

## FARM AND DAIRY



All international cutters are of the king on blower type-simplest and requiring least power. All are equipped with a corn clutte for feeding from the wagon. Steady power feed insures even cutting, silage packs properly and heaving. The low speed at which they run, and the asilety devices on the machines insure the safety of the operator. Send for full information on any of the cutters listed above. Write to the nearest address given below.



## Building a Stack to Shed Water

valles

A Minute Description of an Art We Have Lost. By John Counie A binate Description of an Art N stacking grain the first requisite is clean, dry ground, and under no circumstance about a stack be built on fith of any kind. Level ground is prefarable to sloping, for there is always a kendency for a stack to estit a description of the stack of the state to settle down hill, when built on uneven ground

Begin the stack in the same manner Begin the stack in the same manner as briking a round shock, setting the sheaves close together and as straight up as possible, gradually allowing the buits of the sheaves to slope out-wards, but even the outside row should be sufficiently upright that the grain cannot reach the ground and thus neveron say loss.

grain cannot reach the ground and thus prevent any loss. Round stacks are proferable to ricks, as, in case of rain, they are more easily protected from injury while in course of erection, and it is much earlier for the witch, at much easier for the pitcher to place the sheaves close to the stacker on a round stack than on the rick. A ound stack should not be more than twenty feet in diameter and a ten-foot pole can be used to get the size of the foundation, or by walking around close to the butts of the sheaves twenty steps, a yard each, will be practically twenty feet in diameter.

Work on the Knees.

Stacking should be done on the knees, a piece of old, heavy cloth be-ing fastened over the knees to save the overalls and protect the skin.

With the right size for the foundation secured, build the outside course, keeping the butts of the sheaves even with those on the ground, and with this course complete lay a second course, the butts of the sheaves to the band of the outside course, all sheaves pressed closely together and firmly packed by the weight of the body on the knees. Continue in like manner until the

center of the stack is reached, packing it full and jumping on the sheaves with the feet to insure a high center in the stack when fully settled grain stack properly built should be like a saucer inverted, highest in the center and the slope to the outside just as steep as it can be made and just as steep as it can be made and at the same time proven the sheaves from slipping off the stack. In fact, with a well-ballt stack, the outside course of sheaves is only held in place by the inside rows of sheaves and in threehing when the inner courses are removed, the outside course will at times slip and fail from the stack. This is a sure indication the stack. This is a sure indication of a well-built stack and should it rain continuously for a month a stack built in this manner will shed water equal to the best shingle roof. After standing in the shock the

After standing in the shock the butts of sheaves are slanting, this condition the result of the heads being preased together, and in laying the outside course of the body of the stack the long side of the sheaf should be laid towards the stacker, overlapping the short side of the pre-ceding sheaf, thus insuring an even surface on the outside.

The Head of the Stack.

When drawing in to make the head of the stack, the long side of the sheaf should be placed down and the short side on top, which aids mate-rially in giving a slant on the head and assists in shedding rain.

For rapid work by the stacker and to prevent overstretching, much will depend upon the ability and skill of the pitcher, as a good pitcher will toss every sheaf so that the butt will lie forward of the stacker, the band close to his right hand, that the sheaf may be readily grasped, laid in place and the stacker crawling forward on his knees presses the sheaf closely in place

In stacking on a side hill after the foundation is laid, extra courses should be built on the low side of the stack to bring it above the level to allow for settling. Each one of these courses on the low side should be followed by a full course on the entire stack as a binder.

No rule can be given as to the number of extra courses required, this depending upon the slope of the ground, care being taken to keep the when fully settled it will be standing practically plumb on the ground

Bulge Not Generally Advisable.

While a slight bulge in the body of White a slight bulge in the body of a stack whon properly bulk gives a somewhat artistic appearance to the stack it is not essential, and too often it is a positive injury. With the heart of the stack kept full and well rounded as it should be, from start to fully the induction of the stark kept full and finish, there is always a tendency for the outside course to all out, and often when there is a swell in stack, the heart has been kept the flat to prevent slipping, and the stack settles the heads and when sheaves are either on a level the with the butts, or perhaps tipping down, an invitation for water to onter every time it rains. With the heart kept full and the sheaves packed closely together there will be a tendency to spread out, without any effort to make a bulge, or swell, in the body of the stack, and care must be taken to keep the outside nearly plumb, with only a little swell, otherwise the stack will get too large to afford a steep head which is absolutely necessary to insure a dry stack, during a heavy, shing rain.

The whole art of success in stack ing is to keep the sheaves from start to finish, in as nearly an upright posttion from the outside to center, as it is possible to hold them from slipping off the stack altogether. It means work to build a stack in this manner and it is much easier to lay the sheaves loosely, keeping the stack about level instead of lew on the outside and high in the middle, and this fact is the main reason why so few farmars fail to succeed in building a grain stack that will shed water, while if the work is properly done water will not enter the stack when fully settled. It is better to have a steep head on the stack and a lower body than to have a high body and a flat head, but it is only by actual enperience that the height of the body can be determined.

#### Medium Height Preferable.

A medium height is preferable, as it is difficult to pitch sheaves to the top of a high stack, for there are few men at the present time who can stand with their back to a stack and pitch a sheaf over their head in such manner that the stacker when finish

Inside that the states which this ing the stack can readily grasp it. The stack should be finished stand-ing on a ladder and the feet should never be thrust into the head of the states in the state in the state is the state of the states in the state of the state is the state of the stack making holes for water to enter

A good raking down with garden rake from top to bottom after a few days' settling and early in the morning when the butts of the sheaves are damp with the night's dew will aid materially in shedding the heaviest rainfall.

This work will require a twenty-foot hadder on which to stand, the same as used in finishing the stack, and if a few forkfuls of long, green grass can be secured to top out the stack sheaves will be saved equally as well as those in the body of the stack. In the absence of grass or hay break a couple of sheaves, place on top as in capping a round shock, and secure by hangers to prevent their being blown off by a heavy wind.

Stacks built as here indicated will turn water equal to a good roof, and if allowed to stand as weeks or two months before threshing the grain will have gone through the swealing process and be in far better condition than if threshed from the shock and the sweating is done in the bin



Trade Increases the

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TOW, which you stop you have better cov ago? Have you do the production of your h 4,500-lb. cow, do you rea you if you could put in h minute you made the c ally reduce the cost of of milk from 20 to 22 pe cow producing the small much roughage and requ care as the other cow. grain cost are practical I will tell you briefly w

why I did it. I was force to decrease the cost of not increase the price for go out of the dairy busi system of farming—or to In the year 1898 my f

management of the hom At his death I had not on tions which had to be m went along smoothly. W a good dairy herd at tha living, and now and then gage a little; but as the p to advance, increasing th herd and, as the price of in proportion, the margin at the end of the year 19 tory and tried to settle th business basis for the nex \$200 or \$300 short of end assure you it was a serie obligations hanging over methods that I could add would change conditions. my head a little.

After doing that, I said 6 cows. There are 16 m 16 cows. convert the products of a income and a profit, if I market for the crops I gi can handle that more ecc be so much more. If one sumes more economically more efficient machine." ter over carefully, I decid January I would open an dual cow. I knew that I every dairyman has. I the some that were not as goo On the first day of Jan with each cow, and I am g what I found after a year best cow. I owned at the produced 6,115 lbs. of milk each, and her average test duced 256.84 lbs. of butter butter for every 20.2 lbs.

For the purpose of com that herd of 16 cows into one containing the 8 best s The 8 best cows in milk and 258 lbs. of 85 per cows averaged 192 cans of ter; a difference of 58 lbs see what that means in cas 56 cents a can would amou ference on the 8 cows of 1 I want to show you what after ten years' work. The were a lesson to me. I has to study and find out what



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

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## TORONTO, ONT., AUGUST 8, 1918

# An Object Lesson in Dairy Herd Improvement A Farmer Who Turned a \$300 Deficit Into a Substantial Profit, Tells His Story

N you have better cows than you had two many of N which you stop to U.Thk of It, how many of you have better cover shar you had twenty years ago? Have you done your part in bringing up the production of your herds? If you are keeping a 4500-1b. cow, do you realize what it would mean to you if you could put in her place a 6,500-1b. cow? The you nyou could put in her place a 6,500-10, cow? The minute you made the change you would automatic-ally reduce the cost of producing any given amount of milk from 20 to 22 per cent. Why? Because the cow producing the smaller amount consumes just as much roughage and requires just as much time and care as the other cow. The expenses outside of the grain cost are practically the same.

I will tell you briefly what I did in my own herd and why I did it. I was forced to do one of three things-to decrease the cost of production, because I could not increase the price for which I was selling-or to go out of the dairy business and adopt some oth system of farming—or to go off the farm. In the year 1898 my father died, leaving me the

In the year 1398 my father diad, leaving me the management of the home farm, heavily mortgaged, At his death I had not only the farm, but the obliga-tions which had to be met. For a while everything went along smoothly. We had what was considered a good dairy herd at that time. We were getting a living, and now and then I would reduce the mort-gage a little; but as the price of feed and labor began to advance, increasing the cost of production of the herd and, as the price of the product did not advance in proportion, the margin became less and less until, at the end of the year 1906, when we took an inver-tory and tried to settle the bills and start on a good bankees basies for the next year, I found myself some business basis for the next year, I found myself some \$200 or \$300 short of enough to meet the expenses. I assure you it was a serious problem to me, with the obligations hanging over me and with no other methods that I could adopt, so far as I knew, that would change conditions. I took a day off and used my head a little.

After doing that, I said to myself, "We have here s cows. There are 16 machines that I am using to 16 cows. proves. Increase to machines that I am using to coaver the products of my farm into cash-a cash income and a profile, if I can get any. They are the market for the crops I grow, and if those machines can handle that more economically, my income will be so much more. If one can handle what she consumes more economically than the other, she is the more efficient machine." So after thinking the matter over carefully, I decided that on the first day of January I would open an account with each indivi-dual cow. I knew that I had some good cows, as

dual cow. I knew that I had some good cows, as serry dairyman has. I thought perhaps I might have some that were not as good as I could get. On the first day of January I opened an account with each cow, and I am going to tell you briefly just what I found after a yaar" work. I found that the best cow I owned at the end of the year 1904 had produced 6.116 has of milk. You 7339 cans of 8½ quarts each and her average test was 4.3 per cent. She pro-duced 356.84 has of milk. In those days of batter for every 20.2 lbs. of milk. In those days of batter for every 20.2 lbs. of milk. In those days of labor cost and feed cost that was a profitable cow

For the purpose of comparison, I want to divide that herd of 16 cows into two herds of 8 cows each, Dat series of 15 cows into two herds of 5 cows each, see containing: the 5 best and the other the 5 poorest cows. The 5 best cows in 1904 averaged 258 cans of mills and 258 he of 35 per cent butter. The 6 poorest of the 1905 cans of milk and 200 hes, of but-ber, a diraced 192 cans of milk and 200 hes, of but-ter, a diraced 192 cans of milk at 50 best per cow. You see what that no of 58 hes of butter per cow. You see what that he forces of 1956 set 500 km set of 1956 set ference on the 8 cows of \$295.68.

memore on the s cows of 3295.6s. I want to show you what I was able to accomplish after ten years' work. The records of that first year were a lesson to me. I had to take another half day to study and find out what was best. I decided that

I would dispose of all the cows in my herd that did not produce \$10 worth more of dairy products than the feed cost. That would go out and my a basis to start on. Then I would go out and herd where re-cords were kept and I could judge from the produc-tion point of view. I have followed that work from that time to this. I have not only kept the records, but I have weeded out the poor cows. Instead of selling my best cows when the dealer came along I have sold the uprofitable cows, until in 1914 we had as a best cow one that would produce 9,580 lbs. of milk, or 532 cans, with an average buterfat test of milk, or 532 cans, with an average buterfat.

of 5.1, which would mean 453.77 lbs. of butterfat. For purposes of comparison 1 want to take the beat half of the herd in 1904 and the beat half of the herd in 1914. In 1904 the best half of the herd produced an average of 255 cans of milk, and 255 lbs. of butter. In 1914, the best 16 cows sveraged 7.144 lbs. of milk, or 397 cans, 373.84 lbs. of batterfat, or 446.87 lbs. of 55 per cent butter; a difference of 139 cans of milk and 188.87 lbs. of butter. This was an increase of 54 her cent in milk requested and 72 are per to be the form of the period butter. per cont in milk production and 75 per cont in butter production. Let us see what the value of the increase is. One hundred and thirty-nine cans of milk at 56 conts per can is worth \$77.34. Now we come to what it costs to produce that milk. In our herd we feed on

the basis of one pound of grain to 3½ lbs. of milk. We claim that the cow producing the extra milk does We claim that the cow producing the extra milk does not consume any more roughage than the other cow, but she does need more grain—more concentrates. Fjurning on the basis of one pound of grain to 3% ibs. of milk, and figuring grain at what I was paying for it last month, the extra milk would cost \$15.08. The net value of the increase in milk would, there-fore, be \$\$0.76 per cow, which in a herd of 20 cows would amount to \$1,105.20.

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I want you to look very carefully at these figures. I want you to look very carefully at these figures. J want you to realize what it would mean to you if you could increase the production of your herds to that extent, and I want you to know that I have had that extent, and I want you to know that I have had to labor under the same disadvantages, and meet the same obstacles, the same drawhacks, that every farmer has to meet. We meet with these at some time, all of us, but if we continue at the job, using our best judgment in the weeding out and selection of cows, and in the breeding, we can all of us in the out the selection of the set prove our conditions materially, and I see no reason why we cannot improve them to the extent that I have been able to do.—From Bulletin of Maine De-partment of Agriculture.

## A Twenty-three Year Success The Record of an Ontario Beef Ring

By Jas. R. Alexander.

UST ten years ago this summer I worked for the season on a farm near Norwich, in Oxford County, Ont. One of the local institutions that was then giving universal satisfaction was the beef ring. Farm

neighbors came in and we spent a most enjoyable evening."

evening." "A beet ring is a splendid thing when it is properly conducted," continued Mr. Painer, "In our ring we have just is shares and we operate for just is me, starting with the first week in June. This carries me through the hot weather, when freah meat must he had frequently if it is to keep. The owners of each share in the hot weather, when freah meat must he-had requently if the shares are held by two farm-ers to each share, although there are a few shares held by three men. Each share gets all the different mises of a beef in the season. pieces of a beef in the season.

"And how are values adjusted?" I asked. "Some animals might be worth a great deal more than others

"At the first of the season," answered Mr. Palmer, "At the first of the season," answered Mr. Palmer, "we get together and set a price for the following four months. This year the price is 15 cents a pound. On this basis each share is credited with the value of the saminal contributed and debited with the value of the maat they get. I keep the books, and at the end of the year an adjustment is made.

"It's 23 wars of success is pretty good proof of the satisfactory service that this beef ring has given. It is only one of several successful rings in that part of Ontario."



#### Labor and Crops.

Labor and Crops. Test any of harvesters, remuled by the United State Empire, remuled by the United State Empire, remuled by the United State Empire, remuled a state move is in accordance with an agreement between the two governments, and should go far towards solving the labor problem on the prairies this year. A partial failure of the praire this year. A partial failure of the crops in many districts has, unfortunate-ther is still room for the help of thousands of man in harvesting the 198 crops and in the fail work preparatory for a great acreage in 1919. in 1919.

In 1919. Harvesting is now well under way in On-tario, and prospects are for a splendid crop of barley and a good crop of spring wheat. Oats are short in the straw, but are heading out well. Potatose promise better than usual, but disease is prevalent in many dis-tricts. Roots, on a reduced acreage, will be a good crop. Corn will again be under aver-me. but here them it again be under aver-UBLIA, but oisease is prevenent in many use-tricts. Rocks, on a reduced acreage, will be a good crop. Corn will again be under aver-age, but better than was expected a month ago. Unfortunately an army of harvesters cannot easily be mobilized in Ontario, nor could they be used to as good advantage in groups as in the West. Much help will be needed, however, and the presex offers a grand opportunity for the townspecie of Eastern Canada to lend their aid where it will be needed in the next month. The sug-gestion that every town and village should have its employment agency where willing townspecifie and farmers in need of help the taken immediately. be taken immediately.

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## Fly Spray for Dairies

It Will Cost One Cent a Cow Per Day By Prof. L. S. GILLETTE Low

C ows may be sprayed twice a day at a total cost of less than one cent per animal. By treating the cows early in the day, just after the r m-ing milking and again at noon, whon they are brought into the barn for feeding sliage or solling crops, files may be brought under complete abeyance. This practice allows the objectionable odor present in most mixtures to pass off before the ensuing milking, and thereby eliminates one of the objections commonly urged against fly sprays, namely, that of tainting milk.

Flies cause considerable annoyance to dairy cows during the summer, both by attacking the cow along the back and legs and also by preventing her feeding to her maximum capacity, so accessary for economi-cal production. The restlessness of the cowa in the stable is also apt to be a frequent cause of inefficient milking or even of wasted milk. The actual decrease directly and indirectly attributable to flies is difficult to measure, depending as it does upon the temperament of the cow, the amount of milk given, the number of flies prevalent on the farm, and many other factor

Many different patent sprays are on the market, Many different patent sprays are on the market, some of which are effective, but many of which are quite unsatisfactory in addition to being expensive. Under ordinary conditions the dairyman will find it onder ordinary conditions the dairyman will find it more economical as well as more effective to make up his own fly spray. This can be quickly and easily done, as has been demonstrated by the lowa Experitures in the college hord. After trying out many different preparations during the past few years, the tolls one has proved most satisfactory when all finds or considered, and is the equal of any pre-pared spray that has and is the equal of any pre-half quarts coal tar dip, for available: Four and one-half quarts coal tar dip, the and one-half quarts fah out, three quarts coal oil, thr and one-half quarts do no one and one-half quarts oil of tar. These incredients are added to lakewarm soft water, in which 3 liss of laundry sogn have been dis-solved, and the total brought up to 30 gallons by adding more soft water. This amount is sufficient to spray forty cows twice daily for a period of ten dwa. This aneray server to rid the cows of flore and one has proved most satisfactory when all

days. This spray serves to rid the cows of flies and

FARM AND DAIRY

in operation farmers are now buying tractors of their own. One of the several that have been purchased in own. One of the several that have been purchased in Norfolk County is now doing a large part of the work on the farm of Mr. John Simmens, who lives near Courtland. "This fractor is exceeding my expecta-tions," Mr. Simmons told an editor of Parm and Dairy. "It is raived for 16 hcrespower on the draw Dairy. "It is raied for 10 hcrespower on the draw bar and 20 hornespower on the belt. It pulls three plows and can plow nearly an acre an hour. Of course, we must have good level land to make this speed. I am convinced that the tractor has come to stay, and that I will to a large extent displace horses on farms of over 100 acres."

This spring Mr. Simmons put in almost all of his crop with the tractor. In the past it has always been necessary to carry more horizes to rush through the spring work than are needed at any other time of the spring work than are needed at any other time of the year. On his 360 acres Mr. Simmon disposed of three extra horzes when he purchased his tractor, and during the spring he used horzes on the grain drill only. He will continue to use horzes for cutting hay and grain, but the tractor will be used for all of the heavy work. The saie of the extra horzes went a long neary work. The sale of the extra horses went a long way toward paying for the tractor, and because he did not have these horses, Mr. Simmons sold 300 bushels of oats that would otherwise have been fed. Along with the tractor he purchased a three-furrow plow, costing \$200, and a big double 32-disk harrow

Mr. Simmons' son, Arthur, is engineer-in-chief, and makes himself responsible for practically all of the makes minself responsible for practically all of the tractor work on the farm. Arthur gave us an example of what tractor speed means. Last spring he was preparing an eight-acre field for corn. He plowed this field and crossed it twice with the double disk harrow in just 22<sup>3</sup>/<sub>2</sub> hours. On fall plowed oat ground he has found that, jetting on at the right time, once over with the double disk and the drags behind puts the land in shape for seeding. His estimate of fuel use is one gallon kerosene per acre for disking and three gallons per acre for plowing, although it will take more than this in hard ground

# Annual Pastures are Coming

Some Observations of the Past Month

FEW years ago annual pasture crops tically unknown in Ontario outside of Govern-ment reports. In the past two seasons, however, these annual mixtures have been tried in prac-

tically every district of the province, due largely to the propa ganda of Mr. A. Leitch, of the Ontario Agricultural College. Two factors account for the ready acceptance of the annual pasture mixture. In the first place, Mr. Leitch place, Mr. Leite demonstrated on large scale on the farm at Guelph that the idea is practic-able. In the second place, conditions were favorable to an acceptance of the annual pasture idea. High prices for milk made farmers desir-ous as never before of maintaining steady production throughout the season. The high cost of concentrates made grain feeding to maintain the flow unpopular, and at the same time the



Mr. J. A. Williams, Peterbor' Co., Ont. whose potato growing methods were fully de-acribed in Farm and Dairy this spring, planted Iriah Cobblers (New Brunawick Seed) on April 2bit and on June 11th he dug the croph herol llustrated, which yielded at the rate of 2007 bushels per acre. Mr. Wilkings is groat advecato of immature seed.—Photo by an editor of Parm and Dairy.

s not cause the coats of the animals to become thick or harsh, although dust adheres more easily,

A very simple spraying apparatus may be con-structed by making a portable cart from a half barrel and wheels, to which is added a spray pump and nozzle. By using this cart two men can spray a herd of forty to fifty cows in five minutes. The cost of I lory to have cown in remnutes. The cost of labor plus the ingredients used in the spraw will be practically a cent per cow daily while the increased milk production, greater comfort to the cow and milker and maintenance of more sanitary conditions makes the investment an exceptionally profitable

## Tractor Experience in Norfolk A Tractor Displaces Three Horses

THE tractors operated by the Ontario Department of Agriculture last yoar and this have done much to popularise the tractor in Ontario. In every county where Government tractors have been

scarcity of labor made solling on any large scale im-practicable. The annual pasture mixture, which cost little, and once in the ground represented no further little, and once in the ground represented no turther labor on the part of the dairymen, seemed to fill the bill. Practically every district visited by the editors of Farm and Dairy this summer has at least some annual pastur

Mr. A. C. Hallman, of Waterloo County, Ont., has Mr. A. C. Haiman, of Waterloo County, Ont., has just one acre of the annual mixture, covering a pad-dock adjoining the barn yard. Mr. Haiman appar-ently used a little of all the seed he had on the place, as in the paddock we detacted oats, wheat, burley, votches, rape, sweet clover, red clover, alfaifa and alaike. In this small paddock Mr. Haiman rul dozen cows in the avanings for a cound of more. alsike. In this small paddock Mr. Haliman ran a dozen covs in the evanings or a couple of weeks: 25 hogs have heren in the paddition and on, and seven calves have pactured it continues of the was first ready for feeding. "I like this pattere mic-ture first rate," said Mr. Haliman. "I am not feeding my brood sows anything at all except the pasture the get here, and they are looking well. It also had a decidedly favorable effect on the milk flow even when

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In Clover-And Sweet Clover at That.

In Clover-And Sweet Clover at That. This sweet clover was seeded without a nume crop that has tweek of May on a ploce of sandy land that for ram had not grown even a decent crop of weeds. The plow was secured on July 16th, when a growth of 12 to 15 indexe had been made. The orgo will be pastured that indexe had been made. The orgo will be pastured that speing. This farm is in Halloud, when at its best next speing. This farm is in Halloud, when at its best next speing. This farm is in the state of the speing of all soil renovators.-Photo by an editor of Farm ad Date.

the cows were in for only two or three hours in the evening/"

A short time after we visited Mr. Hallman we gave A short time after we visited Mr. Haliman we are Mr. C. E. Moore, Peterbord' Connty, a visit. Mr. Moor had ten cows pasturing on a two and one-hait are field adjoining the stable. "I never had anything on the place give so much feed off the same acroage," remarked Mr. Moore: That Hitle field had been seeded with wheat, cats and barley, as recommended by Mr. Leitch, and, in addition, with alsile, rot clover, alfalfa, and timotity, the intention being to the semecied with personnet pasture. This exact the set

keep the field for permanent pasture. Blue grass, it is expected, will work in of itself. These are only a couple of the many instances that we might quote. The annual pasture mixture is due to hold a permanent place in Ontario's agriculture.

## Fertilizing for Wheat

## Some Significant Figures From Illinois

HE State of Illinois is conducting the most erhaustive and most conclusive fertilizer experi-ment of any state or province in America. This work is under the direction of Dr. Cyril S. Hopkins, whose object it is to determine some system or systems of crop management that will ensure a per-manent fertility of the soil. Most of this work is being conducted in demonstration fields throughout the state. The farmers of each district buy the land and deed it to the state for experimental purposes. and deed it to the state for experimental purpose. There are 40 acres or more in each plot, with an ex-perimental barn and threshing outfit. The exper-ments, therefore, are on a good scale, and the results have a very practical bearing. Wh. t threshing has already begun on these experimental fields. The b-lowing table of yields is for the oblong field in Craw-ford County, Illinois. selves.

These records show that as an average the yields These records show that as an average the yields of wheat were increased nearly six bushes on a by limestone and elsh' vahels in addition by phe-phete. In permanent systems of sell improvement, with ground limestone, fine ground raw rock pha-phete, and home-grown manures, the average yield was nearly 35 bushels per acre, or about four times the yield from untreated land, which of listel pre-duced less than rinto bushels of wheat. "Why expend labor to farm 60 acres," about for Brue the strength of the strength of the strength Dr. Hopkins, who believes that the results of his Continued on page 3.

Continued on page 9.)

## August 8, 1918.

## On t A Short Sketch Bred Boys W

- 0 one who has r there, the phra which has been adopt Houcks in connection form may seem some ful. But to one who has nleasure of riding on ward which extends shore of the majestic from Niagara Falls t burg, just across the parfelo or who has he ditional privilege of st at Black Creek and en, hospitality of the farm Llenroc, the term is a

During the past few so Lienroc Holsteins h so Llenroc Holsteins n figuring quite promin official reports. Mr. H the boys have become figures at Ontario sa and it is quite possibl those who have not ha mate acquaintance a s been done, and what is tion with the farm, may The

Though known to far farmer and an enthusi some as an American known in his home ci known in his home ci-greater extent of the, dent of the H. O. Comp and as also having inte cerns. Whether to his bu in any other way than business man. I do not one could visit at his ho his fields without seeing man. They would see places the welfare of h his fellow-man. They we short years, had acquire matters which is astoun of Ontario farm conditio pathiser with the preser

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Llenroc Farm consists is heavy Welland clay, a this run several strips o At the back of the farm upon which are grown There are 60 acres of thi Owing to the fact that

piece by piece during a p been impossible to pro operations and a definite farm is so far impossil allowed to stay with any than is profitable. The corn, wheat, oats, and ro the farm furthest remove There are two large bars. The alfalfa is stored ther barns as required during include the alfalfa in the

as advisable, then plowed Mr. Houck lays his succ to the use of lime. This i but of all the crops. Two but of all the crops. Two as fertilizer each year, an vestment. Owing to the been unable to put in c kills out in the low spots. blue grass, but the two c



#### August 8, 1918.

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## FARM AND DAIRY

# On the Boulevard of the Beautiful Niagara River

A Short Sketch of W. C. Houck, the Genial Proprietor of Llenroc Farm-His Farm-His Holsteins-His Three City-Bred Boys Who Are Handling the Farm, and Some of the Things They Have Accomplished-By C. G. McKillican

o one who has never been there, the phrase which beads this article, and which has been adopted by the Houcks in connection with their farm, may seem somewhat fanciful. But to one who has had the pleasure of riding on the Bouleword which extends along the shore of the majestic Niagara, from Niagara Falls to Bridgefrom Niagara Falls to Bridge-burg, just across the river from Buffalo, or who has had the ad-ditional privilege of stopping off at Black Creek and enjoying the hospitality of the farm home at Lienroc, the term is a very real-

During the past few years or so Lienroc Holsteins have been so Lienroc Hoisteins have been figuring quite prominently in official reports. Mr. Houck and the boys have become familiar figures at Ontario sale rings, and it is quite possible that to

and it is quite possible that to those who have not had the privilege of more inti-mate acquaintance a short description of what has been done, and what is now taking place in connection with the farm, may be of some interest. The Proprietor.

The proprietor. Though incown to farmers of Ontario as a brother farmer and an enthusiastic stock man, possibly to some as an American business man, Nr. Houck is hown in his home city of Buffalo, and over the greater extent of the, American Republic, as presi-dent of the H. O. Company, manufacturers of feeds, serns. Whether to his busines in other business comes under to his home and walk with him about his fields without seeing more than a mere business man. They would see a man who, before all else, places the welfare of his family and the welfare of his folds without seeing more than a mere business man. They would see a man who, be a strong sym-place the welfare of his family and the welfare of his folds wither conditions, who is a keen observer of Unatrio farm conditions, and who is a strong sym-pathier with the present farmers' movement. The rem, Though known to farmers of Ontario as a brother

#### The Farm.

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mixture They usually leave the alfalfa about five

mixture. They usually leave the alfalfa about five years before plowing it up. In order to do hulr share in the patriotic duty of food production hulr share in the patriotic duty of how the second share share in the body crops which is sold of the farm. This is the only crop which is sold of the farm, This is the only crop clover and timothy is done with the second for clover and timothy is done with the spring, or when the front is just coming out and the ground is in the honeycomb stage. They claim that this method has given ground satisfaction, and that by seeding in has given good satisfaction, and that by seeding in this way and by proper

tillage a smaller quantity of seed per acre is neces. sarv

The hay is left two or three years, according to the stand, and is plowed up for corn and some for summer fallow, though the latter plan is not considered advisable except in case of shortage of labor to handle a cleaning crop such as corn or roots.

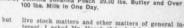
Forty Acres of Eureka Corn.

Corn. Speaking of corn, this year's crop covers 40 acres. It is the Eureka variety, and usually stands about 14 feet high. There are four large silos on the farm, which are on the farm, which are as arule crammed to the root. Mr. Houck says that this yarlety gives good satisfaction with them--that they have had it ripen sometimes, but

usually cut it in the milk stage.

isually cut if in the milk stage. Hay also is an important crop. This year they have 225 acres besides the alfalfa, and if the sample which I saw them cutting at the time of my last visit is a fair sample of the rest, there will be abundant feed for the Holsteins during the coming winter.

feed for the Holsteins during the coming whiter. Another crop which is grown, though small in acre-age, yet large in importance, is the beets. These are used for the test work during the winter. There are five acres altogether in beets; some the table variety, which give excellent results for test work, and some of the larger varieties.



live stock matters and other matters of general in-terest, I asked Mr. Houck if he had been a farmer in the past, and if not, how was it that he had become interested. He said: "Well, it was this way. A few years ago the idea of buying a farm had never crossed my mind. But which she two oldest boys, Bill and Chris, finished the said two oldest boys, Bill and Chris, finished of the said of the said of the said of the said ourse at 0, they wanted to take the agricultural course at 0, they wanted to take the agricultural action of the said of the said of the said of the taket of real farm by dis ot hey must first get a saite of real farm by the solution like to follow farming as a permanent of hey would like to follow farming the apermanent of the solution of the botter book from acres and secured a good farm bought a farm of 130 acres and secured a good farm bought a term to the secure da good the botter botter botter botter to be some fabring the source of the botter botter botter botter botter botter botter and come but forget the terms to each of the boys out to work for him. The

it. Then I suit the boys out to work for him. They were to go the pin five o'clock and rough it, just the same as the other five o'clock and rough it, just the how pens, dig ditches, and if he other dirity work, and if at the end of the similar the other dirity work, and if at the end of the similar the other dirity work, and if at the end of the similar the other dirity work is a similar the other dirity work, and if at the end of the similar the other dirity work is a similar the other dirity work is a similar the other dirity work is a proposition they were up against. They went along all summer, and I never said anything to the boys this threshing time came. Then their mother said. 'You're not going to let these boys work at that dirity 'Continued on mare 3.) Then I sent the boys out to work for him. (Continued on page 9.)

A Group of the Buildings. The Main Dairy Barn May be Seen to the Right.



The Boulevard in Winter as it Passes Through Llenroc Farm.

m. butter right on the farm, a small modern plant having been put in for the purpose. The butter is sold in the city market, and the skim milk and buttersold in the city market, and the skin milk and butter-milk are invaluable in raising the young stock of the farm. The latest addition to the equipment on the farm is the milking machine. It has now been in a few months and is giving good satisfaction. There are five gas wells on the farm, and anyone who has ex-perienced the shortage of coal can appreciate what this means, as, besides supplying the whole farm with hight, heat and power, these wells bring in \$75 per year rental for outside users.

How It All Came About. As we sat on the verandah after tea and talked of



While oats is not a crop of first importance with the Houcks, last year they threshed 1,800 bushels. This is all fed on the farm. Included in the farm equipment is a small power grinder, with which they do all their own scriedies. their own grinding. The oats are mixed with such commercial concentrates as oil cake, cotton-seed, gluten, etc., of which con-

(8)

While oats is not a crop of rst importance with the

siderable quantities are bought. In order that a farm of this In order that a farm of this size may be worked to full ad-vantage with labor as scarce as it is now, it is necessary that the farm equipment be modern. All the best machinery is used, inthe best machinery is used, in-cluding side delivery rake, hay loader, and two-horse cultiva-tors. The milk from the Holstein herd is separated and made into

butter right on the farm, a small

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cock birds in high re-Bred - to - lay Wyandottes, Reds and Leghorns. 1918 Mating List gives full particular Rocks full particulars of this stock. Write us this stock. Write your wants to-day! L. R. Guild, Box 76, Restwood, Ont

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## 100 acres, with Crops Horses, Cows and Tools \$2.500

Barcse days, Lows and Tours 32, OUL fine 400 bushess posterior and wood-formed Ba-cow pasture and wood-hours, granary, tool, poulby bousant, bars, granary, tool, see to be pastoned, atta and bars, and bars, bars, foot, server, tool, aso hay pastoned, atta and bars, and bars, bars, foot, server, tool, aso hay done, foot, crows, copy free. a strategrand, copy free. bars, tools, crows, copy free. bars, tools, crows, copy free. bars, tools, crows, copy free. bars, tool, crows, copy free. bars, tools, crows, copy free, tools, too

#### FOR SALE AND WANT ADVERTISING

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FARM WANTED—I wish to purchase a farm in southern part of Ontario or Dur-well basit, well we lake across. Must be well basit, well we lake and of the detentiate performed. In reputing give full description, price and terms. Address Box 14, Phere and Derry.

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ADVERTISE in these popular out-umas, which others souts you only \$1.68 an inch.



Manitoba Poultry Notes

P ROF. M. C. Herner, of the Mani-toba Agricultural College, reports that during the months of March, April, May and June, 24,800 eggs were set in the incubators of the poultry department. Of these 4,336 eggs were infertile; 11,530 chickens were hatch-ed, or a little more than one-haif of the fortile area. These more that the fertile eggs. These results might be considered very poor by many poultry raisers, but when the large scale of the hatching is considered, together with the variation in hatching power of the eggs from the different breeds, the results must be taken as very good. indeed.

There has been an enormous demand for baby chicks this season. The Poultry Department disposed of over 4,000 of them and at that could supply only about 10 per cent of the demand. Baby chicks can be shipped any dis-tance when they reach their destination within three days. They carry best if taken out of the incubator as soon as dry and shipped immediately. The production of the college flock

is at least 25 per cent higher this year than last. The cost of producing the eggs, however, was also considerably higher. One thousand six hundred hens were carried over the winter and these have now been called to 900 with further calling in view. One thousand pullets of this season's hatching will bring the laying flock to 1,700 for the winter of 1918-19

## Guineas for Eggs and Game By F. M. Christiansen. Common Guinea fowl will

THE drive away rats by its cry. Knowing well the ravages of rodents we purchased some Guineas for the farm. These birds are na-tives of East Africa and of a wild nalives of same arrea and or a bas to ture, a little smaller than a hen and beautifully colored in white and black, while their cry of "keets," black, while their cry of "keets," "keets," is romantic. They soon be-came wonted to the place and roamed the fields and wood lots.

Guineas are quite hardy and the hens are most prolific layers. I have found nests securely placed in the woodlot containing 30 eggs. We al ways allow them to carry on natural incubation, but there is no reason why the eggs should not be gathered and hatched in an incubator, thus insuring large flocks of Guineas for the markets. They are quite popular as markets. They are quite popular as substitutes for game birds, since they proyide a supply of poultry for the table in the interval that comes between the time game is out of season and that before chickens arrive at maturity. They are oftenest sola at the weight of a pound and fetch good prices

It is a delightful sight to see a mother guines appear in the barn-yard with 25 or more little toddlers running after her. The birds are of a wild nature, but ours come up each day to feed with the hens. They forday to feed with the hens. They for-age far afield. I have heard them in our fartherest fields! They eat an astonishing amount of weed seeds and pick up inestimable quantities of insects of various kinds and are an asset to any farm for they glean where the hene nearest if where the hens never go. If a house is provided for them with secluded nest and some high roosts provided, and they are fed every day in these quarters, they will stay at their house and bring their young there. Once the little ones get their bearing they may be depended upon to look out for themselves

Guinea eggs are a little smaller than those of hems, but they are beautiful and of a good flavor and may be served on the table and used in cooking, in lieu of hens' esgs, and

## FARM AND DAIRY

are very good, and since Guineas lay so many more eggs than the com-mon hens and it requires much less food to maintain them on account of their wanderlust, it is the part of wisdom to include a few of these in your flocks.

was in the city for Easter and my friends took me to church. We had just nicely got seated when a woman and her husband and children came in and occupied the seat just ahead of us. The woman had on a large black velvet hat and lo! the mple and only ornament was a wide band of overlapping Guinea feathers encircling the crown. It was nobby, suitable and becoming just from simplicity.

cannot be certain that Guineas really scare away rats or if it is the cats that keep them cleared off, but I do know we like to have the Guineas about. They, together with the doves that occupy a large dove-cote in the gable of the barn, provide many a dainty for the table at very little outlay or trouble on our part.

## THE FARM HORSE

#### Working Brood Mares in Pairs

A BROOD mare in harness makes extra work and bother for the driver when nursing a foal. Some A stirk work and yound to be driver when nursing a foal. Some time is lost dealing with the youngster store innoving the mark. Two marks for the store that the store of the reason that be to be a store of the with little if any moles are stated with folds are to ignore it in the store with folds are to ignore it in the pair in the middle of each half day while the foals are small. Some other team can be sont on the long trip that keeps the outfit away from hone from morning until night. It is hard on a foal to have the mark gone other team on the a tedious task to milk the mark out at noon.

If a man plans to raise one foal next year he might just as well plan for two year at hight part as well plan or two if he has another mare that he can breed. On farms where a number of mare, are kept there is little frouble about it. The mares that settle and about it. The marses that settle and produce foals may be worked together in pairs, threes or fours as the work may require from time to time. Then the best man with foals may have charge of them. Handled in that way, the feals make so little artra work that the flat operations are not ap-profer attending to the marse with prefer attending to the mares with foals because of the interest he would

The usual socking period is five months during the busiest time of the year. Toward weaning time the foals take care of themselves very well if turned to feed and water, and fre-Luffield to reed and water, and re-quest nursing is unnecessary. Count-ing up the cost of management for the whole time it is really almost noth-ing if the mares are paired off with each other and given eitable and pad-dock accommodations convenient for handling thend and their focale. Breach handling them and their foals .- Breed ers' Gazette.

#### His Luck

A YOUNG farmer in Eastern Canada (that is near enough to his address for present purposes), is al-ways complaining of his hard luck with horses. On his farm of 150 acres he works five horses. For the past five years he has lost at-least one horse each year, and it is a usual thing for him to have a horse or two Ling for him to have a horse or two sick and out of commission. It is ex-pensive to have horses doing nothing novadaya, and it is even more expen-sive to have them dying for no appar-sive to have them dying for no appar-ent reason whatever. His hard lack with horses is holding this young fermes held young farmer back.

This same young man has neighbors whose horses are always fit and ready for work. Their good luck with August 8, 1918.



ed Merchant, Deceased.

The Toronto General Trusts Corpora-Executors and Trustees of the above estate, will receive

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of isading varieting, and the property and the second seco

A very similar sort of equipment in that described above is owned by a meighbor, and is described in the "Farm and Dairy" Journal for the 9th May las as "A Model barn for a hundred-acre form."

<sup>a</sup> "A Model Barn for a bundred-act, The farm is now under the monstr-sent of a very establis foreran, whi abilit continue in such espaces of the farm as "going engement," insume the said as "going engement," insume the said as "going engement, "insumit he said as "going engement," insume the said arrangementation are being made to con-wy presemptive parchasers to the Armerice ensuits and a said the said and the said of the said of the said and the said of the said of the said and the said of the said of the said and the terminal density for the said the terminal said the said the said the terminal said the terminal density for the said the terminal said the said the said the said the said the said the terminal density for the said the said the terminal density for the said t

m. model Ottawa. 16th July, 1918. E TORONTO GENERAL TRUSTS CORPORATION, Executors, 30 Eigin Street, Ottawa, Ont. THE

## August 8, 1918.

orses is as consist farmer's luck is bad.

It is just a matter attention. A horse, thrives when it is com and well and regularly who complains of his 1 never regarded his he makers in the same wa his dairy cows. They and miss attention. grain on hand they g was none around, oh matter for a few day pastures were good horses when they we stables. Minor ailmen attended to and if a y called at all it was wh as good as dead.

Horses are on an up will be a long time b any cheaper than they farm teams deserve the tion and hit and mis-sure to bring "bad luch

> Pork Restrictions CANADIAN Press

A Ottawa on July the restrictions on tion of pork reads as for "The Canada Food

moved temporarily the the consumption of po tion has been made p pork production and conforts in Canada and the and the Food Board's to-day, provides that I bacon and any part of th be served at any time in places operating under Roard Hcenses.

In making this anno Food Board stated tha of conservation meas creased production, ne pork from the Domini increased by 125,000,00 annum, which is an in per cent over a five average."

Field N By "Mac."

Silo Filling Gangs N the dairy districts ern Ontario, the fillin is one of the biggest which the farmers have am interested in the th idea, but it is silo fillin we need more in this marked Mr. John Sim farm adjoins the village in Norfolk county. "I men to fill our siloes th

thresh our grain and f addition. We require 1 altogether at silo filling would be glad to pay th involved in the gang met involved in the gang met if we could get the gan mons' silos were illustr cent issue of Farm and cement silo for winter f smaller stave structure mer months.

. . . WHEN calling on M I dropped in to ge bor, Mr. George B lives a mile or two away to Tillsonburg. I have Ryan ever since he star his grade Holstein cows test at Guelph, always ca a good share of prize mo year capturing the sweep At the time of my visit M milking eight grade cows have passed for pure-br anywhere, and he expec milk cheque for June v tween \$240 and \$250. Al these cows were sprin. That one cow had been i the previous fall, had p tween \$240 and \$250 we in the meantime, and wa

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# SALE

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TRUSTS

August 8, 1918.

horses is as consistent as the first farmer's luck is bad. Why the differ-

It is just a matter of good, regular attention. A horse, like its driver, thrives when it is comfortably housed and well and regularly fed. This man who complains of his lack of luck has never regarded his horses as income makers in the same way as he regards makers in the same way as he regards his dairy cows. They have gotten hit and miss atlention. If there was grain on hand they got hit. If there was none around, oh well, it didn't matter for a few days. The dryest pastures were good enough for the horses willow all more all more around attended to and if a veterinarian was soluted nail it was when a horse was called at all it was when a horse was as good as dead.

as good as dead. Hores are on an up market and it will be a long time before they are any cheaper than they are now. The farm teams deserve the best of atten-tion and hit and miss methods are sure to bring "bad luck."

## Pork Restrictions Removed

CANADIAN Press despatch from A Ottawa on July 31, cancelling the restrictions on the consump-

tion of pork reads as follows: "The Canada Food Board has re-moved temporarily the restriction on the consumption of pork. Such acthe consumption of pork. Tuch ac-tion has been made possible by the pork production and conservation ef-forts in Canada and the United States, and the Food Board's order, passed today, provides that pork, including bacon and any part of the carcass, may be served at any time in public eating places operating under Canada Food Roard Hcenses.

In making this announcement, the "In making this abhouncement, the Food Board stated that as a result of conservation measures and in-creased production, net exports of pork from the Dominion have been increased by 125,000,000 pounds per annum, which is an increase of 571 per cent over a five year pre-war average."

## Field Notes By "Mac."

#### Silo Filling Gangs Needed

Silo l'illing Gangs Needed of the dairy districts of aouh-west is one of the bigset problems with which the farmers have to deal. "I am interested in the threathing gangs idea, but it is silo filling gangs that we need more in this district.".-re-marked Mr. John Simmons, whose marked Mr. John Simmons, whose marked Mr. John Simmons, whose north county. "It takes and north county." threah our grain and five teams in addition. We require 15 to 17 men altogether at silo filling time and 1 would be glad to pay the extra price would be shal to pay the extra price involved in the gang method of filling if we could get the gang." Mr. Sim-mons' silos were illustrated in a re-cent issue of Farm and Dairy; a large cement silo for winter feeding and a smaller stave structure for the summer months.

. . . WHEN calling on Mr. Simmons, I dropped in to see his neigh-bor, Mr. George B. Ryan, who lives a nile or two away on the road to Thisonburg. I have known Mr. Ryan ever since he started to enter this grade Holstein cows in the dairy test at Guelph, always carrying an ay test at Guelph, atways carrying away a good share of prize money, and one year capturing the sweepstakes itself At the time of my visit Mr. Ryan was milking eight grade cows which would have passed for pur-bred Holsteins anywhere, and he expected that his milk cheque for June would be be-tween \$240 and \$250. All but one of these cows were morther freshend these cows were spring freshened. That one cow had been milking since the previous fall, had produced be tween \$240 and \$250 worth of milk in the meantime, and was even then

FARM AND DAIRY giving more milk than any of the fresh cows. I find that dairymen with cows of the calibre of those owned by Mr. Ryan do not worry particularly about feed bills.

M R. Ryan, during my visit, which lasted only half an bour, gave me an excellent example of the before the cows in the stable. Last white Mr. Ryan's water system, as farma in the on bundreds of other farma in the on bundreds of other the tank taself yas dan froze up and the balance of the task of the task were watered outside. When the most of them had freshened Mr. Ryan began to put a little water in the tank began to put a little water in the tank began to put a little water in the tank night and morning and the cows im-mediately began to come up on their milk. "There is no question but that a water system pays and pays well," concluded Mr. Ryan.

A per weeks ago in Farm and Dairy I told of how Mr. McKil-lican of Maxville, almost met his iteath at the hands of a "gente" built I have heard of similar cases since Mr. Malcolm Morrison, a member of the Southern Counties Ayrshire Breed, are in the hand had beet even ers' Club, went to the field last sum-mer for a two year old bull that had ars' Club, went to the field last sum-mer for a two year old buil that had always been regarded as good natured and harmless. On that particular and for sever, in built turned on him and for sever, in built turned on the results of the encounter. Mr. Jack Simmons in Norfolk county had a similar experience. He was leading a partectly quiet buil from one barn the rough with a rope runa through the second with a strong run hrough the second with a strong run hrough and then he charged and got Mr. Sim-mons down, and it is a miracle that he escaped with his life. The more I see and hear of "gentle" builts, the more certain do I become that the only safe course is to remember that "a built is a built and never trust them an course is to remember that "a bull is a bull" and never trust them an

WWE have Hydro for almoss ev-erything now." remarked Mr. M. L. Haley, when I dropped in to see him on his up-to-date. fam home at Springford. "It is a through the set of the set of the through the set of the set of the through the set of the set of the from the dining-room, and lights

through the yards which can be switched on or off from either the barn or Ine house. We can even turn on the lights in the barn before we leave the house and switch them off samin a found error or house." I found the the barn here weaks to see with signalic a boar, here weaks to see

enthusiastic about her washirg-ma-chine and wringer, both operated by a small motor connected with hydro-elec-tric power. This outfit has almost completely eliminated hand work. "Do you wonder that wash day has lost its terrors for me?" asked Mrs. Haley as terrors for me?" asked Mrn. Haley as we watched it noperation. Outside the house a one horse power motor pumps all of the water required on the farm, and runs the emery wheel and other small tools. The pump comes in particularly fine in creding the milk, which is run over an avarate and cooler. And I must not forget to mention the lossiter and electric iron mention the lossiter and electric iron of ironing day. of ironing day.

W<sup>HITE</sup> turnips for fail feeding are creatly favored by Mr. A. C. Hallman, of Waterloo Co., Ont. When I visited Mr. Hallman the last week of June, the white turnipa "I like to give the showing above the ground, "I like to give the silage a chance to mature and develop that, peculiar flavor which is so acceptible to the cows before I open the silos at all," remarked Mr. Hallman. "It is here that white turnips fill an important place. I feed them tops, roots and all, and in the late fall, when otherwise I would have to be feeding ensilage."

#### Financing Western Wheat

REPRESENTATIVES of the grain, milling and banking interests had an interview today with Sir Thomas White, Minister of Financo, and Hon. T. A. Crerar, Minister of Agriculture, respecting the matter of financing the wester wheat crop. EPRESENTATIVES of the grain,

As a result of the interview the question of a fixed price will immedlately be taken under consideration by the Grain Commission. The matby the financing will be taken up by the Minister of Finance with the Imperial authorities and the Bankers' Association. It is likely that to give financial and commercial stability to the grain situation the Gov-ernment will give its guarantee of the fixed price upon the whole of the new crep. This will enable the banks to extend the needed credits to grain and elevator firms so that buying may promptly commence when the grain is ready to move.

(7)

Is ready to move. Among those present at the con-ference were: E. L. Pease, Sir John Aird, C. A. Bogert, H. B. Mackenzie, Jr. Magill, W. R. Bawit, Frank Fow-ler, W. A. Black, E. W. Kneeland, F. W. Young, B. Winans and others.

#### County Wants Auto Moneys

HE County Council of West Peter-borough has approved of the fol-

Dorough has approved of the tor-lowing resolution: Moved by Mr. Webster and second-ed by Mr. Acitnesh..."That this coun-cil memorialise the Provincial Govern-ment to refund the counties the money collected as automobile licenses, to be expended on the main roads of the different counties."

A copy of this resolution has been sent to all the county clerks in On-tario to be read to the different county councils. The stand of the Peter-borough councillors will be better un-derstood when it is known that Peter-borough county has not cover borough county has not, as yet, adopted the county good roads system,

#### A Cheap Cream Cooler

W HEN the temperature of the well or spring water is not iow enough to cool the cream and it becomes necessary to use ice and a cooler, a device that is used by

an Arizona dairyman comes in handy. He takes a common glass fruit jar, quart size, and fills it with cracked for. The jar is then sealed and plac-ed in the strainer, which in turn is placed over a tengallon can. The can with the strainer and the jar of ice is set under the cream spout of the separator in such a way that the cream strikes the jar of ice on the Crean strikes the jar of ice on the side and near the top, spreading over a considerable portion of the jar. As the ice mells the water naturally forces the small pieces of ice to the top so that the crean always strikes the part of the jar that is coolest.

The dairyman stated that a quart jar of cracked ice was sufficient to cool the cream from a dairy of fifteen or twenty cows to keep it sweet for delivery.-M. E. B., in Country Gentleman.





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## FARM AND DATRY



Is the Corn Binder in Shape? Prof. John Zvans, O.A.C., Guelph, Ont.

Prof. down zwans, O.A.C., Gueipin, Ont. The adoption of improved farm machinery has reduced the cost of production on the farm in much the same propertion as high apeed machinery has reduced the cost of production in the modern factory. The efficiency of both has been raised, hit who halinesy than is a full as money. The efficiency of both has been raised, but we believe there is at all an oppor-tunity for greatly increasing the effi-ciency of the average farm without raising the cost of production or low-ering the farmer's profile. The first requisite in this direction The first requisite in this direction the first requisite in this direction of the first requisite in this direction of the first requisite in the first sector of the sector of the first sector of the first sector of the first sector of the first and machiners What same implements

and machinery. What if we do have the best corn crop in the province if our corn binder breaks down at every turn of the field. The fact that small pro-fit in farming is the general rule and not the exception may be very largely attributed to the annual waste in farm attributed to the annual waste in the machinery due to want of proper care of farm equipment. To reduce this anual waste in farm machinery proper housing and intelligent and timely pairing is necessary. Good housing reduces deterioration from the action of the weather, while frequent and systematic overhauling and olling re duces breakages to a mir 'mum and the losses due to the stoppage of work at busy se

A Corn Harvester Necessary.

To handle the corn crop expeditious-ly, economically, and successfully some kind of a corn harvester is an absolute necessity, and it must be in good working order. Various cheap machines have been tried and found wanting, but the corn binder has become a permanent fixture on a large come a permanent fixture on a large number of farms in this province. There are several kinds of corn bind-ers on the market, and while each kind may have its special merit as to the arrangement of its essential parts, trouble must arise if these parts are not properly cleaned, oiled and kept in nt

The advancing part of the corn bind-The advancing part of the corn bind-er consists of two diverging jaws which may be raised or lowered by an arrangement of levers. Attached to each jaw are two or three travelling cach jaw arv two or three travelling chains furnished with fingers. Their function is to convey the stalks to the binding deck in an upright position as the maci.ne advances. The chains should not be too loose as they will ride the teeth of the sprocket and slip down the teeth. With machines has down the teeth. With machines hav-ing packers—to prevent ears being knocked off by jamming thy stalks be-hind the needle—see to it that the packers yield slightly while the bundle is being tied. Too many bundles crowding the carrier will interfere crowding the carrier will interface with the binding attachment properly freeing itself. The knotter and the needle cannot do their work efficiently when covered with rust. Polish them with fine emery cloth. If the knife of the knotter is dull, sharpen it or it will cause trouble by pulling the twine from the hook before the knot is made. As it requires considerable power to cut the sappy stubble and not tear it Cut the sappy stubble and not tear it up by the roots, the knife should be thoroughly keen, otherwise it will clog with grass and weeds. The stubble cutter should also be kept in good con-dition. It is a usoful device, and when rightly sharpened and adjusted does not add very much to the draft.

Superficial Examination Not Enough Superficial Examination Net Enough Do not depend on a superficial ex-amination of the machine to acquaint yourseif if it needs repairing, because if you do, you will surely miss some small, but yital part needing attention if not replacing. If these break dur-ing the husy season they will cause greater breakages and serious loss.

Clean the machine theroughly with benzine, gasoline or kerosene, go over every part of the machine, and while doing this you will locate loose bolts and worn or broken parts. Oil holes and wells should be cleaned out and

new wasts, if z-quired, put into the wells. Rolll the greese cup; in short, renew and repair anything and every-thing that requires attention. The time of the year to do the general vertices of the second second second vertices of the second second second pressing, but if in cetter work is not pressing, but if in cetter work is not it must be done now.

Wintering of Grasshoppers O grasshoppers die in the fall or live over to the next year.-B. C. Que. D The eggs of grasshoppers are de-posited freely in packets or pods in old neglected pastare lands along roadsides, etc., in spots where the soll is dry and largely free from vege-

tation. These eggs are deposited in late summer and aut. m. Young locusts hatch about May of the following year. All living grashoppers die by the latter part of September.

#### A Market for Linestone

A Market for Linestone W OTLD it is a good investment of think a line kin. I have all the independence on my farm and the line-ter investment to buy a stone crusher and erush the score? I have a 6 ho-prushed linestone or the line with the score and the score of the sc

than bornt lime, when applied for agri-culture, jurposes. I think there is no doubt o' this point. The Allis-Chai-mers Company, of Milwaukce, with an office in Toronto, handle crushers made purposely for this work. Here-tofore crushed limestone reck has been sold for \$2.50 to \$3 a ton in bags. one firm coming into the market now state that they will sell under \$2 a ton in bulk. This would be f.o.b. point of shipment. I think that we should try as much as possible to get this material shipped in bulk to save cost, and I believe the time will come when we can buy it for \$1.50 a ton in this

Regarding sale, it all depends up Regarding sale, it all depends upon the nature of the soil in the neighbor-hood. If the soil is in need of lime there ought to be no difficulty in sell-ing the product. The Ontario Government have bought a small crusher, presumably of the type that Mr. Camp-beil would want and have it installed at the Penitentiary at Kingston, grinding rock for experimental purposes. If Mr. Campbell intends going into the business it would pay him to look over the work which they are doing there.—Prof. R. Harcourt, O. A. C., Guelph, Ont.

#### The Young Bull

HE bull calf should be separated

from the heifers at about four I from the heifers at about four months of age. His treatment and feeding should be identical with that of the heifer except that to get haximum growth he should receive a little larger quantity of grain. If properly handled, the young bull is ready for light service at the age of from 10 months to a year. Too much service before he is two years of age service before he is two years of ago will do him permanent injury, which, of course, should be avoided. It is important that he be properly trained to halter, as this will make him much easier to handle when he is old. At six months of age a ring should be put into his nose.

Among some breeders it is the practice to remove the bull's horns at two years of age. It is asserted that this tends to tame him and prevent him from becoming vicious. One thing that should always be kept in mind is that exercise is essential to the pro-per development of a young bull and per development of a young bull and to the health and vigor of a mature one. A small paddock, with a shed for protection against stormy and windy weather, will give him room for plenty of exercise and keep him in good condition. Two bulls, if dehorn-ed, may be kept together to advantage, as they exercise each other. Pre-cautions should be taken to see that each receives his proper portion of food.





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August 8, 1918.

## On the Bould

work are you? I bell very unhealthy." My re if they are going to h will have to work at y threshing, and they mi out right now what it

After it was over, After It was over, pather under the weat Houck thought it a goo up the old subject aga and found that they w than ever filled with th In telling me of 4t, Mr. tald them, Well, I gue It. To Cornell you'll be the two oldest boys we vonuere foo also took th vounger son also took th and alco wished to follo end of the business of necessitated the enlargi added to the holding, un farm of 750 acres star block with three sets of

#### The Herd

Early in their farm of boys displayed a liking stein cow. Their foun breed were two cows p J. W. Richardson, of C. of these, Jemima Johan side, has given them sin the the firm of my least At the time of my last cow was under test and cow was under test ann days previous to my v over 30 lbs. butter an malk. She had given 11 in one day and was the months in milk, giving per day. Though havin, erable soven-day work, now running this cow their first attempt at to have here a very in 60 da she has given in 68 da lbs. of milk. Her only ter has 29.30 lbs. at five over 100 lbs. milk in o her next has a 23-lb. record. She has also a year-old daughter, two daughters and three daughters in the herd. was Johanna Rus Lura holds the world's record three-quarter udder. T three-quarter udder. The for the daughters in the h

a 25-lb. four-year-old rec In addition to the profoundation cows, the been careful buyers at

anction sales on both sid They have now a 31-lb. who far a few months he record in her class. This in calf to Mr. Cabana's F Great. A few of the oth are a 32-lb. junior four-y to Uniform Lorena, the fe record three-year-old, a 1 old, both bred to the sa two daughters of Field's King Pontiac Korniger. also a daughter of Ormst whose dam is a daughter the Eighth.

They also bought a gran They also bought a grau King Segis Champion, in of Fairview Korndyke M and two heifers sired by F Eighth. They have a yee tor of Sir Veeman Hen has more 30-lb, daughte ther built now Heine set other bull now living, ar daughter of the \$40,000 Mighty Monarch. The b individual from the 28.34 old, Uniform DeKol. Th grand-daughter of Vikama world's record 14-year-ol dam of the 50-lb. cow. T purchased at the consign 'aris last fall.

The herd now numbers of which are at present p young herd sire is worthy He is a son of Rag App Sth, and Orchard Grove A 3.8.1b impice a 38-1b. junior four-year-of King Segis. Thirty-ein now in calf to this sire. feature of the farm is th of about 20 heifers in t which appeared to be of ing type. When the your on the farm and the prog

ust 8, 1918.

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natied on CO., LTD , Calgary.

## FARM AND DAIRY

## On the Boulevard of Beautiful Niagara River

(Continued from page 5.)

(Continued fr work are you? I believe the dust is very unhealthy." My reply was, "Voll, if they are going to be farmers they will have to work at worke jobs than herehing, and they might as well find enter." like

IRe." After 11 was over, they did feel rather under the weather, and Mr. Houck thought 11 a good time to bring up the old subject again. He did so, and found that they were both more than ever filled with the farming idea. In telling mo of 44, Mr. Houck said, "I taid them, Weil, I guess that settles it. To Cornel poul both go." When the settle and the settles it. To cornel poul both the proxideal and also without to follow the proxideal and also without to follow the proxideal and also without to enlarge of the farm, so bit by bit eight lots altogether were added to the bolding, until now the big settles. added to the holding, until now the big farm of 750 acres stands in a solid block with three sets of buildings.

#### The Herd.

Early in their farm experience, the boys displayed a liking for the Hol-stein cow. Their foundation in this breed were two cows purchased from J. W. Richardson, of Caledonia. One of these, Jennima Joharnat of River-ide, has given them six heifor calves, the time of my last visit is he did of these, Jemims Johanna of River-dich has given them six heifer calves. At the time of my last visit the old cow was under test and in the seven days previous to my visit had made over 30 lbs. butter and 750 lbs. of milk She had given 113 lbs. of milk in one day and was then, though two monitors in milking for the boys are proble sever more visit to boys are over unning this cow in R. of P. their first attempt at this work, and he has given in 68 days over 5,000 lbs. of milk. Her only mature daugh-ter has 59.30 lbs. at five years old and over 100 lbs. milk in one day, while her next has a 23-lb. three-year-old record. She has also an 18-lb. two-year-old daughter, two other grand-daughters in the herd. The other cow was Johanna Rus Luraher 2nd, who holds the world's record (for milk) for three-quarter udder. There, are two al her daughters in the herd, one with a 5bb. courseared record. a 25-lb. four-year-old record.

a Selb. fouryear-old record. In addition to the property of these fundation cows, the Hourks have been careful buyers at the various auction ailes on both sides of the line. They have now a 31.4b. two-year-old, who for a few months held the world's record in her class. This helfer is now in call to Mr. Cabana's Rag Apple the Urat. A few of the other good ones are a 52b. junior fouryear-old sister iorcent threy-ear-old, a 15.1b. reworld's record there-period, a 15.1b. reworld's record there-period, a 15.1b. reworld's no daughters of Field's 35.600 buil, King Fontiac Korniger. They have also a daughter of Ormsby Jane King, whose dam is a daughter of Rag Apple the Sighth. the Eighth.

There also bought a granddaughtor of King Segic Amampion, in calit (o a son of Fairview Koradyke Mag, 4, 1) and two believen sized by Rag, 4, 2) Bighth. They have a yearling daugh-ter of Sir Veeman Hemperveid, who has more 30-1b. daughters than any other bull now living, and a son and daughter of the \$40,000 bull, The Mighty Monarch. The bull is a fine individual from the 28,34-1b. four-year-old, Uniorm DeKol. There is also a grad-daughter of Vikama Johanna, the world's record, 14-year-old cow, and They also bought a granddaughter of world's record 14-year-old cow, and dam of the 50-lb. cow. This cow was purchased at the consignment sale at aris last fall.

The herd now numbers 25 head, 22 ef which are at present multime. The young herd sire is worthy of as. Mon. He is a son of Hag Apple Korndyke Rh, and Orchard Grove Anhurn Begis, a 33-b, Junior fouryear-oid daughter ef King Segis. Thirty-eight head are now in call to this sire. A noticeable feature of the farm is the fine bunch of about 20 heifers in the pasture, which appeared to be of the produc-ing type. When the young stock now as the farm and the progeny of their The herd now numbers 95 head, 32

present sire are a few years older we may expect some great records from

may expect some great recorus trum this herd. While the cattle are the main line of stock, they have also a strong side line in the form of poultry. The flock of R. I. Reds having been winners in line in the form of poultry, the flock have a strong outfit of horses, their favorite breed being the Belgian. Farm Life.

The a strong outfit or norses, their favorito breed being the Beigian. Favorito breed being the Beigian. Favorito breed being the Beigian. The Houcks appears to enjoy farm life. Two of the boys are married and Mrs. Houck, senior, live on the farm of the summer, Mr. Houck going to an to ensure the summer, Mr. Houck and the summer and t

provements yet to be made. The build-ings are practical but far from elabor-ale. No covered ditches have yet been put in, but it is well surface ditched. Necessary improvements will buys, and as the Holsteins pay the buys, and as the Holsteins pay the buys and a sub the distribution of the second and the stock will rank the farm and the stock will rank among the very best.

#### Fertilizer for Wheat

(Continued from page 4.)

work demonstrate that, with proper fortilization; larger crops may be grown from smaller areas and with reader profils. Prof. R. Harcourt, who has recently concluded a soil survey in Western Ontario and is now work-ing in Beastern Ontario believes that there are large sections of Ontario where the profile commercial fertilizers way of the order of the profiles of agriculture, and Frof. Har-court is plantist experimental fields in Ontario similar these now sections of the order to hose now operated in Illinois. There are some sections work demonstrate that, with proper in Illinois. There are some sections of Ontario where the soil is naturally deficient in phosphoris acid. In other delicatent in prosphores acid. In other sections lime is the missing ingredi-ent. In both cases experimental de-monstrations would be of immense value to the farmers in the districts affected.

The Dairymen's League of New York State has established prices for August and September as follows: \$2.70 for August and \$2.90 for Septem-ber per hundredwight of three per cent milk at 150 miles from New York, subject to the usual freqing and butter fat differentials. The 1915 price is, therefore, 35c, per cwt, more than last year in August and 45c.-more than in Beytember.



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What Others Have Done You Can Do Wast UCRETS SIAVE LODIE TOU CAR LO Hear as the amount of during the of the boys and girls to whom we have recently awarded hig prise. Bottom Pour Destroit Hysens, Harmonov, Saak. 900.00 Cash, Lofe Bonson, Hamilton, Oct. 900.00 Cash, Lofe Bonson, Hamilton, Ott. 900.00 Cash, Lofe Bonson, Hamilton, H

Send Your Answers This Very Evening! ers This Very Evening: Only boys and giris under 16 years of acc may send nanwers and each boy or girl desiring his entry to stand for the awarding of the guired to perform a small service for us for which an additional val-uable reward or special cash prise will be giree. The Context will close on



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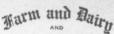
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## The Drift of Population

CCORDING to figures supplied by the Canada A Food Board not more than thirty out of every one hundred workers in Canada are found in farming occupations. In 1891 approximately fortysix out of every one hundred workers were on the farms engaged in agriculture. In 1901 the percentage had been reduced to forty. In 1911 to thirtyfour, and to-day to thirty in one hundred.

The comparison is even more striking when we consider the proportion of the urban and rural population in Canada. In 1881, or only thirty-seven years ago, only fourteen per cent of the population of Canada lived in cities. By 1891 this percentage had increased to thirty-one; by 1901 to thirty-seven. and in 1911 to forty-five decimal five per cent. "Today fully one-half of the population of Canada is urban," states the Canada Food Board. "Canada, with one-thirteenth of the population, is almost as highly urbanized as the United States."

These figures, coming as they do from a reliable source, are highly significant. They explain some problems that seem to be vexing many of the farmers' critics and self-appointed advisers. They explain the farmers' objections to the drafting of farm labor, which, it seems, has already been reduced to the point where, in this agricultural country, less than one-third of the workers are actually on the land. They explain why production has not been speeded up, as it might have been, to meet the high pressure demands for food stuffs. Finally they afford conclusive evidence of the disabilities under which agriculture has labored; such disabilities that the city population has doubled and trebled while the farm population has actually been decreasing. And yet in the face of evidence as conclusive as this the Canadian Manufacturers' Association dares to ask for a continuance of the privileges that have been depopulating rural Canada. The granting of the demands of the manufacturers would be shortsighted statesmanship. Rural Canada has been explotted altogether too long by public policies which

gave urban industry the first consideration. It is time to call a halt.

## Butter Fat or Camouflage

T is gratifying to note the growing tendency to state a cow's producing ability in terms of butter fat rather than in estimated butter. In this the Ayrshire breeders are leading the way. Fanciers of the Scotch milch cow have practically abandoned the old 85 per cent basis of estimating butter, and speak wholly in terms of fat. The Holstein men adhere more strictly to the 80 per cent basis of estimating butter. In the Jersey breed it is a case of "confusion worse confounded," as fanciers of the breed are variously using the buter fat, 80 per cent and 85 per cent standards. C. N. McArthur, a United States breeder of Jerseys, illustrates the confusion that arises from this triple method of expressing production by reference to the cow St. Mawes Poppy, which produced 952.28 lbs. of butter fat, 1,120.32 lbs. of 85 per cent butter, or 1,190.35 lbs, of 80 per cent butter. "Is she a 952 lb. cow, a 1,120 lb. cow, or a 1,190 lb. cow," asks Mr. McArthur. "How can the breed maintain a common basis of understanding as to records when three sets of figures are being used in advertising and publicity matters?"

After all, is not computed butter a bit of camouflage on the part of breeders? Is it not an attempt to make a cow's production look big to prospective buyers and the interested public? Computed butter may have had its justification when the major portion of the milk of the country was made into butter in the home dairy, and the every-day, practical, dairy farmer thought of production in terms of butter. At the present time, however, butter fat is the market standard for the product of the cow. Cream is sold to the creameries on the butter fat basis; the condensary is paying on the basis of the butter fat test; many cheese factories are paying by test, and it is not far in the future before all will be doing so. A change by breed societies to the commercial standard would do away with a lot of misunderstanding, and even if it would depose a lot of thirty, forty and one thousand pound cows from their elect positions, it would at the same time simplify and rectify dairy publicity.

#### Canned Milk vs. Can Milk RITING under this heading in Hoard's Dairyman, Helen S. K. Willcox calls the attention of city milk producers all over America to a rival which may undermine their whole business. An illuminating paragraph from this letter follows:

"As we are well aware, the consumer balks at paying from twelve to sixteen cents a quart for mil That she balks not wisely but too well does not help matters in the least. But she must have milk -a certain quantity, and incidentally that which she cooses is uniform in quality and always good She finds her answer on the shelves of the corner She finds her answer on the sherves of the volume grocery—and her bothersome milk problem is ef-ficiently solved. 'Once used, always used,' cries Mrs. Housewife with a sigh of relief. Many million Mrs. Housewife with a sigh of relief. Many women have found this to be true and the famil cow is purchased by the dozen or box-and the milk bottle disappears from a shocking number of back stoops all over America. It's surprising but true." Our own observations are startlingly in accord wilk those of this New York woman. We have seen the space devoted to canned milk in our grocery stores constantly enlarging and the numbers of buyers who order canned milk regularly just as constantly on the increase. Condensed and evaporated milks are rivals that milk producers and their organizations will do well to take into consideration. Is the willingness of the great Borden Milk Company to sell its bottling and distributing plants in New York State an indication that they see the trend of consumptive demand and intend hereafter to give all of their attention to the condensing end of their business? And does this mean, in turn, that producers' organizations will be well advised to move slowly in making great expenditures on distributing plants of their own? Improved quality of can milk and economies in distribution may hold the consumption of canned milk in check, but from now on this dangerous rival of the city milk producing business must not be overlooked.

### **Tests and Tests**

C OME years ago an Eastern Ontario dairy farmer determined to make a reputation for his Holstein herd through the instrumentality of the Record of Performance test. For several years he had cows running continuously in yearly test work. He made excellent records and proved that he had in his herd some of the best producers of the breed in Canada. At the present time there is not a cow in this herd on yearly test, and, so far as we can learn, this breeder has no intention of again entering cows in Record of Performance. Instead, all of his cows and heifers are being subjected to short. time official tests.

A few days ago we visited one of the many good Holstein herds in Western Ontario. In this herd, too, Record of Performance had once been the popplar test. Here again there are now no cows entered for yearly work. Several of the cows, however, have been subjected to seven-day official tests with very creditable results and hereafter Record of Merit work is to be followed exclusively.

Both of these men have switched from yearly to short time record work for the same reason, there is more money in it. The great demand and the high prices for Holsteins nowadays are for cattle with R. O. M. tests or backing. No one pretends to claim that a seven-day test is as good an indication of a cow's commercial ability as is the yearly test. There is a very general suspicion that the short-time tests are more susceptible of manipulation by skilled herdsmen. And in the long run, it is the utility test that must win out. Breeders who follow the test and will sell their stock, however, can hardly be blamed for catering to the public da mand. But are Holstein fanciers as a body not making a mistake in stressing R. O. M. tests at the expense of R. O. P.? This is a question that every man who holds the good of his breed at heart should ponder carefully.

#### Work and Fight (Country Gentleman.)

HE necktie-counter clerk, the elevator runner. the club doorman, the butler, the burglar, the

pool-room loafer, the barroom bum - all the rest of the "non-essential" lads, as Provost Marshal General Crowder calls them-can pick their own jobs-soldier, sailor, shipbuilder, munitions worker, anything that is either work or fight-one or the other

But the farmer has no choice. He must do bothwork and fight. He must work to grow crops in the face of such handicaps as he has never known before. He must fight to keep them from his everpresent, ever-busy enemies-the bugs and the blights, the weeds and the weevils, the storms s d the droughts.

Nobody is pinning any medals on the breast of that Middle-Western farmer who sat on the seat of a tractor for twenty-two hours at a stretch-and plowed in one day as much as two horses could do in a fortnight. Nobody has cited for meritorious service that Eastern farmer who overplanted his wheat acreage because the Government asked him to, and now has to harvest it with the help of one high-school boy. Nobody has even printed the pleture of that man who with his wife alone is milking eighteen cows and caring for a hundred and sixty acres of crops, fighting a gallant defensive to bring them through to harvest. These are the usual incldents of 1918.

The blistering, backbreaking toll of these men, and of millions like them, can be measured in no simple terms of shop hours, and though in their battle no bullets are flying they must fight on, for hunger and starvation are entrenched across the no-man's land of winter snows. Their sons have enlisted and are fighting in France. Their hired men have gone to work in the munition factories and shipyards. But the farmers themselves are right on the job at the old place, backing up their absent ones and cheerfully carrying the double and triple burden of work.

Work or fight? Heavens and earth, that's a cinchi The hard job-work and fight-is the farmer's!

#### August 8, 1918.

## Letters to t

Demonstration Pl F giad to see by t glad to see by the correspondent the are at last waking a and injustice of repo profit from small de farms. I firmly bel demonstrations are sible for the friction t country people at a should all work tog good of the country.

Such demonstration the truth of some th not be given out uni A short time farm. ment sent out a circu 70 per cent could be A recent article cuts per cent. It would be know the reason for profits in sheep raising half in a few months.

Our teachers all seen fal ignorance of the fa er must make a profi farm, that it is impos farm devoted to one account of weather, m keeping of labor stea certain number of carried, as one alone Now if this is so then on one line unless th shows a profit. It is Agricultural Departmen on small demc BOTE have the city people a average profits on a fa wonder that, reading a ports, the city man sho the farmer is a profitee kind?

The farmer is censu a poor business man, nothing so foolish as small plots and give it a his profits. Let the show us a system of boo is better than what we not all theory, but that been used on a farm t wages, interest and dep farmers should deman flood of "hot air" be stop when figures of profit a should include the entire farm after deducting in Victory Bond rate, taxe all concerned, depreciat a proper system of

had been insisted on the have been so many fair out by both the Provin minion Departments of and we would not have strained relations between country .--- G. F. Marsh, G

#### A Soldier's V

E DITOR, Farm and of our city editors speculating as to w "over there" will think of Canadian farmers in publicly against the rec tion measures of the These editors evidently lot of the boys "over t from Canadian farms and even better than the edh tion the hardships that th ders will impose. In a came under my notice, boys from a farm home fighting "over there" an burden of a big farm fell remaining son at home age. This son is drafted en given permission to copy of the letter which 8700 "over there" wrote he first heard that his bro danger of being taken fro It is as follows:

"In mother's letter date I hear for the first time of about H.- It isn't that

## st 8, 1918.

dairy farmer for his Hol-ntality of the eral years he rly test work I that he had of the breed is not a cow ar as we can again enterpstead, all of ted to short.

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a cinchi er'sl

August 8, 1918.

## Letters to the Editor

Demonstration Plots Questioned Demonstration . Plots Questioned Demonstration . Plots Questioned E DITOR, Parm and Dairy.--t an correspondent that the farmers are at last waking up to the injury and injustice of reports of excessive profit from small demonstrations on heating believe that these means relative believe that these means relative believe that these shows for the friction largely respon-shows the shows the show good of the country. Such demonstrations tend to show

the truth of some theory but should the truth of some theory but should not be given out until proved on a farm. A short time ago the govern-ment sent out a circular stating that 70 per cent could be made on sheep. A recent article cuts it down to 38 recent to would be interested as per cent. It would be interesting to know the reason for a reduction in profits in sheep raising of nearly onehalf in a few months.

Our teachers all seem to be in bliss ful ignorance of the fact that a farmer must make a profit on his whole farm, that it is impossible to run a farm devoted to one department on farm devoted to one department on secout of weather, marked and the keeping of labor steadily employed. A certain number of lines must be carried, as one alone will not pay. Now if this is so there is no profit on one line unless the entire farm shows a profit. It is unfair for the Agricultural Department to give fig-ures on small demcastrations and have the city people accept them as have the city people accept them as average profits on a farm. Is it any wonder that, reading agricultural reports, the city man should think that the farmer is a profiteer of the worst kind?

kinar The farmer is censured for being a poor business man, but he does nothing so foolish as to single out small plots and give it as evidence of his profits. Let the government show us a system of bookkeeping that is better than what we have, that is not all theory, but that has actually not all theory, but that has actually been used on a farm that is paying wages, interest and depreciation. The farmers abould domand that this fixed of 'hot air' be stopped, and that when figures of profit are given they should include the entire profit of the farm after deducting interest at say "livers Dand wala. is now wages for Wielder Bond rate, taxes, wages for all concerned, depreciation, etc. If a proper system of bookkeeping

had been insisted on there would not have been so many fairy tales given out by both the Provincial and Dominion Departments of Agriculture, and we would not have the present strained relations betwen the city and country .-- G. F. Marsh, Grey Co., Ont.

#### A Soldier's View

E DITOR, Farm and Dairy,-Some of our city editors have been speculating as to what the boys "over there" will think of the action of Canadian farmers in protesting publicly against the recent conscrip-ing manuers of the avergement. publicly against the recent conscrip-tion measures of the government. These editors evidently forget that a let of the boys "over there" come from Canadian farms and understand even better than the editors in que-tion the heights that the recent of the second aven better than the editors in ques-tion the hardships that the recent or-ders will impose. In a case which came under my notice, a couple of boys from a farm home are already fighting 'over there' and the main burden of a big farm fell on the only femalings can al bower of the only remaining son at home of military age. This son is drafted and I have been given permission to send you a copy of the letter which one of the boys "over there" wrote home when he first heard that his brother was in danger of being taken from the farm. It as fully It is as follows:

"In mother's letter dated May 7th, I hear for the first time of your worry about H.- It isn't that he is any

better than anyone else's boy or that there is any danger of any life in-juring him. It would probably do him good. There is much about it that he would positively enjoy and he isn't the sort of boy to be hurt by it. But notwithstanding this, it came as a shock to hear that there is a chance of his having to go. We haven't seen any Canadian sapers, so knew nothbetter than anyone else's boy of any Canadian papers, so knew nothany Canadian papers, so knew noth-ing of the new regulation. There must be many between the ages of 25 and 30 better able to go than some between the ages of 19 and 32, yet no provision is made for that, or for ex-ceptional cases. I look on 11. — 88 in a great measure recreased. ceptional cases. I look on H-- as in a great measure responsible for the support of our home. Father is get-ting too old to have to undertake hard work and Willie is only a boy. Left to those two alone, with iabor impos-sible, the farm will just have to silde. "It may seem unpatriotic, as this year is undoubiddly a critical period in the war; the line simply must be held--yet I shall regard it as griev-ously unjust as well as glaringly poor judgment if the and others as respon-

FARM AND DAIRY

judgment if he and others as respon-sible for the production of food are taken yet. As for H.- himself, it would have been the easiest thing in the world to have gone long ago. It was popular and honestly the army has great attractions to offer. If it were only he, I'd say go by all means. As it is, I don't like to think about it. If he goes the farm will just have to slide. In any case it's you who mat-ters, not the farm, and you must not ters, not the farm, and you must not attempt to do impossibilities. Seed the whole place down if you can't have help, look after the Holsteins and Plymouth Rocks, keep well and let everything else go till we come home. You can't grow wheat, fatten hogs and exitle and invest in Liberty Bonds without help or the farm. Go hogs and cattle and invest in Liberty Bonds without help on the farm. So don't work too hard, and above all don't worry. The war is going to be won alright and as long as you are there when we come back, nothing else matters in the whole blinking world." world."

I consider this letter a pretty good I consider this letter a pretty good answer to those who wonder what the boys "over there" will think about it. I credit them with common sense enough to know that farmers did not protest as decidedly as they did with-out having mighty good reason for their action.—R. S. P., Ontario Co.,

#### For the Rail Fence

- DITOR Farm and Dairy .- Several E articles have appeared in Farm and Dairy reflecting on the rall fence and lauding the wire fence. A fonce and lauding the wire fonce. A good webwire fonce of not less than eight or nine bars is a good fonce, all will admit, provided the farmer has the foc to 75c to pay for a rod of it. The six and seven-bar fonce is little batter than single wires, as it allows wheep and pigs to go through. A good rail fonce would, to the majority of Oid Ontario farmers, cost more than a s-bar wire, hence, probably, "sour Frapes." The most of the fances an Ontario farmers, cost more than a 9-bar wire, hence, probably, "sour grapes." The most of the fences on my farm are rail fences built of straight spruce rails or 'iongers," six rails to a panel, rails cut to a uniform length of 14 feet, worm or nagle, 3 ft. I have thousands of those rails grow ing an my want hot heat no batte ing on my wood lot. I want no better fence. I prefer this fence, for at least the first eight years of its life, to the the nrst eight years of its life, to the best nine-wire wob fence. Such a fence is horse, bull, pig and sheep proof. It is good, when well bullt, pickets well driven, vertically, in ground, and with galvanized wire weights, for eight years, and if cross-stakes are used in addition to the two vertical ythics to a space () through ens the fence greatly and prevents storms or very breachy horses from pulling it down.

pulling it down. I had a wire fence in part of the yard. My mother this spring made me pull it down and make a rail fence in its place, as her lambs and some of the breachy sheep were going through it. Now, with the rail fence, these (Continued on page 16.)

# You've no time to waste

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OST thou love life? Then do not squander time, for that is the stuff life is made of .- Benjamin Franklin.

## Her Happiest Vocation Etta Webb.

W <sup>1TH</sup> a sigh Hester dropped her book. It was useless to try to study longer. She must think about what was so troubling her. Of course she knew that there was no way out. Home and vacation meant one and the same thing for her. And she dreaded both. It ame to her unpleasantly that she was perhaps the only in the whole school who did not girl in the whole school who did not look forward to the fast approaching summer with eagerness and joy. But, then, that was not her fault. Whose fault indeed was it?

(12)

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"I've never been able to find out," she thought. "They haven't the knack she thought. "They haven't the knack of getting along at home someway. Of course I know that things will go bet-ter when I get to earning money by teaching. Then I can really begin to help. But now— oh, now! How am I ever going to live through such another vacation as the last?"

She sighed again heavily while her gaze wandered about the pretty room. Mentally she contrasted it with what awaited her at home. There were some things about the room that were althings about the room that were al-most invarious, but these had all been contributed by Janet. Janet was her room mate. For Janet to have a wish granted was as easy as crooking her little finger. It was almost as if she lived within constant communication with a future social these social states of the social states of the little finger. with a fairy godmother. "Lucky Janet." thought Hester,

wistfully

As if in response to her own name the door opened and Janet entered. She was smillag. "Good news, Hester!" she cried, waving a letter over her head. "For you?" There was a listles-ness in Hester's tone. She was not

expecting any good news.

"Yes, and for you, too." Janat dropped down upon the divan beside Hester. "Listen! In my last letter home I asked mother if I couldn't inyour a maken motner if I couldn't in-vite you to spend your vacation with me. And she's written to say I may, Hester!" She flung an arm about Hes-ter, and hugged her. Aren't you glad?"

"I'm so glad that I can't realize it yet," Hester answered, slowly. "Oh, Janet, it is beautiful in you and your mother to give me this opportunity have a really happy vacation. You see I was thinking about going home just as you came in And I actually dread-ed it, Janet."

"I can't imagine anyone dreading to go home," Janet said. "Why, vacation "I can used to be a solution of the solution o from the conservatory They have hosts of friends, but though I'm young-er they always let me into their good times. There's boating and picnics and auto rides-father's got a new car, you know. And Maria, who has been with us ever since I was born, makes my us ever since I was born, makes my favorite dessert for me. And there are new books to read and new stories ty hear, and always a lot of invitations. The only trouble is wacation is soon over. Just as I begin to realize I'm having a perfectly splendid time the dressmaker is hired in and begins to fit me out with a new school wardrobe.

This summer there will be an added joy. You will be there, too."

"Yes!" Hester was flushed with an-ticipation. She laughed gaily. "And to ticipation. She laughed gaily. "And () think all may worrying was to no pur-pose! I'll just write to mother and tell her that I'm going home with you. She will consent, I know. But I want to be sure."

Three days later Hester got a reply written in her moher's delicate, wa-vering hand. She avas willing that Heater should spend her vacation with her school friend instead of coming home

is the pulling of efficient service.

and need more complete rest than you can find here at home."

felt a sudden straining at her heart of the ties that bound her to her old

Hester's eyes filled with tears. She

"But it's my last real vacation," she hispered to herself. "And it's the rst I ever took all for myself. I'll do

better work next year because of it. And surely I am entitled to one royal

good time before the actual business of life begins. Mother seems to feel that as well as L"

Yet all that last week while she was finishing her year's work and packing away the things that she intended to take to Janet's. Hester was not really happy. She could not have told whence

it came-that little, haunting con-sciousness of wrong-doing that rose up

with her in the morning and lay down with her at night. It seemed all the

time as if there was a still, small voice

whispered to herself.

first I ever took all for myself.

calling-calling to some hitherto un-awakened sense of duty and loyalty within her

School ended in the usual flurry o farewells and departures half gay, half regretiful. Some of the girls were go-ing not to return; their lifework was to claim them henceforth. Others, like Hester, were looking triumphantly forward to the next year as their last.

Hester and Janet walked to the sta tion together on a morning all hope and promise with its work of golden sumbline weaving earth and sky together.

gether. "We change at the Junction, you know," Janet explained. "I always think that's such a nuisance." "It must be," Hester agreed. "But I don't know anything about it. You see I come right straight through from home. It's only thirty miles farther —" She stopped, suddenly. For it occurred to ber that when she was at the Junction she would be less than one hour from home.

"Hester, look! Those are real rural characters, aren't they?"

characters, aren't they?" Hester looked and the color flamed in her face. The two passengers who had just entered the train were coming down the ailele looking for a seat. It was evident they were unused to tra-veling. They were old people, poorly dressed in old-fashlomed clothes. He carried a rusty value and an unbrella. She clung to a shabby handbas. "Oh. dear," Hester thought uncom-fortably. "I hope they won't see me or recognize me. It would be so em-



#### Girl Flax Pullers in Wellington Co., Ont.

The big labor item in growing flax, now so urgently needed for aeroplane wings is the pulling of the crop. In this field, bands of city girls are now rendering encleant service. The ones here illustrated are working in Wellington Co., on

"Of course we have all looked forbarrassing if Janet were to find out I ward to your coming, dear, as you must know, but we do not want to deknew them. She put her hand up ostensibly to prive you of anything that will give you happiness. And I realize that you have worked very hard all the year

straighten her hat, but in reality to shield her face. The next instant she felt a hand fall upon her shoulder and knew that she was discovered.

"Why, it's Hester Rice!" exclaimed "WBY, it's Hester Rice!" esclaimed a tremulous, flad old voice. "Look here, pa. Here's Hester Rice. Why, Hester, I'm real pleased to see you. School's over I expect and you're on your way home, eh? Well, your ma will be right glad to see you. I never thought of seeing you, Hester, when we took the train back there. You see we've been visiting Nancy, our mar-ried girl. Your ma's luckler than I an -She's got all her girls at home yet." "How is mother?" asked Hester faintly.

faintly

"Why, she's real sort of poorly, Hes-ter, to tell the truth. You see she's had it pretty hard ever since that tree

had R pretty net-" fell on your pa---""""What!" The color fied from Hes-ter's face. "What do you mean, Mrs. Pingree? A tree fell on father!

"Don't you know? But maybe they kept it from you fearing it would

August 8, 1918.

worry you. Wby, it happened about a month ago. Your pa was cutting down an apple tree and instea a falling straight as he expected, it top pled over against another tree and he got caught under it. His thrown out of joint. Of hip got caught under it. His hip thrown out of joint. Of course he laid up with it yet. As I gaid, it's mining everything herself. And just in Inade everything hersen. And just in spring of the year, too. Of course, girls help, but they're young, whole thing rests on her should She's a fine, noble woman and a neighbor. But I shouldn't 'a' toid

dearle. Only I thought you knew." Hester didn't answer. She sat shing straight ahead with her hands their new gloves, crushed together a her lap. The old people after waith a moment for her to reply went on the

"Hester," Janet leaned near, "Ho too bad you had to hear that. You's white as a sheet." \*113

Still Hester didn't speak. And Jane Stim Hester that she was intruding upa feeling that she was intruding upa some kind of secret struggle, leand back in the seat and turning her era resolutely away, watched the flym back in the seat and turning her evaluation of the figure landscape. It was only when the June tion appeared that she dared to a dress Hester again. Then she toucked her.

her. "Hester," she whispered, "we're # the Junction. Come, we must be reav to get off." Hester looked at her with big, brigh

Hester looked at her with big, bright eyes. "But I'm not going to get off," als said. "I'm going on home with as Pingrees. Don't you see, Janet! J cun't do anything else after whit 'm just heard." "Ohl" Janet walled. "It will said

"It will spot everything if you do that. And iw made such plans, I've laid up and hopes. And just think, Hester, what it's going to mean to you if you go

"I do," Hester replied, gravely. "And I'm thinking, too, of what it's going a mean to mother and the rest when get there. I'm sorry, Janet. But den you see, I can't do anything else wh out hating myself always? As it in haven't been on very good terms win myself ever since you asked-But her we are. You must get off. Goods, Janet, good-by. I'll write.<sup>b</sup> "Good-by, Hester. Oh, I think you'n the bravest girl, and the best. Cool

Hester went to the door with Janet Hester went to the door will same Then as the train began to move an of the crowded station she waved he last good-by and went back to the seat where the two old people at "Mrs. Pingree," she said tremulos "Will you let me go home with you?"

"Wuy. Hester, child, of come "Why. Hester, child, of come What a question. And glad be an you. Pa, set up ond let here sit are here by me. She looks rout itted ha And for mercy's sake, she's cryge There, there, child, don't dt i oughts known better. I told ya w atterward. But I thought you here "I ought to have known. I we have doo, if I had been the daught should be."

It was wonderful how her her lightened as she climbed the ste, stony road to the old grav house a the knoil. It was wonderful too, but the home-spirit flew out to meet he and help her up the steps to is shabby versuade. She set her suice down outside the door and turning is how how for extended knob softly entered.

anos sorty entered. "T've got all the weeding and being done," Emily said. "My arms as most broken, Elizabeth." "Next time you must let me he you." Elizabeth replied. "That's will sisters are for--to help each ots." Heater crept to the door. "Girls!" she breathed. There is a sort of the second of the second the second of the second of the second of the second the second of the second of the second of the second the second of the the second of the

They turned and saw her. Their glad cry brought father at mother, father leaning on his crud and looking thin and white, and make er trying to hide her weariness d countenance with a brave smile. "Hester!" They murmured, looks at her as if they could not believe was (Concluded on page 15.)

August 8, 1918.

As Christ in t "A S the Father so I have lo in my love, in my Father's love."

The Upwa

Christ had taught I to abide in Him was love. The hour of nigh, and He canno more to them. They have many question, what that abiding in love is. He anticipal their wishes, and give the as the best expe their abiding in His to look to His abiding love. In the light of the Father, their union become clear. His lift is the law of their li

The thought is so can hardly take i. in clearly revealed, that clearly revealed, that neglect it. Do we no vi. (ver. 57), "As I liv, even so he that eated live by me"? And the so distinctly (John 1 they may be one even I in them, and Thou blessed union of Chr Father and His life in rule of our thoughts an in regard to our living Him.

Think first of the ori of Christ in the Fathe one-one in life and o this His abiding in the root. Though dwelling He knew that He was Father; that the Father Him, and His love on this knowledge, abiding and His love would hav impossible. And it is thou canst abide in C love. Know that thou Him-one in the unity His birth He became i thy nature that He with thee. By thy new comest one with Him, partaker of His Divine link that binds thee to and close as bound Father-the link of a D claim on Him is as su availing as was His o Thy union with Him is

And as it is the unio life, it is one of an inf His life of humiliation tasted the blessedness of knowing Himself the infinite love, and of dwe the day; from His own e vites thee to learn that I secret of rest and joy. with Him: yield thyse loved by Him; let thi heart open to the love th presses in on thee on Abide in His love.

Think then, too, of the abiding in the Father which is to be the law o kept my Father's commu-abide in His love." His subjection and depende most blessed. To our pr ing nature the thought of and subjection suggests humiliation and servitude of love which the Son and to which He invites the secret of blessedness not afraid of losing aug up all to the Father, fo that the Father loves H have no interest apart the beloved Son. He kn complete as is the depen-part is the communica part of the Father of all 1 etudio

## August 8, 1918

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The Upward Look

August 8, 1918.

As Christ in the Father

"A S the Father hath loved me, so I have loved you. Abide in my love, even as I abide in my Father's love." John xy, 10. Christ had taught His disciples that

to abide in Him was to abide in His love. The hour of His suffering is nigh, and He cannot speak much more to them. They would doubtless more to them. They would doubless have many questions to ask as to what that abiding in Him and His love is. He anticipates and meets their wishes, and gives them His own life as the best exposition of His command. As example and rule for heir abiding in His love, they have to jook to His abiding in the Father's love. In the light of His union with the Father union with Him will the Father, their union with Him will become clear. His life in the Father is the law of their life in Him.

The thought is so high that we can hardly take i. in, and is yet so clearly revealed, that we dare not clearly revealed, that we dare not neglect it. Do we not read in John vi. (ver. 57), "As I live by the Father, even so he that eateth me, he shall live by me"? And the Saviour prays so distinctly (John xvii. 22), "that they may be one even as we are one: I in them, and Thou in me." The blessed union of Christ with the Pather and His life in Him is the only rule of our thoughts and expectations in regard to our living and abiding in

Think first of the origin of that life of Christ in the Father. They were one-one in life and one in love. In this His ablding in the Father had its root. Though dwelling here on earth, He knew that He was One with the Father; that the Father's life was in Him, and His love on Him. Without this knowledge, abiding in the Father and His love would have been utterly impossible. And it is thus only that impossible. And it is thus only that thou canst able in Christ and Hims love. Know that thou art one with Him—one in the unity of nature. By His birth Ho became man, and took thy nature that He might be one with thee. By thy new birth thou be-comest one with Him, and art made matches of His Dirtse vature. The comest one with rinn, and art made partaker of His Divine nature. The link that binds thee to Him is as real and close as bound Him to the Father—the link of a Divine life. Thy claim on Him is as sure and always availing as was His on the Father. Thy union with Him is as close.

And as it is the union of a Divine life, it is one of an infinite love. In His life of humiliation on earth He tasted the blessedness and strength of knowing Himself the object of an infinite love, and of dwelling in it all the day; from His own example He inwith this is own example if in secret of rest and joy. Thou art one with Him: yield thyself now to be loved by Him; let thine eyes and heart open to the love that shines and presses in on thee on every side. Abide in His love.

Think then, too, of the mode of that abiding in the Father and His love which is to be the law of thy life. "I kept my Father's commandments and abide in His love." His was a life of subjection and dependence, and yet most blessed. To our proud self-seek-ing nature the thought of dependence and subjection suggests the idea of humiliation and servitude; in the life of love which the Son of God lived, and to which He invites us, they are the secret of blessedness. The Son is not afraid of losing aught by giving up all to the Father, for He knows that the Father loves Him, and can have no interest apart from that of the beloved Son. He knows that as complete as is the dependence on His somplete as is the dependence on His part is the communication on the part of the Father of all He possesses.

Christ as the pattern and the promise of what his may be learns to under-stand how the "Without me ye can do nothing," is but the forerunner of "I can do all things through Christ who strengthenesth me." We learn to glory in informations. Slow in infimities, to take plean to glow in infimities, to take pleanaire in necessities and distresses for Christ's sake; for "whon I am weak, then am I strong." He rises above the ordinary tone in which so many Christians speak of their weakness, while they are content which so while they are content to able there, because he has learnt from Christ that in the life of Divine love the emptying of self and the sacrifice of our will is the surest way to have all we can wish or will. Dependence, subjection, self-sacrifice, are for the Christian as for Christ the blessed path of Hfe. Like as Christ Hebelsed through and in the Father, even so the believer through and in Christ.

the believer through and in Christ. Think of the glory of this life of Christ in the Pahners love. Because Ho gave Himself wholly to the Father's will and glory and honor. He acknowledged Him as His only representative; He made Him par-taker of His power and authority; He esaited Him to share His throne as God. And even as will it be with him who abides in Christ's love. If Christ finds us willing to trust our Christ finds us willing to trust our-selves and our interests to His love. for our own will an honor, if we make it our glory to exercise and make it our giory to exercise and confess absolute dependence on Him in all things, if we are content to have no life but in Him, He will do for us what the Father did for Him. The second secon as He in the Father's!

What we only need is this: to take time and study the Divine image of this life of love set before us in Christ. We need to have our souls still unto God, gazing upon that life of Christ in the Father until the light from heaven falls on it, and we hear the living voice of our Beloved whispering gently to us personally the teaching He gave to the disciples. And if the thought will sometimes

come: Surely this is too high for us; can it be really true? only remember that the greatness of the privilege is justified by the greatness of the object He has in view. Christ was the revelation of the Father on earth. He could not be this if there were not the most perfect unity, the most complets communication of all the Father had to the Son. He could be it because the Father loved Him, and He abode in that love. Believers are the revelation of Christ on earth. They cannot be this unless there be perfect unity, so that the world can know that He loves them and has sent them. But they can be it if Christ loves them with the infinite love that gives itself and all it has, and if they abide in that love.

By constantly endeavouring to do one's best one acquires the power of doing that with spontaneousness and doing that with spontaneousness and facility which was at first the whole effort of the mind. The reward is threefold, the satisfaction resulting from acting on a just principle, im-provement in the art, and the pleas-use derived from a constant pursuit stras evaluations.



# More Insurance Needed

THE people of Canada purchased \$50,000,000 more life insurance during 1917 than they did in 1916. This is in keeping with a similar marked increase during the previous year.

This increase is significant. It shows that the people realize

- the lessons of the war that emphasize the uncertainties of the future;
   the wisdom of investing increased earn-ings for future protection;
- (3) those already insured realize the need for more and more protection as the cost of living mounts upward, thus decreasing the amount of protection that dependents can enjoy from any even sum of mone. given sum of money.

These lessons of the times point to the wisdom of providing adequate life insurance protection.

A Mutual continuous monthly income policy; under the endowment plan, would assure you of an income at the expiry of an endowment period of; say, 20 years. At least 240 monthly payments are guaranteed to yourself, or your beneficiary. If you survive the period the income continues for life.

These policies are also issued on the Life and Limited Life Plans. Write for full particulars.

The Mutual Life

Assurance Company of Canada

Waterloo, Ontario



information and prices.

#### The Canadian Fairbanks-Morse St. John, Co., Limited Queb ohn, Quebec, Iontreal, Ottawa, Toronto, ion, Windsor, Winnipeg, Calgary, katoon, Vancouver, Victoria. 74

Every 10c

Packet of

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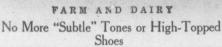
STICKY FLY CATCHER

Clean to handle. Sold by all Drug-gists, Grocers and General Stores.

## IF YOU DON'T FIND IT. WRITE US

Occasionally readers of Farm and Dairy wish to secure the ad-dress of manufacturers of farm or household equipment, but are not able to locate it in our pages. At any time our Advertising Dept. will be pleased to give you any in-formation of this nature. Write us freely. ADVERTISING DEPT.

FARM & DAIRY, PETERBORO, ONT



Farm ad Dairy patterns shown in these columns are especially prepared for our Women Folk. They can be relied upon jo be the latest models and include the most modern features of the paper pattern. When sending your order please by careful to state built ow wait measure for addits, for colliders, and the sumbler by careful to state built owned measures for addits. Are colliders, and the sumbler description of all patterns to Our Women Fight. Io cents each. Adds ess orders to Pattern Dept. Farm and Dairy, Feterbore, Ont.



T is interesting to nois some of the changes in styles which the war is here are to be the war is to be here are to be the war is to be here are to be the unusual handes which in we mean the unusual handes which he we mean the unusual handes which is we mean the unusual handes which here are to be the second to be o match when one comes to secure rimming for them. For instance, such hades as audiferry, horizon blue, crush-hades as a wall come under the ban, so is also and the second to be one of the hades which will come under the ban, so ult and costly to produce when dyre are are.

cuit and cosity to produce when dyes are "There has been a great fad for the last two or three measures in colored and astremently finds togoed shoes. Now we than eight inches high, and the colore are to be white, black and two shades of brown. If the is the case, it will not be been black back and the color are to be white, black and two shades of brown. If the is the case, it will not be an so order is concrude, and there will not be an so order and there are an mote to any more worry about having more to match-erery dream we posses, as has been the case of rome who are respect.

very fond of being up-to-date in every respect. Tespect. The production of the second of the second effects are usually becoming to the young girl and here is a design with a very summery look, which should prove ac-ceptable to many of our home dreas-makers who are in search of an altrac-tive skyle. Four sizes 1, 10, 12 and 14

Uve atyre. Four sizes: 5, 10, 12 and 14 2514-86 to New Sheeva-Brewrith we show a set of sleeve patterns which are interesting. The flowing Chinese type of sleeve like No. 2 is popular. Also there ara-beddes the often slows, those the sleeve is open to reveal a puffing of contrasting materials. The four here whown, however, are practical and also styliah in appearance. Four sizes small, 16 inches; surfaura 12 inches; large, 14 inches; straward, 15 inches; arm size.

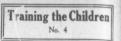
The four styles come as one set, 10 cents

Girl's Dress-Here is a

for all. alls, all rev press.-lites is a very line alls, all rev press.-lites is a very line young gitt and would be a good style for wear during summer holdships, secund the home. First sizes 4, 6, 8, 10 and 11 years, of the second states of the second states of the home. First sizes 4, 6, 8, 10 and 11 years, does not be second states of the second states of our dressmalters as R is unique and from make it distinctive will appeal shown by the smaller yiew, is pleasing. 2016-5610-Lady's Costume-The two style festures most notices the about the costume is the surplus effect of the design calls for two patterns, 10 cents for each. The blocks is out in sizes from the design calls for two patterns, 10 cents for each. The blocks is out in sizes from the design calls for two patterns, 10 cents for each. The blocks is out in sizes from the design calls for two patterns, 10 cents for data and very indus. It almost the design calls for two patterns, 10 cents betweet and very indus. It almost the design calls for two patterns, 10 cents betweet and very indus. It almost the design calls for two patterns, 10 cents betweet and very indus. It almost the design calls for two patterns. Betweet patterns, 10 cents and very indus. It almost the from 12 5-44; modtham .45-31; large, dudg revers harge, 48-44 staches bust 2109-City areas. Agrees with does with does bust 2109-City areas.

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August 8, 1918.



## Take Children Into Partnership

lake Children Into Partnership By Mrs. V. Oma Grace Oliver. PARENTS must not look down up-on the child and consider his ac-forts, trials and sorrows petty; we must try to understand how sis-cerely they put all their hearts into their play and that the losses that seem so trivial to us are of great mo-ment to them. We must learn to share all their experiences with them if we would develop the fine feelinger. share all their experiences with them if we would develop the fine feelings we wish them to have at maturity. Children must not be shut off in one

Children must not be shut off in one part of the house to remain aloof un-til a certain age, but ought to be a part of the family circle, sharing its joys, work and minor sorrows. I do joys, work and minor sorrows. 1 (o) not mean that children should be push-ed before visitors, have all their meals at the family table or remain up till their elders retire, but there are times and places when it is the children's

and places when it is the children's right and privilege really to be mem-bers of the family. Even when they are very young, children can assume responsibility for certain light tasks about the house and as their age and strength increase more and more duties should be ad-more and more duties should be adand as their age and strength increase more and more duties should be ad-ded. The great American idea has been to remove all responsibility from the child and to give him a carefree childbood. I would not take one sec-ond of joy away from any child, bet is the strength of the second of the second the childbood is the second of the second helps in the making of it by period, helps in the making of it by period, helps in the making of it by period, helps in the making of it by period. For the comfort of all. The child at two can pick up toys, put away dishean and silver, help set the table, dust low furniture and run many errands up-stairs and down, and he loves to feel that he is "mother's helps." Children are so open-hearted and ready and respond so sweetly and quickly to faith and trust that we obtaing our hopes and joys more free-by with them. Is bond very close our sharing our hopes and joys more free bare of all beform on the great's more oline of the biddren and this to second

home will become the great meeting place of all children and this love and companionship between parents and children will be like a powerful mag-net whose attraction the children cannot resist.

So from these beginnings the home tie will be so strengthened that we need never fear that the allurements of the world can draw our children from us, but can rest assured that they will always return to the "center of deep repose."

Work of Western Women's Sections Now that our farm women in 0s. tario have in mind the organiz-tion of a Women's Section of the U.F.O., it may be interesting from time to time to note the work which is being accomplished by the various Women's Sections of the Grain Grow-Women's Sections of the Grain Gros-era' Associations in Western Canada, For instance, there has been some agitation for free hospitals in parts of the West. The ladies of the Forest Bank Grain Growera' Association of Saskatchewan recently called a met-ing to discuss the quention. Several of the members had prepared papers on the working of municipal hospital. After the mattee had been throughly discussed, a resolution way sont to be council of the rural municipality ab-ing that the village hospital might be ing that the village hospital might be made into a municipal one. While the made into a municipal one. While the councillors did not agree to enter into the scheme of joining with other neighboring municipalities as provid-ed by the Municipal Hospital Act, they did agree to provide free hospital accommodation. The council does not pay for private wards, and matemity cases are limited to 21 days. The hospitals in the district know of the nospitals in the district know of the arrangement and send the accounts to the council of the municipality for so-tlement. The council is increasing the tax to meet this expenditure, which will work out to about three dollars a year per quarter section.

#### August 8, 1918.

The Women's Section Souris, Man., is also doing in the spring they held In the spring they held meetings for sketching o the season's work. One se they worked was to sell h and produce in Brandon Saturday. A committee saturday. A committee ed to arrange and have pr book of tested recipes of Another committee made women in the district wi women in the understand with members and a membersh was put on in June. The committee drafted a line the various months as fol the income tax and farm be May, the single tax; June ing devices; July, oper August, nationalization of sources and public utilitie ber, the aim held in comm church and the association vember, federal governmen vincial government; Decem

This club adopted a cree which is worthy of passi reads:

"Keep us, O God, from pe "Keep us, O God, from pe us be large in thought, if deed. Let us put away f and leave off self-seeking, put away pretense and other face to face, withou and always generous. L time for all things and m grow calm, serene, gentlo. to put into action our bester straightforward and unafra to to see it is the little thi straigntorward and unarray us to see it is the little thi that create differences—that things we are one. May to touch and to know the g mon woman's heart of us a Lord God, let us not forget to

We can and will furnish a for the farm, the dairy, t maker, the household or DEFE Ack the cleaned Ask the circulation FREE. ment how to get it.



#### 8, 1918.

# ildren

## artnership Oliver

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accounts to lity for setincreasing iture, which ae dollars a

August 8, 1918.

the income tax and farm book-keeping; May, the single tax; June, labor sav-ing devices; July, open meeting; Auust, nationalization of natural re-sources and public utilities; Septem-ber, the aim held in common by the charch and the association; October, cooperation and community work; No-ramber, Iederal government and pro-rincial government; December, annual

This club adopted a creed last year which is worthy of passing on. I

"Keep us, O God, from pettiness; let

reads: "Keep us, O God, from pettiness; let us be hargo in thought, in word, in deed. Let us put away fault-finding and leave off self-seeking. May we put away pretenses and meet each other ince to face, without self-pity ands for all things and makes a key and for all things and makes the oraw colm, serves, gendle. Teach us to put into action our better impulses, straightforward and unafraid. Grant us to see its the Hittle things of life that create differences—that in the big things we are one. May we strive to touch and to know the great, com-mon vonani's heart of us all, and, O Lerd fied, let us not forget to be kind."

We can and will furnish any articlé for the farm, the dairy, the cheese maker, the household or yourself FREE. Ask the circulation depart-

ment how to get it.

It.

meeting.

reads:

Her Happiest Vocation (Continued from page 15.) they saw. "Our own oldest girl, Hes-

And then Hester found their arms--and hearts.

. . .

Australia the second se "You look fine, Hester," Janet de-clared when they met again at school in September. "You are browner and plumper, but that jan't it, either. i don't know what it is. Maybe it is you rexpression. You don't look as it you had had a unpleasant vacation at all." all

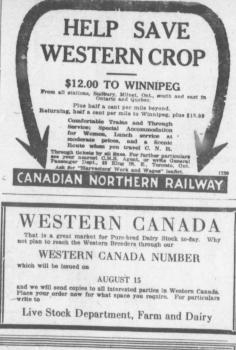
"Janet." Hester raid, expression vacuum at "Janet." Hester raid, expression vacuum was the happiest vacation I svere shull have if I live to see nincity of them. If your could have seen how glad they were to have me at home! And I was just as glad to be there. Of course I worked hard, but aren't they all work-ing for me? I never realised before just what an effort they are making to keep me in school. I learned such a lot, too, Janet. I learned that duty isn't disagreeable unless yo uthink so. And the beak kind of happinoss is and the best kind of happiness is making others happy. So you see, Janet," Hester ended, smiling. "I am satisfied. And that's saying a great deal."-New England Homestead.

#### A Durable Whitewash

A Durable Whitewash A GOOD durable whitewash for garden fences, rockeries, etc., is made as follows: Stake one bushel of quicklime with tweive gai-lons of hot water. Dissoive two punds table sait and one pound sui-plate of zinc in two gailons boiling water. Pour this into the slaked lime, add two gailons skimmed milk and mix thoroughly. A pomed of and mix thoroughly. A pound of cheap bar soap dissolved in a gallon of boiling water and added to about five gallons of thick whitewash will give it a gloss like that of oil paint.

Be what your friends think you

FARM AND DAIRY



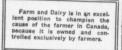
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#### HARVESTERS URGENTLY NEEDED IN WESTERN CANADA.

When travelling to Western harvest fields, go by the Canadian Northern Railway, and thereby give loyal sup-port to the People's Line.

Information of value to harvest hands is given in a leaflet entitled "Harvesters' Work and Wages," to be had from any C. N. R. Agent.

## FARM AND DAIRY

For the Rail Fence (Continued from page 11.)

animals no longer go through. In fact, animals ho longer go through. In fact, I am almost ready to say that, given my choice, I would almost as soon have a new rail fence as a new wire fence, as we have all kinds of animals on the place to fence out-horses cows, sheep, pigs and geese-and the rall fence effectually prevents these animals from going through it. I am not, however, ready to endorse an old rail fence when some of the rails be-come rotten or partly so. If the pickets are driven a foot in the ground at least a few supporting cross-stakes at react a rew supporting cross-stakes or pickets, say, every second panel, this fence is good, without repair, for eight years. I have seen woven wire fonce that look pretty "shaky" aftor-eight years' use. The rails we use average five inches in the middles. The lower rail or rails may be set white lower rail or rails may be six, while the top rail will do as small as four inches; but the average is five inches in middles. The stakes are three inches. The material is spruce and fir. The pickets will rot in the ground in eight years, but most of the rails, if not broken, will be as good as ever. The fence may then be rebuilt, sharpening the pickets anew and the fence is then good for several years more

more. We have rail fences on this farm 20 years old, being repaired, of course, several times. In fact, an old rail fence must be repaired every spring. As to taking up space with our cheap lands I don't consider it. The fence lands I don't consider it. The fence occupies a space of 3½ feet. This fence should not be compared to the old Virgimia snake fence with worm or angle six or eight feet and with cross-stakes only, no uprights. True Cross-stakes only, no uprights. The the rail fence is disappearing, and in most cases no wire fence takes its place. The average farmer has no rails growing on his farm, and wire is costly. King's Co., Ont.

J. A. M.



Cheese in Western Ontario

URING the course of a dairy meeting at Guelph last spring, J. A. Ruddick, Dominion Dairy Commissioner, gave it as his opinion that the increasing city population of Western Ontario would lead inevitably to a reduction in the output of cheese factories as creameries, as more and more milk would be diverted to the city trade and intimated that the trend was already in this di-rection. Frank Herns, Chief Dairy Instructor for Western Outario, rather took exception to Mr. Ruddick's statement and quoted the figures for the make from a couple of representative counties over a period of years. In Oxford county, for instance, the make of cheese in 1910 was 10,545,000 lbs. and in 1917, 10,315,000 lbs. In

lbs: and in 1917, 10,315,000 lbs. In Middless: if 1910 the make was 5,964-800 lbs. and In 1917, 5,427,000 lbs. These figures, Mr. Herns believed, will apply fairly well over all the other countries where cheese is made, and all things considered, the decline in groduction is very slight. At the in production is very slight. At the ame time, however, the output of creamery butter in Western Ontario has increased from 3,500,000 lbs. in 1907 to 21,000,000 lbs. in 1916. Taking butter and cheese together, therefore, factory production has been well maintained.

## Women in Cheese Factories

I N Europe a large part of the farm-made cheese is produced by wo-men, who, judging from the excel-lence of their products, are as a class

well fitted for successfully convert well fitted for successfully convert-ing milk into cheese. Any woman with natural ability as a cook and with a fitting appreciation for the ne-cessity of cleanliness in the preparation of food possesses the fundamen the of the possesses the function of a successful cheesemaker. The chief obstacle in more generally employing women in our cheese factories would appear to be the matter of physical strength. There are doubtless some women who could readily perform the full duties of cheese manufacture and factory operation, including the heavy work. But this will not usually be the case and for this reason the employment of women is likely seldom to be practical smaller plants which can be operated by one man.

But in factories large enough to re quire two or more persons during the summer there is unquestionable op-portunity to more fully utilize female labor. Where a woman has the abil-ity and the training she may be competent to take charge, being provided with male help for the heavy work, or the helpers' work may be taken over by the woman employe, comprising the lighter operations, such as help-ing in the curd handling, book-keeping. etc.

We look for a very material increase in the number of women, employed in our cheese factories if the war lasts during 1919.—New York Produce Re-

### Test of Sour and Sweet Cream

OES cream test more when it is D sour than when it is sweet? This question has been asked many times, and many have been led to believe that by holding their cream until it is sour they would be given a higher test. "This would be possible under one condition," says E. O. Hanson, of the dairy husbandry division. University Farm, St. Paul, Minn. "and that is, if a can of cream is allowed to stand for a long time at a rather high temperature, enough moisture will evaporate to increase slightly the percentage of fat, but it will be very slight and the cream will no long-er be fit for food. It would bring no er be at for food. It would pring no higher price, as the extra percentage of fat would only make up for the moisture that had evaporated.

"To illustrate: In 80 pounds of sweet cream testing 30 per cent fat there are 4 pounds of butterfat. If this cream were allowed to stand until five pounds of moisture have evaporated, there would be 75 pounds of cream testing 32 per cent fat. It also would yield 24 pounds of butterfat, and it is needless to say that the but-ter made from this 75 pounds of socalled cream would not be fit for human consumption."

"How do you know that cream will The do you and the train with the second with not test more when it is sour?" In reply Mr. Hannon tested eight sam-ples, sweet, of one pint each, using re-tested glassware and one of the best crean scales on the market, making the test in duplication. They ran from the tests in duplicate. They ran from 16.5 to 38 per cent. They were then kept in air-tight bottles sealed with moisture. They were held at approxi-mately 80 degrees F. for ten days. were then tested again, using They the same test bottles to avoid any possible error, and were again tested in duplicate. On comparison, the two tests were found to be exactly the same.

asine. It may be true that in some cases a higher test has been reported when the cream was sour, especially in thin cream. If a can of cream has been allowed to stand for any length of time and has become sour; the milk solids settle and become very sour and form making it stream for sour and firm, making it almost impossible get the cream thoroughly mixed. and the sample which is taken will not represent the contents of the can. as there would be practically no fat in the milk solids, which are left un-bized. If a higher test is given it is meither fair nor accurate.

#### August 8, 1918.

Dr McKay on Qleomargarine "T 'HE cry of the age is for fat and more fat," said Dr. G. L McKay, secretary of the Ap

rican Association of Creamery But Manufacturers. The result many substitutes for butter fat have come on the market. These may be come on the market. These may be all right when used in connection win other foods, but they lack the vial principles of growth necessary for the young, and for this reason they are menace to the health of our peop These words were but the prelis ary to a lengthy address by Dr

McKay when he visited Canada recently, and in which he exposed the frauds pe-petrated by the manufacturers ef-butter substitutes and made a strong case against oleomargarine. A few "maggets" from Dr. McKay's address are as follows: "Physiologists tell us that there are

two substances in butter which an necessary to the growth of the young These two substances are also for in the leaves of certain plants. The 'growth principles,' as they are called are not found in any of the so-called butter substitutes, and for this, if m other reasons, oleomargarine cannot be

considered a substitute for butter. "If we follow the chemists in deta mining the value of foodstuffs, oil is more valuable then butter and run tallow, pound for pound, is twice a valuable as oleomargarine. I might suggest that chemically thistles are a as any other fodder. But nothing

rich as any other fodder. But nothig but jacknasses will east them. "Mary leading scientista, such a Dr. Harvey B. Wiley, have stated that for growing children butter has a substitute. A subscriber to 'God Housekeeping' magazine enquired d Housekeeping' magazine of put and Housekeeping magazine enquired d Dr. Wiley as to the value of nut mis garine. Dr. Wiley answered that is would not feed his children either m margárine or oleomargarine, as beh lacking in the principles of growth.

To compare butter with margarite

"To comparing gold with brass. "The people back of oleo have al-ways followed the price of builtr as closely as they can. If the public was closery as they can be purposes, let the by lard, tallow and cottonseed oil and mit them. Packers made a profit in 1917 of 47 per cent. on the mixing.

of 47 per cent. on the mixing "The manufacture and sale of dep has always been accompanied by frag-The largest manufacturer of olemm-garine in United States is now under an indictment of two years in the pen-tentiary and a \$10,000 fmc for final n connaction with his humbers." in connection with his business dentally, Dr. McKay remarked that we had had oleomargarine for supper at the hotel that night, but no card was the note: that hight, but no card was displayed stating that oleo was served as is required by the law. Evidenty fraud has already started in Canada.

"France has the best laws governing the sale of oleomargarine. No may man garine can be colored in France. Many facturers of margarine must make mar facturers of margarine must make mar-garine only, and the retail stores hand-ing it must display a sign in letters a foot high 'Margarine Store'. In Be-glum margarine cannot be sold in the same stores as butter. In Englan, margarine is sold in the same stores as butter and coloring is normality. as butter and coloring is permitted in England, too, I found more complaints of fraud than in all other countries combined

combined. "Does the lack of coloring prohili the sale of margarine? No, but it dee prohibit the sale of margarine as be tor at butter fat prices. Margarine it not colored in Denmark and yet be people of Denmark are the heariet consumers of margarine in the word. "I hope the time will never come it tais country," concluded Dr. McKay. "when its butter will be made from the intestinal fate of the hog and the cos".

The National Dairy Show will be held at Columbus, Ohio, October 10th to 19th. A very large part of the State Fair grounds at Columbus are being used for Military purposes, but the building in which the Dairy Show was held last year will be available for use again this year.

S GENGE cannot kill we new heart and fifts hit cannot kill bet fores den gand kill bet fores den gand human naw is nothing and human naw is nothing the nothing and human naw being still pessions of human human naw is nothing and sciences, dire both his wordt. Withput dod we war is teaching."

ydesdale Horse Associatie sectors of the Estate, thus perpetuity by the Associa-be decided upon by the 1 the possession of the win e winner, which will beco-on exhibition at fairs w e sheld will be competed dibition, Toronto, 1918.

It is a magnificent piece two and one-half feet wis st appropriate, representin teristic scenes in the home ald not be duplicated to-day



We only have you get busy at on Gold Band or in Flo

All dishes are

# EVERY F

Please let us k so we can hold it



Address: Circulation Dept.

August 8, 1918.

# The W

THIS shield was donate holm Manor, Vanceu bred, born and raised whibition, the shield to b

asecutively, before becomen in 1912 by D. G. Boyd

Lean, Arcola, Sask. No When war was declar at, and gave his life for

ue of the shield in adv

leomargarine age is for fat and said Dr. G. L stary of the Am-Creamery Butte ne result is butter fat have These may be These may M connection with y lack the vital necessary for the eason they are a

August 8, 1918.

of our people." da recently, and the frauds per-anufacturers of made a strong garine. A few A few AcKay's address

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with margarize with brass. oleo have al-e of butter as the public want s, let them by eed oil and mit profit in 1917 ixing.

d sale of oles anied by fraid. er of oleomar-is now under ars in the pen-fine for frauds usiness." Inch for supper at t no card was eo was serred w. Evidently in Canada. aws governing

a wa governing ne. No mar France, Mann-ust make mar I stores handn in letters a ore.' In Bel-be sold in the In England In England, e same stores permitted. In re complaints her countries

ring prohibit o, but it does Margarine is and yet the the heaviest in the world. ever come in Dr. McKar. ade from the

be available

how will be October 10th part of the olumbus are Dairy Show

## The Watson Challenge Shield

His shield was donated in 1911 by Copian Geoffrey L. Matern, of West-hom Masor, Vancouver Island, B. C., for the best Grydesdale stallion, herd, born and raised in Ganada, to be called for yanity at the Dominion sphiltion, the shield to be won three times in a doff or yanity at the Dominion security, before becoming the property of the came. The shield was assecutively, before becoming the property of the came. The shield was the fill by D. G. Boyd at Ottawa, and in 1913 at Times held and fican. Arcola, Sask. No Dominion Exclusion to the the held serves when was was declared Capitaln Watom rolunteered for serve at the ext, and gave his life for his country on April 21st, 1915. Realizing the grout, after of the shield in advancing the interests of the Clydesdale Horse. The

## WHO CAN KILL WAR?

**BUDG AND LILL WARD**. Selected to a charger edge. Commercial which is not the new heart, many and the select burger of coverses and the select burger of the select b

prescale Horse Association of Canada entered into negotiations with the restors of the Eatate, thus securing control of the shield, which will be held perfectively by the Association. It will be competed for at annual exhibition be decided upon by the board of directors. The shield itself shall not be a winner, which will become his absolute property. The shield itself will an exhibition at fairs whene competed for 0. Under this new arrangement a shidt will be competed for for the first time at the Canadian National Addition, Torona, 1918.

shitton, Toronto, 1918. It is a magnificent piece of the silversmith's art. It is three feet deep two and one-half feet wide, and is of solid silver. The general design is appropriate, representing, as the accompanying photograph shows, char-persite scenes in the home land of the Cytolesdale in Scotland. The shield all not be duplicated to-day at less than \$1,000. A leading silverware manu-



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Peterbora

Ont.

## START WORKING TO-DAY

Address: Circulation Dept. FARM & DAIRY facturing concern in Toronte places its value at \$1,500. The miniature to be given to the winner by the Cyldesdale Horse Association will be one-fifth the size of the original shield, made of starting giver, and valued at \$25. It will be a prize that any Clydesdale exhibitor will be proud to own.







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#### FARM AND DAIRY

herd sire

U.S. AND CANADIAN HOLSTEIN MEN CONFER.

Lacons the series of Dairy - 1 her of the Series of the Canadian Here Series of the Canadian Association Association of the Canadian Association Associati

NEIDPATH FARM HERD SIRE.

NEIDPATH.FARM MEDD SIRE. "W E dink we have a privity code the second second second second second second second to impact the Neidpath herd of Ayrinhres bell in querich is a two-code owned by the Ontario Arricoliural Grege and imported from Social and by code in LGAP, of over 12,000 Ms. of mili-the backing of this ball on both sides is of the base providing the back second of ats, guerand evidences of constitu-tion, and the second second second second the second of Performance produces with the second of Performance produces the Backing Out of Arrivel Uders, and the second of Performance produces the Backing Out of Arrivel Uders, and with the second of Performance produces the Backing Out of Arrivel Uders, and with the production. They are good sized within the second back of the two the the second of Performance produces the Backing Out of Arvie Uders, and the second of Performance produces the Backing Out of Arvie Uders, and the second of Performance produces the Backing Out of Arvie Uders, and the second of Performance produces the Backing Out of Arvie Uders, and the second of Performance produces the Backing Out of Arvie Uders, and the second of Performance produces the Backing Out of Arvie Version States and arbeit that could have been enti-performers to follow the the two the Ballantymes to follow the to the Ballantymes to follow the to the Second Secon like to do.

#### MR. RELLY'S HERD SIRE.

MR. RELLYS HERD SHE. D URING a recent yink to the farm editor of R. J. Kelly, Culiddon, Ont., an editor of Parm and Dairy had the opportunity of seding his new herd size, son of King Segia Alexarcha Spofford, owned by Leavens and Purtelle, Biom-field, Oht. His dam is Korndyke Sezia leavens, a. B., bres-year-old, Mr. History, a. B. Strandsking to merit. the place he holds at the head of this big Oxford County herd.

August 8, 1918

STANDARD CATTLE AND HOL Free of the Standard Sta

#### NEW U. S. AYRSHIRE SECR TARY.

NEW U. 6. AVR6HINE SECR TARY, AT a neuting of the low of the line line line of the line line of the line line of the line of th

#### AD. TALK.

DESIRABLE PUBLICITY AND HOW

To OBTAIN IT. The successful business man, no mu-tionally or otherwise, counties, advertising results in two classes, rame, by, direct and indirect. He also praym his copy with a view to meeting the s. mands of each of these two objecting, and what works with one works with the other.

the other. The whole campaign works for a dam-able familiarity on the part of possib buyers with the advertiser's name agi-this renders quick satisfactory sales pp-lible. The advertiser who confines the advertiser who confines the success which would be his if the com-success which would be his if the com-anian. paign. In business life these two classes at

paign. In business life these two classs of advertising are known as aale advert, advertising are known as aale advert, advertising are known as aale advert, the advertising advertising advertising have, will make sales if they content and such for wholy to publicity. Consequently as ad, in which an us and such for sale at such and such price," will naturally receive litts of tention.

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C. G. MCKILLICAN, Livestock Department FARM AND DAIRY.

August 8, 1918.

# MARKET

T ORONTO, Monday, J tanae heat of the ' mas hastened the ri grains, in some incrance little too quickly. A se ports made by Agricultr tives of the Orderic Depa culture comments as fold situation:

culture comments as foke situation: Hay is practically all of the crop 16 bardy an av-weather was favorable fa-second crop of clover ha-but the fields now meed reported 16 he yielding. Fail wheat is turning: Fail wheat is turning: the quality although fass of quality although fass for the situation of the quality although fast four Considerable barkey has

early threading has foun coff grain. Considerations basisfy has considerations and the ity, although there are as of lone amut. Spring wh has recently pervalied. turning-perhaps too soon dancer of the the data bels where the standard bels where t

#### WHEAT.

WHEAT. The wheat market has b of expectancy owing to U it was the intention of U is in the intention of U is to absorb the increased The matter is now under Otawa, and it is glasted mainmen will be fixed at j maximum will be fixed at ; Representations have been Thomas White, Minister of Hon. T. A. Crerar, Ministe tare, respecting the finant Western wheat orop. It is the government will give of a fixed price upon the

of a fixed price upon the now crop. Quotations are as follows Maniteba wheat-In store Ham, nominal (including 21 I northern, \$2.33%; No. 7.20%; No. 3 northern, \$ wheat, \$2.10%. Ontario wheat-No. 2, \$3 Mostreal.

#### COARSE GRAIN

COARSE GRAIN The excellent weather or the second second second resp. Chords the large of a property of the second second the second second second second second second second the second second second second second second second the second se

MILL FEEDS.

The tone of the market for milliard remains very firm, timed inquiry for supplies, amount of business is passis and country account. Quotas how:

kows: Milleed-Carlots, delivered, freight, baga included; Bran \$35; shorts, \$40. HAY AND STRAW

There were no new developm market for baied hay to-day. Hay-Ne. 1 \$16 to \$17 per Termito; mined, \$14 to \$16 per Braw-Car isks, \$8 to \$8.6 tred Torento.

POTATOES AND BEA

PDTATOES AND BEA Lale polatosa have no far be fetel by disease than yeas do vesta aço but the hor we drought have resulted in many drought have resulted in same pota re still good far a fail pota tare still good far a faile fean tubers. Per bag in car foat are setting at \$28.45 to \$2 .064th are gooted as follow drought and years and faile the same setting at the same of the same setting at the same setting the same setting at the same set is high same set is same set is same set is high same set is same set is same set is high same set is same set is same set is high same set is same set is same set is high same set is same set is same set is high same set is same set is same set is high same set is same set is same set is high same set is same set is same set is high same set is same set is same set is high same set is same set is same set is high same set is same set is same set is high same set is same set is same set is same set is high same set is high same set is high same set is high same set is high same set is same se HIDES AND WOOL

HiDES AND WCCL City hides-City butcher hid fats, lec: carfakine, green fat, kip, Ro; horschides, city take to \$4.60; city lambeltine, sheen pits, \$1 to \$2.60; sheepakine, \$ Country market-Beef ride bits H to \$1.60; sheapattan, p Comstry markes—Bleef hidd Bit; part curred, Met curred, Ide two bo carl, 21.60 to \$2.60; h we had carl, 21.60 to \$2.60; h H to \$5; No. 1 sheapathing \$2.50 Bit has a sheap to \$2.50; here and Bornhair, faramer' sheap, 100; here Weahed, 50; to 72: mediums and 60; 50; mediums and combined, at wathed, is 53: medium and combined at cause luare, 830 to 850; per po-

THE NOTED DON, HERD are al present offering a few NOTED DON HERD Also a few Jemales, few eight to fourteen months old. Propertioulars and prices write D. DUNCAN & SON, - R. R. No. 1, - TODMORDEN, ONTARIO.

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The home of the highest priced Canadian bred Orford ram ever sold in Canada, sold to a Missouri man for \$300. We have for sale \$250 Oxford ever from 1 to 5 years dd, 50 selected yr. to 2 yr. rams for abow or breeding purposes, 100 mms and 100 eve lambs of superior guality and a limited supply of evers fitted for show purposes. Just sold a show flock to H. S. Currie, of Castor, Alta, which wen ist on aged ever, lat on yr. eve, 1st on eve lamb, Champion ever and Reserve, lat on flock competing against two flocks from Ontario. They were bred and raised by this firm. Also we have for alle 40 Shrop, eves and a stud ram, 1, 2, 3 yr. dd, and 40 Shrop, lambs all recorded, purco Jersey swine of the best breeding, and recorded, young boars and sows ready to wean at moderate prices.

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CHOICE YORKSHIRE HOGS AT RIGHT PRICES Boars and sows, all agen, from best prise-winning strains-s faw good a wors, also younger stock. S. C. White Leghorn ergs for hatching-Bar-823-ergs strains. S. S. Frown Leghorn, Barred Rocks, R. I. Reds, \$\$ per \$10 per 100. Fawm and White I. R. Duck ergs, \$\$ per 11. Chinese goos . 500 asch. bred sows, also ; ron's 282-egg str 15; \$10 per 100. eggs, 50c each. T. A. KING . . MILTON, ONTARIO.

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Three Pure-bred Registered Ayrahire Bulls, nine months old, of fine quality. We are also open to buy 200 Rhode Island pullets, April or May hatch. Apply FARM SUPERINTENDENT, PRICE FARM, KENOGAMI, OUE-



CH ST., TO

BOOK DEPT., FARM AND DAIRY PETERBORO, ONT.

#### agust 8, 1918

#### AND HOG

t is being shown an announce, of our last issue Standard Dairy or Ontario farm. Department of g with the as-sources Commit-sources Commitonfusion farmers he proper party rices, deliveries, Director of Co-Branch, Ontario ire, Toronto.

E SECR TARY

oard of Director Ayrshire Breed d at Manhatt at Manhattan 1918, James G Extension Activ. was elected Sec-the Ayrshite successor to the

chman by birth. Iowa State Col-was Extension aution for two was Extension rution for two ar position with 1. He was man-a Dairy Show at the October, 191 1. Jie was man a Dairy Show at the October, 1916, the Association's now becomes its

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MARKET REVIEW AND FORECAST

T OBONTO, Monday, Aug. 6.—The in-tanne head of the past two weaks guina, in score intricent of dapring prints, in score intricent of the ports made by Agricolutral representa-tives of the Ontario Department of Agri-tivation:

August 8, 1918.

trien of the Ontario Department of Arri-trium comments as follows on the crop Hay to practically all cut and housed. The crop is barely an average one, but the quality is generally good, as the second crop of clover has setted well, but the fields now need rain. Atalias is second crop of clover has setted well, but the fields now need rain. Atalias is second crop of addata. This weed is turning out rather bet-den out of the second second second second and weed is turning out rather bet-ing dealty, although Basec report that though there are some complainting the great heat and drought which has recently pervalled. Once are also the are only pervalled. Once are also the are only neveral the second are be as a considered being light pays the second when be second being light pays the second when the second being light pays the second being light pays the second being light pays the s

#### WHEAT.

WHEAT. The whose market has been in a state of expectancy owing to the report that it was the indiation of the government to it above the intervention of the sys-the matter is now under advisement at Ottawa, and it is glated that the new parimem will be fixed at 24.4 a bushed Thomas White, Minister of Pinance, and Jins T. A Crears. Minister of Agricul-ture, respecting the financing of the Western when will it is reided that of a the pinate will it is reided that of a fixed price upon the whole of the up of con-

the povernment will give its guarantee of a fixed price upon the whole of the monomous and a start of the start of the Manitash whost-In store, Fort Wil-lam, nominal (including 2% tax); No. 1 northern, \$2.3%; No. 3 northern, \$2.17%; No. 4 whol, \$2.12%; Onlario wheel, Onlario wheel, S. \$3.23, in store, Manitash wheel, S. \$3.23, in store, Manitash

#### COARSE GRAINS

COARSE GRAINS. The strelent weather of the past weather of the back of stain in some streng, though the lack of stain in some treng, though the lack of stain in some treng, though the lack of the some treng, though the lack of the trend out has been active and Ontains the stain been active and Ontains Charlo cats. Also is stain Charlo cats. Also is stain been active and the stains the stain been active at the stain been active at the stains the stain b

MILL FEEDS.

MILL FEEDS. The tone of the market for all lines of milling remains very firm, with a con-tinued inquiry for supples, and a fast-mount of business is gassing for local and country account. Quotation as fol-lows:

lows: Milleed-Carlots, delivered, Montre freight, bags included; Bran, per to \$15; shorts, \$40. HAY AND STRAW.

There were no now developments in the market for baied hay to-day. Hap-Ne 1 \$16 to \$17 per ton, tmack Termis; mixed, \$14 to \$16 per ton, track. Bina-Car tota, \$5 to \$5.50 per tan, trek Torento.

## POTATOES AND BEANS.

POTATORS AND BEANS. Lalpointon have so descent less at-fortal by disease than was descent as any work have resulted in model bight is every totace, counting greasity decreased picts on the whole, bowware, the pros-picts on the whole, bowware, the pros-picts are setting a solid bight is any totace, counting greasity decreased bight. On the whole, bowware, the pro-picts are setting at the solid bight is been are geoded as follows: Cana-han privat, totach, Subb of all bight is a privat, totach, Subb of all bight is hight bight of the bight of the bight of the HDES AND WOOL.

Tennet HIDES AND WOOL Ty Holes-City Dutcher hidds, groet, hidds, and hidds, and hidds, groet hidds, and hidds, and hidds, and hidds, be be howed hidds, and hidds-off, 8:20 bit Methy and hidds hidds, and hidds hidds and hidds hidds

EGGS AND POULTRY.

FARM AND DAIRY

EGGS AND POULTRY. Shipmenis from the Western provinces to Bandern points last week amounted to the set of the set of the set of the set set. The set fresh and two from site-set, the set of the set of the set of the is that the set of the set of the set erg shipments if not stop it attagether erg shipments if not stop it attagether in the West I. Frices at country points the West I. Set of the set scalastic-prevent.

In the West have advanced to the basis form-off in Manitoha, and 386 to 38 fe to form-off in Manitoha, and 386 to 38 fe to consent provide the second second second perial and no assurance. It is under-sited of the second second second second perial and the period that will be al-tions early a given until the shapping time early to given until the shapping time early of the second second second perial second second second second second perial second second second second second second second second on sectors in Casada Canada export license will be required from the could get export. The wholesale expression to the trade are No. I canadad, 486 to 46; selected new stud, 586 to 58. The weight for the second second second second second the second second second second second second second new stud, 586 to 58. Jean K. 2000 to 50. Jean K. 2

DAIRY RODPUCE.

DAIRY ROOPUCE. The trade in Suite draining the pair week romained much the same an the precessing one. Choice errainery pound at 46t to 46c per B. 40 476, and solids at 46t to 46c per B. 40 476, and solid mand for manife domestic course at 66t to 46c per B. 40 476, and solid at 66t to 46c per B. 40 476, and solid at 66t to 46c per B. 40 476, and solid at 66t to 46c per B. 40 476, and solid at 66t to 46c per B. 40 476, and solid at 66t to 46c per B. 40 476, and solid at 66t to 46c per B. 40 476, and solid at 66t to 46c per B. 40 476, and at 66t to 46 cheeses at 66t to 460 per B. 40 476, and at 60 40 476 cheeses at 66t to 460 per B. 40 476 cheeses at 60 40 476 at 60 40 476 cheeses at 60 40 476 at 60 40 476 cheeses at 60 4

CHERGE BOARD SALES. CHERGE BOARD SALES. Chernwall, July 30...4666 at 293(c. Chernwall, July 30...4666 at 293(c. Board 2014), July 37...460 at 231 (c.) Board 2014, July 37...400 boars of White Board 2014, July 37...413 boars of white All and at 251 (c.) Baard 25...400 (c.) Baard

LIVE STOCK.

Live strock. The features of the tive stack marked last work undoubledly was the advances strot to site of the strong strong strong strot to site the strong strong strong strong the strong strong strong strong strong the commence of port strong strong the commence of port strong strong the commence of port strong strong the commence of the strong strong strong the strong point to lower prices.

а	treffers, choice	12 50 10	14.00
	do goog	12.05 #	10.00
	do medium	12.00 40	12.00
,	do common	9 50 40	10.00
5	Butchers' cows, choice	10.50 10	
٩.	do good	10.00 10	
	e do medium	9.00 to	
١.	do canners	7.00 to	8.00
	Butchers' bulls, choice	6.00 to	
1	do good	10.25 to	
	do medium	9.25 to	
	do common	8.30 to	
	Fooders, best	7.00 to	8.00
	Stephene best	9.50 to	
	Stockers, best	7.00 to	9.00
	samers and springers,	1	
	choice	100.00 to	140.00
	do com. to medium	75.00 to	90.00
	Calves, choice	15.50 to	16.50
	do common	7.50 to	10,00
	do, graas	7.50 to	9.00
	Lambs, choice apring	19.50 to	21.00
	Lambs, yearlings	16.00 to	
	sneep, choice handy	13 60 to	15.00
	Heavy fat	8.00 to	11.00
	Heavy fat Hogs, fed and watered	19.75 to	19.90
	Less \$1 to \$2 on light	to thin	home
	less \$3 to \$3.50 on com	int lans	a.

stags; less 50c to \$1 on heavies.

## HOLSTEIN MEN ON TOUR.

HOLSTEIN MEN ON TOUR. A BOLT thirty members of the Holstein foredward Association from Magara-round Woodback widdle the country poss of sesting the phaces were the source of sesting the phaces were sourced by G. R. Green, District Repre-tive. Further Department of Asrical-ture. Further Department of Asrical-ture, Burther Department of Farm and Pairy.



# Avondale Farm Offers for sale its fine herd sire

Woodcrest Sir Clyde

HIS bull is one of the finest individuals in Canada -weighing about 2,700 pounds-has immense depth and length, an absolutely straight to-line and well colored, being four-fifths white. He has now a dozen tested daughters, one with over 25 lbs. butter in seven days at 24 months, another with 22, and several from 18 to 20. A considerable number of his daughters are in hands of breeders who will test them. All his stock is marked by splendid conformation and size, being of truest Holstein type.

His Sire is Pietje 22nd Woodcrest Lad, whose dam, Pietje 22nd, has the highest record (33.62 lbs. butter 7 days and 13673 of milk in 6 months) of any cow ever imported to U. S. from Holland. She was the first cow to produce over 500 lbs. butter in 6 months.

His Dam is Alma Clyde, 33.07 in 7 days, 136 in 30 days. She made over 22,500 milk in one year. She has one 30-lb. daughter, full sister to Woodcrest. Her sire is the famous bull Sir Clyde.

WE HAVE RECENTLY REPURCHASED THE OLDER SON OF MAY ECHO SYLVIA, and are there-fore offering Woodcrest Sir Chyde for sale, as we now have this cow's two sons. Woodcrest can be handled by a hoy-is quick and sure-and will be guaranteed right in every w. He was frey pears in March last. Here is a prove, built that will get both butter and show stock.

AVONDALE FARM A. C. Hardy Brockville, Ont. H. Lynn

(19)

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skid rear; electric Auto-Lite starting and lighting and vacuum fuel system.

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