FARMAND DAIRY RURAL HOME



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ONE OF THE TRACTORS DEMONSTRATED AT OTTAWA LAST WEEK.

The National Dairy Show at Columbus Canada was Well Represented. (Page 5.)

Feeding Out the Silo
Suggestions for the New Feeder. (Page 4.)

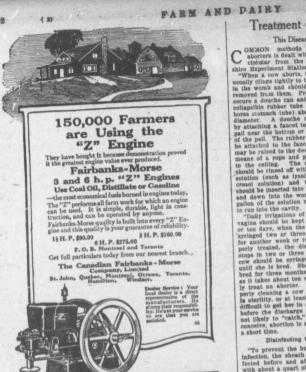
Frogs and Bankers
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Examples from the Old Country and Our Own. (Page 4.)

SUED EACH WEEK.

Address all Correspondence to The Rural Publishing Co., Limited, Peterboro, Ont.

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Every Turn of a Separator Handle

nears gain or took. Look is yet nave a congarior tank does one that is hard to turn one that takes a lone time in skin is constantly out of copalr, and one that is hard to clean. Gain when all these elements of disastifacetion. The comparison of the comparison of the control of the control

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BROCKVILLE MONTREAL

QUEBEC

Treatment of Aborters in Dairy Herds

This Disease the Most Common Cause of Sterility

OMMON methods of treating aborters is dealt with in a recent OMMON circular from the New Hamp shire Experiment Station as follows:

shire Experiment Station as follows:
"When a cow shorts, the afterbirth
usually clinzs lightly to the cotyledons
in the womb and should be carefully
removed from them. Previous to this
secure a douche can and smooth noncollapsible rubber tube (preferably a collapsible rubber tube (preferably a horse stomach tube) about ¼ inch in diameter. A douche may be made by attaching a faucet to the aide of a pail near the bottom or to the bottom of the pail. The rubber tubing should be attached to the faucet. The pail may be raised to the desired height by magne of a come and wells. may be raised to the desired neight by means of a rope and pulley fastened to the ceiling. The cow's genitals should be rinsed off with an antiseptic solution (such as lysol or compound

solution (such as lysol or, compound cresol solution) and the title hoss should be inserted into the borst should be inserted into the birth canal and down into the solution may be allowed to run cavity.

"Daily Irrigations of the womb and to run days, when the cow should be kept up for a week or ton days, when the cow should be 'gringed two or three times a week for another week or two. When properly treated, the discharge usually stops in two or three weeks, but the cow should be syringed done weekly cow should be syringed once weekly until she is bred. She should not be bred for three months after abortion, as it takes about ten weeks to properas it takes about ten weeks to properly treat an aborter. Neglect in properly cleaning a cow is apt to result in sterility, or at least it will be very difficult to get her in calf. Cowis bred before the discharge has stopped are not likely to "catch" and, if they do conceive, abortion is apt to reoccur in about its or to be about its a short time

Disinfecting the Bull.

"To prevent the bull from carrying infection, the sheath should be disinfected before and after each service with about a quart of a 2 per cent sowith about a quart of a s per cent so-lution of lysol or creolin. This may be done with a dc.che can, injection pump, or a large syringe. The rubber tube or nozzie of the syringe should be tube or nozale of the syringe should be inserted into the end of the sheath, which should be held firmly to the nozale or rubber tube so that the dis-infectant may be forced up into the sheath. Some bulls object to this pro-cedure and must be securely tied so they cannot step from side to side or whole at the operator. Care should be kick at the operator. Care should be used to insert the tube or nozzle gently so as not to irritate the bull. The long so as not to irritate the buil. The long turt of hair at the opening of the sheath should be clipped and disin-fected. When it is possible to do so, a separate, clean bull should be used for helfers and clean cows.

"Various agents and means have been recommended from time to time as specifies for the treatment of abor-tion. For preventing abortion that is imminent no drug seems to be of any avail. As a cure for abortion, carboile, acid has been recommended for sity years, to be given both subcutanceury and in the feed. However, this re-medy has been given up as upon factory by many who have tried it. Recently methylene blue has been the specific cure, but in many herds where it has been tried has been discontinued because it was as specifics for the treatment of abormany herds where it has been tried it has been discontinued because it was found ineffective. There seems to be no evidence that methylene blue or carbolic acid reaches the uterus where the infection is operating.

"Some dairymen practice selling aborting cows, thinking thereby they can rid their herds of the disease. The fallacy of this reasoning is shown by the fact that new cows and heifers taken into the here will abort. If a taken into the herd will abort. If a cow is not a good producer and becomes unprofitable after aborting, she should be sold for cooomeic resons, not as a dairy animal, but to be slaughtered. The practice of selling bearing cows for breeding purposes,

thereby spreading the disease, is to be vigorously condemned. Good cows which have aborted should be retained, treated, and again bred."

Horse-Power for Varying Soils

NE may easily be underhorsed
or overho-sed for any farm opamounts of pull on the drawbar for
varying soil and moisture conditions.
When the best conditions prevail we
find our opportunity for deep plowing. A good draft horse is able to
sexer 150 pounds pull on the crawbar, and 253 are required for vilowing
corn stabble six inches deep with a
14-inch bottom, so that a team that
can sexer 360 pounds pull has success power of 48 pounds. Wheat
stubble for the same work-required,
stubble for the same work-required
stronger of the pounds of the same
are indicated. The same workin very light sand cause only 168 to 252
pounds pull a required and the light
horse carrieding. But as a rule it is Horse-Power for Varying Soils pounds pair is requires and cast light horse carries himself more easily on shifting footing. But as a rule it is easily seen that horses of consider-able substance are necessary for farm operations. Bluegrass and needs 500-nound null for jurn it, sloves and farm operations. Bluegrass and needs a 504-pound pull to turn it, clover sod 588 pounds. With the bluegrass three good horses with a pull of 450 pounds show a deficiency of 54 pounds with eclover a deficiency of 138 pounds or within 12 pounds of a full-horse deficiency.

The figures are tractor figures.
They may not be accurate and it is admitted that they are subject to great variations, but a horseman's exgreat variations, but a horseman's experience will lead not value a comparison which is monably correct. A
fairly strong and requires a 255pound poul and greatines a 250pound poul and of clay roots and droute
the task is discouraging. This leads
up to the fact that there are but
good plowing days in a year on
strong tough soils and that every advantage should be taken to handle
such soils at their best if we are its
conserve our horse power. None but
the strongest of horses can cope with conserve our horse power. None but the strongest of horses can cope with such soils, which are and always have heen one of the hardest problems of agriculture. It can only be met in part by force and for the rest by covering them with such a heavy soil. covering them with such a heavy sol that their definquencies are carpeted. When such a condition is attained they may often be used even in wet weather.—L. Oglivy in Breeder's Gazette.

Small Farm Disadvantages

A LTH/JUGH the "little farm well tilled" is a favorite with the poets, farm management surveys of the Nebraska College of Agriculture show that it has several disculture show that it has several manages. Among those which have the greatest effect upon farm profits may be mentioned the following:

1. Two men are needed to do a large

part of farm work economically, and a small farm frequently does not offer enough steady work to keep an addi-

enough steady work to keep an additional man busy.

2. The cost of horse labor per aca, like that of men, is excessive.

3. The cost of machinery per acron small farms is nearly double that on "family-sized" farms, as machinery can be used to better advantage of such farms.

such farms. 4. Barns and similar equipment cost more per acre than on large farms.

5. Small fields are necessary, and the cost of fencing is increased per

Dairy farmers are not in the but-ness for their health, nor as a rule so they philanthropists. They want a li-ing and a fair profit; hence the agu-tion for higher milk prices.

Trade Inc

VOL. XX

HE conc. good ros and I advise y the road is t many of the a upon that I d hay fever seas Even the le

one or two fi beautiful str About four road from eac one to the eas about one hun bottom land as ornate but a The little whit almost as thou shop only a m barn and malk

construction, repair, and the feed bills and In the smal All of the mad

All of this knew John wh know that he and that after barely enough for \$20.00 apie first two or th I know how he pure-bred Hole to improve the of his hand, an the herd until Holstein cows the best piece Westville. An

Alf. Smith, across the ros trasts in appe he doesn't see the way smilling

Alf's farm is (I have been buildings all l almost as big call "all the t style. He driv goes into Wes "Flivver" truck dispense with good, big, serv none of my I think that

produces just that again is : It would be ature than Jo hard to find tw

One morning and his son Je Gomil Bank w fn the back of already stands

From the H



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 Chutham.

VOL. XXXVII.

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the bush rule are ant a line the again TORONTO, ONT., OCTOBER 24, 1918.

NO. 43.

HE concrete road leading northward out of Westville is an exceptionally fine one; it is a good road for an afternoon's automobile ride and l'advise you to take it. Almost its eatire length the road is bordered by dassies or goldenrod and many of the surrounding farms are so good to look upon that I don't mind driving over it even during

Even the least pretentious of these farms boasts one or two fine big elios and in almost every pas-ture by the roadelde or back on the hill you will see a beautiful sturdy herd of black and white cows.

a beautable sturry herd of black and white cowe.

Abous four makes from Westvilke and across the road from each other are two excellent farms. The cost of the state belongs to John Martin. John owns about one bundred and twenty-five across of as good bectom land as I ever seav. His buildings aren't very create but a glance at them is enough to tell you chat the Martins are a thrifty, frugal sort of folks. The little widths house with its groom shutters seem a showest as thought its must be served. The sittles windo house with its green shutters seems semes as through it must have come out of the pain shop only a moment before you see it, and the dairy barn and milks house, though of somewhat old style construction, give evidence of being in first-class repair, and the sits speaks convincingly of low winter teed billis and healthy, well-ted stock;

In the small, weather-proof machinery shed you will find nothing but the best that morey can buy. All of the machinery is good, practical stoil—no unnecessary contraptions—and it is always in the best

of repair.

All of this seems quite remarkable to me for I knew John when he was working over on Cyrus Carrier's place for "\$30.00 a month and found," and I know that he bought his farm on time payments and that affect making the first payment he had barely enough cash in hand to buy five scrub cows for \$13.00 updiese. I know, too, how he struggled the first two or three years, to add to his meagre herd. In the country of the read and the country of the lend and bow he finally built up the farm and the head until now he has nothing but pure-bred Holstoft cown and his property is rated as one of the herd used now he has nothing out pure-present Holstein cowe and his property is rated as one of the best pieces of land within a bundred miles of westwike. And he told me this apring that he had just paid the last dollar on his mortigage. His farm

Alf. Smith, who owns the big, pretentious place across the road from Martin's, contrasts in mature with John Martin quite as strongly as his farm con-trasts in appearance with Ma_ctn's farm. John is one of these quiet, unassuming fellows and though he impresses you as being a pretty good man to trust, he doesn't seem to radiate confidence and affluence the way smiting AM. Smith does.

the way smithing AM. Smith does.

Alf's 'arm' is about three times the size of John's (I have been told his father left it to kin). His buildings all look new and modern. He house is almost as high as his barn. He has what you maght to all "all the trimmnthe" as fast as they you maght to style. He drives a racey six cyfinder cas come into style. He drives a racey six cyfinder cas come into style. He drives a racey six cyfinder cas come into severable with John goes to two in his "Pitvee" truck. Personally, I think that Alf might disponse with the car for he, too, has a truck—a good, big, serviceable one, at that; but of course, it is none of my business.

I think that Alf must "Myo up" to what his farm produces just about as fisst as it can produce hus.

I think that Alf must "live up" to what his farm produces just about as fixed as it can produce, but that again is none of my business.

It would be hard to find two men less alike in nature than John and Alf, and it would be quite as hard to find two men who were stronger friends.

One morning about a month ago, John Martin and his son Jos drave up before the Westrille National has the son Jos drave up before the Westrille National bank with a double row of empty milk came for the bank with a double row of empty milk came for the beginning of the "Fireyer." Alf Smith's car was skwaip standing in front of the bank when they arrived.

Frogs and Bankers

Whither They Jump and Why

BY PAUL WING

As John enterel the bank Alf hailed him with this hearty greeting:
"Well, Johnny, my boy, are you coming to see the

old skin-flint, too?

Now you mustn't take Alf seriousty. By referring to him as "the old skin-filmt" he meant no disrespect to President Thompson of the Westville National, to President Thompson or the Westvine National, for he and Thompson are strong personal friends—in fact Thompson's farm joins his on the south That's just Alf Smith's way. Everybody knows him and no one would take offense at anything he said. John admitted that ne was there to see Mr. Thompson's the said of the said

"Alf," he said, "I'll tell you what I'm going to d The boy and I have got to spend more time in the fields this year. We can't get any extra help, and even if we could I wouldin't trust them with the cows. I have just spent the last cent we have for six yearth' heifers over at the Miller dispersion sale, that's going to mean more cows to mak before many months so I'm going to see if I can't borrow money

mouths so I'm going to see if I can't borrow money enough to buy me a milking machine so's I can take care of the extra cows when the time comes and still have more time for field work."
"The "h," said AM, "good idea. And since you're feeling so confidential tids morning I'll tell you what I'm here for. The old boat, out there, is going only the see in the stumb toward his authority, and the see in the stumb toward his authority, and I want to buy a new one 20 1.1 going to borrow ft."

Why Buy Victory Bonds ?

OUR country needs the money. It can't be borrowed from either Great Britain or the United States. The money to finance Canada's share of the war must be supplied by the Canadian people. Victory bonds will sustain prosperity. Without the money made available by the

Victory Loan cash could not be paid for the products of the farms or the factories, business would be stagnant and there would be hardship at home as well as at the front

It will encourage our boys over there. We are encouraged to hear of their victories. They, too, will be glad to hear of our finan-

They, too, will be giss to near or our man-cial victory. It is a guarantee to them that the folks back home are doing their part. Victory bonds are a good investment. Their security is the entire wealth, developed and undeveloped, of the Dominion of Canada. The rate of interest is as high as on first mortgage on land. They consti-tute almost a liquid asset so readily can they be cashed if money is needed. In supporting the Victory Loan, by buying

Victory Bonds, you can be patriotic and selfish at the same time. Every motive of patriotism and self-interest should prompt the Canadian people to "go over the top" with the full \$500,000,000 asked for. Whether we have an early peace or not, the money is vitally necessary to our national well being.

"Why, Alf." said John, "you don't need a new car any more than you need a new farm. Why don't you take that money and put I into a tractor or a mile sig machine? You may not be short of men yet, but you will be, as sure as fate, if the Government increases the draft age limit."
"Oh, I know," was Alfa reply, "but the missues and I can't get out of date, can we? And bestden, any ten acres of my farm. "gat to be good security for the amount I want to leave. I think Thompson will let ma have it all each."

me amount I want to 'orrow. I think Thompson will lot me have R shi It, at, but of course you never can test which way a frog will jump."

Their conversation was Interrupted when Thompson unbered AR into his office. Alf was gone for some time, Riceen or twenty minutes I should think and when he returned to John he didn't seem quite as boisterous as when he left him.

as boleterous as when he left him.
"Tell doe to drive on out home. I'll wait for you and take you out in my car," he eald as John followed Thompson back to his eanctum. Now, I have no banking experience, and of course my opinion is only a hayman's opinion, but I too, should think that Alf's exceelent farm, or any part of it, would be considered gift-edged scrutty for any of it, would be considered gittedged security for any reasonable loan by any reasonable banker. Possibly President Thompson did not consider Alf's loan. a reasonable loan. At any rate when John heft Thomp-son's office; only five minutes or so after he entered it and got min the way the property of the content it and got min the "air cylinder boat" with Alf, Alf's first remark concurred the stubborances and lack of

spreader. You can always patch up your wagon or your manure spreader and make them do, but you your manner spreaser and make them do, but you and Joe can't do six men's work in the dairy harn without the proper mechanical equipment. The militing machine will be better for you, better for microcows and better for the rest of your farm 'cause you'll have more time to work it. I'm going to put in one have more time to work it. I'm going to put in one have more time to work it. I'm going to put m one of 'em myself just as soon as I firish remodeling my cow barn. I know something about the machine you say you're soing to buy; it's a good one, I believe it's the recognized standard. Sure you can have the money." That's about what he said to me," said John, 'and that's about what he of have said to you if you'd sairced him for mosey to buy a milker or a row ensinage cutter or a pure-bred sire, or something like shair."

Alf was silect all the way home. He gets that way when he's disappointed or vorreed. He was too deeply engrossed in thought even to notice the object of the control of the control of the control of the sides along the concrete road leading northward out.

of Westville.

As John Martin got out of the car at his own gate, Alf edd, as if in reply to a statement that John had made only a moment before, "mebbe so, mebbe so." If you were to go forto John Martin's cow been one of these days at about fourthirty or a quarter-offive in the aftersoon, you might see young Joe Martin milking his father's forty cowe abone and doing it quite easily in an hour and a balt. You might hear the rhythmic effeck of the pulsastors on two double

From the Holstein-Friesian World.

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represented (od the Terse of Brampton. of the best w

show circuits Canadian dair

"cleaned up" netition was

be proud.

one bre

unit milking machines. You might see the unst miking machines. You might see the most contented cows you ever saw in you life at miking time. You might look over and read the story of increased production and lengthened lactation periods that it tells.

New, you can't tell which way a frog Now, you can't tell which way a frog will jump unless, perchance, you know the reason for the direction of his jumps. The frog must certainly have a reason, but our learned men so far as 1 know have never yet been able to discover that reason and conceal their ignorance by calling it instinct

No more can you tell, in advance, which way a banker will jump, unless, perchance, you have studied the reasons for his jumps. you have studied the reasons for his jumps. The banker, I'm sure, has a reason, and it's usually w very good one. Observe the b. deer and follow him, even though you may be a couple of jumps behind. He genmay be a couple of jumps behind. He gen-erally jumps in the direction of safety and eraily jumps in the direction of safety and profit, and is a pretty good guide to follow by the man who is headed in that direction. Commercial Fertilizer Profits

Examples From the Old Country and Our Own M. R. A. L. HODGINS, whose post office is Ettrick, in the County of Middlesex, Ontario, has a fertilitier experience to relate, which proves that,

under certain conditions, commercial fertilizers are more profesible even than "war bables." In the

more professible even than "war bubbes." In the spring of 1917, Mr. Hodgins sowod a field with outs. The whode field was manured and in addition the crop received an application of 200 ths. of acid phosphate per acre, except for a strly through the field which received manure only, and was left as a test strip. A good crop of cats was harvested and in the fall

This summer the unfertilized strip yielded wheat at This summer the unfertilized strip yielded wheat at the rate of 12.5 bushelse per acre; the remainder of the field, which had been fertilized with acid phos-plate, threshed 54.7 bushels per acre, a difference of 43.3 bushch, valued at over \$85, in favor of an application of commercial fertilizer that—cost only four dollars or five dollars per acre.

cour domars or nive dollars per acre.

Ounditions here were remarkably in favor of the commercial fertilizer. The difference in yield was due to the fact that on the fertilized ground the

due to the fact that on the fertilized ground the fall wheat made a stronger growth in 191 and come through the swere winder unfailured. All the come through the swere winder unfailured. All the come tong prowth in the field of 1917, and sewerely winter killed. Spring grains could not easily have the same difference in favor of commercial fertilizer, but this does not spoil the argument fall very important result of the use of corumercial retulizer for fail wheat.

thizer is the better stand and extra crop of the clover seeded along with the grain. Win. Stewart, of St. Catharines, for instance, used 200 lbs. commercial

Calmennes, for instance, used 200 lbs. commercial fertilizer per acre on outs and this year his closer crop on that land yielded four tons per acre for the first crop and the second crop, when last seen, looked

These are two examples of success with commer-cial fertilizer that were featured as a part of a fer-

received an appreciation of 10 tons of man-ure per acre and was multing a comparative-ity slow growth. Another part of the field had received an application of 200 lbs. com-

had received an application of 200 lbs, com-mercial fertilizer per acre m addition to the manuri. This wheat was making an ex-traordinary good growth.

Prof. Bril is strongly of the opinion that fortilizers might be used to good advantage on pasture land. In the connection he referred to the Cockel Park grazing experi-ments at the Mikhand Park grazing experi-ments at the Mikhand Park practice give in England. The soil on which these experi-ments were conducted was a heavy clay.

ments were conducted was a heavy clay. On one part of the pasture 448 lbs. of high-

grace super-phosphate and 168 lbs. of sulphate of potash were broadcasted on each priate of potasn were producested on each acre of the pasture sward. It was found that one acre of fertilized pasture would support one acre of fertilized pasture world support 11 sheep, while a similar area unfertilized would support only four sheep. In the season 16,456 to milk per acre was produced for etrilized pasture and 6.537 10s. of milk from unfertilized. This cer-tainly was profitable fertilizing.

Prof. Bell is of the opinion that the greatest need for commercial fertilizer in Ontario is for phosphate as a supplement to Bernyard manure. "I can not advocating commercial fertilizer i can not advocating commercial fertilizers as a substitute for manure," he informed an editor of Parm and Dairy. "Their proper function on the

good for a ton per acre.

land was plowed and seeded to winter wheat



An Effective Use of Concrete Blocks. On farm of E. Fierheller, York County, Ont

diversified farms of Onfario is as a supplement to manure, and I believe it would be grofitable to apply super-phosphate right along with the manure. Some soils, too, will need liming. Potash, at present prices, is almost perhibities. Ritrogen can be accured from harnyard manure or by plowing down cover crops. The growing of clover also adds to the nitrogen content of the soil."

Feeding Out the Silo

Suggestions for the New Feeder-By F.W. Woll

T is not necessary to put any cover on the silood mass, but if desired a load of cut straw, marsh, load, chaff, stc., may coughly wetch, and cut then sown theroon; these will soon germined as heavy mat of roots and recent stuff will from that will protect the underlying

green stuff will form that will protect the underlying feed from decomposition.

The slage will be ready for 'seding in two or three weeks after filling. In opening the sile the top six to twelve-inch layer of speffed silage is removed, below which a good quality of silage will be reached. The silage will improve in quality as the sile is being emptied until the last foot or two is reached, which will likely be rather acid if the sloped mass contained considerable water or a good silved mass contained considerable water, or a good silines mass contained considerable water, or a good deal of water was added and the silo is not pro-vided with a deafn. If used for feeding, this sour-islage should be fed to stock in only very small

The silage is kept level in the sile all the time during emptying so that as little silage as possible is exing emptying so that as little silage as possible is exposed to the air and secondary fermentations thus avoided. A sufficient amount of silage should be removed defly to keep the silage from spotling, via. one to two inches, according to the air temperature. The silage must be fed out more rapidly in warm than in cool weather. R is, therefore, hun that the diameter of the silo be no greater than the cool was the results of the silage must be sile to see a large silage on the silage must be sile to see a superior than the silage silage in the silage silage silage in the silage silage silage in the silage silage silage silage silage. the spock on hand will be able to eat a layer of sliage dally of the thickness suggested

daily of the thickness suggested.

Once sealed in the sith the stage will keep incefinitely without material changes after the first
few weeks, Instances are on record of singe a dozen
years old or more having been found of excellent
quality and eaten by stock with great relish. If a

silo is not completely empided by next filling time the new crop may be placed directly on top of the old singer, this is carefully leveled off minucial will be no stylied silage at the juncture of the two crops.

In emptying the sile it is convenient, and a case of outside siles almost necessary, in case of outside silos almost secessary, to provide a chute or c aveyor through which the silage may be the war directly into the feed truck or the wagon. The silage should be placed before the stock in one or two handlungs and should not be allowed to dry handkings and should not be allowed to dry out appreciably before being catan by the property of the state and barley sliggs the faxial and bar-tory beads, respectively, will soon dry out the property of the animals, especially if sluded at a rather al-vanced stage of maturity.

Pig Clubs in Ontario The Experience of Two District Representatives

AST year 10,999,990 lbs. of pork were produced by the 45,090 members of the Boys' and Girls. Pig Glubs in the United States. G. B. Curran, B.S.A. District Representative of the Outrario Dartment of Agricultura in Lennox and Addington counties, has started a similar movement in his province. His first need wes finances. He approached the manager of the Merchant's Bank in Nepance. After consultration, with the head office, the bank at the manager of the Merchant's Bank in Nopane-After consultation with the head office, the bank at vanced \$1.50 for the work. This money was harge-vanced the buying small pigs. The pig clubs were organized and each boy rate given the pigs, one a pure-breat Yorksvire sow to be retained to the reed-al pure-breat Yorksvire sow to be retained to the reeda pure-brest Yorkshire sow to be restained for breed-ing purposes and a grade pig to be sold on the mar-let. The plan of fine was that each boy gave bits note in payment for his pigs and the sale of the market hog in the fail was to redeem the note for beatly refere

Altogether Mr. Curran had applications for 100 Altogether Mr. Curran had applications for 100 pigs. Each child gave his note for \$29. This sum proved later, however, to be not enough as small pigs were difficult and exponsive to obtain. "Next year we expect to have any amount of pigs for pig club work," said Mr. Curran. "We then hope to later the pigs of the pigs club work," eadd Mr. Curran. "We then hope to have eleven pig clube in the county. The sows are good ones, and will materially improve the stock in the sections where they are distributed. The providing of pure-bred Yorkshire boars ' now a problem with us. We plan to hold a pig fair at Napanee, where the boys' pigs will be exhibited, and good prizes

In Peel County the District Representative, In rees County the District Representative, Mr. J. W. Stark, has been carrying on a similar line of work with the Junior Farmers' Improvement Asso-ciation. These were older boys and more much sows just bred, were purchased for them. The boys sows just bred, were purchased for them. The boys paid \$50 each for these sows, most of them girls cash. Where the boys could not afford to pay cash, arrangements were made with the bank to take that notes. "This work is going to result in wonderful two stock improvement," said Mr. Stark. "All government farms should be breeding pure-bred pig for our work. The Live Stock Branch should take this work up."

exploits as a exploits as a well as any, to an unfortu Hulet, Norwic at Detroit, bu It would be

and instructiv Dairy Show wand Dairy. F their best .- Je and Brown St business is on fully represet the continent the economy and its produc many original States Depart of a report. show, which i the "National.

The keynot hibits was the



Filled for the Third Time and Well Filled.

big sites in the Sackground explain why it is possible for Allien, Dundas County, Ont., to maintain a good-sized her Allien, Dundas County, Ont., to maintain a good-sized her and the county of the c

Easing Parturition Is This Idea a New One?

VILL turning an animal on its back dur-ing parturition assist the active dur-WILL turning an animal on its back dup-ing parturition assist the delivery of the young? This question is asked by C. C. Nixon in a recent issue of the Parmer's Advocate. It is not believe that instance that came under his observation instance that came under his observation in which several men, exerting all their strength, were unable to remove a cal. Finally one of them suggested turning the animal on its back. The veterinarian in tendance thought the suggestion foolish but all other means had failed and a late. all other means had failed, and, as a l

all other means had falled, and, as a last attempt, the animal was turned over. The calf came easily and muturally.

A few days after this article had appeared for The Advocate, Mr. G. A. Brethen, of Norsood, Ont., the well, known Holsein-reseler, dropped since the office of Farm and Fulty for a chat. Incidentally he meuthend Mr. Mixon's article and told of a similar experience. They were having crouble with a Holstein cow. The caff was held in by a Holstein cow. The caff was held in by a Holstein cow. The caff was held in by a Holstein cow. The caff was held in by a Holstein cow. The caff was held in by a Holstein cow. The caff was held in by a Holstein cow. The caff was held in by a Holstein cow. The caff was held in by a Holstein cow. The caff was held in by a Holstein cow. The caff was held in by a Holstein cow. The caff was held in by a Holstein commendation of casting the high commendation of the cow was on he had the calf was delivered. Have any other of Our Folks, had experience with this method of annishing delivery?

Canadian Herds Do Well at the National

In Competition With the Greatest Herds on the Continent—R. R. Ness and Gilbert McMillan With Their Ayrshires and B. H. Bull & Son With Their Jerseys, Fully Hold Their Own and Come Back With Many Good Placings and One Grand Championship

HE National Dairy Show at Columbus, Ohio, is the great final of the show senson. At the "National," as it is called, by dairy cattle breeders all over the continent, the herds that have been winning at the leading state fairs in various parts of America, meet for the final great context of the scason. the final great contest of the season, where the awards represent a national rlumph. In past years the "National" usually has been such, in character, as well as in name. Canactan brecers have crossed the line to meet the great United States herds on very few occasions in the past and never has there been more than one breed with Camadian competition in any one year. This year the competition at Columbus took on a truly international aspect. Mr. R. R. Ness, of Howlek, Quebec, at Mr. Gilbert Meafillan, of Huntingdon, Quebec, worthily represented Canadian Arrivaire Interests and the Jersey herd of B. H. Bull & Sons of Brampton, Ont., was numbered as one of the best winning berels in competition with the best winning berels in competition with the best of the property of the show circuits. It was a record of which proud. Of course, no one herd aned up" in either breed. The comnetition was altogether too stiff for such exploits as are commonly witnessed at smaller fairs. But the Canadians did as well as any, better than most, and brought home a fair share of the honors

with them. Further, it was due only to an unfortunate misunderstanding of United States to an unfortunate misunderestanding of United States quarantine regulations, which prevented Mr. A. E. Hulet, Norwich, Ont., from competing at the National with his Holstein herd. He got as far as the border at Detroit, but was there turned back on a techni-cality; at least, this was the explanation of his ab-

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at Detroit, but was there turned back on a technicality; at least, this was the explanation of his absence, current at Columbus.

It would be impossible to tell of all the interesting and instructive features of the Twelfth National Dairy Show within the limits of one issue of Farm and Dairy. Five dairy breeds were represented by their best,—Perseys, Arphitres, Holestone, Guerneseys and the state of the properties of manufactured dairy products. The exhibit of dairy machinery was the largest and best to be seen on the continent. In a building devoted to nutrition the economy and health-giving properties of milk and its products were demonstrated convincingly in many original and interesting ways. The United States Department of Agriculture and the various State Institutions had exhibits, in themselves, worthy of a report. Finally, there was a splendid horse of a report. Finally, there was a splendid horse show, which is one of the more recent additions to the "National."

The keynote of all address, conventions and exhibits was the national necessity of the dairy industry. Dr. McCullum, of Johns Hopkins University, de-



Lessnessock Golden Love, First in his Class at the National Dairy und Lessnessock Gotten Love, First in its Glass at the rational Solid State of This great built, owned by Gibbert McMillan, Huntingdon, P.Q., was grand canniplon. Ayrahire bull at Ottawa last September. At the National Dairy Show last week he won his class, won again in a special class in which three-year-old and aged buts competed, and was defeated for the senior championship in a very close contest with the two-year-old bull shown by Adam Setts, of Wisconsin.

Photo by an editor of Farm and Dairy.

livered his celebrated lecture on "vitamines," and explained the necessity of liberal quantities of milk in the diet if bables are to grow at all, and if adults are to be developed into the best type of physical beings. One placard in the nutrition building even beings. One placard in the nutrition building even suggested that every boy and girl should drink a quart of milk daily, or, if the children don't happen to like milk, it should be "camouflaged" in various dairy dishes. Mr. Mum, the President of the show, was strong in his advocacy of a great advertising campaign to convince consumers of the vital neces-sity of supporting the industry, and Mr. Alkens, alty of supporting the industry, and in radical supporting cardial constant of the convention of the convention of the term of the convention of the convention of the convention of the term of the convention of the convention of the convention of the term of the convention of the convention of the convention of the term of the convention of t the suggestion. Everybody was there to "boost" dairy industry.

dairy industry.

In only one particular did the show fall short of complete success. There were comparatively few people there to see it. There were 5,000 cases of influenza in Ohio during the fair week. In Columbus all public gathering places were temporarily closed by order of the Board of Health. People stayed away from the show as a "safoty first," measure away from the snow as a "safety first" measure. As a result some of the finest classes of dairy cattle ever seen together were judged with fewer specta-tors than might be expected at a small county fair. for than might be expected at a small county fair. For the cattle parade and horse show at night more people were out, but they were numbered in hundreds instead of thousands. This was a factor, however, over which the management had no control.

But our main interest now is the dairy cattle.

THE JERSEYS

THIS was Jersey year at the National. There were just about as many Jerseys as any other three breeds combined, 202 in all. From away down in the South-west, Ed. C. Lasater, of Texas, was out with a show herd picked from his 1,500 herd picked from his 1,509 Jerseys, the largest registered herd in the world. Longview Farm, Missouri; W. A. Brow-ertoa, Illinois, and J. K. Der-ing, Illinois, represented the North-central States, while from the cast were the win-ning herds of L. V. Walkley, Connecticut; Inderkill Farms, New York, and Hood Even. New York, and Hood Farm.

almost every class Prof. Van Pelt was forced to make his decisions on what would usually be considered fine points. Farm and Dairy would like to follow each class closely and give results in full but space does not permit much more.

than comment on Canadran entries.

Bulls, four years and over, brought out Bulls, four years and ever, brought of the third three entries. Rasieght Oxford Prince, from the Texas Rasieght of the Prince, from the Texas Young three years younger than Bull's thousand the years younger than Bull's three years to the prince of the years to the years to the years to the years younger than Bull's three years to the years to the years to the years to the years the years to the years they years the years t or four, Brampton Ralliator was first with Longview Farm's Karsas City winner, Warder's Chieftain, in second place. These two bulls were much of a type, but the Canadian Catry won on evidences but the Canadian c.try won on evidences of constitution and mo se smoothness, particularly over the shoulder. Two-year-olds brought out six strong entries and Bulls did well to come into fifth place with their B. Beauty Helf. The first placing was "a real bull," stylish and masculine with the grand championship of the recent Kansas City Fair to his credit.

The yearing class presented a problem

It would have been hard to get around



Brampton Bright Lord.

Brampton Bright Lord.

This junior yearling buil was junior champion at Toronto, grand champion at Ottawa, and second in his class at Columbus last week in compettion with the best on the continent. Being young for his class, he was at a disadvantage in size. Exhibited by B. H. Buil & Son, Photo by an editor of Farm and Dairy,

Bramson. Onf.
Bramson.
B



Bonnie's Perfection is a well-known Show Bull.

Bonnie's Perfection is a well-known Show Bull.

Wass grand champion at Toronto in 1917, first in 1918, and second at Columbus

Was grand champion at Toronto in 1917, first in 1918, and second at Columbus

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The Trap Nest

By Michael K. Boyer.

OR years back, as far as I can re-member, the laying qualities of a hen were measured by what the hen were measured by what the entire flock produced. It was not fair. Many a drone (a hen that did not produce enough eggs to pay her board) was allowed to remain in the flock and enjoy the same comforts and the same feed, as did the hen that was doing phenomenal work.

The drone's species were propagat-When it came time to set hens the eggs were gathered in a haphazard way, and the result was that each the eggs from drone-hens that positively refused to work during winpositively refused to work during win-ter, were the foundation stock of the new generation. Is it a wonder that statistics fixed the average laying of a hen at from \$0 to 100 eggs per an-

mam ? I well remember the time when win ter egg production was deemed more of a dream than a fact. It is different What has brought about the to-day. change? The trap nest

Here we have a patent device, open to the view of the hen. She wants to She examines the nest carefully The door is open, it looks safe (hens are mighty cautious)—and she enters. Her body in some way touches some sensitive part of the nest, the door closes, and she is held a prisoner. But as she finds herself in a cozy quiet corner, she calmly goes about laying her egg. She finishes, cackles, and awaits the appearance of someone to liberate her.

A band is fastened around the leg of each hen, and on each band there is a different number by which she is known. After finished laying, the hen is taken off the nest, her number ascertained, and due credit given her on the egg. At night these numbers are noted on a record sheet, and at the end of the year I know just how many eggs each hen has laid. I breed only from my best layers.

In this way each year I am able to improve the egg-laying qualities of my stock. Such a procedure gives us a chance to raise the standard from 100 to 150 eggs as the average of our flocks. Is not such an improvement worth working for?

Hens on the Farm

HY are there not more hens on the farm? One farm woman, Mrs E. W. Mahood, writing in the Rhode Island Red Journal, tackles this knotty problem and discusses it interestingly. Here are a few paragraphs from her letter:

Usually the men on the farm leave the poultry raising to the women, who are expected to pay the grocery bills are expected to pay the grocery burs and perhaps buy some of the clothing for themselves and the children out of the proceeds. The housewife herself has plenty to do without spending time trying to raise chickens under decreased and the first adverse circumstances, and the fact that she has to pay out all the money she receives as the result of her labor for necessities, contributes to her gen-eral discouragement and lack of in-

The farmer himself, as he has not been accustomed to getting eggs from been accustomed to getting ergs from the chickens suring the winter months, does not expect any. Hence, he neglects the chickens, though at this season of the year he has plenty of this of give them all the care they need, and the result is that when spring comes the chickens are poor, covered with verman, low in vitality, late starting to lay and soon broody, when the birds do lay they are allow-

ed to select their nests at will and thus many eggs are never gathered at all, but allowed to rot under the barn. in some fence corner, or under a pumpkin vine in the vegetable garden. All this cuts deen'y into the profits.

'Again, the farmer has been ac tomed to raise only scrub chickens, mongrels which are slow of developmongrels which are slow of development and low in productivity. Were het obuy as good stock in chicks as he does in cattle, take the same interest in them, gi 'them as comfortable quarters and use the same's intelligence in their feed and care, then keep books to show him just what profit he is obtaining, the results would sur-prise him sufficiently to arouse his interest in chickens."

Is Mrs. Mahood right?

Early Maturity

CCASIONALLY an poultry man is heard expressing satisfaction at having his pullets laying their first eggs at only four months old. The professional poultry months old. The professional pountry man does not even desire such early maturity. Writing in a recent issue of the "Pennsylvania Farmer," an exrienced poultry man gives his inion of forcing for early maturity as follows:

"Too early maturity is known to be a real calamity in poultry work, lead-ing to results that will make for poor production later on. In developing a really valuable lot of layers that will be able to do credit to themseives for be apic to do credit to themselves for long laying periods and for several years of laying, a big robust frame, with deep bodies, broad backs, well filled out breasts and abdomens, and a generally strong bodily development is of far more importance than an early laying performance. We want early laying performance. We want birds that are not going to pieces un-der the strain of heavy feeding for eggs later on. After egg development once begins, bodily growth ceases, and if that condition is forced by too heavy feeding the early maturity is secured at too dear a price. The too early maturing pullet is nearly always small, short of leg and small of bone, not able to carry the flest necessary to heavy and prolonged laying. Her laying soon becomes irregular and her appetite fails and the owner is disappointed in what at first seemed such a desirable quality."

Probably there are few cases where farm reared pullets are in danger through over-forcing. The trouble is usually the other way—careless and insufficient feeding and no eggs till on in the new year. Pullets so fed that April hatched birds are laying in October will make the most profitable birds and they will be healthy and of

normal size

Fattening Fowl

N fattening poultry they should be N fattening poultry they should be confined in a small pen or crate. Exercise produces hard muscles which means tough meat, while non-exercise leads to a softness of the nuncies which are tender when cool-dd. Bott feed should be fed as a lack ed. Soft feed should be less of exercise interferes with the proper digestion of whole grain. The feed should be finely ground and mixed with water, mik or buttermilk. The propertions have been with water, milk or buttermilk. In the following proportions have been found very satisfactory: one-half finely ground core, one-quarter shorts and one-quarter ground cats. Use the foods that are reasonable in price. Corn is rich in fat forming elements, along a can along a can along a can along a can a c Corn is rich in fat forming elements, but harley and good plamp oats can form a larger part of the heatien where they can be seen and the seen of the control of the contro

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Field

Where E OR a perso to be obse tule corner the was my priviles is to notice the in the different Canada, and es ada is truly a and the satisfa those races is the greater part element is confi However, when even though ha pean languages the waiting roc that the langu him are much would be heard cities. In the pr strongly represe tinguish them. gpes the larger yellow races, Cl and on my reco read about and the large are already on the large numb

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cupation to w traditions of the turies past, ar horn gardeners the whole garde trade of the Pac their hands and. the. admit Chinaman as a p their part for out of the garde dering, however, eupation which taken hold of. T could learn fr with whom 1 was them are a very wages they dema were steady work hemselves and slight and under ably enduring and hard work. One i visited told me stable had been w Another farmer tried all three of t farm help and 1 best. But in spit that some day or c will get the upper or even the large white employers, will ever be really portation of China ently or understa

THE Jap apper natural, as Japan try and a large p abitants have, no ence on the water. en and the coas work together, it aguish one from rson would be g that at some

Field Notes

Where East Meets West

OR a person who is at all inclined to be observant one of the most interesting things in taking a trip across the continent, such as it is to notice the various races and languages which one sees and hears in the different parts of the country. in the different parts of the country. Canada, and especially Western Can-ada, is truly a cosmopolitan country, and the satisfactory absorption of these races is one of the most scrious problems confronting the nation. In the greater part of Ontario our foreign element is confined largely to Italians However, when one reaches Winnipeg nean languages he need not be long in the waiting room at the station or walking about the streets to realise that the languages he hears about him are much more varied than would be heard in one of the Onts-to cities. In the prairie cities the Son, a ern European countries appear to be strongly represented and it would re-quire a student in "raciology" to dis-tinguish them. The farther west one goes the larger the proportion of the and on my recent trip, when I reached the coast, I saw what I had often ed the coast, I saw what I had often read about and had known to exist; the large numbers of Hindus which are already on the Pacific Coast.

NE of the peculiarities of these Eastern races is how each of the three have drifted into an oc-cupation to which they seem to adhere. The Chinamen, following the traditions of their ancesters for cen traditions of their ancesters for cen-turies past, appear to be naturally born gardeners. In fact practically the whole gardening and trucking trade of the Pacific Coast is now in their hands and, while the white peoadmit the superiority of the Chinaman as a gardener, there is al-ways a certain degree of hard feeling eir part for having been ousted on their part for naving been custed out of the gardening business. Gar-dening, however, is not the only oc-cupation which the Chinaman has taken hold of. They are used exten-sively as farm laborers and from what I could learn from various farmers with whom I was talking, many of with whom I was taking, many of them are a very satisfactory class of help. Until the last year or so the wages they demanded were low, they were steady workers, they boarded themselves and though, as a rule, slight and undersized, were remark-ably enduring and could stand a lot of hard work. One farmer whose place I visited told me that the Chinaman whom I saw milking cows in the stable had been with him for 14 years. Another farmer stated that he had tried all three of the Eastern races for farm help and liked the Chinaman best. But in spite of it all there ap-pears to be a general feeling of fear pass to be a general recing of fear that some day or other the yellow man will get the upper hand and it is a question of whether the white laborer, or even the large majority of the white employers, on the Pacific Coast will ever be really in favor of the imently or understand.

Ont

RES

LTD.

Calgary.

HE Jap appears to have turned you per particularly to the fishing a faultry. This is possibly did astend, as Japan is a mariful-country and a large proportion of her institute have, no doubt, had experience on the vater. As one goes along the coat and sees the Japanese fatherman and the coast region indians at work together, it is difficult to distinguish one from the other and as seven would be quite prepared to believe that at some period of history hadians of the Western Coast had

emigrated from the other side of the

In this connection the following instance occurred. I arrived one merning at Sydney, B.C., having come from lay at Sydney, B.C., having come from the control of the sydney of the sydne

HE other Eastern race, the Hindu, has found an occupation different from each of the others. He is the iumberman of British Columbia, wherever you go along the coastal region that there are saw mills, and that is everywhere, you see these tall, straight, dar's bearded men with the

cumbersome turban on their beads, working in the lumber mills; piling lumber, rolling logs and driving horses. The Hindu has a reputation for being lary and works best when under supervision. Consequently

for being lazy and works best when under supervision. Consequently they are not well liked on the farms. Mr. J. M. Steves, who has been on the Coast about as long as anybody, has onlyooky all classes of Eastern labor and has found the best satisfaction in the Chinamen. Cocasionally you get a Hindu who is satisfactory. It was to the set of all three races, as they the best of all three races, as they the best of all three races, as they then the best of all three races, as they then the set of all three races, as they then the set of all three races, as they then the set of all three races, as they then the set of all three races, as they then the set of all three races, as the set of the set of

ON the return trip, via New Ontario, I encountered another racis; tongue, and while I am not classing the users among three aforementioned races, I merely mention them in passing. To a person who has been born and brought up in the extreme eastern purtion of Ontario, one of the languages which he miss in going about the which he misses in going about the other parts of Canada is the language of the French Canadians. So while coming home through the wilds of New Ontario and getting off at one of the small stations, my ear was quick to catch the first sound of the adian apparently is casting his eyes towards new Ontario. He is a naturally born woodman. The axe and The axe and ally born woodman. The axe and the saw are the joy of his life and the opportunity to clean up the land is the temptation which draws him into that country. He takes to New On-tario as a duck takes to water. Coming down the line from the western limit of the clay belt as far as North Bay, there were always enough of these people on the train to keep up occasional conversation among the





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Book Department Farm and Dairy, Peterboro, Ont.

Cenadian Herds Do Well at the National

(Continued from page 5.)

was represented by Beauty Maid. champion butter producer over all breeds in the four-year-old class. B. Serena and Pennithorpe's Patricia. Van Pelt's choice for first place Dwof was last year's champion, exhibited by cfty, a fine Jersey head, good lines and a shapely udder. To many she did not look like milk. She was too did not look like milk. She was too smooth and "nice," and it was notice-able that when she was milked out her udder seemed as large and hard as before. Competition for second as before. Competition for second place was between Bull's B. Serena and Lasater's Willow's Brightness two cows were much of a type, carry ing large shapely udders that milked out "like a glove." The Canadian out "like a glove." The Canadian cow finally got second place and many would have liked to see her at the top. Beauty Maid, in this class, presented a problem. Her production was the greatest of anything in the ring by a great margin and she look-ed good for it. But she was a different type from every cow in the ringlarger and perhaps coarser. She had to go either first or last. To have wedged her in anywhere would have meant a very evident breaking of and placed her seventh,—just out of the money. His decision commended itself to all; Beauty Maid is a woncow but she is not the ideal type of the breed.

type of the breed.

To win second in such a class was no mean honor for the Canadian herd. In the next class, four-year-olds, Bull's came right to the top with Brampton Dot P., a daughter of Fern's Oxford Noble. She carried a magnificent udder with a good frame to support it. Longview was second and fourth and Lasator third. Seven entries. Hugh W., Bonneil, Youngatown, Ohlo, was first in three-year-olds with Selina of Minerva, with a two-year-old record of 9,378.5 lbs. milk and 533.7 lbs. fat. The Bull herd got sixth with Golden Fern's Amelia, in a class of twelve. The editor of Farm and Dairy did not see this class judged. We were helping the Canadian Ayr-shire men get out their display herd.

In two-year-olds, the Canadian herd did not seem to get as much as was properly coming to it. Their entry Brampton Sonata, grand champion at London, showed in splendid form, but got to only fourth place in 12 entries. Longview's Fontaine's Nema, picked for first, was a large cow with a shape ly udder but looked decidedly short in the rib. She was as straight under neath as on top. Fox's Majesty Maid in second place, shown by Mrs. C. C. Folch & Sons, Ohio, was a beautiful animal and would have looked well on top. Between her and the Canadian entry was a heifer with a very milky, shapely udder but almost deficient in compared conformation 98 Brampton Sonata.

Senior yearling heifers as usual were a mixed bunch.—some fresh, some just about due and others evidently only a short time bred. Built Bright Rosebud, another daughter of Vloia's Bright Prince, was showing a nice udder but not the capacity of a few of the others. She was a strong competitor, however, and Prof. Van Pelt mored her up a place at a time from sixth to second. In first place was My Rosary, first at the Nebraska and Krussa State Fairs, exhibited by Longview Farm, and a beauty. Twelve entries.

In junior yearling heifers it was noticeable that the American entries carried a great deal more beef than the Brampton young stuff. In fact, this was characteristic of the younger classes throughout. On this account in best Bull entry, B. Princess Agatha, got only a third placing in the class of 12. With more fit she would have gone one place higher at

least. Benior heifer calves brought out a magnificent class of 18 young-sters. First place went to Longview and second to Bull with Brampton Princess Long, a quality heifer but unfitted as compared with any of the others in the motey. In the Junior calf class Prof. Van Pelt announced that the first three calves, exhibited Ly Longview, Lasater and Walkley, were the best trie he had ever seen in one class and any one of them might have been first. Bull's were sixth, in fifteen entries, with a Bright Price calf.

The senior and grand championship went to the old cow, Oxford Majesty's Gipsy. The junior champion junior yearling heifer, You'il Do's Pet 3nd in the special classes for cows with official records, the score being based on both production and conformation, Buil's scored a notable triumph with Beauty Maid, who scored just one point less on conformation than her nearest competitor and had 300 lbs. more of butter fat.

Frampton Jerseys Win Graded Herd.

Probably the most notable achieve

cent of the Brampton herd was the capture of the graded herd first award over eight competitors. In the winding herd was the first prize three-year-old bull, second aged cow, fourth two-pear-old, second yearling and second calf. They won on uniformity. Longriew Farm second and third, an other win which reflects credit on Canadian Jerseys was first in class of five cows in milk. Headed by Beauty Said. Bull's hed a wonderful string of milkers and in this class with the second country of the second five consistency of the second five control for the second five results. The second five results of the second five five second fourth, in get of sire sixth (Viola's Bright Prince), and in produce of cow third. The display of

It is worth recording that the Canadian bed got into the money in every class in which they contended and stod: second only to Longview Farm in the number of high awards which fell to them. It was a creditable aboving.

QUEBEC AYRSHIRES
PROMINENT

TIST one-third of the Avrshires shown at Columbus were of Canadian origin. Of the 89 head out R. R. Ness had 20 head and Gilbert McMillan ninea Their competitors were Adam Seitz, Waukesha, Wis. whose herd has probably been more uniformly successful in the show ring than any other in the United States, Wendover Farm, Bernardsville, N.J., and The Newton Farms, Ashburnham Mass. The classes were not large but the competition, so far as it went, could not have been much stronger. On the whole the United States herds were more highly fitted than the Canadian entries and won several classes on fit. This was particularly true in the younger classes. With the two herds combined, Quebec won the spe-cial prize for best display of 15 anifrom any state province. or Other notable wins were the female senior and grand championship, first on aged bulls, first and second in the on aged buils, first and second in the aged cow class, first three-year-old cow, first two-year-old helfer, produce of cow and dairy herd of five cows. Prof. Kildee of Ames, Iowa, and Wm. Hunter, Freeman, Ont., fointly placed the awards.

There were but two entries in the aged hull class. McMillan's Lessnesses anck folden Love, grand champion at Ottawa, was an easy winner over Newton Farms' Cavalier's Klinford Ringmaster. Seltz had the only three-year-old and when the two aged classes competed for a special prise, the McMillan entry was again an easy winner.

Two-year-old bulls brought out two excellent individuals. Beits had his last year's grand champion, Cavalier's

Lord Stuart. This animal was fitted to a turn, and looked fine from the side, but from behind was peaked at the tail head. He was bred by the exhibitor from imported stock. his dam and grand-dam being winners The Ness entry, Hole-In Scotland in Scotland. The Ness entry, Hole-house Hopeful, was not carrying much flesh but looked a dairy bull bull all through with more scale than his competitor and stronger in dairy qual-ity. He is a coming bull, but on ac-count of 2t went to second place. In the tussle that then followed for the Wise senior championship, the bull won over Lessnessock Golden be accounted for on the ground that Mr McMillan was suffering from a mr. McMillan was suffering from a severe cold and feeling too miserable to show his bull to the best advant.

nee The yearling class produced grand champion in Nancy's Mint Master, from Wendover Farm. He deserve ed the honor straight and true to The one competitor in his class was Burnside Danty Piece, a good son of old Masterplece. The senior calf class brought out an entry which proved that color doesn't count on a good bull. Admiral Beatty of Wendover was almost solid brown, but of perfect conformation almost very stylish. In second place Selu had a typy fellow, but not so good in had a typy fellow, but not so good in the back and a bit throaty. The third animal was a big bellied, rather un-ahapely fellow, not as good a call as McMillan had next to him,—but the Canadian call seemed to have no it whatever. The junior calf class was third and fourth; lack of fit again. And here the question comes up, is it wise to put too much flesh on young animals? Is there a danger of such fitting interfering with future useful-

The Female Classes.

In the class for cows five years of and over, Ness scored a great triumal, securing first, second and sixth. His first two cows were the ones that ceupled the same places at Toronto and Ottawa. Harleyholm White Rois 3rd, with her great capacity and spleedid udder and veining was not a great deal ahead of Chapmanton Henry, a cow with perhaps a little more refinement and quality. MeMillan was third on Maple Leaf Jean, grad champion at Ormstown last sprig, but not showing to best advantage at Columbus as she was dry; and they are no dry cow classees at Columbus. The blacking of the four-wavely.

The placing of the four-yar-aic cowe looked like a mistake. The Weddover Farm entry was carrying a let of flesh and, having just freshead, she was in the finest of bloom, at the ringside, however, she looked patchy and her udder and teats woil not have been commended on a ew of any breed, much less the Arrahis. McMillan was second with a Casadian bred cow, Maple Leaf Lilly, Selt had a loow in third place that carried all kinds of quality. If anything she was almost too fine and lacked it constitution. McMillan was fourth at Burnside Maggie Finlayston 5th. Tailatter cow was dry. In her fresh form she would have been an easy winner in this class.

winner in this class.

There was close competition for first place in three-year-old cows. Non and a lovely quality animal with at almost perfect udder in Burnside Berar, while the Wendover entry was a good individual, exceptionally well intied but not equal to the forner in any of the real essentials. Mr. Non won. Seitz was third with the big gest cow in the ring, but lacking solid every control class with Queen Bess, a big bodiech heiter miking 40 has a 4th, but plain all over. Seits had a sib-neifer in escond place that miny would have liked to see on top. See (Continued on pages 113)

Tract

October 2

What are speed tractor various conditions

A speed doing h plow at twice to work at implements v endless break will follow su system of far by an educa source of sup where the im to back it up likely to fail not looking fo tell him how upon being sl tor motor tha ample in size : iberal in pro seem to spell the above unq lot up atator the per minute of opinion best i is the logical f that the explos slower than it the best result velocity of the to meet the c Avery Compan

As tractors a tires and no a more than thrimles an hour the machines shorten its life facturers, the where the gree ed. average two per hour and it speed, where t est.—Advance

Field work; miles per hour, at which plows do best work. excessive fuel of er tendency to & Sons.

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Tractor Ouestions

As asked by the Department of Agriculture of the United States and answered by Manufacturers of Farm Tractors.

Tractor Speed

What are your views as to the speed tractors should travel under various conditions, and why?

TRACTOR should travel at the speed of which the work it is doing has usually been done before. It is folly to attempt to pull a plow at twice the speed it was made to vork at. Plows and all kinds of implements will soon go to freces— endless breakages and many troubles endless breakages and many troubles will follow such practice. Such a new system of farming must be preceded by an educational campaign and a source of supply must be established where the implements can be secured to back it up. Even with this it is likely to fail because the farmer is not looking for some manufacturer to tell him how to farm and will insist upon being shown every inch of the The component parts of a tractor motor that is to endure must be ample in size and its bearings must be liberal in proportion. This does not seem to spell light weight nor vory high speed for the motor. In view of the above unquestioned requirements, let us state that abou. 600 revolutions per minute of the crank shaft in our opinion best meets the conditions.
Will state further that since kerosence is the logical fuel and it is well know that the explosive action is somewhat slower than it is with gasoline to get the best results with kerosene high velocity of the piston, would not seem Avery Company.

As tractors are now built with steel tires and no springs, road speeds of tires and no springs, road speeds of more than three to thee and a half miles an hour would be damaging to the machinery and unnecessarily shorten its life. Among most manu-facturers, the best working speed where the greatest power is develop ed, average two and one-fourth mile per hour and this is the usual plowing speed, where the pulls are the hard est.-Advance Rumely,

Field work; plowing speed 2 1-3 miles per hour, because that is speed at which plows and implements will do best work. Higher speeds mean excessive fuel consumption and greater tendency to breakage.-B. F. Avery

All depends upon conditions of the land. If free from stones or stumps three to three and one-half miles an hour, as at this speed one not only accomplishes a lot of work in a day but the soil is more broken up and loose than in slow plowing.—Elgin Tractor Corporation.

S tractors are mainly purchased with a view to their use in con-nection with plows, the speed of the tractor should be that which will best suit the plow with which it will be used. Plows were designed with a slope of moldboard suited to the average travel of horses. A ma-terially slower speed will result in the improper and inadequate turning of the soil and a materially faster speed than the average horse travels will result in throwing the soil too far and in ragged, uneven and unsatisfactory plowing. Plows might be designed to suit almost any speed of travel, but as a result of many years' manufacture they have been standardized as to shape and as to the speed producing most efficient results. Therefore it would hardly be feasible to entirely revolutionize the plow manufacturing industry to meet the presumed desire of some person for a plow that could be drawn at a greater speed, with the result that it would multiply types, be cause the manufacturer still would be compelled to furnish that type adapt ed to animal power.—Emerson-Brantingham Co.

For plowing, the proper tractor speed is two and one-third miles per hour. The present American designs of tractor plows seem to do their best work at that speed. At lower speeds they do not cover well and at higher speeds the same defect shows up and the work is irregular. For hauling, the work is irregular. For nauling, a speed of from three and one-half to four miles per hour will allow the tractor to handle large heavy loads without wasting time. A speed without wasting time. A speed of about one mile per hour is very handy for getting out of bad holes with, backing into belt, manoeuvring ma-chinery into confined places and simil-ar work.—The Four Drive-Tractor Co.

HE speed of tractors is necessary HE speed of tractors is necessar-ily limited by the ability of the moldboards of plows to turn able furrows. Machines designed suitable furrows. to operate with horses, such as mow ers, binders, reapers. grain drills ers, binders, reapers, grain drills, etc., will not work satisfactorily at much higher speeds than those at which horses walk. Higher speeds in tractors, therefore, would necessitate re-designing nearly all farm machinery for use with tractors only. There are a number of objections to this from a manufacturing standpoint, a few of which are—a division of pr duction between horse operated and tractor operated machinery; increased cost of production because of reduced volume of any one type of machine; radical changes in construc-tion to compensate for greater strains from operating at higher speeds; in-creased stock necessarily carried by dealers because of divided demand be-

tween horse operated and tractor onevated machine

Although the tendency seems to be toward higher speeds in farm work, toward ligner speeds in farm work, it is due, no doubt, to the change from horse power to mechanical power without realizing the limitations of mechanical hower. Some seem to have the idea that as long as it is a tractor it can be made to travel at an increased rate of speed and thus do more work. This, of course, brings up the point of drawbar pull. A tractor the point of drawbar pull. A tractor that travels two and one-half miles per hour will deliver 10 h.p. at the drawbar, having a drawbar pull of 1,500 lbs. This tractor under ordin-ary conditions will pull three plows, If we take the same tractor and give it a speed of three miles per hour, ita drawbar pull will be cut down to 1,300 lbs. and it no longer can be considered a three-plow tractor. In this case it would probably not be safe to use



your chores done, I see, John,"

Yes, chores are a simple matter now, with the BT Manure Carrier to help me. Have you finished yours, neighbor?"

"No. And somehow I hate them. Toiling in the mud with the wheelbarrow is a job for a slave. Labor is scarce, I can't hire a man to do it."

"I'd advise you to put in a BT Manure Carrier before winter." sets in. Come over now and I'll show you how she works, When you go home you write Beatty Bros. for their book, about the BT. They'll send it free,"

Tells you how to clean your stable in a few minutes. Tells how the slow old wheel-barrow and the stoneboat have become a thing of the past on many thousand Canadian Farms, Tells how to get the work done in spite of the (scarcity of help.

The BT Manure Carrier is worth more to you than a hired man. You can clean the stable quicker than four men could do it, if you will let the BT Carrier help you.

The BT runs on a level overhead track from the gutter to the pile. All the weight comes on the track and you have no heavy lifting. You can push the Carrier out many feet from the barn and dump the load, no matter what state the yard is in. It runs right over the snow and mud. No paths to dig in winter time. No slippery planks to lay in spring.

Clean handwheel to push with. Your hands never touch the manure.

This handle is used to raise the carrier. 14 pounds pressure on the handwheel will lift 500 pounds in the) bucket. You don't have to windlass; the bucket down. Just lift the handle and the carrier will drop to the floor by its own weight.

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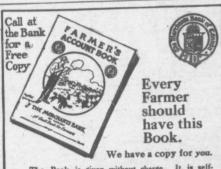


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In writing us in this regard address your letters—

LIVE STOCK DEPARTMENT

Peterboro, Ont. Farm and Dairy

over two plows. This same tractor pulling two-plows at three miles per hour will only do four-fifths as much work as it will pulling three plows traveling two and one-half miles per hour. It will thus be seen that there are two main things to take into con-sideration in determining the speed of sideration in determining the speed of a tractor; first, that the greater tho speed for a given size the smaller the drawbar puil. Now in order to pull the same number of plows at an increased speed it would be seen sary to increase the horse to the engine. There possed in the speed from a life possible to the speed from a life possible to the life to the speed to the speed to the speed the speed to the s of the tractor, to increase the weight and size means an increase in the original cost and in reality results in turning it to a large tractor and get-ting away from the economical small aize tractor.—International Harvester

UR experience has also justified O us in the belief that a tractor which will maintain an average plowing speed of two and one-hair miles per hour under practically all conditions, will give the maximum of satisfaction. This speed is as high as any piews at present are adapted to new with satisfaction, and anything use with satisfaction, and anything less than this means less work accom-plished than should be expected or is economical. If tractors are intended to travel on the road to any great extent it is possible that somewhat higher speed might be desirable, although additional speed means the increase of transmission gears, a comparative loss of power, and increased wear and tear with a possible source of dam-age to the tractor itself by being wrecked by the higher speed.—La Crosse Tractor Co.

TRACTOR, to be absolutely satisfactory, must be so governed that it can be run at practically any speed at which the implement operates best. It is not practical or possible to get best results with a har-vester, a plow, a disc harrow, a cultivator or a mower, operating them all at fixed speed. It is very necessary to have a controllable governor that will permit the machine to pull its maximum load at any speed, from one to three and one-half miles per hour. There is much work such as mowing, binding, lay-by cultivating, certain binding, lay-by cultivating, certain types of plowing, discing, etc., that can be done better at a speed of three or three and one-half miles per hour than at a lower rate of speed.—Moline Plow Co.

Plow speed must be governed by the character and condition of the soil to be plowed. In heavy or old ground plowing a speed of from two and onequarter to two and one-half miles per hour will ordinarily best turn the furrow slice. In light stubble plowing a speed of from two and ene-half to three miles per hour will be found to three miles per hour will be found to turn the furrow slice, as it will not only overturn it thoroughly but in do-ing so will pulverize it, provided of course, the proper shape bottom is

The husband of one of the local churchgoers had set out on a sea voyage, and the wife wrote and requested the parson to conduct a prayer for his safety.

Imagine her confusion, however, hen on Sunday the parson read serenely:

"Mr. Sparkes, having gone to see his wife, desires the prayers of the congregation on his behalf."

What she intended to be read out

was this: "Mr. Sparkes, having gone to sea, his wife desires the prayers of the congregation on his behalf."

Orchard and Garden

Orchard and Garden Notes

RIM and lay down the grape vines ready for covering as soon rines ready for covering as soon
as the ground begins to freeze.
Good celery can only be obtained
by a liberal supply of moisture, food
and careful blanching.
Cover roses with either soil or
straw, taking particular pains to keep
them dry during the winter.
The is a roof time to rid the say.

This is a good time to rid the gar-den of weeds. Collect all green maden of weeds. Consect an green materials in the garden and either burst them or pile them in such a way that they will decay.

Tulips, hyacinths, daffodils and cro-

cuses planted at this time of the year will give a variety of flowers in the

will give a variety of flowers in the window garden next spring.

A good collection of butternut, walnuts and other home-grown nuts should be made at this time. These, properly dried and stored, will be much appreciated during the winter. Plant outdoor tulips about three inches deep in well drained land. If the bulbs cannot be obtained before

the bulbs cannot be obtained before the ground freezes, it is well to cover

WHY A SECOND VICTORY LOAN?

W HEN Sir Thomas White Issued his first Victory Loan last autumn the Dominion Government had come Dominion Government had come to the point where our further participation in the war depended absolutely upon the securing of a large advance of money from the private funds of the people of Canada. The response to the Minister's appeal to the Minister's appeal was magnificent. Over \$420,000,000 in Victory Bonds was subscribed. With the ever-increasing cost of the war all of that sum has been expended and the Government is now financing the war on advances from the chartered banks. As great, If not a greater sum than was raised last time is now needed, If we are to maintain our share of the burden of the war. It was vitally essential that another Victory Loan should be floated this fall—and that it shall not fail.

the bed with straw to prevent freezing until the bulbs are planted

In order to get good seed of sweet corn or popcorn it must be thoroughly dried before it is subject to cold. Hanging in an open, warm, ventilated room or shed, or even outdoors on bright days, is a good way to accomplish this.

Put a good supply of rich garden soil in the basement or cellar where it will be available for use in sowing seed and making the hotbed next spring.

It is said that oak leaves are spleadid material for storing vegetables in over winter. The leaves from the soft maple and basswood are too light and collect moisture too easily. Only dr, coarse leaves are desirable for this

Many of the garden flowers, such as geraniums, nicotiana, petunias and others, may be lifted and grown until early winter in the house. places may be taken in late winter and early spring by a judicious selection of flowering bulbs. These all prove especially valuable for use in

"Going to France?" asked a travel-

'Going to France!" asked a travi-ling man at the station of a nego soldier. "No, sah! I'se not going to France," replied the dusky soldier. "The golf to Berlin, but I may stop in France for a shawt time on de way."

Canad

lacked size and was de the judges, But the bes gone down. n Drumsin Barbara 2nd a Ryanogue

Senior y problem. animal of th 2nd, first at the superior interfered v was first on while Seitz same herd w The junior 3 Ness fourth. the senior c 1st, 2nd and, well fitted. junior champ aller's Silver 4th and 5th.

Maple Lea umph for M yearly recor score for bot mation. She the year. Seitz w 9,256 lbs. mil grand champ but her Scot ceptable. He side Maggie

For the fir fused to agre were very eve was called in lay Farms, P secured 1st. Seitz fourth. ers' calf herd 2nd. In get and 4th, Ness Masterpiece. Millan was fir Ness 3rd.

In the clas animals in m the front and mals from an combined here Wisconsin an one of the m the day.

HOLSTEI W HEN M sota, jud ber, Farm and the entries at pare with corr National Dairy in most classe tops at the Na high quality the tional. As the be hard to co Toronto had o seldom drops l black and whi ably, however, in a goodly nu have won a ronto. There would not hav ronto, and greater compe Canadian show most interestin

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Canadian Dairy Herds Do Well at the National

(Continued from page 8.)

lacked size as compared with the first and was deficient in the rear udder. No one would have quarrelled with the judges, however, had she gone up. But the best dairy animal would have gone down. Ness was third and fifth on Drumsine Primrose and Barnside Barbara 2nd, and Wendover fourth on Parangua, helder.

a Ryanogue heifer.

Semior yearling heifers were a problem. Undoubtedly the quality animal of the lot was Burnside Randy 2nd, first at Toronto and Ottawa. In and, first at Toronto and Ottawa. In every point except size and fit she was the superior helifer. Because of these two points and a bruised hock which interfered with her walk, she went down to fifth place. Wendover Farm was first on a very mature, big beifer, while Seltz was a close second. The while Seltz was a close second. The other was the second was the self-was a constant of the self-was a self-w 1st, 2nd and 4th on nice uniform stuff, well fitted. Ness was 4th and McMilwell fitted. Ness was 4th and McMillan 5th. The junior class produced the junior champion in a Seitz heifer, Cavalier's Silver Actress. It was a win on fit. Ness was 2nd and 3rd, and Seitz 4th and 5th.

4th and 5th.

Maple Leaf Jean scored a nice triumph for McMillan in the official
yearly record class, earning first in
score for both production and conformation. She has 12,352 lbs. milk in maton. See has 12,552 lbs. milk in the year. Wendover Farm was sec-end, Seitz was third on a cow with 9,256 lbs. milk. Ness had entered his grand champion cow in this section, but her Scotch records were not ac-ceptable. He secured fourth on Burnside Maggie Finlayston 5th

Group Awards.

Ness 3rd.

In the class for a dairy herd, five animals in milk, Ness again came to the front and had a walk away. In a special prise for a display of 10 animals from any State or Province the combined herds of Ness and McMillan earried the honors, for one McMillan combined horus of Ness and meaning carried the honors for Quebec against Wisconsin and New Jersey. It was one of the most spectacular wins of

HOLSTEINS AT COLUMBUS

HOLSTEINS AT CULUMBUS

HEN Mr. Moscript, of Minnesota, judged the Holsteins at the
Canadian National last September, Farm and Dairy saked-him how
the entries at Toronto would compare with corresponding classes at the
National Dairy Show. He replied that
in most classes there would be better
tops at the National, but, for uniform
which quality throughout the Canadian tops at the National, but, for uniform high quality throughout, the Canadian show was fully the equal of the Na-tional. As there were only 69 Hol-steins at Columbus last week it would steins at Columbus last week it would be hard to compare the two shows. Toronto had over 200 this year, and seldom drops below 150 entries in the black and white classes. Unquestion-slay, however, the tops at Columbus, ally, however, the tops at Columbus, and the columbus of the seldom to the se would not have had a look in at To-ronto, and considering the much greater competition at Toronto, the Canadian show is by all means the most interesting. In other years, how-ers, entries at Columbus' were at least twice as numerous with corre-spondingly greater interest. The ab-sence of Mr. Huiet, also, robbed the Robistan classes of interantional inter-ust. The exhibitors were R. E. HasFrom page 5.)

gar, Algonquin, Illinois; Mayswood Farms, Rochester, Minn; Cass Farm Co., Summer, Iowa; Chestut & Farm Co., Summer, Iowa; Chestut & Farm, Hickley, Illinois; H. O. Larsen, Dike, Iowa; Lamb & Moon, Bowling Green, Ohio; A. R. Black, & Sons, Lansing, Michight; Daisy Hill Farm, Chagrin Falls, Billinois; J. Seberger, Shererville, Millinois; J. Seberger, Shererville, Indiana, M. Seberger, Shererville, Indiana, M. Seberger, Shererville, Calladiana, Mental Mayone or two entires were exceptionally veil fitted.

Mature bulls brought out two sees.

ally well fitted.

Mature bulls brought out two sensational entries—Johanna's Bonheur
Champion Zawa owned by Chestnat &
Sons, and Paul Calamo Korndyke, exhibited by Haegar. In conformation,
quality asize both were models for
their breed. The Kansas entry had a
little advantage in style of carriage
at the style of carriage and the style of carriage.

Ittle davantage in style of carriage and the style of the style o and got hist, and the grand champion-ship. Mayswood Farm was third on a big dairy looking bull, but not smooth enough. Three-year-olds brought out bag daary seeking outs, out not not should be enough. Three-year-olds brought out of use three entries. Cass Farm Co. had the winner in King Aaggie Hengerveld, a stylish bull, but with hardly as much capacity as Johanna McKinley as the way of the house of the roughest bulls we ever saw in the entry in third place was one of the roughest bulls we ever saw in the entry in third place was one of the roughest bulls we ever saw in the entry in third place was one of the roughest bulls we ever saw in the entry in third place was one of the roughest bulls we ever saw in the pushes and the place of the p awards follow:

awards follow:
Bull, 2 yrs, old: 1, Fayne Bessie
Homestead, Cass Farm Co.;2, Pearl
King Segis Poulac, Haegar.
Bull, 1 yr old: 1, Johanna Glenda
Lad, Mayswood Farm; 2, Aconeth
King Segis Foulac, Haegar;
Bull, senior cail: 1 and 4,
Haegar;
2, Mayswood Farms; 3, Lamb & Moon.
Bull, Junior cail, 9 entries: 1, Mayswood Farms; 2, Cass Farm Co.; 3,
Haegar; 4, Dalsy Hill Farm; 5, Evans;
6, Black.

Holstein Female Classes.

Minerva Beets, Haegar's 13-year-old cow, was this year grand champion of the National Dairy Show for the fifth consecutive year. We had anticipated consecutive year. We had anticipated seeing a model cow, and we were not disappointed — a beautiful feminine head and neck, a straight top right to news and neck, a straight top right to the tail head, great capacity, and a shapely capacious udder that handled like a glove. Where to improve her would have been a question. She was so good that she made a lot of other good cows in her class look above. good cows in her class look almost good cows in her class look almost mediocre. Altogether there were eight entries. The second place cow seemed to lack capacity for her high placing, and outside of the first cow we have seen stronger class complacing, and outside or the first cow we have seen stronger classes. There was no competition in the four and three-year-old classes. Mr. Haegar In the helfer classes Mr. Haegar was almost a consistent winner. Two-vaspadids bruncht out aways capties.

year-olds brought out seven entries; hardly a uniform class, but with four nardly a uniform class, but with four nice heiters at the top. Senior year-lings brought out five as nice heiters as we ever saw together. A class of Ayrshires could not have been more uniform. Junior yearlings were four in number and very good. The sensa-tion of the calf classes. tion of the calf classes was K. S. P Tantalus Calamo, a daughter of King Segis Pontiac, shown by Haegar. She was as sweet and true as a calf very well could be, and Mr. Moscrip has all out in the ring examining her. "The best heifer I have seen this fall," he announced. In the group classes, as in the females, Mr. Haegar was pre-dominant. Awards in full follow:

Hostein Awards: Female.

Cow, 5 yrs. and over: 1, Minerva Beets, Haegar; 2, Almedia Luccke Hengerreid, Cass Farms; 3, Fern-wood DeKol, Mayswood Farm; 4, Segis Walker Gelsche, Haegar; 5, Netherland Clothilde Idyl Burke, Reegar; 5, Prilly Clothilde DeKol, Haegar;

Cow, 4 yrs.: Aconeth Lady Henger-veld, Haegar. Cow, 3 yrs.: Nancy Calamo Korndyke, Haegar.

Heifer, 2 yrs.: 1 and 5, Lady Calamo Hengerveld and Tantalus Calamo Hengerveld and Tantalus Calamo Hengerveld and Tantalus Calamo Korndyke, Haegar; 2 and 3, Almeda Luecke Hengerveld 5th and Mercedes Aaltje Johanna, Cass Farms; 4, Johanna Ondine Soo, Mayswood Farm. Helfer, senior yearling; 1, Evans; 2 and 5, Mayswood Farm; 3, Cass Farms; 4, Haegar, 7

Farms; 4, Haegar.

Farms; 4, Haegar.

Heifer, junior yearling: 1 and 2,
Haegar; 3, Cass Farms; 4, Evans.
Heifer, senior calf: 1, 4 and 5, Cass
Farms; 2, Mayswood Farm; 3, Haegar; 6, Evans,
Heifer, junior calf: 1 and 5, Haegar;
2 and 4, Cass Farms; 3 and 6, Mays-

wood Farm.

THE BROWN SWISS

S the Brown Swiss a dairy breed? They were judged at Columbus the same day as the Ayrshires, and between classes the Ayrshire fanciers, sure of the status of their own breed, discussed the proper classification of this, the newest breed, at the National. In all there were 56 entries, and of the entire 56 there was only one that carried an udder which would have commended her to a fancier of any of the standard breeds. She was an old cow belonging to Hall Bros, Painesville, Ohio, and was only second in her class; somewhat undersized, it seemed. Almost all the other udders were extremely pendulous and the teats awkwardly large. Neither did the large, coarse frame suggest great powers of production. One of the powers of production. One of the Hall brothers showed the editor of Farm and Dairy some figures in production, however, which were as-tounding. In the Hall herd are 30 cows in advanced registry. One of them has a yearly record of 17,559 lbs. of milk and 664 of fat. A two-year-old heifer has 13,173 lbs. of milk and 486 lbs. of fat; a three-year-old, 14,500 of milk and 549 of fat. L. S. Marshall & Sons, Leslie, Mich., had a cow at the fair with an official record of 17,420 lbs. milk and 662.4 lbs. fat. These are good and creditable records and seem to justify the placing of the Brown Swiss on the prize list as a dairy breed

Hall Bros. had the senior and grand champion bull, the junior champion bull, and the senior and grand cham-pion cow. Marshall had the junior champion female. A third exhibitor pion female. A third exhibitor W. O. Bohart, Bozernan, Mon-

GUERNSEYS AT COLUMBUS

UERNSEYS are a numerous and a popular breed in the United States, occupying a place of third importance among the dairy breeds, being much more numerous than the Ayrshires. There have been years when they were more numerously represented at the National than any other breed. This year there were just 67 Guernseys on the grounds, but they represented the the company of the proposented that the company of the proposented that the the second of the company of the proposented that the the pro were just 67 Guernseys on the grounds, but they represented the pick of seven herds. Among the exhibitors were laind Farm and D. D. Tonney, of Minnesota; O. W. Lehenam, Illinois; Raemelton Farm, and Davis Farm, Ohio, and Mountain Bros. and W. W. Marsb. of lows, and they were good cattle. It is safe to say that such an axhibition of Guernseys at the Cana-dian National as was shown at Colum-bus last week would stir up an interest. bus last week would stir up an interest in the neglected breed in the central provinces of Canada. They are al-ready fairly well known in the Maritime provinces and in British Colum

The bulls were big, straight fellows with considerable more size than the with considerable more size than the Jersey. Probably they would be very much of a size with the prainting pred. The cowe achieved we good size, but none of them carries are good size, but none of them carries large, capacious udders that were characteristic of the milk classes. In the other three breeds. Some, too, showed a tendency to sag in the back. They must have a capacity for milk production, however, as six cows, of

the breed have produced over 1,000 lbs. of fat in the year.

In the, female classes, Ladysmith Cherub, the mature bull and grand champion last year won again this year for D. D. Jenney. Mountain Bros. had the best two-year-fold in Kitchnon and the state of the stat and grand championship was awarded to Bella 2nd on Grand Fort, exhibited by Island Farm. Jenney's Pearl's Dot. in the four-pear-old class, was a nice dairy animal. Jenney won in two-year-olds and Marsh in senior year-lings. The junior female champion was found in the junior calf class—My Figtree of the Prairie, exhibited by Marsh. In the group awards W. W. Marsh was almost uniformly successful.

The Machinery Age

NE of Our Folks, living at Mano-tick, Ont., has been sending her copies of Farm and Dairy across the ocean to her brother in England A short article concerning the coming machinery age attracted the attention of this brother across the sa, Mr. Thos. Clarvis, who writes us as follows:

"The three copies last received by me are May 9th, 16th, and 23rd, and in the paper for the 23rd you give an illustration of a huge tractor, drawing a large Cutaway disk harrow, and you ask the question, its this prophetic of a coming machinery age? My answer to this st hat, to my mind, extremes in either direction are not productive of the best results. I would not like to in either direction are not productive of the best results. I would not like to think that we ought to go back to the so-called 'good old days', when the scythe, the sickle and other crude tools, such as the fisil, the old wood plow, and heavy wooden harrows, were used to break up the fallow ground. Then it was when a man, atrong in back and arms and clear of rheumatics, had to find the latitude and longitude of broad acres, with a seed hopper, filled with seed grain, in front of him. and had to evenly scatter the good seed. That was one extreme. And somehow I seem to 'think the other somehow I seem to think the other extreme would be, shall I say, as bad. We do not want the remedy to be as bad as the complaint; therefore, if we can strike the happy medium, at any rate at present, I think that will be the

I would not like to relegate the use-"I would not like to relegate the use-ful animal, the horse, to the equin-escrap heap. He has not had his day yet. There is a lot of good work that horses can do better than anything else, and I would like to see the plan revived of keeping a couple of spare scidings. Or profess his geldings, or preferably mares, and in-stead of your work on the farm driv-ing you, you would be driving the work; and as the season came round you would then be ready to plow and you would then be ready to plow and sow, to reap and mow, at the proper time. I never knew an afternoon farmer who kept clear very long of the bankruptcy court: I have known several farmers who, instead of just keeping four horses to work 100 acres, kept six, and out of the six always had keep magneting field. The wundth that the several field the work of the six always had the magnetic field. The wundth that the several field the work of the six always had the magnetic field. The wundth that the several field the several field the several field that the several field that the several field the seve two mares in foal. To my mind that is the most commonsense way of farming. Breed and feed your own horses, cattle, sheep and hogs. Buy everything caute, sheep and nogs. Buy everything at the cheapest market, and sell at the dearest. Keep your weather eye open. Be a lover of home and fresh sir. Go straight, and success will crown your efforts. Trusting you will accept my humble opinion for what it is worth."

Farmer: "Just hold that horse's head while I get down, will you, missie?

New Land-worker: "Which one?" Farmer: "Why, the off 'un, to be

Land-worker: "I'm awhilly sorry, but I don't know anything about horses, so I can't tell which one of them is an orphan!"

Narm and Nairn

Rural Home

"The Farm Paper for the farmer who milks cowa."
Published every Thursday by The Rural Publishing Company, Limited
Peterboro and Toronte.

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The Rural Publishing Company, Ltd. PETERBORO AND TORONTO

"Read not to contradict and to confinte nor to helieve and take for granted, but to weigh and consider."—

If Peace Came Tomorrow

WO weeks ago last Sunday rumors were current, particularly in rural districts, that peace had been declared; that the war was over. How every mother's heart lightened! We began to speculate as to how long it would take for the boys to get home. Would they be with us for Christmas dinner? The general opinion seemed to be that all our really great problems were solved. Of course, it was only a rumor that was quickly dispelled when the newspapers arrived on Monday morning. Peace may be yet in the distant future. But if peace were to be declared to-morrow, what?-

There would be no new munitions contracts. Recent contracts would be cancelled wherever possible. There would be no feverish haste in fulfilling contracts which still hold. Some 300,000 munition workers, now working full time or over time and drawing the highest wages known in history, would be unem ployed, or working only for a few hours each day. With the conclusion of wartime haste in our factories, wages would drop immediately and unrest and dissatisfaction would be prevalent.

On the top of unemployment at home the boys would be coming back by the thousands. Every seaworthy ship would be working to capacity to pour into their old towns and townships over 400,000 menwithout a job. The same ships that carried the men back to the far East would on their return voyage carry the stored-up grain of Australia and India with a consequent depression of European grain markets. Oh, we will give the boys a royal welcome. We will be glad to see them. We will rejoice with their rejoicing mothers, fathers, brothers, sisters and sweethearts. Our own loved ones will be among them But what are we going to do with them? Truly the problems of peace will be as great as the problems of war and, if wisdom be lacking at the helm, the people of this continent may be thankful if Bolshevikism does not soon reign in America.

So far, Canada has done practically nothing in pre-paration for the reconstruction period; that is, noth-

FARM AND DAIRY

ing as big as the occasion will demand. The only reconstruction organization in the land, we have every reason to believe, was organized for purely selfish motives. Surely it is time that our legislators were awakening to the tremendous responsibility that faces them. Farm and Dairy does not pretend to have a complete programme of reconstruction to offer. We believe, however, that this should be the main subject of all public discussion newadays. It should receive more consideration at the hands of our legislators and our leaders in every walk of life than any other single subject. The military situation is now well in hand. We would that we could say the same for the reconstruction problem.

A Sure Thing

THE well equipped farm of moderate size has approximately \$2,000 invested in machinery and equipment. The interest on that investment at six per cent amounts to an annual charge against the business of \$120. This is an expense we must all meet, the most careful along with the most careless. When we come to figure depreciation, however, we find the widest variation. On some farms the average depreciation on all the implements owned is not less than fifteen per cent, an annual charge against the business of \$300. On other farms the depreciation is as low as six per cent, and the annual cost of repairing and renewing implements will be, therefore, only about \$120. The range of \$180 in depreciation charges is due to extreme care in handling and housing the implements at the one end and to extreme carelessness at the other. The most of us are somewhere between the two extremes

The loss due to carelessness and neglect in handling farm implements constitutes an increasingly heavy strain on the farm finances, this because of the mounting cost of replacement. Freight rates have advanced sharply in the last few months; the difference has been added to the price of the machinery. The manufacturer must pay his men higher wages; this also is added to the cost of the goods. Raw materials, such as pig iron, have advanced several hundred per cent in price since the war began and this, too, will be added to our implement investment. To reduce our depreciation, therefore, is just clinching a sure thing.

It is human nature to prefer the sure thing. Few investors will risk their money on an equal chance of great profit or total loss. The man who neglects his machinery is now sure of considerable loss with no chance of profit. A reduction in the annual charge for depreciation is just that many more dollars in our pocket, instead of the pocket of the implement dealer. Reduced depreciation is possible by careful driving or handling, the free use of lubrication oil and proper shelter. The latter point is especially seasonable just now as the fall work draws to a close and field implements should be housed for the winter.

Taxation Folly

HE national debt of Canada has passed the billion mark. It bids fair to reach another half billion at least. The requirements of the government for interest, sinking funds, pensions and other annual charges will be tremendous for genera tions to come. Commenting on the present Federal policy for the raising of revenue, "The Square Deal"

"We have taxes on cheques and notes, taxes on lessers, patent medicines, matches and hosts of others which interfere with trade out of all proportion to the revenue produced and some of these take from the people may those the amount received by the Government. So ignorant are the members of the Government on the subject of land values taxation that row centre declares actually advise the purchase of vacant land, stating as an inducement that it exempt from war taxation. Here is a value that is created by the presence of the people, and added the by fovernment service, and it is of such a nature that give the country was the land values of Canada volude utility and the country was given to German the country was given to German these present owners would have their land values that these values should be selected as the subject of special taxation?"

A tax on the products of industry is an obstruction "We have taxes on cheques and notes, taxes on

A tax on the products of industry is an obstruction

to prefitable business. A tax on the unimproved value of land is an encouragement to all legitimate industry. As "The Square Deal" intimates, our governments so far have preferred to follow the first course. But there is a better day dawning in taxation matters. The organized farmers of Canada are becoming a mighty force, and their influence is being used in the interest of direct taxation, the kind of taxation that gives the government one hundred per cent of the money collected, and does not require the public to pay out from three to five dollars in order hat the government may have one, as is often the case at present. The western farmers' representatives at Ottawa, including Mr. Crerar in the Cabinet. are advocates of such direct taxation. We believe that stern necessity will also aid in tax reform. But the people themselves must first understand the prob lems of taxation and demand the reforms that will soon be so vitally necessary. It is seldom that we find a government that will lead public opinion in vital reform measures. There is no question that local clubs can discuss with greater profit than the problems of taxation.

The Demand for Cheap Food (Journal of Agriculture.)

HE public is clamoring for cheap food, but it willing to pay more for pig iron, for shoes, for clothing, for furniture, for books, for transportation and many other things. The question naturally arises in our minds; why should the farmer be singled out for such treatment? If, on the one hand, the increase is justified on the ground that fair standards of living may be maintained for the wage worker, the increase should also hold good in the case of the agricultural worker on the other hand.

Canadian farmers are not going to produce food on the Chinese scale of living. Prof. L. H. Balley in a recent address, said: "We cannot have a democ racy with an American standard for industrial workers and a Chinese standard for the agricultural worker. It is a dangerous fallacy that our problem is to produce the greatest quantity of food at the least cost. Our democracy is made out of men and wemen, not out of corn and potatoes."

Cheap food has been obtained in the past by the exploitation of new lands, by robbing the soil, and by paying low wages. A continuance of such methods would result eventually in the depopulation of the country districts and the abandonment of farming. Our city cousins do not seem to realize with Plunkett that, "Modern civilization is one-sided to a dangerous degree; it has concentrated itself in the towns and cities and left the country derelict, and if the downward tendency cannot be checked it will ultimately bring about the decay of the towns themselves and of our whole civilization," or with Bailer, that "the cities have grown at the expense of the country, and the cities' gains have cost the country dear in abandopod farms, weakened schools and churches, and discouraged communities drained of their vitality."

Country life must be satisfying financially, sortally and intellectually.

Keep the Wheels Turning

P EACE rumors should not be allowed to intercase for the Lean under all circumstances is irresistible. It would be but playing Germany's game to listen to the peace offensive. For Canada, and the rest of the Allies, the war is at its height. To-day the war is costing Canada over \$1,000,000 a day, and is stead of becoming less, the expenditure, if anything is rising. This year the country's war bill will be \$400,000,000. Last year when \$430,000,000 was subscribed to the Victory Loan, this was considered a big thing, and so it was; but it only equalled Carada's war bill for 1918.

Canada can get all the war orders she can handle and Great Britain will take nearly all her surples agricultural products, but our people must provide the money to finance the sales. If this is not done Canadian industry must slow down, and all move what this means to the workingmen now employed at high wages. The Victory Loan must be made a sec-cess whether peace comes to-morrow or a year heat.

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St. Peter Stree

October 24, 1

Ontario Meeting Called

N importar executives ers of On Farmers Coopera The Farmers' P Limited, and rep United Farm Wo be held in the off sations in Toront 28 and probably o as well. The m mesting is to dra farmers' platform the annual conveganizations, which ronto in Decembe ter calling this me rison, the secre jects of the meeti "For some time impression that th

Movement h have a policy or, principles to whi those holding the themselves, and al are wandering in uncertainty to at aims. The condition in Canada makes we should take end at once. Ma have spoken to me "Therefore, I am

of the executives U. F. Co-operative ers' Publishing Co. formulate such a ; give direction to or interests of the per mendations will, of to the annual conv

'Reconstruction under consideration fessional and finar ture alone having Such a condition well as unfortunate "In the political

demanding recogni sentation and ridi pected to be opened ed by farmers rega affiliations. This parent that such p the following appea

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A farmers' pl them something to "To discuss this ing will be held in the U.F.O., 180 Kim to, on Monday, Oct ler

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Ontario Farmers Will Prepare Platform

Meeting Called for This Purpose. Should Farmers Enter Politics ? Will Prepare for After-the-War Conditions

A N important meeting of the executives of the United Farmers of Ontario. The United Farmers Cooperative Company, Ltd., The Farmers' Publishing Company, Limited, and representatives of the United Farm Women of Ontario, will be held in the offices of these organizations to Taxonian on Manday, Ontober States. be held in the offices of these organi-ations in Toronto on Monday, Outsber 23 and probably on the follows as a 23 and probably on the follows as well. The main purpose of an armers' platform for submission at the annual convention of these or-ganizations, which will be held in To-ronto in December. In a circular let-ter calling this meeting Mr. J. J. Mor-rison, the secretary of the United Farmers of Ontario, states the ob-jects of the meeting as follows: "For some time past it has been my

"For some time past it has been my impression that the Organized Farm-ers' Movement in Ontario ought to have a policy or, at least, a code of principles to which it could direct those holding the same views as themselves, and also to ask those who are wandering in the wilderness or uncertainty to at least consider cur aims. The condition of public affairs in Canada makes it imperative that we should take action toward this

we should take action toward this end at once. Many prominent men have spoken to me about it. "Therefore, I am calling a meeting of the executives of the U. F. O., the U. F. Co-operative Co. and the Farmers' Publishing Co., as a committee to formulate such a policy as well as to give direction to our movement in the interests of the people at this time of national uncertainty. Their recom-mendations will, of course, be subject

to the annual convention.

"Reconstruction after the war is under consideration by business, pro-fessional and financial men, agricul-ture alone having nothing to say. Such a condition is humiliating as well as unfortunate for our industry. "In the political field farmers are

demanding recognition oven repre-sentation and ridings opened or ex-pected to be opened are being contest-ed by farmers regardless of old party affiliations. This situation is so ap-parent that such press comments as the following appears: the following appear:

"In several Ontario ridings can-didates have been chosen by local branches of the U.F.O. to contest by-elections. The next step is to provide these men with a platform that will represent the ideas and ideals of the United Farmers of Ou-tario. Then will come the task of taris. Then will come the task of convincing the rural electors that both the men and the platform are worthy of support. Until these things are done, the candidates are little more than free-lances, running on their own hook," as the saying regil. saying goes!

Farmer candidates are "in the sir." A farmers' platform would give them something to stand on.

To discuss this situation a meeting will be held in the Board Rooms of the U.F.O., 130 King St. Sinst, Toronto, on Monday, October 18th, com-

mencing at 1 o'clock p.m., and con-tinuing until a decision is reached. Come prepared to state your views. "Consideration should be given to our after the war policy, production and its requisites, taxation and exemptions of same.

"The returned soldiers' problem.
"U. F. O. attitude toward independent Parliamentary representatives and the advisability of the U. F. O. forming an independent. forming an independent party in Par-

"Our attitude toward the Dominion

Franchise Act.
"Our attitude toward forming an Eastern section of the Council of Agriculture.

"Our attitude toward orders in ccuncil and the Imperial War Cabinet. "Any question pertinent to the wei-

Any question pertinent to the wur-fare of our industry, our people or our country may be introduced."

From the foregoing it will be seen that many important subjects are to be considered. Those interested in the movement in Ontario who have suggestions to offer might write direct to Mr. J. J. Morrison, Secretary of the to air, J. J. Mofrison, Secretary of the United Farmers of Ontario, 2 Francis Street, Toronto, or to Farm and Dairy, in reference to them and we will see that they are submitted at the meeting for consideration.

The Quebec Farmers Aggressive

THE opposition that is appearing in portions of the province of Quebec to the extension of the recently formed United Farmers of Quebec, is stirring up the supporters of the movement and leading to some lively meetings being held where the farmers and their opponents meet.
Mr. Bouchard, the Provincial Organizer, held a meeting recently at Marieer, held a meeting recently at Marie-ville, where a meeting had been call-ed by Mr. Marcell, who is said to be some too friendly to the farmers' movement. Mr. Bouchard spoke so effectively that on a motion of con-fidence in the farmers organization being submitted to the meeting it being submitted to the meeting it was carried with only three dissent-

ing votes.

At a meeting held recently at Thurno, Quebec, where opposition to the United Farmers of Quebec was shown, the farmers were criticised because the speaker in their interests had favored the 'initiative,' "referendam": and "recall" in his remarks that favored the 'initiative,' "referendam'. And "recall" in his remarks that Mr. V. T. Doherty, of Buckinghan, Que, a wide-awake supporter of the United Farmers of Quebec, was an agent of the Minister of Agriculture. This, Farm and Dairy knows is not the case, as do the Rarmers who ture. This, Farm and Dairy knows is not the case, as do the farmors who know Mr. Doherty. By some it is believed that the opposition to the movement rises mainly among the middlemen. This may account for the effect to discredit Mr. Doherty, who was instrumental last spring when merchants were asking \$4 for seed wheat in having the price reduced for the farmers to \$4.20. Where ed for the farmers to \$4.20.



T is surprising to see how many firms hang on to antiquated time-wasting methods of entering orders and writing invoices-methods which invite errors through poor handwriting, illegible copies and numerous transcriptions.

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feeds to buy when prices are high—the cheapest feeds to grow on
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Peterbore, Ont.



TIRTUE is like a rich stone best

When Ambition Won

By John R. Spears. (Farm and Fireside.)

NE morning in April, while Dr. James Kelly was raking the lawn in front of his house in High Falls,—a mill town at the edge of the Adirondack Mountains,—a boy of the Adironaeck Mountains,—a loy about fifteen years old stopped at the front gate and looked as if he would like to enter the yard but was afraid

to do so.

Seeing this, the doctor turned to a neighbor who was leaning over the line fence and, grinning in a provoking

way, said:
"Now, Billy Hanlon, if you don't
let the kid alone I'll tell his father to
refuse to go hunting rabbits with you

"Huh," replied Hanlon, "much hurt that would do me! If I showed him a dollar bill he'd crawl all over the Pine Plains to get it."

The boy flushed, but made no comment. The doctor frowned, and then invited the boy in.
"Don't mind him, Jefferson. He's daffy anyway," he continued. "I see by your looks you don't need any of medicine. Is any of the family sick?"

"No, sir," replied the Boy; "I would "No, sir," replied the boy; "I would like to buy that lime back there, sir." He pointed to two barrels of lime standing beside the stable at the rear

standing beside the stable at the rear of the yard.

"Well, what do you know about that?" asked Hanlon with a feer. "I've heard Pine Plains beggars asking for all sorte of things, but lime—slaked the you're you're without noticing Hanlon's remark the doctor answered cordially:

"All right, Jefferson. You see that pleo of ashes just this side? I want them hauled away. If you'll do that you's shall have the line for your rouble. How's that?"

"Thank you, sir. Til come to-morrow," the boy agreed.

The full name of the boy was Jeffer-son Briand, and he lived on the Pine Plains, a great tract of sand lying along the north bank of the river. Fifty years ago the plains were cov-ered with a white pine forest. After ered with a white pine forest. After this was harvested, most of the land was left to grow up to brush, but here and here little patches of the and scant crops of potatoes, beans, and buckwheat, and in season picked her ries which they brought to High Palls and sold at from these to due conand sold at from three to five cents, a quart. Low as the price was, the berries formed the chief cash crop of these ne'er-do-well people.

On the south of the river the soil was naturally rich and "strong." The farmers lived in great white houses and kept herds of cows in big red barns. Inevitably the unfortunates who lived on the sand—the "Plue Plains bergars," as Hanlon called them wrong a feld to those on the rich Plains beggars," as Hanlon called them—were a Joke to those on the rich land, and especially to the people of High Falls. Dr. Kelly was about the only citizen of the town who always treated them respectfully, though why he should do so, when he rarely received pay for attending the sick

there, was more than his neighbors

there, was more than his neighbors could understand.

Having carried away the ashes and the lime, Jeff Briand was seen no more in High Falls until the first week in July, when he stopped his father's old one-horse rig in front of thems. May be the stopped his father's old one-horse rig in front of home. Kelly was at work Dr. Kelly's home. Kelly was at work on the lawn as before, and Billy Hanon the lawn as before, and Billy Han-lon was also leaning on the line fence. The boy picked a basket from the wagon and entered the yard without hesitating at the gate.

reeks ahead of all others was astonishing.

"Where did he learn how?" was the Where did he learn how?" was the question asked by everybody, but to this Jefferson made no reply. That he usually flushed with embarrassment when he heard the question was noted when he heard the question was noted by all, and this embarrassment be-came much worse after the local newspaper, the "Clarion," published an item about him wherein the rag-ged harness on the "crow-bait" horse and the decrepit wagon were contrastand the decrepit wagon were contrast-ed with the "superb vegetables offer-ed for sale."

When winter came on, and the first fall of snow, the Briand family once more received attention from the local A party of rabbit hunters who nditor went to the Briand home to secure the help of the man and his two dogs found him and Jefferson in the old shack of a barn pounding a great heap of limestone into powder. Billy Han-lon, who was in the lead, gave a whoop

"Tve always wondered what the Pine Plains folks lived on in winter," he :ried, "but now you see. It's limehe :ried, "but now you see. It's lime-stone bread, with a rabbit on top now and then. Come on with us," he con-tinued, addressing Briand, "and bring tinued, addressing Briand, "and bring your dogs. We'll give you enough money to vary your grub with coffee and tea, eh? Sure thing!"

and tea, eh? Sure thing!"
"Jeff'll go, if you like," answered
Briand, but he himself refused to go
even when they offered to hire him

The Proprietor of Long Lake Farm and Two Promising Farmerettes. The Proprietor of Long Lake Farm and Two Promising Farmerettes.

The illustration shows Mr. Robert Smith on his farm near Edmonton, Alta, and a part of his wheat crop, as seen in August of his year. The little farmerettes seem to be enjoying themselves in the farmerettes of the seem to be enjoying themselves in the seem to be enjoying themselves in the factor of the seem of the seem to be enjoying themselves in the seem to be enjoying themselves in the seem to be seen to be seen

Hello, Jefferson, blueberries already?" inquired the doctor.

"No, sir; beets."
He held up a neatly tied bunch of five deep red beets that were fit to make a man's mouth water.
"Well, will you look at them!" exclaimed Hanion. "Say, boy, where did you 'coon' 'em?"

With an air not common among Pine Plains boys, Jeff answered by asking another question:

"Did you miss any from your gar-den, sir—any like them?" "Not much he didn't!" exclaimed

the doctor heartily. "There's not a garden in High Falls that'll have beets "There's not a as big as them for two weeks yet. What's the price per bunch?"

"Five cents, sir; but Father said he wished you'd take a couple of bunches without pay. We're a whole lot obliged to you for that lime you gave us." "All right, Jefferson. I'll take them and thank you kindly. I'll not forget it."

Jefferson had forty bunches yet in the wagon, and he sold them quickly, the wagon, and he sold then quiestly Hanlon being his first cash customer. The fact that a Pine Plains man had brought beets to town was alone enough to cause unusual comment, but that he should have been two

and the boy at good pay. Hanlon's gibe about eating limestone having been reported to the editor, the paper been reported to the editor, the paper told about the experience of the hun-ters, and ended with this rhyme, likely to be repeated whenever a Plains farmer made his appearance: "The Plain men—the Pine

Plains men, They live on air and hope till when They get so hungry that eat they must,

When bread they make of limestone dust."

When the next vegetable-selling When the next vegrtable-selling appeared on the streets of High Falls day after day with enough truck of superior quality to supply all who would buy, and sometimes with a surpus, the gradeness of the items.

would buy, and sometimes with a sur-plus, the gardeners of the town, and the farmers as well, being to the about the boy's work well had the According to the coming to town, passed the comming to town, passed the about the coming to town, passed the about the coming to town, the banks of Black River, where it abounded, and, after pulverlzing it as well as possible, had spread-the dust on a "heap of ferns as big as a from menultivated-parts of the plains. The pile was forked over and mixed

in the spring, after which it was spread "almost thick enough to coverthe ground out of sight" on a three acre field, and plowed under. on this field that the Briands gran their truck

When Roderick Simms, master of

When Roderick Simms, master of the local grange, heard this he said-"It's no wonder they raise good truck. Ferns, especially brakes, rot-ted with limestone dust mixed in, makes firet-class fertilizer—nobing better for sandy soils. The wonder to me is, as I have said all along, where or how old Briand learned how. I or how old Briand learned how. I know him—had him often help me in haying, and while he's a good worker, he's as ignorant as the rest of the Pine Plains tribe. He can't read or write—can't even sign his name, and yet his boy comes to town with truck two weeks ahead of that on the good mestone soil this side of the river He's making money too, hand Where did he learn how? That

nst. Where did no learn now? That, what I want to know?

These questions were asked by iscreasing numbers of people as atseason passed, and the quantity and
quality of the Briand truck were dicussed with increased wonder. In September issue of the village news

September issue of the vinage new-paper one item read as follows:
"We have to thank young Jefferson
Briand for a basket of the finest to-matoes we have seen this year—large. matoes we have seen this year—large, red, amooth, and delicious. Good by Jefferson! You've beat the whole town with your truck. And it is a Pine Plains farm at that. Where Myou learn how?"

The general interest thus voice!

reached a climax the following winter which was simply astounding to the people of the whole valley. For along people of the whole valley. For along in January the local paper contained a notice saying that the Farmers'h stitute would be held, as usual, a Grange Hall. At the end of the notice appeared this sentence:

"We are requested to state that Jefferson Briand will tell the audience how he transformed a seeming worthless piece of Pine Plains and into a most profitable market garder.

The people of High Falls had alway stitute, but now more than ever. As both meetings, and when at the nich meeting the workers mounted to the little stage, and Jefferson was see with them, there was a ripple of a plause in which Dr. Kelly led.

Then not a few of the townspeople "dressed as well as anybody as didn't seem to be scared much either

didn't seem to be scared much either.
Nevertheless, when Jefferson raibed that he was the centre of intent
a feeling of embarrassment almoverwhelmed him. In fact, he railed in the seem of the seem o ready to leave the stage and the hi when he happened to see Hanlon d when he happened to see manon witing in the front row of seats with mocking grin on his face. Then to boy remembered Hanlon's question about the beets,-"Where did ma 'coon 'em?"- and a flush of indins tion replaced his embarrasses.
Then the leader of the institute, the a little introductory speech, said:

"The boy will now tell his lastra tive story," whereupon Jefferson sim up and in a clear, if boyish, win

"If I had known that book learning is no disgrace to a farmer, I shall have told everybody about our wat have told everybody about our we on the Plains as fast as we did it. By I didn't know it. We always her real farmers, and we had always be jeered at so much that we could stand it to have anybody make fail us for what we were doing so the control of the country of the country

"Father, you know, owns eith acres on the Plains: but all we se could get out of it was enough in and eats and potatoes and white her to keep the horse and covered to selves. We didn't seem to miss much. We'd, always, lived dat se (Continued on 5 page 11)

October 24, 19 The Up

Hoping "It is good that hope and quietly of the Lord." Lay Hope, shild; to-me

still. And every morro And every morro you live, Hope! and each heaven fill, Be there to ask olva

EVER has the history ao many he the news of victory from the battle peace may soon of in each heart. W in each heart. W of hope as sheddi and promise of glo ing us when we disorder, death an cease, that, out of order, and that jupeace shall one di peace shall one da earth and the who the glad song of he Hoping and wa could better descri

could better descrite Christian's attithese. It is by hop that we are saved serve the living an are to "wait for I yen." Inseparably gether. It is this which shining like: trials, sorrows and life enables us to pa little while ere we in His beauty or til

This glorious hop While each in ex And longs to s

"Hope," the po-eternal in the huma-for us that it is so, only for this life, the men," Paul tells us able." It is the hope youd this life that joy, and that reconstencies and so and the sure and c have within that all be righted; that the made straight and plain. To be with next life must be un such as exists only i hope, all ye who ent words Dante tells 1 the door as he and

that dark abode of And so it is throu tudes of life, when f and the material thi and the material this have taken to them flows away, when we hap, at the gravesi were dearest to us, despair, "Naked and amid the ruins of the that the blocked." that the blessed pro-glorious rays on ou sorrow not, even as cono hope. For if we l died and rose again a which sleep in Jesus with him."

Hope on, hope ever; The sweet sunburst n

to-morrow;
Though thou art lone
will mark Thy loneliness, and SGITOW.

Though thou must toi sordid men, With none to echo b or love thee. Cheer up, poor heart beat in vain or God is over all, at thee:

thee; Hope on, hope ever

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XO.

The Upward Look

Hoping and Waiting

"It is good that a man should both hope and quietly wait for the salvation of the Lord." Lam. til. 20. Hope, child, to-morrow, and to-morrow

And every morrow hope; trust while you live,
Hope! and each time the dawn doth

beaven 611

Be there to ask as God is there to

-Victor Hugo.

EVER has there been a time in New Figure 1 were been a time in the history of the world when the history of the world when so many heart, were beating high with hope as in those days. As the news of victory after the battle the the hope that peace may soon come burns brighter from the battle the the star of hope as shedding its row of hope of hope as shedding its row of hope of hope as shedding its row of hope the star of hope as shedding its row of hope the star of hope as shedding its row of hope the star of hope as shedding its row of hope the star of hope as shedding its row of hope the star of hope as shedding its row of hope the star of hope as shedding its row of hope the star of hope as shedding its row of hope the star of hope the

in each heart. We speak of the star of hope and promise of glory on our heads telling in when we doubt and fear that disorder, death and destruction shall cease, that out of chaos will yet come order, and that loy, harmony and peace shall now day of expressed the peace shall now day of express of the shall be shall b which saining like a beacon above the trials, sorrows and disappointments of life enables us to patiently wait earth's little while ere we pass to the King in His beauty or till He come.

This glorious hope revives
Our courage by the way,
While each in expectation lives
And longs to see the day.

"Hope," the poet says, "springs eternal in the human breast," and well eternal in the numan oreast," and well for us that it is so, but if our hope as only for this life, then "we are of all men," Paul tells us, "the most miser-able." It is the hope of something beyoud this life that is the Christian's oy, and that reconciles us to the inistencies and sorrows we see here. and the sure and certain witness we have within that all wrongs will yet be righted; that the crooked shall be be righted; that the trooked shall be made straight and the rough places plain. To be without hope for the next life must be unspeakable despair such as exists only in Hell. "Abandon hope, all ye who enter here," were the words Dante tells us he read above the door as he and his guide entered that dark abode of the wicked.

that dark abode of the wicked.
And so it is through all the vicisaltudes of life, when friends have gone,
and the material things we cherished
have taken to themselves wings and
flows away, when we have stood, mayhap, at the graveside of those who
were dearest to us, exclaring in our
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story sorrow not, even as others which have no hope. For if we believe that Jesus died and rose again even so them also which sleep in Jesus will God bring with him."

Hope on, hope ever; though to-day be The sweet sunburst may smile on thee to-morrow;

Though thou art lonely, there's an eye will mark Thy loneliness, and guerdon all thy

serrow, Though thou must toll 'mong cold and serdid men, With none to echo back thy thought

or love thee, heer up, poor heart, thou dost not beat in vain or God is over all, and heaven above

_J. H. H.

Hope on, hope ever.

The Ideal Home Life

EW and far between are the homes which come anywhere near to being ideal. It does us near to being ideal. It does us good, however, to visit or hear about a home where conditions approaching a home where conditions approaching the state contains a more of a contained and a United States contained as the state of t with dry goods boxes under each cor-ner of the springs for posts. By going a little farther I could have stayed at one of the finest country homes around, but I chose the first just because I got a welcome that money could not purchase anywhere."

could not purchase anywhere."

"It did one's heart good," said the
writer of that article, "to hear this
man tell of the home that was not dependent upon apacious rooms and
costly furniture to make it that earthcoatly furniture to make it that earth-ly symbol of heaven—a real home. There is no word in any language so dear as home for our most treasured names of mother, father, love, coun-try, loyalty, each and all are a part of the true home. As a chain is no stronger than its weakest link, so is a stronger than its weakest link, so is a neighborhood weakened by a so-called neignorhood weakened by a so-called home where young people gather and engage in questionable amusements and conversations, the ovil of which is unquestionable. Or if there is a man is unquestionable. Or if there is a man or woman in the neighborhoud whose life is so impure as to be a bad ex-ample to the growing generation, the disgrace rests to some extent upon all in the community who sit idly by.

"First, is our duty to our family, but to make our home life ideal we but to make our home life ideal we must extent interests unselfishly in every direction. Some time age an article was running to the strong mind the strong mind when spent in a distant state, in the strong which is the strong with the so-called mind when spent in a distant state, in the strong way with the so-called mind we would become a great state which is so-called mind with the so-called mind. rection of the government direct. She used as an argument the fact that Jews almost worship their home life and place it above everything, proving that through this they lost their na-tional life and their country.

'On the other hand, we may suggest that while other nations have risen, reigned, fallen and been forgotten, the Jewish people, scattered to the four corners of the earth, abused and mis-treated, have through the ages re-tained the features, the customs and the traits of character that were old and satisfiable where the the traits of character that were old and established when David was a lad herding sheep. I should like very much to meet the mother who is the centre of the ideal home my friend mentioned; like him, I believe it would be well worth the trip."

Handling Ferns Successfully

O class of plant appeals perhaps more strongly to the ma-jority of women throughout the winter season at least than ferns. The best soil for ferns consists of equal portions of turf loam, peat and leaf soil, with a good sprinkling of charcoal broken to the size of a small nut. In preparing the soil for pot-ting it should be chopped up coarse, If the loam is stiff or short of fibre. that is dead grass roots), take some of the soil out and retain all the fibre as it is the plant food and the char-coal is the filterer which keeps the soil sweet.

In potting enough soft should be used to raise the plants so that the crown is level with the top soil. Care should be taken to leave enough space to hold sufficient water to thoroughly soak the ball when watering the plant. Pot moderately firm.

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Alberta Enquirers writer
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Become Familiar With Substitutes

ANADA'S new wheat crop will not ANADA'S new wheat crop win not reach the consuming public as in the meantime this country will be very short of wheat flour. We have as has also the United States—shipped as much wheat as possible to the bellion giving them a considerable Allies, giving them a considerable share of our own normal supply to share of our own normal supply of help carry them over until the new harvest has come on to the market and the corner has been turned. The use of substitutes, therefore, becomes an imperative necessity in this county in the county of the co try, and our people should familiarize themselves with methods successfully

themselves with methods successfully used in baking these substitute flours. On the 1st of July the Canads Food Board Order became effective requiring all public bakerles, and private households also, to use 10 per cent substitute flour. On the 18th of July this percentage was increased to 20 per cent in all of Canada east of Port Arthur. The question then will arise in each housekeeper's mind, what are substitutes for wheat flour, where can they be had, and how are they to can they be had, and how are they to be used? Substitutes, as defined by can new ue had, and how are they to be used? Substitutes, as defined by the new law, include bran, shorts, corn flour, corn meal, edible cornstarch, hominy, corn grits, barley flour, rolled oats, oatmeal, rice, rice flour, buck-wheat flour, potato flour, taploca flour, rey flour and rye meal. Potatoes are also classed as a substitute for wheat flour, in proportion of four pounds of potatoes to one of the other substi-tutes mentioned, on account of the higher percentage of water in pota-toes. A large number of millers ar-ready with these different flours, and a soon as the public demand calls or them they will be distributed through out the trade, and are now procurable by dealers.

It may be necessary to experiment with these substitute flours a few times before succeeding in producing times before succeeding in producing a satisfactory loaf, and opportunity should be taken to study the effect of these substitutes and the different methods of mixing, handling, fermenting and "proofing" of the doughs. As most the whest flour substitutes accolerand "proofing" of the doughs. As most of the wheat flour substitutes accelerate the fermentation, it will be better not to work the dough as long as usual. About four hours for fermentation will be sufficient in a room of moderate temperature, divided as follows: Two hours 45 minutes for the first punch; 45 minutes for the second punch: 30 45 minutes for the second punch; 30 minutes is allowed before the dough is finally taken out, kneaded and cut into loaves. After being set in the pan, 45 minutes is enough for "proofing," when it is ready for the oven.

When cornmeal, oatmeal, or other meal is used the moisture retaining qualities of the loaf may be improved by scassing these ingredients at a temperature of 150 deg. Fahrenheit and

allowing two hours for cooling. Most allowing two boars for cooling. Most of the wheat flour substitutes retain the moisture in the loaf longer than will the wheat flour and yi...d an increased amount of bread on account of their higher absorption of water, thus reducing the amount of yeast and shottering necessary. shortening necessary.

Harvest Nuts for Patriotic Reasons

HROUGHOUT Canada there is a generous supply of nut-bearing trees which leid as abundance of edible nutricipal and a shundance of edible nutricipal and a shundance of the state of the stat HROUGHOUT Canada there is a

The WHY of Food Conservation

 $T_{\it men}^{\it HERE}$ are 40,000,000 men on active service at the front. Behind the lines are another 10,000,000 on war duty. At home 40,000,000 are working in the war industries.

These 90,000,000 men are producing not one ounce of food; most of them need more than they ever didand every man of them must be fed.

fruit jellies and cakes, or a handful may be kneaded into a loaf of bread before it goes into the oven. A few kernels put through the nut chopper and scattered over the breakfast cereal adequately supply the place of bacon

This important food crop is waiting in the woods to be gathered. A few afternoons spent nutting in the few afternoons spent nutting in the woods during the bright autumn days will supply the home with nuts for the winter and will save the meat supply for our country's defence. After gathering, the nuts should be spread on the attic floor or on shelves in a dry place in allow the surface. in a dry place to allow the surface moisture to escape. They may be

> Dining Car Service Comfortable Day Coaches

Short Line

cracked at leisure by the boys and girls in dull weather and stored in airtight glass jars.

A few of the finest nuts should be saved for planting nearer home. Nothing will give the children greater pleasure than to choose and plant their own nut trees. If space allows a future nut-orchard might be planned or young trees transplanted as shale trees. The beech is a very beautiful tree, both in winter and summer, and the butternut, walnut and hickory make good garden shade trees and their wood is very valuable.

The butternut occurs from New

Brunswick to Ontario, while the black walnut is found in the southern part of Ontario. The shagbark hickory ranges from Quebec to the north shore of Lake Huron, the mockernut hickory occurring in Ontario only. The hazel-nut extends from the Maritime Prov. nut extends from the Marktine from inces to Saskatchewan; the beaked hazelnut has an even greater range, extending into British Columbia. The beech ranges from Nova Scotia to Ontario.-Experimental Farm Notes,

Canning Fish and Meat

ANY women have found canning fish and meat to be economical in two ways. In the first place it is a means of securing food during the cheaper seasons for use later when the price has risen and a second reason is that it is a means of saving any surplus on hand at any time. For instance those of us who belong to a beef ring probably eat more meat some weeks than others. We find that we can easily do with a little less one week and we can then can the re-mainder. Then, too, if fish can be mainder. Then, too, if fish can be secured in quantity, it will be found an economy to can it. The price of food is forcing us to use every posible means to secure it more charged and by all appearances this will be a great canning season.

Miss Helen MacDougall of the Er-

tension Service of the Manitoba Department of Agriculture, states that housekeepers will find that the caning of meat and fish is simpler that

ning of meat and fish is simpler hat canning either vegetables or final final suggests in the following method for final suggests are following method for final f place the jar in the boiler on a take bottom made of slats, and pour h water until it rises an inch above is tops of the jars. Cook for the tops of the jars. hours, counting from the time the water begins to boil. Remove from the water, fasten the cover tights, cool and store.

Some people prefer to soak the fid

several hours in a strong brine before cutting and placing in the jar. In that case no salt will be needed in the jar. Fresh fish should be used in the ference to frozen fish, although the latter may be used immediately alter thawing.

Canned Fish (American Style).-#

Canned Fish (American Styleisthe fishes are large, cut into size
clean, and sprinkle with salt let
them stand this way for three has
For each pint far of fish, see
half teasboonful of salt, ensedint
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lized before the food is put into thes All jars must be absolutely airlight and new rubbers must be used at time.



PORONTO THROUGH TRAINS BETWEEN MONTREAL, OTTAWA AND TORONTO

Through Parlor Cars | RFAD DOWN | Lv. MONTREAL. Ar | 111.00 p.m.| 102.15 p.m. | 12.15 p.m. | Ar. OTTAWA. Lv | 700 p.m.| 102.00 p.m. | 103.00 p * Daily. + Daily except Sunday.

AT TORONTO - Competting Monday, Wednesday and Friday to AT MONTREAL - Connections to and from all points in Que and from Western and Monday (Not York Stolla, New York and Markett LOWEST FARES - THROUGH TICKETS AND RESERVATIONE EVERYWHEEE E REQUIRE CAR, AGENTS. er write General Passenger Department, Montreal Que, Teronto, Ont. or Wannings, Man.

CANADIAN NORTHERN RAILWAY

October 24, Daint

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Dainty Neckwear, an Important Feature

Farm and Dairy patterns shown in these columns are especially prepared for whome Folk. They can be relied upon to be the latest models and include and with the column of the paper pattern. When sending your upon the carbon to show the carbon the carbon to show the carbon the



The ALL finds neckwaar still a subject of interest, separate collars and veste finities. Separate collars and veste from the separate collars and veste from the separate collars and collars. There are had collars, collars in human of many les made up in a daily collars. There are had collars, collars with points that one separate collars that are all curves, and and collars, collars with points that one separate collars that are all curves, and an experimental curves and an experi

coming. Herewith is a pretty style. It is simple and at the same time very attack of the control of the control



CREAM WANTED

From 2,000 Cheese Factory Patrons

for the Fall and Winter months. We sell our butter direct to the trade. No middleman's profits. That is one reason why our price is always the highest. There are others. Make us prove fl.

Write for free cans when ready to ship.

Valley Creamery of Ottawa, Limited 319 Sparks St., Ottawa, Ont.

Canada Food Board License No. 7-348



The Slaughter of the Innocents

is less terrible than what is now

occurring in Belgium-practically a

whole generation of the Belgian

nation in the grip of Consumption,

Rickets and other ills all directly

due to insufficient nourishment.

"Unto the least of these"

RIVET your eyes on this picture of a Belgian mother and child, until you feel the full horror of the situation! Thousands of these orphans, dying of starvation, might now be living in comfort and plenty, had their soldier fathers not flung themselves into the breach when the Hun invaded Belgium.

The fathers died to save us. Are we going to let the orphans starve? Conditions are simply ghastly. The United States loans to the Belgian Government finance the general relief work, but this only provides a bowl of soup and two pieces of bread to each person per day. What is that for a growing child?

The Canadian Bureau in Brussels will administer funds, and provide means for getting the ailing children into Holland and into orphanages where they can be saved from a hideous death.

Before you sit down to another meal, do SOMETHING for the Belgian children.

Make cheques payable and send contributions to

to your Local Committee, or to

Headquarters: 59 St. Peter St., Montreal.

When Writing Mention Farm and Dairy

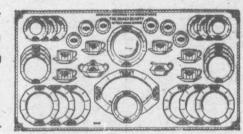
CHRISTMAS

IS DRAWING CLOSE, WHY NOT SECURE A SET OF THESE DISHES

FREE

You Could Not Give a More Acceptable Gift

FREE **Dishes**



Dishes FREE

We Only Have a Few Sets Left, Don't Delay

42 Pieces in Set for Only 8 New Subscriptions

31 Pieces in Set for Only 5 New Subscriptions

EVERY HOME NEEDS THEM

Please let us know if you are trying to secure a set, so we can h.ld it for you.

START WORKING TO-DAY

Address Circulation Dept. FARM & DAIRY PETERBORO ONT.



The Late A. C. Hallman, of Breslau

N the death last week of Mr. A. C. Hallman, of Breslau, there passed away a farmer still in the prime of life, who has played a most creditable sart in the promotion of all that has ood for the best interests of agricul-



is an old one in Waterloo Late A. C. Hallman. county. Mr. Hallman's ndfather came from Pennyslvania nd settled in Waterloo county near

New Dundee. He cleared a farm from he virgin forest and the work that he eft undone was completed by his son, he father of Mr. A. C. Hallman. It ras on this farm that Mr. A. C. Hall-han was born and reared. Later he Later he ettled on a farm some two miles om the old homestead that his fathr had bought as bushland. It was a gh, hilly farm. Only forty acres ad been cleared at the time it was rchased. The first season's grain op weighed out just 660 bushels. In he face of tremendous difficulties and by hard unremitting toil, backed d judgment and good nt, Mr. Hallman succeeded in greatimproving this farm so that when left it it produced 2,000 to 2,500 hels of grain, and fed 30 to 35 head At times over 100 hoga Mr. Hallman has often e kent. ild that he made a great mistake in nding 15 years of the best part of s life on a farm so poorly adapted espond to the labor put upon it. After selling this farm Mr. Hallman chased a farm of 167 acres hich he resided until the time of his On this farm great improveth. ats have been made. On it he put the first cement sile ever erec Waterloo county. The stables re remodelled and made light, sanistables ry and thoroughly up-to-date. Other y and theroughly up-to-cate. Other provements were made and the ildings were painted. Similar im-vements were made in the home-ad. As a result of this purchase . Hallman has owned for some ars one of the finest farm homes in tario.

A Holstein Enthusiast.

One of Mr. Hallman's greatest hievements was accomplished while was still a young man when he and father were about the first men Canada to take up the breeding of stein cattle. In 1883 they made er first purchase, comprising three rebred females and two bulls, ch were imported from the State filinois. At that time, as far as Hallman and his father knew, animals were the only Holsteins Canada. Later they heard that a had been imported by M. Cook & s, of Aultsville, Outario. s later Mr. Hallman purchased additional animals from another who had just imported them inthe country. For these he paid o each for three calves and \$260 for six helfers rising two years.
Mr. Hallman had to borrow part
as money with which to purchase e anfmals animals. The prices at were considered very high.

The difficulties in the way of breed-The difficulties in the way of breeding purebred Holsteins at that time were enormous. The dairy industry had not been fully developed. The demand for purebred stock was limit. ed. The prices farmers were willing to pay for good stock were small. There was no Canadian herd book. The Holstein-Friesian Association, which has since done so much for the which has since uone so much for the breed, had not been formed. Never-theless Mr. Hallman had faith in the future of the breed and stuck to the animals of his choice through both fair and cloudy weather and soon became known as one of the outstanding breeders of this great breed of cattl in Canada, a position he still held at the time of his death.

the time of his death.

In 1885 Mr. Hallman exhibited for
the first time at the Provincial Exhibition at London. He was just
a green farm lad but secured first and
account priese on his hefters. This encouraged him to enter for the Toronto
Exhibition, where he also more than Exhibition, where he also met with distinct success. From 1885 to 1887 he won a larger share of honors, first prizes, diplomas and medals on his herd than any other of the exhibitors who competed against him.

Start of the Association.
About 1890 about half a dozen Holstein breeders met in the sheds at the old Toronto Exhibition and organized what has become the great Do-minion Holstein-Friesian Cattle Breeders' Asociation. Mr. Hallman was appointed one of a deputation to meet at the old Parliament buildings to get a permit to issue a herd book After various unsuccessful efforts had been made to organize a Canadian Herd Book, Mr. Hallman on March 30, 1891, as the first president of the recently formed association, called eeting which was held in the Vicmeeting which was need in toria Hotel at Guelph, at which it was decided to form a Dominion Herd decided to form a Dominion Herd Book, which was to be controlled by their own association.

Mr. Hallman continued to exhibit at the larger exhibitions until about ten years ago. For some years he was employed by the Government as an exyears ago. pert judge of dairy cattle and swine, and his services were in demand in all and his services were in usually in an parts of the Dominion as an experi judge. In addition to making a great success of Holsteins he became well known as a successful breeder Tamworth hogs. Mr. Hallman was also one of the early farmers' institute speakers and made many friends throughout the province while acting in this capacity. He has held import ant offices for many years in the Holstein-Friesian Breeders' Association as well as in numerous other organi zations identified with agriculture. In addition he was honored in municipal affairs by his neighbors, having among other offices recently held the posi-tion of reeve of his township.

A Director of Farm and Dairy.
When some thirteen years ago the
dairy farmers of Ontario feit the time had come when the dairy industry should have a dairy paper to promote and advance its interests and it was decided to launch The Canadian Dairyman, which a few years later became known as Farm and Dairy, Mr. Hallman early identified himself with the enterprise. About eleven years ago he was elected a director of the Rural Publishing Company, Limited, which at that time was beginning to pass through a trying period. For some years, when the prospects of making a success of the company seemed slim, Mr. Hallman maintained faith in the enterprise and stood by it through thick and thin. At one time with other directors he went on notes to the extent of many thousands of dollars. Largely through his offer:a, together with those of the other directors associated with him, the company was finally enabled to pass

through its first years of initial trying experiences and much to the joy of Mr. Hallman he was permitted in due time to see Fa m and Dair) become established as one of the outstanding farm papers of Canada. The value of his services to the dairymen of Canada in this capacity is somethin which can never be fully estimated.

In the death of Mr. Hallman there has passed away a forward looking man of great integrity, strong in purpose, courageous in action and ever ready to promote whatever he lieved to be in the best interests of his community and the country at large.

His death was the result of a fall from
the top of a silo to the cement floor below, a distance of thirty-five feet. There are none too many men of his type and Canada will be the poorer in consequence of his death.

The Quebec Farmers Aggressive (Continued from page 13.)

the merchants asked \$7.50 for cora the merchants asked \$7.50 for cora-Mr. Doherty helped the farmoras to get it for \$3.75. When the merchants asked 40 cts. for binder twine, Mr. Doherty was able to get the price re-duced to 23½ cts. This lead the mer-chants to reduce their price to 23 cts. Chants to reduce their price to 13 cts. Paris green, the farmers obtained it

Much interest is being taken in the meetings to be held shortly on the Quebec side of the Ottawa River be tween Ottawa and Montrea!.



Doherty, Vice-President of the United Farmers of Quebec.

district meetings will be held this month as follows: October 21 at Lachute, October 22 at Thurso, October chute, October 22 at Thurso, October 23 at Buckingham, October 24 at Notre Dame de Dalote. Those who are opposed to the farmers' movement have been invited to attend these meetings, where they will be given an opportunity to speak. It is understood that there will be men at the meeting prepared to answer their arguments. Mr. Bouchard, the Provincial Organizer, will be present.

The United Farmers of Quebec are

arranging to hold their first annual convention in December in Montreal. This will bring their annual meeting in the same month as the United Farmers of Ontario. There may be an exchange of speakers between the two organizations.

Credit Where Due

N an editorial entitled "Canada at the National," which appeared in the October 10th issue of Farm and Dairy, we find that we were in error when we stated that "Our dairy inwhen we stated that "Our dairy in-dustry has been represented only twice at the National Dairy Show, once by R. R. Ness with his Agrahirsa, and another time by R. J. Fleming with his Jerseys," We are new ad-vised that at the first National Dairy

Show at the Collseum, Chicago, Mr. George Rice, then of Tillsonburg, but now of Stonewall, Manitoba, exhibited Holsteins and Mr. John McKee, of Norwich, Ayrshires. At that time the prize list was very limited and no prizes were cered for calves or one year old bulls. Mr. McKee was successful in winning second and third prizes were offered for calves or one on two-year-old heifers and first on off two-year-old defices and heat of yearling helfers, as well as first herd prise, his famous bull, "Scottle" head-ing the herd. We have not heard what what prizes Mr. Rice won. It is possible also that Hunter Brothers of Maxwell, showed Ayrshires some years ago at some of these exhibi-

(19)

When Ambition Won (Continued from page 14.)

and didn't care for anything better, until one morning, three years ago last fall. When I went out to the bars in front of the house that morning I found a bundle lying on the ground, and on the outside was written, 'Findings is keepings.'

"It was a heavy sort of a bundle, and when I opened it I found three books which told how to run all kinds

"I looked through them leaf by leaf to see if we couldn't find any name of the owner, but all I could see was a place on the inside of each cover where there had been a name which someone had rubbed out. So we made up our minds that somebody had made us a present.

made us a present.

"I was going to put the books on
the clock shelf, but Father said the
neighbors would see them and laugh
at us for learning how to run a farm
by reading books. So I hid them just the
der my bed. But I read them just the
same, especially on stormy days whon
no ma was tikely to come. I stream no one was likely to come. did want something to read on stormy days anyhow. After I'd read them all through, I read them through again, and this time I read parts of them aloud to Father and Mother.

"We didn't seem to understand much what was in the books, but there was one chapter telling about lime and

one chapter telling about lime and limestone on sandy hand like ours.

"We might try that once on the sky said Father one day, when I was reading it aloud. T saw two barrels of lime all falling down in Doc Kelly's yard yesterday, and he'll sell it cheap, most likely. You ro see him about it tomorawe, but don't went.

yard yesterday, and he'll sell it cheap, most likely. You go see him about it formorrow, but don't you tell anybedy what we want it for, and get every-body lauching-at us.' "So I did as he told me. We sowed "Bo I did as he told me. We sowed the beautiful of the pound of beet seed on the liment of the rows running beyond the node of the rows running beyond the said of the rows running beyond the said of the said used the beets because the book said used the peets because the book said that was the crop to raise when we wanted to learn whether lime would do any good. Well, where the lime was used the beets were fine, and was used the beets were line, and where it was not used the beets were good for nothing. That gave us cour-age to keep right on doing as the

books said. "The books said sand was better for "The books said sand was better for vegetables than strong land if we'd use lime to aweeten it, and then plowed in any kind of weeds to rot and make it black. So we cut the ferns, All we have done was to follow what the books said. We're just book farmthe books said. We're just book farmers. I never would have told you but for Mr. Simms and the gentlemen of the Institute.

They came over to our farm and asked me to come here and tell you all about it. They happened to see the books because I'd forgotten to hide them. I expected them to laugh at us, but they said that the only farmers who ought to be ashamed were those who don't read books. 'Experthies who don't read books. Exper-lence is a dear teacher, and they are fools who will learn of no other is what one gentleman said. So I came. And that's all I have to tell. But E wish I could learn who it was that left those books by our front bars. Be zet only taught us how to do our

Brookdale Stock Farm -

UFFERS
all good, large straight cows in good condition. Price, \$250, at Philipseville Sta. C.N.E. Also four the large better, riting a years of age. Philipseville Sta. C.N.E. Also four the large better, riting a years of age. Philipseville Sta. C.N.E. Also four the large better, riting a years of age. Philipseville Sta. C.N.E. Also see that the system of the syste

WM. C. STEVENS - - - Phillipsville, Ont.

OFFER FOR OCTOBER

REGISTERED HOLSTEIN BULL

\$150 WILL BUY SIR PIETJE ROBERTS. (Calved Feb. 20th, 1914.) Sire—Sir Pletje Posch, of Avondale. Dam—Helen Roberts.

\$75 WILL BUILDER ZEE RIDER. (Calced April 59th, 1917.)

Sire—Sir Pietje Roberts. Dam—Dakol, of Elmbank Crescent.
Type—Stae—Constitution—Production

Seen at ("ELMBANK CRESCENT." Write to (WILLIAMSTOWN, ONT.

(This ad will not appear again)

The "O'Reilly Stock Farm" Holsteins

headed by "King Segis Pontiac Posch" son of the \$50,000 bull. We have one beautiful young bull fit for service and some younger that we are offering at very reasonable prices. Write us before you decide on anything in the Holstein line. It will pay you.

JOSEPH O'REILLY R.R. No. 9 PETERBORO, ONT.

-Bull Calf of Royal Breeding-

Born Dec. 27, 1917. He is a beauty, a show animal. His sire's seven nearcet dams average over 10 lbs. butter in 7 days, his 11 nearest over 25, and his 23 nearest over 27 lbs. butter in 7 days. His dam, a Korndyke helfer, is a grand producer. Price, \$176. Write or come and see him.

JOHN M. MONTLE, Prop. Sunnyside Stock Farm STANSTEAD, QUE

Holsteins For Sale

Bulls of serviceable age and younger with splendid A. R. O. records on both sides. These are very typey and in good condition. Also some females in calf and helfers ready to breed.

HAGERSVILLE, ONTARIO B. B. No. 5 H. W. PARKINSON

AUCTION SALE

Owing to scarcity of stable room, I am obliged to offer by Public Audion, at my Farm, Lot 30, First Concesson N. R. R. Charlottenburgh, three-quarter miles east of Martintown, Glengarry Co., Mx miles south of Apple 1888, on C. P. R.

Tuesday, November 5th, 1918

the following valuable Live Stock:

24 JERSEY MILCH COWS

1 JERSEY BULL, 1 year old

All registered in the Canadian Jersey Herd Book. Age and pedigree, with butter fat test, will be sent to any parties wishing them.

Terms—Twelve months' credit on furnishing approved joint notes, or six per cent off for cash.

SALE TO COMMENCE AT 1 O'CLOCK P.M.

D. D. McCuaig, Auctioneer

Wm. D. Munro, Proprietor

DON'T BE LATE!

A number of our dairy breeders who regularly use the columns of FARM AND DAIRY have on different occasions sent us copy too late to get it in the proper issue. This is a disappointment both to us and to be set to the proper issue. This is a disappointment both to us and to be set to the proper issue. It is one, too, that only the advertiser can be set to the set of the se

Il service.

THIS MEANS YOU—you know what to do—mail your copy Wedneser Thursday of the week previous.

LIVE STOCK DEPARTMENT

FARM AND DAIRY . . Peterboro, Ont.

work, but there are other Pine Plains folks who are doing what we did, and they won't have to depend on picking berries any longer for money to buy

The applause that followed this speech was exceedingly cordial, and then, as it died out, the people turned to talk about the story of the books. Observing this, the director of the Institute picked up one of the books which were lying on a table, and drawing a magnifying glass from

and drawing a magnifying glass from his pocket he said:

"I taink you are all as much interested as I was in learning who the unknown philanthropist was. It is a common thing for the well-tod to give money to the poor; but here was one who realized that to give knowledge was infinitely better. The name of the original owner of these three volumes has been carefully erased, but with the aid of this glass I have been able to see the indentations made by the pencil with which the name was written. I know the gentleman well enough to say that he will name was written. I know the gentle man well enough to say that he will be greatly vexed to have me reveal his identity, but I must say, nevertheless, that as I read it the name once written in the books was James Kelly. M.D. When the Pine Plains are all reclaimed, as they are now sure to be, you who live in High Palls will have him to thank for seeing how it might be done, and Jefferson work under the most discouraging conditions that I have ever seen surrounding a farm developer."

The Makers' Corner

Butter and Cheese Makers are in-wited to send contributions to this department, to ask questions on matters relating to cheese making, and to suggest subjects for discus-sion.

W HY should not be cheese fac-Cooperative Choose Marketing

VV tarlo organize a great central company for the marketing of all the cheese and butter produced in the province? Such a scheme was pro-posed in Farm and Dairy a few weeks ago. Since then the Eastern and Western Ontario Dairymen's Associations have appointed delegates to work in cooperation with a committee from the United Farmers of Ontario in determining just what can be done toward launching such a scheme. Re-cently an editor of Farm and Dairy was discussing this proposal with a well informed dairyman who, for business reasons, wishes his name to be withheld. He expressed himself as

"Our dairy products are exceedingly perishable. Storage facilities are owned by private individuals. farmers want their money right away. They get it from these private cheese dealers, but they pay all expenses on their cheese to the seaboard just the same and in return for prompt payment they take a lesser price. I see no reason why, cooperatively, the pat rons of the cheese factories of East-ern Ontario could not market their cheese just as cheaply, or more cheapthan by the method now employed. This would cut out a lot of middlemen and hence a lot of expense. For instance, every firm has its buyer on the local cheese board. These buyers would not be necessary were the cheese marketed cooperatively.

"I am assuming that we would own our own storage," continued our friend. "What other class of manufacturers would place themselves in the position the farmer is in? In the making up of their milk into cheese the farmers are manufacturers. When they sell their manufactured product the sale has to be made immediately, irrespective of market conditions, because there is no storage and the

in sympathy with any scheme that will improve this condition."

Creamery Situation in Alberta

N a recent letter to Farm and Dairy, Mr. H. Higginbotham, Secretary of the United Farmers' of Alberta, records the following interesting com ment on the dairy situation in that province

"We had a further meeting of milk and cream shippers in this office on Friday last, when Mr. Marker, the Provincial Dairy Commissioner, at tended and gave us semething of the history of the cooperative creamery movement in Alberta

movement in Alberta.

"Mr. Marker gave the reasons for the decline of the cooperative creamery movement in Alberta, as being owing to the too keen competition on the part of the private creameries. Mr. Marker pointed out that the private creameries operating in the large cities had the advantage of a large local market for milk and cream, which could be sold at much higher prices than could be secured for milk and cream when turned into butter

or cheese. "Mr. Marker also stated that the farmer apparently wanted the rather excessive service in the collection of milk and cream which the private creameries were able to give. In this Province, the competition between the private creameries for the farmer's products has resulted in the establishproducts has resulted in the establishment of about 200 cream receiving stations by the private creameries.

"In some cases these cream receiving stations are established two or

three in the same town and one buyer bidding against another. Also the man in charge at the cream receiving station makes the test and gives payment in cash or in coupons for the

products when received.

"This is contrasted with the coperative creamery method of doing business, when the farmer was paid a certain amount for his products once per month and the balance came to him, after the product had been made into butter and cheese and sold. According to Mr. Marker the farmer was not willing to wait for his money for this length of time.

Dairy Products at Columbus

THE dairyman who has been secustomed to the extensive displays of dairy products at the Canadian National would have been dispopinted at the zeasgreeness of the entries at the National Duiry Shw. Columbus, Ohio, last week. They dishowever, represent a great extent of country and covered a work of the classification of the country and covered as the classification of the country of the its of cottage cheese, limburger and Swiss. The Swiss cheese, about as big as a small cart wheel and the thick-ness of a Canadian flat, were some thing unique to us. There were also classes for market milk and cream in bottles. In these classes there were no Canadian entries.

Gold medal prizes awarded in the various butter classes were as fel-lows: To the Athens State Hospital of Athens, Ohio, which scored \$4.13 in the dairy butter class; the Hutch son, Minn., 96 in whole milk butter class; and the Fox River Butter Ca. of Chicago, III., score 96 in the hand

separator class. Cheese prizes at the National Bing Show give two gold media to dis froms. These are John Lengachet of Directory of the National Company of Lengachet of Directory of the National Company, of Urbana, Ohio, when we wantly of cottage cheese ecroed 5. The cold media for American cheels cold media for American cheels cheese was won by C. H. Schaelet, of Maryland, Wils, who scored 5: that for brick cheese was awarded in Jacob Mueller, of Rice Lake, Wascore being 95; and that for Limber or Cheese goes to August Martin, descriptions of the Company o Cheese prizes at the National Dairy ger cheese goes to August Martin Monticello, Wis., score 96.

October 24, 1918. OFFICIAL RECORD FRIESIAN COW SEPT Mature

MSLDRED PI KENNEK, 21508, 6 milk, 24.73 lbs. 1 W. L. Shaw, Newman 2. Fairview Rag Ay ly, 9m. 26d.; 486.6 lbs. 31.77 lbs. butter. D Oshawa. 3. Sarah Hengervel 4y. 5m. 25d.; 400.0 H fat, 30.67 lbs. butter.

Terry DeKol Pled 496.3 lbs. milk, 1 butter, Alex. John Senior Four-Y 1. Colony Lady Aag; 4y. 7m. 12d.; 90-day milk, 901.76 lbs. fat, 36 126-day record: 2774 3s. fat, 315.36 lbs. but Escendale, B.C.

1. Colony Minnie N im. 14d.; 465.8 lbs. m 18.88 lbs. butter. 89-day record: 1989.6 fet, 13.86 lbs. butter. 69-day record: 3837.8 lbs. fat, 138.86 lbs. butt Senior Three-V

Colony Maud Colant 473.8 lbs. milk, 16 L cotony sassat Comman da; 478.8 lbs. milks, 16 Bs. butter. 38-day record: 2121.4 l at \$4.55 lbs. butter. 2 C Colony Princess Ec as. 4d.; 525.0 Bs. mil 1842 Bs. butter. 586.6 lbs. fat. 1856.6 lbs. butter. d-day record: 3548.2 bs. fat. 160.38 Bs. butter.

Junior Three-Ve 1. Floral Hill Jesses & 4m. 34d.; 410.4 lbs. mil 1144 bs. butter. Jss. A Senior Two-Yes 1. Alexandria Segis, 35 56.2 lbs. milk, 9.67 lbs buffer. Alex. Johnston,

Junior Two-Yes

Junior Two-Yes

1. Colantha Lucy, 450
582,7 fbs. milk, 15.35 lb

batter. Bollert & Mogis,

2. Dutchland Gretqui 11
15.9 fbs. butter. W. G.

3. Calamity Diotime,

4. 2 fbs. milk, 10.69 fbs.



GANA

Hillcrest Sir Farm, and a full 17 lbs. butter in ' 34 lbs. butter and months and has a

will include a siste 29,000 lb. cow-6 ter of Sara Jewell Artis Canada, wh Segis, a likely can 18.09 lbs. butter i Plus Burke, a 100

For Catalogu Apply to

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Limbur
dartin, of

official records of Holstein-friesian cows, Aug. 1 to SEPT. 30. Mature Class.

8.71 (obhawa. 8. Sarah Hengerveld Korndyke, 22067, 49. 6m. 26d.; 400.0 lbs. milk, 16.45 lbs. fat, 30.67 lbs. butter. Joseph Kilgour,

15. 36.7 bb bitter Joseph Angeut, Siglindon 4 Terry DeKol Pledge, 25529, 5r. 10m. 1 Terry DeKol Pledge, 25529, 5r. 10m. 1 Terry DeKol Pledge, 25529, 5r. 10m. 1 Alex Johnston, Kallon, Man. Alex Johnston, Kallon, Man. 1 Colony, Landy of Personan, 25509, 5r. 1136-124, 1 Terry December 2 Terry Dece

Junior Pour-Voar Classes,
1. Colony Minnée Newman, 33044, 4y,
in 144, 1663 Bb. milk, 15.50 Bb. fat,
158 Bb. butter, 1855-6 lbs. milk, 65.25 lbs.
158-6 geoord; 1857-5 lbs. milk, 65.25 lbs.
6 day record; 357-2 lbs. milk, 111.08
Bb fat, 135.56 lbs. butter. Colony Farm. Senior Three-Year Class.

Senior Three-Year Class.

1. Colony Mand Colanda. 33369, 2y, 11m.
61; 613.8 lbs. milks, 16-54 lbs. fatt, 19-48
has belver. Colony Farm.
1. Colony Farmens.
1. Colony

Junior Three-Year Cises.

J. Froral Bill Jesse Welker, 36438, 3y, 4s. 364; 410.4 lbs. milk; 14.04 lbs. fat, 1138 he butter. Jam. A. Cassiery, Madoc.

J. Alexandris. Septs. 36489, 3y, 5m. 374.5 lbs. ab. milk, 24.7 lbs. fat, 11.97 lbs. fat, 11.97 lbs. fat, 11.97 lbs. jbs. septs. 36489, 3y, 5m. 374.5 lbs. betw. Junior Twe-Year Cises.

Junior Twe-Year Cises.

Junior Twe-Year Cises.

Junior Langy, 45863, 7p. 3m. 244.1 lbs. betw. betw. district Septs. 36489, 3p. 3m. 244.1 lbs. betw. Bill. 15.80 lbs. fat, 26.4 lbs. betw. Bill. 15.80 lbs. fat, 26.4 lbs. betw. Bill. 15.80 lbs. fat, 141.2 lbs. milk, 15.80 lbs. fat, 141.8 lbs. butter. W. G. Balley, Paris. Ed. 141.8 lbs. butter. W. G. Balley, Paris. Ed. 248 dbs. 11.8 lbs. butter. Sept. 1267 lbs. fat, 13.86 lbs. 1567 lbs. 1567 lbs. fat, 13.86 lbs. 15

butter. Disector Experimental Parma. Agiasia, S. 1. Rose. Triumph Iosco. 4879. 2y. 0m. 12. Rose. 12

W. A. CLEMONS,

SEMI-OFFICIAL RECORDS OF HI STEIN-FRIESIAN COWS, AUG. 1 TO SEPT. 30. Mature Class.

AAGGNE OF RIVERSEDE 3rd, 10352, 9y.; 20261 lbs. milk, 732 lbs. fat, 915.00 lbs. butter. Thos. P. Charle-

Four-Year Class. Lady Rose Agnes, 22148, 4y. 361d.;
 13648 lbs. milk, 461 lbs. fat, 576.36 lbs.
 butter. Sandy Matchett. 2. Gerben Ormaby, 30482, 4y. 114d.; 11258 bs. milk, 377 bs. fat, 471.25 bs. butter. University of Saskatchewan, Sas-

Three-Year Class.

1. Ormsby Pride, 31350, 3y. 46d.; 9126 lbs. milk, 302 lbs. fat, 377.60 lbs. butter. University of Saskatchewan.

Two-Year Class.

W. A. CLEIMONS, Secretary,

PEEL COUNTY CALF CLUB FORMED.

PEEL COUNTY CALF CLUB FORMED.

NDIBH the amploes of he Feel County take "suppless of he Feel County take "suppless of he Feel County take "suppless" Association, the newly-organizers and surface of the County of

BIG U. S. SALE OF AYRSHIRES.

R ECENTLY there occurred in the United States a big sale of Agrahires; 100 head from the Willamoor herd of Redmond, Washington, owned by J. W. Chae, were sold to the Gossard

Breeding Estate, Marchanevilla, Ind.
The purchase constitud of \$4 cows in milk, four buils and 13 helfers. It indicates the constituent of \$4 cows in milk, four buils and 13 helfers. It indicates the late of \$4 cows in milk, four buils and 13 helfers. It indicates the late of \$4 cows in milk, four buils and 13 helfers. It indicates the late of \$4 compared to \$4 co

JERSEY ITEMS

JERSEY ITEMS.

THE nouthwastern Jersey show, held at Exitures City recently, brought a difficulty of the property of the prope

Richly Bred Holsteins



AT AUCTION 35 HEAD

Choice Holsteins will be sold at



GANANOQUE, ONT., WED., OCT. 30th, at 1 p.m. In the Sale I will offer My Herd Sire

Hillcrest Sir Pontiac Echo whose sire is the noted MAY ECHO CHAMPION, former herd sire at Hillcrest Stock Farm, and a full brother to May Echo Sylvia. Furthermore his dam is Hillcrest Pontiac Susie, who has the following records:—at 2 years, 17 lbs. butter in 7 days, at 3 years, 24 lbs. 2 months from freshening and 99.6 lbs. milk in 1 day, at 4 years, 29 lbs in 7 days and mature 34 lbs. butter and 760 lbs. milk in 7 days—1 day, 122 lbs. milk. As a Junior 3-year-old in R.O.P. she produced 20,242 lbs. milk in 10 months and has a 22,000 lb. 4-year-old sister. Hillcrest Sir Pontiac Echo is right in every way.

-THE FEMALES

will include a sister to the bull (from same dam) and from a son of the first 20,000 lb. 3-year-old in the world. She is from Rauwerd the 29,000 lb. cow—also a sister to dam of bull. A calf by son of Rag Apple Korndyke 8th, whose dam is a 26 lb. 4. year-old. A 21 lb. daughter of Sara Jewell Hengerveld's son, a sister to the \$1100 cow at the Hillcrest sale. Also a 23,67 lb, three-year-old daughter of King Pontiac Artis Canada, who is good for 30 lbs. any time. Another good one is Della Rooker Pride, with a 24 lb. 4-year-old record, also Princess Leo Segs, a likely candidate for 30 lbs. and who has 17 lbs. at 25 months. Also a granddaughter of Pontiac Korndyke, with 358 lbs. milk and 18.09 lbs. butter in 8 months division, 21.28 lbs. at 3 years, 24.35 lbs. at 4 years—in 30 days 98.65 lbs. Four daughters and sons of King Plus Burke, a 100 lb. bull, all from good cows. Also Daisy Aakkrum Posch, whose two nearest dams average over 31 lbs.

For Catalogues Apply to

A. W. CHURCH

Lunchean will be served at the farm.

All trains will be met on day of sale.

BARON FAYNE MERCEDES SEGIS I year old. Ready for Heavy Service.

"ANANOQUE, ONT.

AUCTION SALE

PURE-BRED STOCK

Under instructions from the Minister of Agriculture

there will be held at the

Ontario Agricultural College GUELPH, ONTARIO

THURSDAY, OCTOBER 31, 1918

A public sale of surplus bounding stack belonging to the Ontario Government and competing Seatch Shorthern, Aberdeen Angan, Haltzien, Jersey and Ayrabke cattle; Yorkshine and Berkshine; and Shoupakin, Oxford, Southbourn and Leiscutter about, in the let are inshimably bend, chiefe, individual-of their respective broad.

FOR CATALOGUE APPLY TO

W. Toole or A. Leitch, Ontario Agricultural College, Guelph, Ont.

Man Wanted-

Unmarried preferred, who understands and is able to take full charge of large smaller and the smaller and the

- AYRSHIRES you want Ayrahires of the right kind, write us. Possibly we have what you want.

- ELMCREST AYRSHIRES. -

Herd Stre—Glenhurst Forrs Master, sired by Lessnessnock Comst.

Stock for sale, all ages, at reasonable prices, 75 head to pick from. Some good ng bulls. Call or write for prices.

WILLIAMSTOWN, ONTARIO SANDILAND BROTHERS

Young caives, either sex; several from R. O. P. cows. It will pay to come and see write for prices if wanting anything in choice Ayrehires.

R. R. No. 4 A HENDERSON

THE EDGELEY CHAMPION HERD OF JERSEYS.

Write us about your next herd sire. We now have sons of our present herd sire. Edgeley's Bright Prince, the contract of Edgeley of Edgeley and the state of Edgeley is not the only high record cow with the contract of the contract o

AVONDALE FARM OFFERINGS

HOLSTEINS

We want to clear our stock of Holatein bull calves to make grown for the coming crop. We have a number of royally bred once from helicer that we will dispose of at bargain prices. The dams all harge once themselves, many are backed by big records, an edives on present record barie.

These calves are all sired by CHABITON ECHO SYLVIA PONTIAC, our great once of the world's greatest cow, May Echo Sylvia, and by King Echo Sylvia Johanna, the beautful individuals, well marked, and are guaranteed, retineur care, to please. Time or cash. They will not last ions.

Please refer to this savertsement when replying.

H. LYNN, Herd Supt.

A. C. HARDY, Prop. Avondale Farm Brockville, Ont.

THE OLD SUMMER HILL FARM

The home of the highest priced Canadian bred Oxford ram ever sold in Canada, sold to a Missouri man for \$300. We have for sale 250 oxford ewes from 1 to \$2 vanda, 50 selected yr. to 2 yr. rams for show or breeding purposes, 300 rams and 100 ewe leambe of superior sold as the selected yr. to 2 yr. rams for sold as the selected yr. to 2 yr. rams for sold as the selected yr. to 2 yr. rams for sold as the selected yr. to 2 yr. rams for sold as the selected yr. to 2 yr. rams for sold as the selected yr. to 2 yr. rams for sold as the selected yr. to 2 yr. rams for sold yr. A yr. to 3 yr. sold, and the selected yr. which won lat on selected yr. to 3 yr. old, and 40 Shrop, lambs all recorded, Durco Jersey awine of the best breeding, and recorded, young boars and sows ready to ween at moderate prices. The home of the highest priced Canadian bred Oxford ram ever sold and sows ready to wean at moderate prices.

Address all Correspondence to

MARKET REVIEW AND FORECAST

Tokonto, occ. it... owing to the improvement in weather conditions, the provenest in weather conditions, and the provenest in the provenest in the provenest of the property of the provenest of

very is scarce, and the price is gradually over in scarce, and the price is gradually in the rapid advance of the Ententue and the rapid advance of the Ententue and the rapid advance of the Ententue and the interior the week. The result of Germanny's answer to Prosident Wilson's incurred to the week in the result of the week in the result of the price of the week indicate that there is considerable unsteadness and a slight decline on the American market. The prices of corn mon white dairy produce, eggs and provisions are higher. WHEAT.

eggs and provisions are higher.

WHEAT.

The past week has been an ideal one for an extract has been an ideal one for an extract high a reason and the second has been an ideal one for an extract high a reason and the second has been a contact, the searing heat normal and in mach better condition than at this time last fail. Reports are current that a second next spring than last. There seems to be a fair amount of Ontario wheat being sefery than the second next spring than last. There seems to be a fair amount of Ontario wheat being sefery high second high second has been seeded by country milks. Not much wheatched by country seems to confine to Ontario points, most seems of the second high se

spring, saws; no. 3 applies, 43.28.

The market is still very unsettied, and it is expoored that the unsteadeness will prevent during the near the same property of the same prop

MILL FEEDS.

MILL FEEDS.

MILL feeds met with a steady demand at firm prices. Bran is guoted here in cardioal forth page included, \$37.55 per fon; shorts, \$42.55. Monireal prices are quotest pran, \$37.55 per fon; shorts, \$42.55 moutile, \$45.55 per fon; shorts, \$45.55 moutile, \$45.55 per fon; shorts, \$45.55

The hay and straw market continues firm, only a limited supply of hay being put on the market. On this market No. 1 hay is quoted \$21 to \$22 on traching mixed, \$19 to \$20; straw, catchet, \$3 5.60. Montread quotes No. 2 hay, per ton cariots, \$24 to \$25.

POTATOES AND BEANS.

At present new Ontario potatoes are being put on the market. Shipments from the East are limited. However, the market has remained firm. Ontario pota-toes on this market are quoted at \$2.35 per 90-lb. bag; in car lots, \$1.70 per 90-lb.

Canadian prime beans are quoted \$6.50 to \$7.50 per bushel; foreign hand-picked, \$6.75 to \$7.

Beef hides, green, 15c; part oured, 18c; ured, 79c to 20c; deacons or bob calt, \$2 o \$3; horsehides, country take-off, No. \$6.50 to \$1.70, 0.2, \$5 to \$4; No. 1 sheep-kins, \$2.50 to \$5. COUNTRY HIDES.

at prices over cost permitted by the Pool Board. Toronto dealars are buyine segs at country the price of the

DAIRY PRODUCE.

There has been practically no change in the butter market during the week. As there was a steady demand for supplies, a fairly active trade was done. The receipts of butter for last week ending October 12th, 1918, were 13,827 packages,

Coming Fall Sales

OCTOBER 29TH.—Alex. Shaw, R. R. No. 2, Lakeside, Ont. Holsteins OCTOBER 30TH. — A. W. Churchill, Gananoque, Ont. Holsteins.

OCTOBER 31ST,—The Ontario Agricultural College, Guelph, Ont. Pure bred stock.

NOVEMBER 5TH.—Munro Sale f Jerseys at Martintown.

NOVEMBER 12TH.-T. O. Doi-NOVEMBER 20TH.—A. E. Smith & Son, of Millgrove, Ont., will disperse their entire herd of registered Holsteins by public auction.

NOVEMBER 27TH. - Dundas-

NOVEMBER 27TH.—London Dis-triot Hoistein Breeders' Club. DECEMBER 3RD. - Arbogast ros., Sebringville, Ontario, Hol-

DECEMBER 5TH.—Elgin Park Holstein Breeders. Sale of Hoi-steins at St. Thomas.

DECEMBER 11TH. — Welland county Holstein Breeders' Club. DECEMBER 17TH. - Oxford County Holstein Breeders' Club. DECEMBER 18TH.—Brant Coun-

DECEMBER 19TH. - Southern Counties Ayrshire Breeders' Club.

Countes Ayrothre Breeders' Chawhich show an increase of 1,35 paiages as compared with the previous was
and an increase of 2,368 packages and
an increase of 2,368 packages are
cepts since May 1st, 1915, how as increase of 43,226 packages are compared
with the corresponding print of illidge to Sier, fresh made, Sie to Sit,
dairy prints, 38e to 46e; packers', 5e to Sit,
dairy prints, 38e to 46e; packers', 5e to Sit,
dairy prints, 38e to 46e; packers', 5e to Sit,
dairy prints, 38e to 46e; packers', 5e to Sit,
boxes, which show a decrease of 137
boxes as compared with the present
the same week of last year. As asset
the same week of last year. As asset
the same week of last year. As asset
various country choose boards due to
the same week of last year. As asset
the same week of last year.

Bally Produce Commission is partie in
No. 1 chease, 35e; No. 2, Micr. No. N.
The same of the

23. LVE STOCK.

Cattle values during the past we have shown as downward trend and prepeets are for further decreases.

The fear that pre-war proceeds to
brought shouth has a mich cown in
three or four weeks hundreds of term
were around the yards tooking for gas
witnessed a great.

Witnessed a great three the precattle three three

shipped back to the entire period. Store cordingly declined from its advantage of the the young stock. In issed animals is but first half of a farmers take advant tions and secure auff the fodder they have Lamb values show tuation. Heavy car-cash. Hogs are weal going to press a fur

October 24, 1918

Quotations;—
Quotations;—
Guotations;—
Henry steers, choice
do good
Butchera' steers
helfera, choice,
do good
do, modulino
Butchera' cows, choice
do, good
do, medium
do command
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do carrier de de carrier de carrier de carrier de constituit de common de common de carrier de carr

Less \$1 to \$2 on 11gh \$3 to \$3.50 on sowa; le 50c to \$1 on heavies,



Princess Leo Segis, I of the good ones in th at Ganano

MADERS of Farm
notice with conside
saic of registered
Mr. A. W. Churchill,
holding at his farm on
30th. It is not often the
an opportunity of bidd
class of breeding which
offering in this saile. It
fortunate for Mr. Chi
repair of the consideration of the
when he started bree
few years ago it was we

SIRE

Count 1 Herd Sire springs fron produced Se the only 50 l and which N tises as the \$ is also closely Sylvia the Milk Produc nation of the

JOS.

Peter Arkell, Bus. Mgr., Box 454.

io Food

les

Sale

ndaan Dis-

Oxford lub.

Coun uthern Club.

825 peck-tous week ages with total re-

shipped tuses to the country during the surice period. Stocker values have ac-cordingly declined from 50c to 75c. Com-cordingly declined from 50c to 75c. Com-tained advantage of uping their clients to take yours adoct. A first scarcity of surious advantage of uping the con-ting their clients and the com-tained their clients and their clients tail of their clients and their clients. However, the tail of their clients are their clients and their clients can. However, weak, and at the time of gold to press a further decline is anti-opared.

Quotations;-			
SHORMFIONS Same			
Heavy steers, choice	\$13.7	5 to	\$14.50
		10	12 95
Butchers' steers and	1 -4.00	60	10.00
helfers, choice		222	10000
netters' cuoice	10.00	to	11.00
do good	9.00	to	10.00
do, medium	8.95	10	8.75
		7.0	7.50
Butchers' cows, choice	9,00		
Patenois some, enoice	0.00	10	11.00
do. good	7.75	to	8.50
do. gooddo, medfum	7.00	to	7.50
		10	7.25
do, canners	20 3		6.00
Butchers' bulls, choice.	10.00		
Datemen wants, choice.	10.00		10.50
do. good	9.00		9.50
do. medium	7.75	to	8.50
do. common	7.00	to	7.75
Feeders, best	9.50		10.50
Stockers, best	9.00		
Milkers and apringers.	5.00	to	10.00
choice	160.00	to	200.00
do. com. to medium	65.00	400	100.00
Calves, choice	15 50	40	16.50
do. medium	10.00	to	
do mean a	12.00	to	13.00
do, common	8.00	to	10.50



Princess Leo Segis, Record 16.97 lbs. butter 7 days at 25 months. She is one of the good ones in the Churchill sale at Gananoque,

A. W. CHURCHILL'S SALE OF HOLSTEINS.

RADERS of Farm and Dairy will
Robits of Farm and Dairy will
Robits of Farm and Dairy will
Robits of Robits

nyasiable. He visited the herds of Mr. G. A. Bre nen, the Allison Stock Farm, and other noted herds, and there secured, without consideration of the price, the very best that he could buy.

Nery Best that he could buy.

Mr. Churchill was purticularly fortuniste in the choice of his bend sire,
and the choice of his who he actuned from Mr. G. A. Bry who he acwood. This sire is now four years oid,
wood. This sire is now four years oid,
wood the sire of the county of the county
wood. This sire is now four years oid,
wood the county of the county
wood of the farm, he of the
young stuff on the farm, he of the
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from good cows.

These are a few of the offerings in the sale. Mr. Churchill is going to considerable expense to make the sale a success. He announces that he will meet all trains at Gananounce on the day of sale and convey buyers to the farm. Lunch will also be provided. Those interested will also be provided. Those interested will also be provided at once in the sale of the

Elmcrest Holstein Friesians

Headed by KING SEGIS ALCARTRA JOSEPH (27863). Dam, BARONESE MADOLINE (16299) for three consecutive years in BARONESE MADOLINE (16299) for three consecutive years in Galamity of the produced 34.48 lbs. butter, 141 miles of days. Sire a son of the \$750,000 bull from Fairmont Pontlis Galamity (14387A); butter 35,900 bull from Fairmont Pontlis Galamity (14387A); butter 35,900 bull from Fairmont Pontlis Galamity (14387A); butter 35,900 bull from 1500 bull from 25,900 bull from 1500 bull

W. H. CHERRY .

· Hagersville, Ont.

LAKEVIEW HOLSTEINS

Present offerings are as follows:

ALKEYLEW KING SEGIS FONTIAC. a 3-months-old son of a 13-1b, 3-year-did support of Lakeylew Dutchland Artis, Canadian champion matter could also the state of the stat

Lakeview Farm, Bronte, Ont.

Maple Lawn Stock Farm

Offers a Son of King Segis Alcartra Spofford, the Leavens and Purtelle and Shaw Herd Sire, from a heavy milk Granddaughter of Count Gerben. He is very straight, nicely marked, and worthy of your attention. Ask for price and

WM. H. GOUGH & SONS

Bloomfield, Ont.

— His 2 Nearest Dams Average 38.82 —

His dam, sire's dam, grand sire's dam and great grand sire's dam, average 38.802.

His dam, sire's dam, grand sire's dam and great grand sire's dam, average 38.62 hos. butter in seven days, and over 112 hos milk in one day, which so not equaled by any other buil in Canada.

His agreement of the services are built in the services may be hired by Gulla, www. and heliers in calt to him for sale. If you need a HOLSTEIN R. M. HOLTBY, R. R. No. 4, PORT PERRY ONLY.

R. R. No. 4.

PORT PERRY, Ont.

RIVERSIDE FARMS. We can supply you with buils from three to eleven months old, from dams with records up to 32 fbs, butter in one week. Inspection invited.

J. W. RICHARDSON CALEDONIA, ONTARIO

-CLOVER BAR STOCK FARM OFFERS-

A few choice young bulls for sale, from heavy producing dams, sired by a son of Francy 3rd. Write new for description, photo and price.

R. R. NO. 3. STRATFORD, ONT.

SIRE—KING PONTAL AIGHTS CANADA, NO, 1992.

DAM—OXFORD LEWER FRANCY, NO, 1899.

He is a great stock bull, 2 years old, Priceptor quick sale, \$175.

HUBERT JEFFREY

SOPERTON, ONTARIO

YORKSHIRE HOGS OF BEST WINNING STRAINS.

Choice stock for sale, all ages. Sows bred and ready to breed, younger stock, both seares from suckers up. Good growthy fellows of good type and breeding. Nearly all writeles Turkeys, Geese, Ducks, Chickens. 109 yearling S. C. White Leghern Rens. A. KING.

Sunnybrook Farms Offers a 29 lb. Bull

SIRE

Count Faforit Segis, former Herd Sire at Sunnybrook who springs from same breeding as produced Segis Fayne Johanna the only 50 lb. cow in the world and which M. Cabana now advertises as the \$150,000.00 cow. He is also closely related to May Echo Sylvia the World's Champion Milk Producer. A rare Combination of the best producing blood.

JOS. KILGOUR



BARON FAYNE MERCEDES SEGIS I year old. Ready for Heavy Service.

DAM

Lady Inka Mercedes, a 29.34 lb. 4 yr. old, whose only tested daughter has a 23.55 seven day record at 3 years, and will easily surpass her dam's record.

This young bull is a big husky chap. Has been used for light service and is now ready to go into a full sized herd. Don't miss him.

WRITE TO-DAY EGLINTON North Toronto

The Farmer Must Safeguard His Own Market

In the fiscal year ending March 31st, 1918, Canadian Farmers sold to the Allies abroad the following bill of goods:—

Butter a	nd E	ggs	4	million	dollars.
Cheese		/ .	36	44	44
Grain an	d Fl	our	500	11	44
Vegetab			19	- 11	41
Meats			76	**	**
A	tota	of	635		_""

Yet, most of this was paid for with Canadian Money—the money subscribed to Canada's War Loans. Canada had to finance these sales to the Allies—"carry" them, as a store-keeper "carries" good farmers' accounts.

If the money had not been available; if Canadians had not bought heavily of Victory Bonds, most of that surplus crop would still be in Canada—unsold: that highly profitable market would not exist.

Canada can sell abroad now, only as much merchandise as she herself can finance. She must give "credit" to her best customer. Canada must accumulate her own working capital if she wants to hold her market. She must save the profits on this year's trade and re-invest them in Victory Bonds—or the market, and the high prices that depend upon it, will pass out of her control.

Every Canadian Farmer should, therefore, realize the vital importance at this moment, of the Victory Loan 1918. This is the time for building a solid national structure. Canadian Farmers are making money. Let them use it now to maintain their own market. Let them invest it now, in Canada's Victory Loan 1918 that there may be enough funds in Canada to pay for the tremendous crops now seeking a market.

Get Ready to Buy Victory Bonds

Issued by Canada's Victory Loan Committee in on-operation with the Minister of Finance of the Dominion of Canada.

89