arm seams and the closing is made at the centre is made at the centre front by means of buttons and button holes. It can be finished at the waist line with a peplum and belt or with a belt only as pre-ferred.



Beats Electric or Gasoline

Powerful white incandescent mantle light. Replacing common oil lights everywhere. Burns 70 hours on one gallon of coal oil (decreasen.) No odor or noise, simple, clean. Tests by Prof. McKergow, McGill University, Montreal, on leading oil burning lights show this gives over tunce as much light at the Roy and other round wick lamps and uses less than half as much different to the coal of t Thousands of satisfied users endorse it as the best light in the world. To introduce this modern white light quickly, we will be you

TRY ONE TEN DAYS At Our Risk

We want one person in each locality to whom we can refer customers. Write quick for agents wholesale prices and special introductory offer, which entitles you to One FREE. MANTLE LAMP CO.

724 Aladdin Building, Montreal and Winnips

corrugated iron (galvanized) for your barn walls,

AGENTS WANTED

Experience un-necessary. Make Money evenings or spare time. Write quick.

make painting unnecessary, and give you at lightning-proof, fire-proof barn into the bargain. Write me.

GEORGE'S CORRUGATED IRON FOR BARNS AND LARGE

THE PRIMAR PROPERTY

9. A. Peda

"Here is the New Way to Get a Better Barn at Lower Cost have seen an astonishing thing happen in Canada, the land of lumbering. This is it. Lumber is getting so poor and costly, and labor so high priced, that you actually save money by using

and metal shingle for the roof. This is the new way to build barns." "Use my galvanized, corrugated iron in 8 ft. sheets, and my big 'George "I Want to tell Shingle' instead of wood and cedar on your barn. At one stroke you get a lower cost than a wooden barn painted. This is because I save You about the New You wages in erection, make repairs needless, make leaky roof and walls impossible.

OU can now buy my big 'George' Shingle. It makes a quick-laid metal roof that is good for 100 years, is easy to lay, and non-corroding. It makes a perfect roof for any building of large size. It is lightning and fire-proof; it needs no skilled labor; each

shingle locks into the others around. "Use it. Lay it, and your barn will not leak. Lav it, and you save days of wages against cedar shingle. Lay it, and you are done with repairs or further attention. Your barn is perfect."

"I want to save you money. My roof for barns is the most economical made. It is sold all over the world in 16x20 inch size, but from now on, you can buy it in 'George' Size, 24 x 24 inches to a single shingle, as well. Write my nearest branch and learn about why I made it." 9. H. Peda

"Remember, I make metal culvert, man-gers and troughs, portable buildings and granaries in metal, metal tile, metal walls, ceiling and siding for farm houses, etc. Write me if you need any of these things."

PEDLAR BOOK, FREE "I have written a little book telling how a modern

"I have written a little book telling how a modern barn is built, and showing it, step by step, in pictures. It uses my galvanized, corrugated from and 'George' Shingle, instead of wood. Send for the book to my nearest branch. It may save you thousands of dollars. Write to-day, friends, and read about a barn that saves cost."

The Pedlar People Limited

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Address nearest Office for "George Shingle," Book No. 152



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

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Important Credit Auction Sale

8 PURE Holsteins

On March 28th, 1913

"Sunnyside Farm," Boston, Ont.

A chance to get good foundation stock at your own price. Catalogues sent on application.

M. C. R. and C. P. R. trains met at Waterford, morning of sale, FRANK M. JOHNSTON, Proprietor Boston, Ont.

JNO. A. HARRIS, Clerk

JAS DUNIOD Auctioneers

HOLSTEINS-SELL Your Surplus Pure Bred Holsteins

by advertising them in these columns of Farm and Dairy.

LINCOLN OATS field. Won first of Gueiph in 1950 and 1952. Also first at Gueiph in 1950 and 1952. Also first at Central Fair, Ottawa, 1950, 1911 and 1952. Experienced man preferred—O. M. Firby, Payres Mills, Onde.

Central Fair, Outswa, 1200, 121 Price, 85 cts. per bus. Buff Orpington Eggs, from choice select-ed stock. Prize winners, 86.00 per hundred. W. G. RENNIE. ELLESMERE P. O., ONT.

BUTTERMAKER WANTED

FRE calculations and the second state of the s

THE MANOR FARM HOLSTEINS

The young stock from my great herd bull, PRINCE HEN-GERVELD OF THE PONTIACS, is coming along in great shape, better than we expected.

In official tests now being made his heifers are doing remarkably well. As soon as official returns are received from headquarters we shall let you know about them in the columns of Farm and Dairy.

You will make a wise choice in getting a son of my great bull to raise up as A HERD SIRE TO HEAD YOUR

Write for descriptions and prices of those I have available.

The Manor Farm is but a few miles out from North Toronto, easily reached from the Metropolitan Electric Railroad. I invite you to come and inspect my herd and make your selection personally of the good ones, I will price very reasonably for you. Over 100 in the herd to choose from.

Write now for early selection of coming crop of bull

GORDAN S. GOODERHAM

The Manor Farm, - Bedford Park, Ont.

You Can Sell

Your pure bred cattle, any surplus stock you have, by advertising in these columns of Farm and Dairy. We take you east upwards of 17,000 possible buyers, and at a cost very small to you for this great service—only \$1.40 per inch.

Send your advertisement to-day for next issue. Farm and Dairy, Peterboro, Ont.

CAMPBELLTOWN HOLSTEINS

A few son of Korndyke Yeeman Pontias for sale. Also a number of Cows and Reifers bred to him. Come to Tilisonburg if you want to buy Hoisteins and I will see that you get them. Farm, North Broad-way, Tilisonburg.

R. J. KELLY, . . TILLSONBURG, ONT.

DAIRY FARM

The Home of Lulu Keyes, the Werld's Record Senior 2 Year Old Cowl

THE PRICE IS RIGHT

B. TRACY

MR. HARDING SELLING OUT Editor, Farm and Dairy,—Having sold Maple View Farm, I am selling my entire outfit of stock and implements. Included among the stock is a choice bunch of Hol-



The New Secretary

WE SELL BULLS AND BULL CALVES ONLY and offer now and offer now and offer now within the second of th

success for the past 21 years. While what I have left is mostly young, they are mostly from imported stock, and are the kind that will please you better as they

kind that will please you better as they develop.

I nivit Perm and Dairy reeders to it involves the same and the same and

business with Xr. Harding—Bditor.
CENTRE AND HILLYEW FARMS
ONSIGNMENT
Mr. P. E. Eds, of the Centre and Hillyiew Farms. Oxford Centre, Ust., is concluded to the Control Breeder's Since at Woodstock, Tuesday, March 25. These are all tested formales, and are descendant from record results. The control Breeder's Since at Woodstock, Tuesday, March 25. These are all tested formales, and are descendant from record results. The control of the famous Starlight strain, which traces right back to the old Brooksank Butter year-old out of "Mande of Sant" strain, Mr. Ede sold her dam last spring at \$450, Another helfer is out of the "Occoler autopits bull and bred to his King Segis herd size.

nucopis bull and bred to his King Segis herd sire.

The cattle in this consignment, coming as they do from old Brookbank Butter Baron, and now with the Cobolin and the concept of the control of the con

Maple Hill herd of Holesteins. After leaving the farm he was successively Secretary to the Live Stock Commissioners and official supervisor of the National Live Stock Records. For the last year he has Stock Records. For the last year he has steins, the foundation of which was selected of from among the best in the noted herd of Mr. A. C. Hallman, Brislau, Ont. They combine size, quality and capacity, and are capable of making spherodred show the fock, which has met with such marked.

CHOICE YOUNG

HEIFERS

A five-year-old, Netherland Pride, and my two-year-old Herd Sire. I am consigning to the great Ox-ford District Breeders' Consignment Sale at Woodstock, Tuesday, March 25,

HERD SIRE

HERD SIRE
Springbank Butter Oount, two
years old, by Wopke Pasma, and
weepstake cow at the 190 Ottawa
Dairy Test, is the buil I am oongening. His phote was rentdensing the phote was rentdensing the phote was rentdensing the phote was rentdensing the phote was rentgening. He phote was rentgening the phote was rentspecial last June. He is an excellent individual. His breeding is
the very best, his dam he see give
the very best, his dam he was the
her owner refused \$80 for her as a
Plan to buy this buil. He will

Her owner reasons was developed by developed by this buil. He will prove invaluable on any good herd. Write now for catalogue and study up particulars of breeding Keepyour eye open for the Individuals in my consignment at the sale.

H. G. BENFIELD, Woodstock, Ont.

"PROOF OF THE PUDDING"

Mr. R. F. Hicks
Mr. R. F. Hicks
Mr. R. F. Hicks
Mr. R. F. Hicks
We have been breed
We have been breed
We have been breed
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NOTE!-I have one of the satisfactory kind for

R. F. HICKS, Newton Brook, Ont.

Another Worthy Lot from Belleville

Standing right back of the most enviable reputation, which we have built up at the previous Annual Sales conducted by our Belleville District Holstein Breeders' Club, we will this year do even better than hitherto by offering

100 Head

of top-notch



Holsteins

of richest breeding

Asiusual at SALE WEDNESDAY, APRIL 2nd, BELLEVILLE

May Echo, Sara Jewel Hengerveld, and Pontiac Hermes blood predominating in the cattle to be sold.

Offering will also include the out-and-out dispersion of two extra fine herds in our district, these cattle being of the choicest breeding

The feature of the sale will be DE KOL PLUS, she being the second highest record cow in Canada, exceeded in record only by May Echo

Look out for further notice and full particulars next week in Farm and Dairy. This Belleville Annual Sale is the only large sale catalogued this spring in the Eastern part of the province. You will want to attend it. Write now for your catalogue and arrange to be on deck and be a buyer at the sale.

The manner in which buyers at our previous sales have been used, the satisfaction given, and the treatment accorded buyers hitherto, is all you will desire as a guarantee of everything being as you would like it this year. Write now for your copy of the catalogue. Address the Secretary:

R. MALLORY, Secretary FRANKFORD, ONT.

N. B .- When you buy at Belleville District Sale you get animals with a future to supplement their already attractive records and backing the breeders in Belleville District are the ones that are regularly producing the champions, and they are back of your buying. March

LUME Cured Dougl

It is not a Schiedel, of staunch fries ment. Here work for him

"I have no line of satist I tried the li winter for he bottle cured found it goo and for Lum "It's a gree hand a bottle ment. It stop

mation, sorer beast." 25c at all d

CRUM

in the Herse I It would say would sometir of one of your which might are driving for You can lear all the diseas Sheep, Swine

Gleason and Hors It contains gives all the remedies — just know even if Horse Doctor.

Horse Doctor.

Paper bound
one New subs
send us for F
cents extra to
Handsome ol
fine quality pa
Get the New
promptly. On
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dealer about them an new booklet. "Garde with Modern Tools" copy of our paper " Age Farm and Ga News"—both are fr

492 Symington Ave.,

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LUMP IN UDDER

Cured by Sample Bottle of Douglas' Egyptian Liniment

It is not much wonder that Mr. Allan Schliedel, of New Hamburg, Ont., is a stanch friend of Douglas' Egyptina Lini-ment. Here is what he writes about its work for him:

work for him:

"I have now used Douglas' Egyptian
Sniment for 2 years, and find it gives the
best of seatisfaction for man and beast.

I tried the liminent on 4 cowa during the
winter for lump in udder, and a sample
bottle cured cach case in 8 hours I also
found it good for Muscular Rheumatism
and for Lumbago.

Tit's a great thing to always have on hand a bottle of Douglas' Egyptian Liniment. It stops bleeding at once, prevents blood poisoning, and removes all inflammation, soreness and swelling in man or besat."

25c at all dealers. Free sample on request. Douglas & Co., Napanee, Ont.

CRUMB'S WARRINER STANCHION

BURNED

GOVE, Writes Mr. Everett Gains, Reparatistown, Mass, WALLACE H. CRU'SH, Do., Ferest ville, Conn., I. S., A. Canadian ords 4 siled from Canadian factory, all correspondence 2 sould be addressed to the home office-tes in inquiry if y a prefer bookist in French or English



Free Farrier Book

What would you give to know how to cure anyone of your bornes, or one, when it is side without having to a when it is side without having to a lit would save you many dollars. It would save you many dollars it is would save you many dollars. It would save you many dollars it would save you many dollars. It would save you many the white you will not you w

Sheep, Swine and Poultry from

Gleasons' Veterinary
and Horse Taming Book
It contains 530 pages, illustrated,
gives all the medicines, doses and
record what you want to
lines Doctor, you do call in your
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promptly. Only a limited number of
these valuable books are available.
FADM AMR BARRY PETERBORO, ONT. FARM AND DAIRY, PETERBORO, ONT.

FARMER'S GARDEN

TRON AGE Wheel Hoes to Change we could be compared to the country of the country

WILBER C. PROUSE'S HOLSTEINS

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LEUSZLER & BOLLERT'S CONSIGNMENT We were not anticipating seeing stock of richest of breeding as we found in the stables of Leuszler & Bollert, at Tayletock. The stable of Leuszler & Bollert, at Tayletock three years ago there to Hobeleins some three years ago there to Hobeleins some three years ago there to Hobeleins some three years ago there to Hobeleins of the Hobelein State and imported a carload of Michigani State and the state of the LEUSZLER & BOLLERT'S CONSIGNMENT



Holstein Cattle

Dorset Sheep

Will be sold without reserve at Public Auction, at

Mapleview Farm, Thorndale, Ont. (On Stratford to London Branch G.T.R.)

Thursday Afternoon, Mar. 20

Consisting of I Registered Cydescale Mare in foal. Il Head of high-class Registered Hotteins, consisting of 3 Buils and 8 Females (in call). I Registered Shorthorn Cow. 5 cont. il High Grade Hottein Cows in call, 10 High Grade Shorthorn Cows in call, 10 High Grade Shorthorn Cows in call, 12 Dorect Sheep; viz., 1 ram., 1 wether, 13 ewe lambs, 5 breeding ewe with lumbs at foat. Alto farm horses and implements, etc.

TERMS-7 months' credit without interest (on amounts over \$10.00) on furnishing approved security; 4 per cent off for cash.

Single Fare Rates on R. R. Trains met on morning of Sale.

R. H. HARDING, Proprietor THOS. CLARK THORNDALE, ONT.

BREEDERS' DIRECTORY

Cards under this head inserted at the rate of \$4.00 a line per year. No card accepted under two kines nor for less than six months, or 26 insertions during twoive months. during twee months.

FOR SALE—2 Some of King Payre Segle

FOR SALE—2 Some of King Payre Segle

VORKSHIRE PIGS, all ages, either sex. Choice young Scars, fit for service. Also Diotal Line and Stalland Association of the Pryra Seed Diotal Line and Stalland Association. Also Diota Fillies and Stalland Association. Por Association of the Property of t FOR TAMWORTH SWINE-Write John W. Todd. Corinth. Ont., R. F. D. No. 1.

FAIRVIEW FARMS HERD

Offers a splendid son of Rag Apple Korndyke, the young bull we recently sold for \$5,000.00, and out of a \$4-pound daughter of Pontiae Korndyke (record made at years).

Calf is five months old, nicely marked and straight as a string, and I will soil him. Well worth the money.

WRITE ME FOR PRICE, ETC.

E. H. DOLLAR, Heuvelton, New York (PRESCOTT)

"Monarchs" Make Farm Life Easy For You

Buy a "Monarch" on easy terms, and have it do the drudgery—pumping, grinding, feed-chopping, wood sawing. Astonishingly big work done for a few cents in fuel. "Monarch" farm enjines come in sizes by to 35 h.p., with far superior bearings, equipment and design to ordinary farm engines. Your wife or daughter can operate it.

Get our "red-circle" folder for a post card. Sent free.

CANADIAN ENGINES Limited DUNNVILLE, ONT.

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VEHICLES AND HARNESS

NINTEENTH YEAR OF SELLING DIRECT TO THE USER

Vehicle or Harmon you require, and RAYE TOU MONEY. It describes and pietures many styles, giving price and RAYE TOU MONEY. It describes and pietures many styles, giving price and RAYE TOU MONEY. It describes and pietures method of Selling Direct and saving you by PREPAID, and fully explaine our pay the freight in Ontario and Eastern Canada. The Chiladeure is Prec, for the asking. Send for it To-day.

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Dept. "D" Brighton, Ontario



Pontiac Hermes

FARM AND DAIRY

A Son of Hengerveld De Kol

Sunnydale offers calves, grand-sons and grand-daugh-ters of Hengerveld De Kol, from good official record dams of our Helena family. Price: Heifers, \$100.00;

A. D. FOSTER

Bloomfield, R. F. D. No. 2, Ont.

Notice From Jas. Rettie

Readers of Farm and Dairy:

We, breeders of Holsteins in Oxford County, are determined that our Consignment Sale at Woodstock, Tuesday, March 25, shall be a truly great one. It will be great from the standpoint of really good stock that will be consigned.

My own consignment is one I am proud to have going out as a standing advertisement for my herd. You know as well as I can tell you what this means!

My consignment includes the following five young cows: Canary Butter Cirl, five years old, will freshen in May; has

Jessie Posch, a show cow; will be tested before day of sale.

Olive Schulling, 3rd, again to be tested before sale; and her daughter, Olive Mercena—her first daughter, 14.65 lbs. butter as a three-year-old, has just calved again, and will be tested

Elloree 2nd, recently freshened. See reading notes in Farm and Dairy this issue. Get catalogue from H. G. Benfield, Woodstock, Ont., for full particulars of breeding, records, etc. Yours truly,

JAS. RETTIE, Norwich, Ont.

WHAT IS THE VALUE

A Good Holstein Cow?

You will have the opportunity to decide what is the value of one of the best Holstein cows in Oxford County,-this at

The Great Oxford Breeders' Sale

At Woodstock, Tuesday, March 25th, when we will consign the great cow, Canary Tritom Jewel.

This Great Cow is one of the largest, straightest, deep-bodied, thick-In sureat Cow is one of the largest, straignest, deep-bodied, thick-ly set, strong-constitutioned Holstein cows, of great capacity, that can do the hard work of making and sustaining big milk production. She should make a 30-lb. record when she next freshens. She has made over 25 lbs. in 7 days, 101.5 lbs. butter in 30 days.

She is in calf to a son of the great May Echo Sylvia—record at one yr. 11 nths, 748 bbs. milk in 1 day; 9945 bs. milk, 21.06 bbs. butter in 7 days; 00 lbs. milk in one year, close to 700 lbs. butter.

This cow ought to bring \$700.00, and is worth more as you would say were you in our stable to see her stock, which we have descendant through her daughters and through a son of hers, which we have been using on our herd.

Shadelawn Count Canary, son of the above cow, will also be in sal He is leaving the grandest of stock similar in markings, conformatic and capacity to his illustrious dam. If you can use the best, buy him!

Also in our consignment, Oulinda's Bonnie Lassic,—in calf to the aforementioned bull, 17.77 lbs. butter as a junior four-year-old, and was first prize three-year-old at London in 1908.

Write H. G. Benfield, Woodstock, Ont., Secretary of the Sale, for Catalogue. Study breeding of these top-notch Holsteins. Come to the sale and see them and you will not consider any price too big for them.

T. L. DUNKIN & SON

and the statement of th

NORWICH

ONTARIO

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

Thronto, Monday, March 10—bealers have been conservative in their previous estimates of trade conditions aince the speaking a little more optimistically. Wholessale firms are receiving about the same volume of orders as in previous estimates of trade conditions aince the speaking a little more optimistically. Wholessale firms are receiving about the same volume of orders as in previous into of an optimistic spirit all through the country. The cattle caretty a leading Toronto daily recently proposed a very reducial method of restocking the country factors and the country and the United States. Are gentline was held up as an example of problems down years ago Argentine passed, laws forbidding the sissupiter of helfer result that country is now the worlds chief live stock exporter. In their annual report the Swift Company of Chicago or the various packing companies of Toronto that there would be no eatile scarcily to deal with the farmers of Ontarto made as large backing companies of Toronto that there would be no eatile scarcily to deal with a rem mostly on the down grade. Grains are very quiet and in many cases related to the force of the condition of the winter wheat corp.

The condition of the winter wheat corp. The condition of the winter wheat corp. The condition of the winter wheat corp. The condition of the winter wheat corp. The condition of the winter wheat corp.

is active and higher.

WHEAT
The condition of the winter wheat crop
is still reported favorable. Wheat growing countries of the Southern Hemisphere
markets. There are believed to be still
large reserves of wheat in the farmers
hands in America. Consequently prices
have declined somewhat. Onlarge wheel
the declined somewhat. Onlarge wheel
to the still the demand. Quotations are as follows: No. 1 Northern,
Sci de to 50; No. 2, 54 to 54; Soi. No. 3,
54 to 58; do to 86; do only 10;
No. 2, 36 to 86;
No. 2, 36

COARSE GRAINS
There have been reductions all along the line in coarse grain quotations. Peus are scarce, rey and barley are in little domand and of a poor quality, osts are O. W. No. 2, 44; on No. 1 feed, 391-50; on Lario, 30 to 50 to 50 bere; peus 11 to 150; corn, 150 to 50 bere; peus 11 to 150; corn, 150 to 50 bere; peus 11 to 150; corn, 150 to 50 bere; peus 11 to 150; corn, 150 to 50 bere; peus 11 to 150; corn, 150 to 50 bere; peus 11 to 150; corn, 150 to 50 bere; pous 150; bet of 50; quotations at Montreal are Outs. C. W. No. 2, 41 1:20; No. 1 extra feed, 400; corn, 59 1:50 to 60; between, 50c and 2re, 65c 66.

MILL STUFFS COARSE GRAINS

Decreased demand has lowered the price of mill feeds. Manitoba bran, \$19 to \$30; shorts, \$21.50. Prices on Ontario feed similar. At Montreal bran is \$19 to \$30; shorts, \$25 and middlings, \$24 to \$25.

shorts, 833 and middlings, 824 to 823.

Hay rules at the same low levels quoted recently, and there is small prospect might strengthen the market somewhat, but no great advance is expected. Whole-sale quotations are: No. 1 hay, 812 to 815, No. 2, 85 to 85; halded advance is expected. Whole-sale quotations are: No. 1 hay, 812 to 815, No. 2, 85 to 87; halded at 814 to 815, No. 2, 85 to 87; halded at 814 to 815, No. 2, 815 to 81, No. 2, 810 to 810, No. 2, 810 to 810, No. 2, 810 to 810, No. 3, 850 to 810.

HONEY Honey is scarcer than was anticipated, and wholesale quotations are firm: Clover honey, 12:20 a bb. in 60-pound time; 12:34c in 10-pound time; 15c in five-pound time; buckwheat, 9c in time; 6c in bbla; comb honey, extra, \$2; No. 1, \$2.60; No. 2.

HIDES AND TALLOW

HIDES AND TALLOW
The hide market is quiet and quotations lower. Quotations for country hides paid by city dealers are: Hides paid by city dealers are: Hides hides, 8.50; horse hair, 8.0; calf skins, 140; lamb skins, 8.10 to 8.150. City grieces on hides are: No. 1, 150; No. 2, 150; No. 3, 150;

SEEDS

Merchante are paying for small seeds at country points as follows: Alsike, No. 1, 835.00 at 815.00 at 815.00 no. 2, 8150 at 811.00 at 815.00 no. 2, 8150 at 815.00 at 815.00 no. 2, 8150 at 815.00 at 8

DAIRY PRODUCE

DAIRY PRODUCE

Stores of hed butter are getting down to a small compass. Sales have been made freely, but there is no danger of a stronger market, as production is again crease from now on. No butter is being exported from this centre at present. Wholessin quotations are Dairy prints. Wholessin quotations are Dairy prints, which was not been considered to the contract of the contraction of

HORES
HORES HORSES

io \$500; serviceably sound horses, \$80 to \$0.

LIVE STOCK

Choice well finished steeps bring as high
or in the property of the common and under finished steep time as high
or night property of the common and under finished stuff is lower.

During the whole week trade of the stock
or mon and under finished stuff is lower.

During the whole week trade of the stock
output have only been moderate, it some
cases hardly sufficient to meet demand.

Choice caport steers bring \$6.30 to \$6.50,
output bave only been moderate, it some
cases hardly sufficient to meet demand.

Choice caport steers bring \$6.30 to \$6.50,
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specificated and sufficient some strength of the sufficient sufficient some strength of the sufficient su LIVE STOCK

March

CALVES R Steele, Bridge AY

RAVENS

CT.R. ST. ARMAND. TANGLE

Bonnie Brae, 1,382.57 lbs. m WOODDISSE Burnsi

Winners in tosts. Animal Canadian Long distance R. R. NESS.

Of choicest in of Ayr, the property of Ayr, the property of P. cow (16 butter), and f strains. All a you want and ing and record spare a few b W. W. E. R. R. No. 3.

AYRSHIRE CA

MISCE CATTLE



F. G. JAMES. MAXWI

Has some of the

MAXW STE. ANNE

> Clydes Fillies and S Smith & Rich

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ABSORBINE

Removed Burnal Enlargements Curber Filled y submit a SEACH Curber Filled SEACH Cur

CALVES RAISE THEM WITHOUT MILK Steele, Briggs Seed Co., Ltd., Toronto, Ont.

AYRSHIRES



QUEBEC

TANGLEWYLD AYRSHIRES

Brocial offering, Yearing Bull; dam, Primrose of Tanglewyld Zod. B. of P. as a 2 year-old, 8,097.5 lbs. milli, 7522 lbs. fat, average test 441; grand-dam, Primrose of Tanglewyld. B. of P. 16,195.6 lbs. mills. 65.62 lbs. fat; sire. Royal Star of Bornie Bres. on of Elicen B. of P. 1,555.6 lbs. mills. 65.64 lbs. fat. WOODDISSE BROS. BOTHEAY, ONT

Burnside Ayrshires

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

AYRSHIRE BULLS Of choicest individual merit, sired by Duke of Ayr, the particularly good son (one of of P. cow (15.56 lbs. milk and 159-15s butter), and from dame of beary milking strains. All ages. State about what age strains. All ages. State about what age strains. All ages. State about what age space a few before of fail of 152 birth. W. W. BALLANTYNE & 50N, R. R. NO. 3. STRATFORD, ONT.

AVRSHIRE CATTLE AND YORKSHIRE PIGS
For Sale—Ayrshire Galves and Bulle,
it for service. Vorkshire Pigs. 85.00
each or, if registered, 86.00. All the
above are from first price stock. Send
in orders now, with instructions re
shipment later. Apply to
BON. W. OWENS, Prop., or ROBERT SINTON, Mas.
Eversibe Farm, Meate Belie, Que.

MISCELLANEOUS

CATTLE AND SHEEP LABELS



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MAXWELTON FARM

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

MAXWELTON FARM STE. ANNE DE BELLEVUE, QUE.



We have a consecution price winners, colion, price winners, conformation and the best of popular breeding. Write for description, Priced right. Take advantage of our many years of successful experience as breeders and imports. Smith & Richardson, Columbus, Ont.

with 657H on the first of February. There is no change in prices to note here, but the market on the market of the

A WORLD'S AYRSHIRE RECORD
On March Ind., 1913, the Ayrshire cow,
Dally Jarch Ind., 1913, the Ayrshire was
Land Ind., 1913, the State of the Canadian Record of Feb., 2011, 201

SPECIAL PRIZE FOR CARLOAD OF BUTCHERS' STEERS

SPECIAL PRIZE FOR CARLOAD OF BUTCHERS' STEERS

GOOTHING From page 29; judged with due regard to quality, general united to be record to quality, general united by the second of the sec

seminant to the feeders and will doubtless bring out Sem competition.

A TRSHIRES IN R. O. P.

The long a Training cows and heafcrea has now many the property of the competition of t

4-Year-Old Class

May of Stockwell, 29,553, Hon. W. Owens, 10,077.5 lbs. milk, 336 lbs. fat, 3.63 per cent

Beauty of Monte Bello, 24,656, Hon. W. wens, 10,025.5 lbs. milk, 349.94 lbs. fat, 3.48

per cent fat.

Dentonia's Arpeggis 3rd, 25,446, Edwin A.

Wells, 9,996.5 lbs. milk, 376.01 lbs. fat, 3.76 per cent fat.

Der cent fat. Ethel of Stockwell, 29,638, Hon: W. Owens, ,614.5 lbs. milk, 368.23 lbs. fat, 3.83 per cent fat.

10,226 lbs. milk, 421.34 lbs. fat, 4.12 per cent

fat.
Sliver Maid of Eden, 26.937, Edwin A.
Wells, 9.832.75 lbs. milk, 369.23 lbs. fat, 5.65
per cent fat.
(Concluded next week)

Important Auction Sale

Holsteins Bred Cattle

The Maple Stock Farm will offer for sale at their Barns, Bealton, Ont.



(31)

■WEDNESDAY, APRIL 2nd

As I have purchased the entire herd of the estate of I. G. WYCKOFF, I will offer the whole herd, except calves and yearings, 32 HEIFERS AND OWNS, EITHER FRESH OR IN CALF, bred to the herd bull of this herd, Sir Diotine Paul Posch, which is getting fine strong vigorous calves, with the best of quality. This fine sire, which is two years old, rising three, will be sold in the sale. He is a beauty, light in color, and will make a 2900-lb, bull. He is as quiet as a covery of the sale where we have the sale when the sale when the sale was the sale when the sale was the sale when the sale was the sale

and will make a 2900-lb. bull. He is as quiet as a cow.

Sereen Yearling Bulls, nearly all from Record of Merit Dams, making good records. They are a good in the property of the large, broad, deep-holded coven-the show kind that everybody likes. The foundation of the larger part of this herd is streed by Prince Abbeken't Pauline, a son of Tidy Abbert Bulls are cord 277 lbs. of Butter in 7 days. He has 2 sisters with the property of the property of the property of the property of the prince of the prin

All trains will be met at Waterford and taken back for evening train. Lunch at noon for those coming a distance. Sale held under cover. Terms cash or time up to six months on approved notes, with interest at six per cent.

WM. SLAGHT, Prop. ONTARIO COL. WELBY ALMAS, Auctioneer

As we have done before everything will be sold straight.

Sale at I o'clock sharp.

Auction Sale Without Reserve



Registered High Holsteins

At the residence of John S. Rutherford, Tullochgorum, Chateauguay Co., Que., I mile east of McCaig's Corners

Tuesday, March 25th, 1913

19 Head Registered. [21 Head Grade

The foregoing stock are from such sires as Canadian Netherland (1973), Minto De Kol (2480), whose dam was Lady Colantha De Kol (2005), who won the champion milk test at Ottawa for three years; Senator De Kol (3812), whose dam was Maudice De Kol (3693), won the champion milk test at Ottawa, 1912; also holds the world's record in public milk test. ALL SARCD SY NELL SANGSTER.

Stock Bull Senator Lad De Kol, 4 yrs. old (8913), will be sold at the sale; is a grandson of Maudie De Kol, and on the dam side a grandson of Lady Colantha De Kol.

Sale without reserve, at One o'clock p.m.

Will meet morning trains at Bryson's Station.

TERMS: TEN MONTHS CREDIT. Catalogues sent on

JOHN S. RUTHERFORD

Tullochgorum,

Quebec

ANDREW PHILIPS, Auctioneer

INKERMAN DAIRY FARM

Offers 10 HEIFERS, rising 1 yr. old. 10 HEIFERS, rising 2 yrs. 5 Bulls, rising 1 yr. old. sired by aon of rising 1 yr. old. sired by aon of Also Bull and Heifer Calves. Purhabed in pairs not skin. Write, phone or come and inspect. WM. HIGGINSON, INKERMAN, ONT.

LAKEVIEW HOLSTEINS

LAKEVIEW HOLSTEINS
We are now testing some of the
daughters of Count Hengerveld Fayne
De Kol, and they are running from
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Purebred Registered
HOLSTEIN CATTLE
The Greatest Dairy Breed
The Agree Filturaries SOOKERY Holstein Friesian Asso., Box 148 Battleboro Vt

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

A. C. HARD: FRUE
A. C. HARD: FRUE
A. C. HARD: HERR SINE
Prince Hengerveld Pletje, 533 (50.32).
Dark, Frinces Hengerveld De Rol,
Dark, Princes Hengerveld De Rol,
Highest record daughter of Hengerveld
King Pontine Ark Rol,
Sire, King of the Portines.
Dam, Pontine Arts, 11.7 lbs. butter 7
days, 1.78 lbs. 38 days, 60.
We are offering buils from those great
sires and high record dams, and also a
limited number of cowe in calf to them.
Address all correspondence to
B. LORNE LOGAN, Mgr., BROCKVILLE

LEUSLIER & BOLLERT'S CONSIGNEENT (Continued from page 39) sire is also a brother to the world's champian cow, Groce Faynes 2nd Homestead. There are plenty good cows of these selected to go in this saie. She has an A. R. O. record of 17.79 butter at four years. This cow has great vein development of these selected to go in this saie. She has an A. R. O. record 17.09 butter at four years. This cow has great vein development of the selected by the selected to go in the saie. She has an A. R. O. record 17.09 butter, at good once she is a daughter of Nottie Bowdrop, A. R. O. record 17.00 butter, or the selected to go in May. She too is a descendant of that grand cow Sadde Van Connord scoing it is apparent how richly bred the cartie in this consignment are sense of the cows sill relating to the selected to th From the foregoing it the segment of the cows still retained in this bord. Amiga Anna Houwije (Imp.), A. R. O. 21 Be butter, R. O. P. 11.82 lbs. milk. butter 44.51 lbs. The control of th

BLIAS RUBY'S CONSIGNMENT AND HERD When Mr. Elias Ruby, or Tavistook, Ont. commenced with pure blood Hobsteins some few years age, be started in according to the started of ELIAS RUBY'S CONSIGNMENT AND HERD

NORFOLK HOLSTEIN MEN MEET Under the joint auspices of the Department of Agriculture and the Norfolk Holstein-Friesian Breeders' Club, a dairy in-stitute and stock judging convention was held for the Norfolk dairymen on Jan. 30.

HOLSTEINS

HIGH QUALITY RECORD BULL Priced Right for Quick Sale

Priced Right for Quick Sale
Out of the dann of Lain Keres. He
hae a full sinter, untested, and her
owner will not accept less than \$500
owner will not accept less than \$500
owner will not accept less than \$500
owner will most old, sired by a son of DeKey Sale Sutter Boy Jeff, dam is
for 3 and Sutter Boy Jeff, dam is
the great Lilli Key also bring dam of
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the straight call should
be worth, easily, \$500. First shock for
a Mall 100V. BRILEWILLE, ONT. E. B. MALLORY, BELLEVILLE, ONT.
'Phone, BOX 66, R. F. D.

GLENDALE HOLSTEINS

Entire crop of Pere-bred Holstein Bull Cabres and a limited number of Heifers. Bell Cabres and a limited number of Heifers. Bello Bytics, over El lus. howe its 7 as 18 in the Corolland of the Corolland Street Carlotte Corolland Street Carlotte Corolland Street Street

WM. A. SHAW, BOX 31, POXBORO, ONT.

Holstein Dispersion Sale

Watch Farm and Dairy for big announce of my dispersion sale.—Horses and Impler Watch Farm and 17617; I to find the first of my dispersion sale.—Horses and Implements, Feb. 26th; Holstein Cattle and Tamwerths on the 12th of March.

J. McKenzie, - Willowdale, Ont.

Alfalfadale Holsteins

We offer Male Calf, born Dec., 1912. Dam has a record of 282,7 lbs. milk and 14.65 lbs. butter at 1 yr. 8 mos. old. Her dam is now giving over 80 lbs. a day and 22 lbs. butter a week. He has R. of Merit sire. All our cows in R. of M. Will sell anything in the barn. sell anything in the barn-WILBER C. PROUSE, TILLSONBURG, ONT

Oxford County's Best Holsteins PUBLIC



Some of the Best Breeders of Holsteins in farfamed Oxford County, Ont., and Cattle from some of the best and most noted herds-(including H. Bollert, Bollert and Leuszler, A. E. Hulet, P. D. Ede, Jas. Rettie, and others), will combine to make probably the best sale ever held in Canada, for Holstein



Cattle, the Sale to be under the auspices of THE OXFORD COUNTY HOLSTEIN BREEDERS' CLUB, on

TUESDAY, MARCH 25th,

Every man in this sale is laying out to do his best to boom our Club and make his stock known as exceedingly high class through this sale. They are contributing of their best. Many of the cattle are much better than most breeders would care to risk selling at auction.

PRACTICALLY ALL FEMALES-IN VALUE UP TO \$700 A HEAD

The breeding of this stock is of the choicest imported and Canadian-bred strains. Mostly all tested stock. Our sale will afford you the opportunity of buying Holstein females from great herds. They will go absolutely at your own price.

is rigid. Cattle are guaranteed.

Amongst the contributors are: H. G. Benfield, Woodstock; H. Bollert, Tavistock; Bollert & Lewssler, Tavistock; T. L. Dunkin, Norwich; P. D. Ede & W. Belell, Oxford Centre; A. E. Hulet, Norwich, Martin McDowell, Oxford Centre; Jas. Rettie, Norwich; Elias Ruby, Tavistock; A. Walker, Norwich, and others.

Signed Transfers for each animal will be in Secretary's hands before sale day. Everything must be sold to highest bidder. No reserve.

Calalogue gives full particulars and pedigrees

could only with difficulty get a price on ordinarily at the breeders' own stables. Some of the cattle should realize as high as \$700 a head ou the day of sale

Write Now for your copy An Editor of Farm and Dairy, who inspected most of this stock the last week in February, pronounced it to be superior to his most sanguine expectations of it. The stock will set a new mark higher up most difficult for succeeding sales to surpass. All stock must be choice specimens, with udders right. Our inspection

Sale is being conducted under strictest of rules and penaltics. Everything is right. Much of the stuff is show stock of known and proven capacity at record work. Many of the cows and helfers are such as you

PLAN TO COME

SALE AT WOODSTOCK H. G. BENFIELD, Woodstock, Ont.

CATALOGUES AND PARTICULARS FROM

P. D. EDE, Oxford Centre

Marc



As Fara and from the lbs. butter. A. well-known to sire a son of I the sale. No. conditions of stakes at Pan-Prouse ever n
are included in
a man could in
Thirty
Holsteins will
Horses,
most desirable

High Testing

Bulls, fit for ted Lady De K a son of Lulu Calves. Also any Fems ice. Write or LEMON.

Ourvilla

Only one son Sir Abbekerk l want him. A LAIDLAW BRO

RIVERV

9 Young Bulls sired by King sister, 3 nearest sister of his dar sire average for R. O. M. and R. SALLEY.

YOUNG COY HOLST

Safe in calf to a Kol the 2nd's Br Also Yearling Bull Calves for s

W. W. GEORGE.

GRACEL HO

Notice is here consigning 5 Fer Annual Consign

Annual Consignators,
1 R. O. P. Heit
1 R. O. M. Heit
1 Daughter of
1 Daughter of
who is a daugh
She will producter this year.
Also a son of
my former herd
former ads.

ELIAS RUBY,

Graceland Farm













Specimens of the Richly Bred, Correct Type of Holstein Cattle That You May Buy at Public Auction, "Good Friday," March 21st, at Mr. Wilber Prouse's Sale, Tillsonburg, Ont.

Specimens of the Richly Bred, Cerrect Type of Holstoin Cattle That You May Buy at Public Auction, "Good Friday," March 21st, at Mr. Wilber Prouse's Sale, Tilliseaburg, Out. And Parm and Dairy readers will have learned from Mr. Prouse's advertisement and Hobetoin reading notes in Farm and Dairy last week, and from these pictures, and read of the sale of the property of the propert

High Testing HOLSTEINS For Sale

leo any Female of a milking age has a cc. Write or come and see them. LEMON, . LYNDEN, ONT.

Ourvilla Holstein Herd

Only one son of Dutchland Colantha Sir Abbekerk left. Speak quick if you want him. A dandy from a 24.50 b 4 year old. Write for pedigree and price. LAIDLAW BROS., AYLMER WEST, ONT

RIVERVIEW HERD

9 Young Bulls, from 2 to 12 months, ired by King Isabella Walker, whose siter, 3 nearest officially tested dams, a sister of his dam, and two sisters of his from the eight 30.34 lbs. from O. M. and E. O. P. dams.

J. SALLEY, · LACHINE RAPIDS, QUE.
YOUNG COWS AND HEIFERS HOLSTEINS of different

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

W. W. GEORGE. · CRAMPTON, ONT

GRACELAND FARM

HOLSTEINS

Notice is hereby given, that I am
consigning 5 Females and 1 Buil to our
Annual Consignment Sale at Woodstock

1 R. O. P. Heifer, 3 yr. old.
1 R. O. M. Heifer, 2 yr. old.
1 R. O. M. Heifer, 2 yr. old.
1 R. O. M. Heifer, 2 yr. old.
1 Daughter of the above R. O. P. cow.
who is a daughter of "sucy be Witt."
who is a daughter of "sucy be Witt."
he as on of Sucy De Witt, sired by
my former herd sire, A. R. O. bred. See
former ads.

former ads.

ELIAS RUBY, - TAVISTOCK, ONT.

Owner and Manager

Graceland Farm and Holstein Herd.

PRINCE EDWARD ISLAND

RING'S CO., P. E. L.

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to the past two days it, has been snowing and drifting, making roads almost impassible drifting. The drifting drifting and the property of the drifting and the property of the drifting drifting and property drifting to equip our factory with making the drifting to equip our factory with making the drifting to equip our factory with making to equip our factory with making the drifting the drifting the drifting to equip our factory with making the drifting the drifting that the drifting the drifting the drifting that the drif

LYNDEN HERD

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Bulls, its for service, one a son of Body

Our FARMERS' CLUB

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A. L. A.

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Rettle herd at Nowich, and have been
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to sit up and take notice and realize that
something interesting is before them Mr.
Rettie is placing five cown in the great
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Lilac Holstein Farm

Offers young Cows and Yearlings at moderate prices.

W. F. STURGEON Bellamy Sta., C.P.R. Glen Buell, Ont.

Lyndale Holsteins

Offers 5 Young Bulls, fit for service, sired by "Prime Hengerveid Pietje" and "King Pontiac Artis, Canada." Good individuals, nicely colored. The records of their 5 and the service of the service of the second of the sec

ELMDALE DAIRY HOLSTEINS

A few Females for sale. Calves, Year-ings or Cows. 50 head to select from Most of the young stuff sired by Paladin Ormsby (755). Service bulls, Paladin Ormsby and Highland Calamity Colantha (12,425).

FRED CARR. BOX 115. ST. THOMAS, ONT. Registered Holsteins

FOR SALE! To make room I offer for sale 15 Heifers, due to freshen in March and April. They are coming 3 years old and are carrying their 2nd calf, after a son of a 29-lb, 5-year-old.

R. CONNELL, R. R. No. 2, SPENCERVILLE Grenville Co., Ont.

Grenville Co. Onf.

GOOD ONES FOR SALE

1. A Young Bull, fit for service, sired by Sara Jewel Hengerber of the Sara Jewel Hengerber of the Sara Jewel Hengerber in 7 days.

2. A Young Bull, in months old, sired by ter in 7 days.

2. A Young Bull, in months old, sired by ter in 7 days.

2. A Young Bull, in months old, sired by the form of the service of the se

write B. E. HAGERMAN, R. M. D., HAROLD, ONT



s n Bull Heifers, ed May 7 days, Id's re-D. P. as d), and butter ONT.

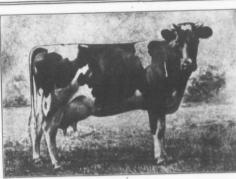
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Sale

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If you are interested in milk production, read the following letter:

Rockburn, Ouebec

The Caldwell Feed Co., Ltd., Dundas, Ont.

Gentlemen. - In reference to the benefit I have derived from teeding Caldwell's Molasses Meal to Milk Cows, would say that I. have found it second to none to complete a balanced ration, and consider it absolutely Indispensable in Making Milk Records.

My Champion Cow, "Griselda." which gave 105 lbs. of Milk in one day and over 10,000 lbs. in less than four months, dating from the day she freshened, giving 2,700 lbs. In her Fourth from the day sne freshenea, giving 2,00 los. In the Foundament Month, Ate Caldwell's Molasses Meal during the time she made these records, especially when she produced 2,700 los. in August, For No Cow (to my knowledge) In The World, Regardless of Breed, Has Ever Produced that Amount of Milk in Her Fourth Month on Grain and Grass alone, and the grain ration contained Six Lbs. of Caldwell's Molasses Meal Daily.

I highly recommend this Meal to every dairyman interested in producing milk either for market or record-making.

Respectfully yours

(Signed) GEORGE WINTER.

WE might follow the example of some advertisers, and make all the claims in the calendar regarding the marvelous nutritive and milk-producing qualities of

Caldwell's Molasses

84% Pure Cane Molasses and 16% Edible Moss

but that wouldn't satisfy you unless we tabled the proofs of the truthfulness of these claims. You will note from time to time that we make strong claims regarding the value of Caldwell's Molasses Meal as a stock-conditioner and milk-producer; but we always stand ready to prove our claims true. Read the letters reproduced in this advertisement and form your own conclusions. Then, if you have any lingering doubts regarding the value of Caldwell's Molasses Meal, put it up to us to prove our case beyond dispute.

You can buy Caldwell's Molasses Meal at your feedman's or direct from us. Write anyhow.

CALDWELL FEED COMPANY, LIMITED, Dundas, Ontario

Still More Evidence

Courtland, Ont.

The Caldwell Feed Co., Ltd., Dundas, Ont.

Dear Sirs, -1 wish to express to you my appreciation of your Molasses Meal. I have been feeding it for over a year, and as to results, the best way for me to show them is by stating that my Holstein-grade Cow, "Cherry," won the sweepstakes in the Ontario Provincial Winter Fair, held at Guelph in December, over 69 cows, also first in her class; first for total number pounds of fat, Norfolk County Special, and silver cup given by the Holstein-Friesian Asocisation.

She gave 206.6 lbs. of milk in three days, making 252 points, testing 3.08 in butter-fat, also winning the prize for greatest number of pounds of solids. "Cherry" is seven years old, and has been fed daily on Molasses Meal, which, in my estimation, has helped materially to make the wonderful showing she has made

"Cherry was sold to Messrs. Reid & Co., of Ottawa, and has since been awarded first prize at the Ottawa Winter Fair

I would highly recommend your Meal to dairymen. Yours truly. (Signed)

G. B. RYAN



CHERRY



The Elastic Cultivator

On any cultivator when the front and rear teeth are fastened to the same section or tooth frame the back teeth are bound to cultivate deeper than the front ones, or perhaps the front row of teeth do not enter the ground at all. On the PETER HAMILTON the sections or tooth frame are divided into rows, and each row of teeth swing or move independent of the others. What is the result? Even cultivation on every square inch of field and better crops. This is only one of our exclusive good points. Ask our agents about others.

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