

ONE OF THE THACTORS DEMONBTRATED AT OTTAWA LAST WEEK.

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## Treatment of Aborters in Dairy Herds

 it the greatest engine value ever produced. Fairbanks-Morse 3 and 6 h. p. "Z" Engines Use Coal Onl, Distillate or Gasoline -the mosteconomical fuels burned in engines today. The "I" performs all farm work for which an engine can be wed, It io simple, durable, iggat. truction, and can be operated Firbanlo-Morse quality is built into every " $Z$ " En-Fairbanlo-Morse quality is buitt inte every gine and this qua $\qquad$ 3 H. P. $\$ 160.00$ ${ }_{1 \%} \mathrm{H} . \mathrm{P}, \$ 9.00$

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## Every Turn of a Separator Handle

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 one that is hard to turn; one thad takes is hard to clean is constantly out of repair, anats of dilssatiafnotion Gain when aul theas ois alireot loss of geod hard are etiminated. It's onily but but the best Separator, and if you buy anculties are overcome when you use the
## Simplex <br> LJNK BLADE <br> Cream Separator

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## D. Derbyshire Co., Ltd. BROCKVILLE

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CThis Disease the Most Common Cause of Sterility omxon methods of treating aborters is deait with in a recen eitecular from the New Hamp shire Experiment Station as follove: "When a cow aborts, the afterbirth usually cliugs tightly to the cotylodon in the womb and should be carefully removed frcm them. Previous to thil seoure a douche can and amooth non collapsible rubber tube (preterabiy horse stomach tube). about \$4 finch it diameter. A douche may be made by attaching a faucet to the sind of a pall near the bottom or to the bottom of the pall. The rubber tubing should be attached to the fancet. The pall may be ralsed to the desired beight by may be rat a
means ot a means celiting. The cow's genitals thould be ringed of with an antiseptle shoutid be (suct as tysol or compound
solution cresol solution) and then the hose should be inserted into the birth canal and down tinto the womb. About a allon of the solution may be allowed ${ }_{t}^{\text {to }}$ to run into the cavily.
"Dally frrigations of the womb and vagina should be kept up for a week or ten dayl, when the cow should be ayringed two or three times a week syringed
for another week or two. When profor another wee the dischargo usually
perly treated, the perly treated,
stops in two or three weeks, but the stops in two or should be syringed once weekly untll she is bred. She should not be until she for three months after abortion. bred for taresut ten weeks to proper is treat an aborter. Neglect in proly treat an aborter, is apt to result perly cleaning a cow is it will be very in sterility, or at in asif. Cows bred diflleult to get her in call. Cows are before the dischargo and, if they do not likely to "catch, apt to reoceur in conceive, abo
a short time.

## Disinfecting the Bull.

To prevent the bull from earrying Infection, the sheath should be disinfected before and after each service with about a quart of a 8 per cent soIution of lysol or creolin. This may be done with a dc-she The rubber pump, or a large syringe. a ruld be tube or nozale of the syriage should be inserted into the end of the sheath, which should be held firmiy to the nozale or rubber tube so that the dis infectant may be forced up Into the sheath. Some bulls object to this procedure and must be securely tied so they eannot step from side to side or kick at the operator. Care should used to insert the tube or nozzle geatly so as not to irritate the-bull. Thetong tuft of hair at the opening of the sheath should be clipped and disinfected. When it is possible to do so, separate, dean bull should be used for helfers and clean cows.
"Varlous agents and means have been recommended from time to time as apecifics for the treatment of abor as apecion. For proventing abortion that is Imminent no drug seems to be of any immin. As a cure for abortion, carbolle avall. As a cura recommended for fifty acid has been reco both subcutaneously and in the feed. However, this remedy has been given up as unsatismedy has been my who have trled it Recently methylene blue has been halled as the specific cure, tried it many herds where has been discontinaed becaums to be found ineffective. There seems blue or no evidence that uterus carbolic acid reaches the where the infection is operatias.
"Some dalrymen practice selling aborting cows, thinking thereby they ean rid their herds of the disease. The fallincy of this reasoning is shown by the fact that new cows and helfora taken into the hiris will abort. if a cow is not a good producer and becomes unproftable after aborting. she should be sold for economic ressons, not as a dairy snima, but to be siaughtered. The practice of selling aborting cows for breeding purposes,
thereby spreadiog the disense, is cow be rigoroualy aborted should be retalned, trasted, and again bred."

Horse-Power for Varying Soils

ONE may easilly be underhorsed or overhozeed for any tarm operation, so varying arear for amounts of pull on ure drawar varying soil and monitions prevall wo When the best condty for deep plowand our oppor draft horse to able to ing. A good draft murrs on the orawexert 150 pounds reauired for plowiug born stabble six inches deep with a 1 (-nch bottom, so that a toam that 14 -fnch bot 800 pounds pall has an excan exert 800 pounds ponds. Wheat cess power of the same work reavitree 336 poind 3 pall on the drawbar, and *hen it comes to the heaviest gumbe 1.580 pounds may be required. the ground ts hard there will be kreat increane in the pull required. In very light sand dunes light horsel In very legh samause only 168 to 255 are indicated is required and the llyb horse carrios himselt more easily on horse carroter
alifting footing. But as as rule eniter easily seen that horses of consider able substance are necessary for farm operations. Bluegrass sod needs a 504 -pound pull to turn it, clover sod 588 pounds. With the blaegrags three good horses with a pull of 450 pontid good a deflclency of 54 pounds, with the clover a deflelency of 138 pounds or within 18 pounds of a fall-horse de ficlency.
The figures are tractor figures. They may not be aceurate and it is admitted that they are subject to great variations, but a perience will lead him to qaiue a comparfson whlch is probably correct a falrly strong sand requires a 252 . pound pull and a ciay 6ia; and dronth comblnation of clay, roots and drouth the task is discouraging, This leadi us back to the fact that in a year on tew good plowing days in a year on strong tough solls and that every ad vantage should be taken to ham to such soils at their best if we are to conserve our horse power. None but the strongest of horses can cope with such solls, which are and always have been one of the hardest problerns agriculture. It can only be met it part by force and for the rest by covering them with such a heavy sod that their delinquencies are carpeted When such a condition is attaine they may often bellvy in Breeder weather.-L. Oglivy in Breeder Gazette.

Small Farm Disadvantages LTHOUGH the "Ittle farm well A tilled" is a favorite with the poete, farm management sar veys of the Nebraska Conege oral dis culture show that it has sovich hass advantages. Among those wrim protis the greatest effect upon following may be mentioned the following 1. Two men are needed to do slarge part of farm work economicany, and a small farm frequentiy does aoh adde enough steady work to keep an addtlonal man busy.
2. The cost of horse labor per acre like that of men, is excessive.
3. The cost of machinery per actit on small farms is nearly double that on "family-sised" farms, as machinery cail be used to better advantage os such farms.
4. Barni and similar equipment coot 4.re per acre than on large farma. 5. Small fields are necessary, asi the

Dairy farmers are not in the burl ness for their health, nor as a rule ati they phllanthropists. They want sili. ing and a fair prout;
tion for higber mill priced.

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hany$\underset{\text { Wentr }}{\text { HE }}$ Weatrille good roa
r milviee y the rowi th man that I hay Sever secas

Even the one or two fil a bewntifyl ste

Abows four road from atc one to the ena about one hen bottom land an thet the Mart thot the Miar eloncest tes throu shop only a m harn ant math coustruetion, ropad blits and a the emal Al of the mac Ah of very mant of repair.
All of thin knew John whe rier's plece to know that he
and that aster barsly enough for $\$ 20.00$ wple first two or th kumbred Hode to improve thr of hie hond, an the havd unatil Howsteft cows Westville. An fuet pald the : is now hifs ow All. Sintth, acrues the roa When Join Mar one of these of tmpressees you bo doern't an the way smilim Alfs Jarn fis (I have been
buathings all almoet, as btg call "all the $t$ styde He drt
goee Into Wee goee into Wem
"Flivver" truel dispenite with good, bes, esery I think that produces just, It would be sature than Jo hand to find thr One morntng Nomal Bank w to the back of eirunty mbadi artived.

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.

TWe concrece road leading northward out of Westrille is an exceptionally fine one; it is a good road for an aftermoon's automobile ride and raiviee you to taike it. Almoet the entire length the road bordered by datales or goldenrod and many of the eurnounditng farme are 80 good to look hay fever stason.
Eren the least pretentious of theee farms boasts one or two fine big ellos and in almost every pastreatitupl stundy hend of black the hill you will see
Ahons four milles from Weatvill he and cow
Abook four miles from Wescville and werose the road trom ewch other are fwo exoellent farms, The one to the eart belongs to John Martin. John owns about onse hontred and twenty-five acres of as good cottom hand as I ever aw. Whe buridiings aren't very ornate bu a ginace at them is enougn to tell you hat the Markins are a thrifty, frugal sort of folks. tho whe sioms hmos an chooght $k$ musk have come out of the paint hop only s moment betore you aee ft, and the dairy barn and matk house, though of somewhat oldestyle oustruetion sive evidence of betng in first-ciass ooct inls and hentery, well fed atock of low winter ood billes
In the emall, weather-proof machinery shed you will find notiting but the beot that moreey can buy. AH of the machinery is good, praotical sturiz-no unbecessery contraptions-and it in alwayn in the best of repatr.
All of thin 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 after making the firvt payment he had barsly enough eaph in hand to buy five sorub cows for $\$ 20.00$ neplece. I know, too, how he struggled the Irst two or three years, to add to lits meagre herd. know how be skimped to pay the service fee of a parebred Holetetn bull; how he studiled and labored to improve thre qualky of his herd and the quality the hand until now he has nothing but pure-bred Holstefn cows and his property is rated as one of the beot pleces of land withtn a hundred memes of Westville. And he told me theta sprmg that he had fuot pald the hast dolfar on his mortgage. His farm fa now his own.

Alt. Sonth, who owns the big, pretentious place acrose the road from Martin's, contrasts in nature whi Joon Martm quite as strongly as his farm contrasts in appparance with Me cin's rarm. John is oue of these quiet, unaseruming follows and though he mpresees you as beting a pretty good man to truet, to doern't soem to rexilinte conidemice and affuence
the way smiling AM. Smith does.
Arrs Jarm fir about three times the size of John's (I have been told hifs father left it to him). His budidings all look new and modern. His house is atmoet as bfe as his bam. He has what you might all "all the trimintn's" as faet as they come into styte. He drfves a racey slx cylfnder car whem he goee Into Westrilte while John goes to town fin his "Filvver" truck. Pereonelly, I thimk that Alf might dirpenste with the car for he, too, has a truck-a sood, ble, eurvioenble one, at that; but of course, it none of my buelnces.
I think that Alf must "Wve up" to what his farm produces just mbout as fest as it can produce, but thet again is nope of my bustness.
It would be hard to find two men leas alike in nature than John and Alf, and it would be quite as hard to flad two moon who were stronger friends. One morning about a month aso, John Martin and his son Joe drove up before the Westville Naconal Bank whth a double row of empty milk cans ta the back of the "Fivver." Alf Smith's car whe airinty staoding fin front of the bank when they artived.

## Frogs and Bankers

Whither They Jump and Why BY PAUL WING.

As John euterel the bank Alt hailed him with this "Wearty greeting:
"Wedl, Johnny, my boy, are you coming to eee the old sledn-flint, too ?"
Now you mustn't take Alf seriousty. By referring to bim as "the old slin-fint" he meant no dierespeet to Preaddent Thompaon of the Westrifle National, for he and Thompron are strong pervonel friendeIn fact Thompeon's farm joins hifs on the south, That's just Adf Smith's way. Everybody knows him and no one would take offense at anything he said. John admitted that ne wis there to see Mr. Thomptonn.
"AMf," he sadd, "IVIl tell you what I'm going to do. The boy and I have got to spead more time in the flekds this year. We can't got any extra help, and even of we could Y woutin't truet them with the cows. I have just apent the last oeut we have for six yeartin' heffers over at the Miller diepersion sale, that's golng to mean more cows to milk before many monthes no I'm gotng to aee if I can't borrow money enough to buy me a millilos maohine eo's I can take care of the extra cows when the thme comes and still have more thme for fletd work."
"Oh-eh," said Alf, "good thee. And since you're foeling so confldential this morning I'll tell you whet I'm here for. The old bont, out there, is geing out of date," he jerked his thumb towand his antomoblle, "and I haven't got the ready cash to buy a new one ac 1.u going to borrow it."

## 

## Why Buy Vietory Bonds ?

 $Y \begin{aligned} & \text { OUR country needs the money, It can't } \\ & \text { be borrowed from either Great Britain }\end{aligned}$ be borrowed from either Great Britain finance Canada's share of the war must be supplied by the Canadian people.Victory bonds will sustain prosperity. Without the money made avallable 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 finanThey, too, will be glad to hear of our financial victory. It is a guarantee to them that 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 patriotio and selfish at the same time. Every motive of patriotism and seif-Interest should prompt the Canadian people to "go over the top" with the fult $\$ 500,000,000$ asked for. Whether we have an early peace or not, the money is vitally necessary to our national
well being.
"Why, Alf," sadd 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 $t$ into a tractor or a mille ing machine? You may not be short of men yet, but you will be, as sure as fate, if the Government increases the dratt age IImit."
"Oh, I know," was Alf's reply, "but the mfesus and I can't get out of date, can we? And besides, any ten acres of my farm :"ght to be good security for the amount I want to Horrow. I think Thompeoas will let me have it all rkat, but of course you never can tell which way a frug will jump."
Their conversation was interrupted when Thompson ushered Alt into his offige. Alf was gone for some time, fifteen or twenty minutes I should think and when he returnex to John he diln't seem quite as boleterous as when be loft htm.
"Teall Joe to drive on out home. I'll walt for you and twike you out in my car," he sald as John followed Thompeon back to hts ganotum.
Now, $T$ have no banking experience, and of couree my opinion is only a hyyman's opinion, but 1 too, should think that Alf's exoellent farmi, or any part of it , would be considered gilteedged srecurtty for any reasonable loan by any reasonable banker. Possibly President Thompeon did not conwider Alf's loan a reasonable loan. At any rate when John left Thompsom's offloe, ondy five minates or so after he entered It and got tnito the "six cylinder boat" with Alf, Alf's first remark concerned the stubbornness and lack of reasoning ability of some bankers.
"Of courve," he added, "I've got nething against Thompeon, he's a good fellow and all thet, and I e'poee he lias a right to do what he pleases with his own money. How'd you come out?
"I got the money," eatd John, "and I'm golng to get the milking machine, and IVI tell you this, Alf: I'm not much of a hand to bet, but If I was I'd bet anything I own that you could have got all the money you wanted tf you'd beon buying a milking machine nstead of a new automobile. I'h teli you what Thompson sedd to me. He send: 'John, you can liave twice what you want if you need it, there fen't anything thal. I'd eooner lend you money to buy than a good miliking machine. Under preeent conditions, whth the shortage of labor and with a greater shortage threntened, with high feed coets and with the urgent need, both in this country and abroad, for nore milk and milk proplucte, you coukdn't make a wherer fnvertment than the purchnse of a good milking maohine. Id rather loan you money to buy that machine then to buy a new wagon or a new manurs presuber. You can aiways patch up your wagon or your manure spreader and make them do, but you and Joe can't do six men's work in the dalry barn whthout the proper mechanfont equipment. The millsIng mechine will be better for you, better for your cows and better for the rest of your farm 'eause you'll have more time to work it. Im going to put in one of mywolt just is eoon as I fintah remodeling my cow barn. I know aomething about the machirie you
 the recognized etandard. Sure you can have the money," That's atout what he eald to me," seld John, "und that's about what he'd have sald to you if you'd aeked him for money to buy a milker or a pow ensiltage cutter or a purebred sire, or something White that."
Alf was etlent all the way home. He gets that way when he's disuppointed or worrted. He was too deeply engrosered in thought even to notice the sides along the conerete road leading norcaward out of Westidile.

As John Martin got out of the car at his own gate, Alt eaid, as if in reply to a statement that John had made only a moment before, "mebbe so, mebbe so." there cow barn one fre in the aftern and minking hite pulte chis then quite emsty in an lour and a half, You might hear
nnit milling machines. Yo. might see the moet contented cows you ever saw in your Ife at millaing time. You might look over and read the story of increased production and lengthened lactation periods that it tells, Now, you can't tell which way a fros will jump unless, perchance, yours. The reason for certainly have a reason, but our frog must certainly as innow have never yet been able to discover that reason and
conceal their ignorance by calling it instinct. conceal their ignorance by can advance, which No more can you tell, in advance, perehance, yot have studied the reasons for his jumps. you have studied the reasona Tha banker, 1 m sure, has a wed. Observe the usually af very good one. fon though you b. dleer and follow hian, even that. He genmay be a couple of jumps benin of safety and erally fumps in the direction guide to follow proft, and is a pretty good guide direction.

## Commercial Fertilizer Profits <br> Examples From the Old Country and Our Own

MA. L HODGINs, whose post omice has a ter in the County of Middileoex, ontaria, hase a thes. tilizer experience to relate, wimil vertilizers are under cermain conditions, commerciai serth" more prontemite even than "war spring of 1917, Mr. Housgins The whote field was manaured and ha at acti phosppate rocatived an appplication of 200 ubs. of ane field whith per acre, except for a strip throubt as a teat strip reoedved manure only, and was A good crop of oats was harvested and winter wheat the land was plowed and seeded to wielded wheat at This summer the untertilized strip the rematnder of the rate of 12.5 bushels per acre; then with acid phosthe field, which had been ler per acre, a difference pheite, threshed 54.7 bushels per acre, a davor of an of 43.2 bushchs, vaiued at over $\$ 85$, in favor of an applifention of commerctal fertilizer
four dollturs or five dollars per acre. in favor of the Condithons here were remarkablyce in yield was commercial fertilizer. The difference in yien was due to the fact that on the fertilised ground ane fall wheat made a stronger growth in 1917, The ull came through the severe wintor tuminjured make the ame top growth tn the fall of 1917, and was sevy hav winter kithed. Spring gralns could not possibly hava wher - thie same dimerence in favor of comment for fertilizer, but this does not spoft the argument for commerclal ferttlizor for fall wheat. A secondary fervery fimportant rasult of the use of cor mercial fover tilizor is the better stand and extra crop of thert, of gt thinated affong whth the grain. Win. Etewarh, of St, socted athorines, for fnstance, used 200 thes commercial fertilizer per acre on oats and this year lis for the fertinzer per acre yielded four tons per acre for the first crop and the second crop, when hast seen, hooked good for a totn per aere.
These are two examples of success with commerclal fertiMzer that were featured as a part of a the tiliver xhibit in the governan National Exhibition. Another two photon Oamaitan Natioual parts of a wheat field on the flustrated dife St Snyder, Stevensville, Ont, had spring wheat. One part of the 10 tons of manine per acre and was maliing a comparative ine per acre and wasther part of the fleld y slow growth. Another part 200 lbs conthad recefved an application acre madition to mercial fertilizer per acre mas making an exthe manurss. This wheat
traordinary good growth, the opinion that
Prof. Bi if is strongly of the Prof. Bi Hi is strongly of the good advantage fertifivers intght be used this connection he on pasture land. reforred to the Cockel Agricultural College ments at the Midhand Agsleh theme exper in England. The soint wats a heavy elay. ments were conduotet was 448 lbs . of highOn one part of the pasture 168 lbs . of sulgravie कuperphosphate and wasted on each phate of potash were broadcasted found that acre of the pasture award. one acre of fertidacher area unferthitzed 11 sheeps whille a simflar area an. In the would suppopt only four whecp acre was seanom 10,458 Ths. of milk per and 6.637 produced from fertinzed pasturo This cerlbs. of milk from unterilizing
tainty was proatable the optntion that the Prot Bofl is of the oplal ferthizer in greatest need for comnes a supplement Ontaino in for phoeptint am not advocating to learnyard marilisers ns a aubstlitute for commerving he finformed an ediltor of Farm manure", he "Thetr proper function on the

fllo is not completely emptied by next filting time the new crop may be placed directiy on top of the old sthage; if this is caretully leveled of fmmediately betore flinng there wyt be no spplled silinge at the juncture of wht be no sppil
the two crope.

In emptying the sillo it is convenient, and In emptying thide silos almost secessary to provide a chute or $c$ nveyor through which to provide a caute be thrown directly into the the silage may be theron. The allage should eed truck or the wagon. in one or two be placed before tild not be allowed to dr handilings and shouido being eaten by th out appreciabimals, as it wil otherwlse lose some of it ammais, In the case of weedy alralt palatabe and barley sflage the foxtaill and bat hage and respectively, will soon dry ou ley heads, reed, at least in hot weather, and will be rikely to injure the mouths of the will be rikely tolly if efloed at a rather ad animais, stage of miturfty.

## Pig Clubs in Ontario

## The Experience of Two District Representatives

 diversilied farms of Ontario is as a suppleme apply mamure, and I bellieve it would to pron manare some super-phosphate right alons Potash, at present prices, soils, too, will need liming, Nitrogen can be secured from ts almost prohiaidive. Ny plowing down cover crops. barnyard manure or ay also adda to the nitrogen content of the soll."
## Feeding Out the Silo

## Suggestions for the New Feeder-ByF.W.W oll

 $T T$ is not necessary to put any cover on the stloed mase, but if desired a load of eut straw, marsh hay, chaff, etc., may be placod oa thereon; these oughiy weited, will woon germinule and will protect the underiying green stuff will form thatfeed from decomposition foady for seding in two or The silage whin fling. In opening the silo the three weeks after filige of spofled sillage is retop six to twelve-inch layer of spolted silage will be moved, below which a good qualke in quality as the reached. The sllage will fmprove in guat or two is silo is being emptied until the rather acid if the reached, whieh will Ulvely la rather ack, or a good stloed mass contained considerabite water, is not pro deal of water was aduled and for feeding. this sour vided with a drain. If uscd fock in only very small sllage should be fed

## quantities.

The sllage is kept level in the sllo all the time during emptying so that as lictle sllage as possible is ex posed to the alr and secoudary fermentations the avolded. A sufficlent amount of allage shoowi viz. removed dally to keep the sflase from aponing, via., one to two inches, according to the air temply in warm The sllage must be fed out more caplare, fmportant than in cool weather. it is, therefore, than that that the dfameter of the sillo be no greater than that the stock on hand will be abie to
dally of the thickness sussest sllage will keep in-
Once sealed in the stlo the sllage will keep in Cefnitely without material ehanges after the first fow weelcs. Inatances are on record of shage excellent yoars old or more having been
quality and eaten by stock with great relish. If a


Filled for the Third Time and Well Filled.
The fwo bif siltow in the backsround explain why it is poasible for Mr The two Alisen, Dundas County, Ont., to maintain a good the third time- all


1AST year $10,000,000 \mathrm{lbs}$. of pork were prodnced by the 45,009 members of the Boys and Giris Pig Olubs in the United States. O. Bitario De B.S.A. District Reeprose in Lennox and Addington partment of Agricuid a stmitiar movement ha his prooounties, has started was finances. He approacher vince. His first need Mas Monent's Bank in Napanee the manager of the ith the head oftice, the bank ad After consultation with work. This money-was large vanced $\$ 1,500$ for the work. iy used in buying small pign. given two plgs, organized and ewch boy Tes ber retained for brom a pure-bred Yorkehire sow to be resold on the mar ing purposes and a grade phe that eneh boy gave set. The phan of fant for his plgs and the sale of the hia note in payment for has maricet hog in the fall was to redeem the note for market hoe

Altogether Mr. Curran had applications for 100 pigs. Dach chlld gave lila note for $\$ 20$. This sum proved later, however, to be not enough as emall proved later, however, exponsive to obtain. pigs were difficult and exponsive ant of plgs for pig year we expect to have any. "We then hope to hav clab work," said Mr. Curran "Wows are good eleven ptg clubs in the oounty. The stock in the ones, and will materially improve ch. The providing sections where they are distributow a problem witi of pure-bred Yorkshire boars futr at Napanee, wher us. We plan to bold a pig fair at No boys pigs will be exhibltec and good prizeil the boy
given."
In Pool County the District Representative V. Stark, has been carrying on a stmilar work wlth the Juntor Furmers' Improvement fatton. These were older boys and more ows just bred, were purchased for them. The boy patd $\$ 50$ each for these sows, mosit of them giving cash. Where the boys could not aftord to pay casl arrangements were made with the bank to take their notes. "This were made with the oank in wonderful ifve stock improvement," sald Mr. Stark. "All gokernment farms should be breeding purebred piss for our work.
tils work up."

## Easing Parturition Is This Idea a New One?

WILL turning an animal on its back dus Ing parturition assist the delivery of the youns? This question is askod by C. C. Nison in a recent issue of the Farmer's Advocate. Mr. Nixon tells of an instance that came under his observation in which several men, exerting in wongth, were unable to remoy Finally one of them eraggested turning the Finlmal on the baek. The veterinarian in at animal on the back. sugestion foolish, bet tendance thought the susseaton foolish, bol all other means had fafled, and, aver The aitempt, the animal whas turned
calf came easily and maturally.
A few daye after thin articte had appeared in "The Advocate," Mr. G. A. Brethen, of Norwood, Ont, the well known fiolsth vatry for a chat. Incldentally he mentromel Mr. Nixon's article and told of a simflar ei Ir. Nixo. They were having trouble with Holstefin cow. The cetlf was held in by fit hlos. It was wogreabed that they roll the cow over in the hope of casing the hipe through. As soon as the cow was on her back the calf was deivered. Have with 㢼s of Our poiks hating delfvery?

In Compe

T$\Gamma^{120}$ called. over the con
been winning the final gro the final
where the a where theph. I ustually has well as in nat States herds the past and than in any tion in any Howlck, Quel lam, of Hun
represented represented
and the Jerse of Brampton; with the best with the best
show circuits. Canadlan dadr be proud.
"cleaned up" cleaned up explolts as a smaller fairs. brought home with them. to an unfortu
quarantine re quarantine $\mathrm{Hulet}, \mathrm{Norwic}$ Hulet, Norw
with his Holst cality; at leas sence, curvent
It would be and instructiv Dairy Show
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show, which the "National.
The keynot hibles was the


## Ho was erand hit week Ho

## 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. Buli \& Son With Their Jerseys, Folly Hold Their Own and Come Back With Many Good Placings and One Grand Championship

THE National Dairy Show at Colum. bus, Onio, is the great final of the called, by dairy cattle breedcrs all over the continent, the herds that have been winning at the leading state fairs in vartous parts of America, moet for the final great contest of the season, where the awards represant a national rlumph. In past ycars tho "National" usually has been such, in character, as welt as in name. Canactian breclers have crossed the line to meet the groat United crossed the line to meet herds on very few occasions in
States the past and never has there been more than one breed with Camadlan competi. thon in any one year. This year the competition at Columbus took on a truly international aspect. Mr, R, R. Ncss, of Howlek, Quebec, a.d Mr. Gilhert Mcalillan, of Huntingdon, Quebos, worthily roprosented Canadlan Ayrsiro interosts and the Jersey herd of B. H. Bull \& Sons of the best winning herds in competition with the best herds of the United States with the best herds of a record of which Canadian dairy cattle Breeders may well be prond. Of course, no one herd "cleaned up" in either breed. The competition was altogether too stiff for sinch explolts as are commonly witnessed at explotts as are comer fairs. But the Canadians did as well as any, better than most, and brought home a fair share of the honors to an unfortunate misunderstanding of United States quarantlne regulations, which provented Mr. A. E Hulet, Norwich, Ont., from competing at the National with his Holstein herd. He got as far as the border Detrolt, but was thene turned back on a technt callty; at least, this was the explanation of his ab sence, current at Columbus.
It would be impossible to tell of all the interesting and instructive foatures of the Twelfth National Dairy Show within the limits of one issue of Farm and Datry. Five dairy breeds were ropresented by their best,-Jerseys, Ayrshtres, Holstetns, Guernseys and Brown Swiss. But the cattle end of the dairy husiness is only one end, even granted that it is the important end. The manufaoturing features were mportant end. The manufaoturing features were fully represented. There was a phe exhibit of dairy manufnctured dairy products. The exhe the of dairy machinery was the larkest and beot to been on the continent. In a bullding devoted to nutrition he econom and acalh broving poopertios of milk and its products were demonstrated convincingly in many original and interesting ways. The United States Department of Agricuiture and the various itate institutions had exhbits, in themselves, worthy of a report Finaliy, there was a splendid hors the " Whatlonal."
The keynote of all address, conventions and exhibits was the national necessity of the dairy fndusry, Dr, McCullum, of Johns Hopkins University, de


Bonnie's Perfection is a well-known Show Bull.
Ho was erand champlon it Toronto in 1917, Arat in 1918, and second at Columbus
inst week. He has \#lie find eharacter, but ithowed at in diandvantage wtih a bull
 Whoto by an editor of Parm end Dairy.


Lessnessock Goiden Love, First in his Class at the National Dairy wilu ... Th's great bull, owned by Gilbert McMrilan, Huntingdon, PQ, wan grand cauar-
plon Ayrahfre butl at Ottawa last September. At the Natlona! Datry Show week he won his class, won again in a speclal class in which three-year oold and ared butls competed, and was defeated for the senior champlonahtp in a very clese contest with the two-year-old bull shown by Adam Selts, of Wisconaln. Photo by an edtitor of Farm and Dalry
ivered his celebrated leeture on "vitamines," ant explained the necessity of liberal quantities of milk in the diet if bebtes are to grow at ath, anyt if adutt beings. One placard in the nutrition butlding even suggested that every boy and girl should drink quart of milk daily, or, if the children don't happen to like milk, it should bo "camouflaged" in vartou dairy dishes. Mr. Munn, the President of the show, was strong in his advocacy of a great advertloing campaign to convince consumers of the vital neces sity of supporting the industry, ant Mr stkens President of the American Holstefn-Frfestan Breed ers' Assoctation, was equally emphatio in endorsing the suggestion. Everybody was there to "hoost" the dafry industry
In only one particular did the show fall short of complete success. There were comparatively few influenza in Ohio during the fair week. In Columbun all public gathering places were temporarily closed by order of the Board of Health. People stave away from the show as a "safeity finst" measure As a result some of the finest classen of dalry cottle ever seen together were Judged with fewer speotil tors than might be expected at a small county fair For the cattle parade and horse show at mght more people were out, but they were numbered in hundreds instead of thousands. This was a factor, how. ever, over which the management had no control But our mein interest now fo the dafry cattle.

## THE JERSEYS

Tthe Nas Jersey year at Gere National. Thery Jerseys as any other threo breeds combined, 202 in all. From away down in the South-west, Ed. C. Lasater, of Texas, was out with a show herd ploked from his 1,500 Jerseys, the largost reglatored herd in the world. Longylew Farm, Missourl; W, A. Brewerton, Illinols, and J. K. Dering, Illinols, represented the North-central States, whife from the east were the winning herds of L. V. Walkley, Connecticut; Inderkill Farms, Néw York, and Hood Farm, Mass. There were several Ohio herds, for that State has long been strong in Jer seys, and B. H. Butt \& Sons trom Canada, who had 20 head out, In some classes there were over a noore of entrles, all good ones, and In

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 falda meedows outuing 85 tons, at mated 1,000 oords wood, 3.000 timber, fruit, Good 8 -room howne, 1
tock and horse barns, wapoo barn, tock and horse barns, wagon barn,
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## BOOKS




The Trap Nest

## By Michaet K. Boyer.

C OR years back, as far as I can reF member, the laying qualities of a 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 hev produce enough eggs to pay hey board) was allowed to remaln in the flock and enjoy the same comiorts and the same feed, as did the đoling phenomenal work.
The drone's apecies were propagated. When it came time to set hens, the eggs were gathered in a haphazard way, and the result was that each year the eggs from drone-hens that positively refused to work during winter, were the foundation stock of the new, gere cation. Is it a wonder that statistics fixed the average laying of a hen at from so to 100 esgs per annum?
I well remember the time when win ter egg production was deemed more of a dream than a fact. It is different
to change? The trap nest.
Hers we have a patent device, open to the view of the hen. She wants to lay. She examines the nest carefuns The door is open, it (cons she enters. are mighty cantious) way touches some senslitive part of the nest, the door closes, and she is held a prisoner. But as she finds herself in a coay quiet corner, she calmily goes about
her egg. She finishes, cackles, and her egg. she inishes, cock someone to awaits the
Aiberate her. fantened around the leg of each hen, and on each band there is a different number by which she hen known. After inished her number as. is taken ofr the nesk, her number on certained, and due credit given her are the esg. At algui sheet and at the noted on a recora shet, how many end of the year fual I I breed only eggs each hen has from my best layers.
In this way each year 1 sm able $t$ tmprove the egg-laying qualitites of my stock. Such a procedure gives us 100 chance to ralise the standard from 100 to 150 eggs as the averago of our flocks. Is not such
worth working for?

## Hens on the Farm

WHy are there not more hens on the farm? One farm woman, Mrs E. W. Mahood, Bhal, tackles the khode
this knotty problem and diseuses it interestingly. Here are's few para interestingly. her letter:
gruphs from her
"Usually the men on the farm leave the poultry ralsing to the women, who are expected to pay the grocery bilis and perhaps buy some allinen out of for themselves and the children ourself the proceeds. The housewife spending has plenty to do without spender time trylog to ractances, and the fact sidverse circumstances, all the money that she has to pay out all the money she recelves as the result of her habor for necessities, contributeq to her general discouragement and lack of terest.
"The farmer hifaselt, as he has not been accustomed to getting eges from the chlckens durlng the Winer months, does not expect any. Hence, this season of the year he has plenty of time to give them all the care they need, and the remalt is that when need, and comes the chickens are poor, covered with vermin, low in vitality; late startting to lay and soon broody.
ed to select their nests at will, and thus many eggs ane never gathered at, all, but allowed to rot under the barn, In some fence corner, or under a. pumpkia vine ia ly the profte All this cuts deeply into the pronk, Agmin, the faraer has been accustomed to rals, oniy scrub chickens, mongrels which are slow of develop ment and low in protuct in chicks as he to buy as good, stake the same interest in them, git, them ss comfort able quarters and use the samis intelisance in their feed and care, then koep books to show him juse wiak prold sur is obtaining, prise him sumpiently to arouse hio io terest in chickens,
Is Mra. Mahood right?

## Early Maturity

0OCASIONALLY an amateur pocitry man is heard expressing aatistaction at having his puliets laying their first eggs at onily doultry monthas old. not even desire such early maturity. Writing in a recent issue of the "Pennsylvania Farmer," an experienced poultry man gives his perienced pouting for early maturity aps follows:
as follows:
"Too early maturity is known to be a real ealamity in poultry work, leada real calamity that will make for poor ing to resuts that on. In developing a production really valuable lot of layers that will be able to do credit to themseives for long laying periods and obst frame years of laying, a blg robust frame, with deep bodies, broad backs, wo filled out breasts and abdomens, generally atrong bodily dovelopment ${ }^{3}$ of far more importance than ant ariy laying periormane. We want birds that are not going to pleces under the straln of heavy feeding for eggs later on. After egg development onea begins, bodily growth ceases, and if that condition is forced by too heavy feeding the early maturity is secured at too dear a price. Tha toe early maturing pullet is nearly alway amall, sbort of 1eg and smaill of bone not able to carry the flea necessary to heavy and prolonged laying. Her laying soon becomes irregular and her appetite falls snd the owner is disappointed in what at first seemed such appesirable quality."
Probably there are few cases where farm reared pullets are in danger tarm rearod poing. The trouble is usually the other way-careless eand asuantiont feeding and no eggs thl insin few year. Pullets so fed on in the lised birds sre laying in that Aprll hatched birds are proftable October wilt mand they will be bealthy and of birds and the
normal size.

## Fattening Fowl

IN fattenling ponitry they should be conflined in a small pen or crate. Exurcise produces hard muscles which means tough meat, while nonwhich meas leads to a softness of the axercise teaich are tender when cookmuscles which arould be ted as a lack d. Sort iepd aioreres with the proper digestion of whole gratn. The feed digention of finely ground and mixed with water, milk or buttermill: The following proportions have been foilind very entisfactory: onehalt finely sround corn, one-quarter whorts finely ground orarar ground oats. Une the fands that are reasonable in price. Corn lis rich fin fat forming slementa, both barley and good plump oats can form a lerger part of the ration where they ean be secured chesper. The fattentag pertod should last not over fate meeks. If continued longer there will be a lons of vigor in fowis with will bexercise. This fattening wili is crease the weight conalderably as well as tmprove the quality. Roont well as improve carried over and the poor layurn should be culled out and fortenel Put them fin the fattontas pers.

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## Where E

 natorel, ar Prent try and a large p habitants have, no the coast and sees men and the coas work together, it person would be he malans of the
## Field Notes

By "Mac."

## Where East Meets West

 F OR a person whe is at all Inclined interesting things in taldters interesting things in taling a wis my privilege to take last summer, tis to notice the various races and Is to notice the various races and hinguage diferent parts of the comears canats, and apectally Weuther Co. cauaca, alat a cosally Westem Can and , the sumbetatery shorption thene maes to ane of themest ater ous thase racou to oae or the most sarious problemar coacong the nation. In the greater part ol largely io thifes element is contined jargoiy to Ytainans. Howover, who ven lung he be motal mot ber baro. poan languagos he need not be loag in the waltug room at the station or walking about the sube to realise hat the languages we heari about him are much more varled than would be heard in one of the Ontarlo ctties. In the prairie citles the Soniyern Europaan countriles appear to be strongly represeated and it would reeuire a atudent In "raciology" to dietinguish them. The farther west one goes the larger the proportion of the rellow racek, Chithese and Japanese, and on my recent trip, When I reachad the coast, 1 saw what I had often read about and had known to exist; the larze numbers of Hindus which are already on the Pactite Coast.NE of the pecallarttles of these Eastern races is how each of the three have dritted late an occupation to which they seem to adhere. The Chinamen, following the raditions of thetr ancesters for canturies past, appear to be naturally born gardeners. In fact practically the whole gardenting and trucking rade of the Pacific Coast is now in heir hands and, while the white people admit the superiority of the Chinaman as a gardener, there to at ways a certs in degree of hard feelling on thel, part for having been ousted out of the gardening business. Gar dening, however, is not the only oe cupation which the Chinaman oc them hold of thry ame meet oxten ively as farm laborere and from that could learn from varions furmern with whom 1 was talling many of hem are a very nulthfactory cany of tretp. Detil the tast year or so the sages they demanted were tow, they wages they demanded were low, they vere steady workers, they boarded liemt and understred ligin sum mid ably enduriar and couid stand a lot of hard work. One farmer whose place 1 ristled told me that the Chinaman Whon saw milking cows in the tave han been wink inm for 19 years. hant enll harmer stated that he had irled all three of the aastern races for farm help and liked the Chfnaman best. But in spite of it all there appears to be a generai foeing of fear that seme day or other the yellow man will get the upper hand and it is a Question of whether the white luborer, of even the large majority of the white employers, on the Pacinic Oosst will ever be reaily in havor of the im. portation of Chinamen elther permaiaently or understand.THE Jap appears to have turned Tore particalarty to the natring
 try and al figen im a maritemy conar habtants have, po foubt, had expert. enee on the water. As one mies slone the conat and stes the Japmese pithers. men and the const refton frittens at work torether it is dimimit to tro tingulah one from the ofther and a person would be quite prepured to bebeve that at some perfod of history pe hodlans of the Western Conset mat

Padifleted from the other side of the
In this connection the following instance occurred. I arrived one morning at Sydaey, B.C., having come from a boat to talre in wished to secure Island. I was me-across to Moresby Island. I was told that Capt. P.eustomed to take pasanger was accustomed to take passengers. I was was irect to his house aud on inguiry was met by a dark featured lady who thever was the Captain's wife. Had Indian before seen a Pacillc Coas Indian I would at once have said she was Japanese, but neither her ac. cent, her color, nor her featurgs gave me sufficient clue to base any oplnlon on the matter. Not wishing to be so personal as to inquire I am yet in the dark as to whecher she belongs to the Enst or to the West.

THe other Eastern race, the Hindu, has found an occupation differ15 the lambermain of British Colsmbe Wherever yos go alone the Columbia Ghon that there so along the coastal re gion that there are abw mills, and that straight, dard bearded men with the
cumbersome turban on their beads, morting in the lumber mills: piling lumber, roling logs and driving horses. The Hindu has a reputation for belig 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 ai anybody, has employed all elames of Eastern labor and has found the best eatis. faction in the Chinamen. OccasionalIf you get a Hindu who is satisfactory. If you get one that will work wiling. ly they are the best of all three races, as they have the strength of body to do the heaviest sort of farm work. The Hindu, like the Jap and the Chinamen, is gradually working eastward. The Chinaman has worked himself clean across the continent although not nearly no numerous in the East as in the West. The Jap also has worked hle way ft small numbers is. to Ontario, still smaller numbers on the Eastern prairies and in conslider. able numbers in Alberta, where thes are med extensfively in rallroad re. patr work, aection gangs, etc., but on the return trip the farthest east I noticed a Findu was on the streets uf Catgary.

ON the, return trip, via New on tario, I encountered anothar racia. tongue, and whille I am not olassing the users among the three aforementioned races, I merely mention them in passing. To a person who has been born and brought up in the extreme engtern Duc tion of Ontario, one of the langunges which he mivers in golnt ahout the other parts of Canads is the langege ot the Fronch Ganallunt language coming home throngh the so whille New Ontarie and geting off at of of the small stations, my at one oulck to catch the firat sound of the old famillar accent. The Fronel Can adian apparently is ane fins lis Cantowarts new Onterlo. He ls a eyes ally born woolman. The are ary the buw are the for of tis ilte ane and opportuntty to clean ip the Jand Is the temptation which draws land is the temptation which draws bim into tarlo as Ary. He takes to New Oatne dom the The from the wher limit of the ale bolt as thr wa North limit of the clay belt as har as North Bay, there were slways enongh of these people on the train to keep up occanional convernation among th selves.



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## Cenadian Herds Do Well at the National

was represented by Beauty Mald champlon butter producer over all breods in the tour-year-old class, $B$, Prot Van Pelt's cholce for first place Proi. os yelts cholce for first place L. V. Walkley. She has great capaWhine Jersey head, grood lines and a shapely udder. To many she and a shapeiy udder. To many she smooth and "nice," and it was noticeable that when she was milked out her udder seemed as large and har: as before. Competition for second place was between Bull's B. Serena and Lasater's Willow's Brightness, the latter by Bright Prince. These two cows were much of a type, carry. ing large shapely udders that mill out "like a glove." The Canadian cow finally got second place and many would have liked to see her at the top. Buauty Maid, in this-class, presented a problem. Her production was the greatest of anything in the ring by a great margin and she looked good for It. But she was a different type from every cow in the ringlarger and perhaps coarser. Ste had to go efther flrst or last. To have wedged her in anywhere would have meant a very evident breaking of type. The fudge finally compronisised and placed her serenth--fust out and placed her seventh,- Just out of itself to all: Bearity Mald is a wonitself to all; Beauty Mada is a wontype of the breed.
type of the breed.
To win second

- mean second in such a class was no mean honor for class, four-year herd. hell alds, Buira caup P a diughter of Pern' Brampton Dot Pres She carried a magnl Oxford Noble. She carried a magnlficent udder with a good frame support it. Longview was second and
fourth and Lasater third. Seven enfourth and Lasater third. Seven en-
tries. Hugh W. Bonnell, Youngatries. Hugh W. Bonnell, Youngas
town, Ohlo, was first in three-year-olds with Selina of Minerva, with a two year-old record of $9,378.8$ lbs. milk and 599.7 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 Canadtan Ay 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. Longriew's Fontalne's Nema, plcked for first, was a large cow with a shapefor first, was a large coweldedly short in the rib. She was as straight underin the rib. neath as on top. shown by Mrs. C. C. in second place, shlow was a beautiful Folch \& Sons, Onio, was looked well on animal and would have the Canadian top, Between her and the Canadian entry was a heifer wimost deficient in conformation as compared with Brampton Sonata.
Senior yearling heifers as usual were a mixed bunch;-some fresh; some just about due and others evt dently only a short time bred. Bull's
Bright Rosebud, another daughter of Bright Rosebud, another daughter of
Viga's Bri ht Prince, was showing a Viola's Bright Prince, was showing a nice udder but not the capacity of
few of the others. She was a strong competitor, however, and Prof. Van competitor, however, Pelt moved her up a place at a time from sixth to second. In first place was My Rosary, first at the Nebraska and Krusas State Fairs, exhibited by Longvie
entries.


## entries.

In Junior yearling heifers it was noticeable that the American entras carried arem soung stull. In thet the Bramptoa yoritic of the younger this was characterinio of the younger classes throughou, entry, B. Princess the best Bull entry, Blacing in Agatha, got only a third placias she the class of 12. With more fit she
would have gone one place higher at
least. Senior helfer calves brought out a magniffeent class of 18 youngsters. First place went to Longview and sacond to Bull with Brampton Princes as compared with any of tha others in the mosey. In the funlor calt class Prof. Van Pelt announced that the first three calves, expabited hy Longview, Lasater and Walkley, were the best trio 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 sixth,
Price cale
Price cals.
The serio
The seeior and grand champlonship went to the old cow, Oxford Majesty's Gipsy. The fualor champlon junior yeariling helfer, You'll Do's Pat 2nd In the special classes for cows with official records, the score beligg based on both production and conformation. Bull's acored a notable triumph with Beanty Mald, who scored just one polat less on conformation than her nearest competitor and had 300 lbs . more of butter fat.
Brampton Jerseys Win Graded Herd.
Probably the most notable achieve rient of the Brampton herd was the capture of the graded herd arst a ward over elght competitors. In the win plig herd was the firat prize three yoarold bull, accond aged cow, fourth two-year-old, second yeariling and sec ond cail. They won on undormity Longriew Farm second and third. As other win which reffects eredit on Canadian Jerseys was first in class of five cows in milk. Headed by Beauty Maid. Bull's had a wonderful string of milkers and in this class won with comparative ease. In young herds Bull's secured fourth, in get of sire Bixth (Viola's Bright Prince), and in produce of cow third. The display of 15 animals went to Longview.
It is worth recording that the Canadian herd got foto the money in dian herd class in which they contended and stoof second only to Longview Farm in the number of high awarde Farm in the number of high awarda which fell to
able showing.
QUEBEC AYRSHIRES
PROMINENT

$\int_{R}^{U}$ST one-third of the Ayrahirea shown at Columbus were of Cana dian origin. of the 89 heed out McMillan had 20 head and Giteer were Adam Selts, Waukesha, Wis., whose herd has probably been more uniformly successfal in the show ring than any other in the United States, Wendover Farm, Bernardaville, N.J., and The Newton Farms, Ashburnham, Mass. The classes were not large but the competition, so far as it went, the competition, so nar as itrone, On the whole the United States herds On the whole the United States herds
were more highly fitted than the Canwere more highy fitted than tas Cases adian entries and won several ciasses
on fit. This was particularly true in on fit. This was particularly true in the younger classes. With the two herds comblaed, Quebee won the spe-
cial prize for best display of 15 ant cial prize for best display of 15 animals from any state or province. Other notable wins were the femaie sentor and grand champlonship, frst on aged bulls, first and second in the aged cow class, first three-year-old cow, first twoyear-old heifer, produce of cow and dairy herd of five cows. Prof. Kildee of Ames, lowa, and $W \mathrm{~m}$. Hunter, Freeman, Ont., jointly placed the awards.
There were but two entries in the aged bull class. McMrman's Lessmes Ottawa, was an easy winner over New. ton Farms' Cavaller's Kilnford Ring master. Seltz had the only threegear old and when the two ased classes competed for a specinl prize, the Me competed for a specinl prize, the Mc Millan entry was agqin an easy winner.

Two-year-old bulls brought out two excellent individuals. Seits had hin
last vear's grand champlon, Caralier's

Lord Stuart. This animal was ntted side, but from behind wase peaked the tall head. He was bred by exhibitor from imported stock, bo his dam and grand dam belng winn In Scotland. The Ness entry, Hole house Hopeful, was not carrying much flesh but looked a dairy bull through with more scale than competitor and stronger in dairy ity. He is a coming bull, but on count of It went to second place. the tussle that then followed for sen lor champlonship, the Wisconsia bull. won over Lessnessock Golden Love by a small margin which misht be socounted for on the ground Mr accounted for on the ground Mr. Mcmila and feeling too misern severe cold and feeling coo miserabie
to show his bull to the best advant age. The The yearlint class produced the grand champlon in Nancy's Mint Mas.
ter, from Wendover Farm. He descry. ter, from Wendover Farm. He des ed the honor-straight and true to type and as stylish as he could be, The one compet Prece, a good son of Burnside Danty Piece, a good
old Mnsterplece. The senlor old Masterplece.
class brought out an entry proved that color doesn't count on 4 good bull. Admiral Beatty dover was almost solld brown, almost perfect conformation very stylish. In second place Setty had a typy fellow, but not so good in the back and a blt throaty antmal was a big bellied. shapely fellow, not as good a calt at MeMiliar has next to him,-but th Canadian coif seemed to have no it whatever. The funtor calf class wa won by the Newton Farms with Ness third and fourth; lack of fit again And here the question comes up, is it wise to put too much flesh on young animals t Is there a danger of such fitting interfering with future usetul ness?

## The Female Classes.

In the class for cows five years olf and over, Ness scored a great triumph securing first, second and sixth. His cupled the same places at Toronto and cupled the same places at Toronto and
Ottawa. Harleyholm White Rosle Ottawa. Harleyholm White wosle
3 rd her great capaclty and splen 3rd, with her great capactty and sphes
did udder and velning was not a great did udder and velning was not a graat
deal ahead of Chapmanton Henry, deal ahead of Chapmanton Henry,
cow with perhaps a little more reline ment and quality. McMillan third on Maple Leaf Jean, grash champlon at Ormstown last sprise but not showing to best advantage at Columbus as she was dry; and then are no dry cow classes at Columbus. The placing of the four-yearoli cows looked like a mistake. The Wer dover Farm entry was carrying a lot of flesh and, having just freshend, she was in the finest of bloom. A the ringside, however, patchy and her udder and teats woolif not have been commended on a cor of any breed, much less the Ayribin MeMillas was second with a Car dlan bred cow, Maple Leat Lally, Solts bad a cow in third place that carriof all kinds of quality. It anything sim was almost too fine and lacked in cos atitution. McMIIan Millarton. Cherry and Ness fifh an Burnalde Maggle Flnlayston 5th. The latter cow was dry. In her fan form she would have been an ear winner in this class.
There was close competition for first place in three-year-old cows. Nen had a lovely quality animal with an almost perfect udder in Burnside Bar bara, while the Wendover entry wis a good Individual, exceptionally well fitted but not equal to the former is any of the real essentials. Mr. New won. Selts was third with the development. McMillan won the try year-old class with Queen Bess, a Mit bodiec helfer mil!king 40 lbs a dof, but plisin all over. Selis had a mia heifer in second place hat may (Continued on page 11.)

## Tractor Questions

As amked by the Department of Agriculture of the Uatteu Btates
And angwered by Manufacturers of
Farm Tractors.

## Tractor Speed

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

TRACTOR should travel at the speed of which the work it it doing has usually been done belore. It is folly to attempt to pull a plow at twice the speed it was made to thork at. Plows and all kinds of mpiements will soon go to fhecesendless breakages and many troubies will follow auch practice. Such a new system of farming must be preceded by an educational campaign and sotrce of mupply must be established where the implements can be secured o back it up. Even with this it is Ikely to fafl because the farmer is oot looking for some manufacturer to tell him how to farm and will Inalat upon being shown every inch of the road. The component parts of a trac tor motor that is to endure mast be ample in size and its bearings must be ampie in size and its bearings must be iberal in proportion. This does not ceem to spey ight weight hor vory the shove unquestioned requirements the above unquestioned requirements, let us state that abou. 600 revolution per minate of the crank shafl in our Will sate further that since leronen wo the logloal fuel and it foce well losen Is the logical fuel and it is well know that the explosive action is somewha slower than it is with gasoline to ge the best results with kerosene higi velocity of the piston, would not seen to meet the conditions the bset.Avery Company.

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

Fleld 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 great-
er tendency to breakage,-B, F, Avery er tende
\& Sons.

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

AS tractors are mainly purchased with a view to their use in con rection 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 materially slower apeed will reealt in the Improper and inadequate turning of the soil and a materially faster speed than the average horse travely will result in throwing the soll too far and In ragged, uneven and unsatisfactory plowing. Plows might be Aesigned to suit almost any speed of travel, but an a result of many years' manufacture they have been standardized as to shape and as to the speed producing most efficient results. Therafore it would hardly be feasible to entirely revolutionize the plow manufacturing tndustry to meet the presumed desire of some person for a plow that centid
result that it would multiply, with the ause the manufacturer stil types, be compelled to furnish that type adept ed to animal power-Emerion-Brant ingham Co.

For plowing, the proper tractor speed is two and one-third miles per hour. The present American design. work at that speed. At do thelr best they do not cover well lower speeds speeds the same defect shows higher the work is irregular. For sho up and speed of from three and hauing, a four miles per hour will one-half to tractor to handle large heavy the without to handle large heavy loads abont one mile per hour A speed of for getting out of hat is very liandy hacking into belt, manoeuvring with, chinery into confined places and similar work.-The Four Drive.Tractor Co.

Tfly speed of tractors is necessarfly ifmited by the ability of the suitable furrows. Machines designed to operate with horses, such as mowers, 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 trectors only. There are a number of objections to this from a manufacturing standpoint, a few of which are-a division of production between horse operated and ractor operated machinery; Inereased cost of production because of reduced volume of any one type of machine; radical changes in construc fion to compensate for greater straina from operating at higher speeds: in. creased stock necessarily carried by ealers because of divided demand be-
ween horse operated and tractor perated machines.
Although the tendency seem to be loward higher speeds int farm work, it is due, no doubt, to the change from horse power to mechanical power without realizing it s limitations of mechanical Nower. bome seem to have the Idea that as long as it it a ractor 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 that travels two and one-half miles per hour will deliver $10 \mathrm{~h} . \mathrm{p}$, at the drawbar, having a drawbar pull of $1,500 \mathrm{lbs}$. 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, its 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


## QUICK AND EASY STABLE CLEANING ${ }^{\circ}$

tit your chores done, I see, John."
Yes, chores are a simple matter now, with the BT Mianure Carrier to help me. Have you finished yours, neighbor?" "No, And somehow I hate them. Toling 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,"

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and dump the load, no maiter what trate the yard is in. It runs righe over the mow and mud. No paths to digg in winter tine. No slippery planko to lay in spring.
Clean handwheel to puhh with, $Y_{\text {ou }}$ hands sever touch the manure.
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## Beatty Bros. Limited

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fabost the B T Mhaspe Comper How many cows have you?
When are sou thinting of proting in your, BT Mansue Carniec?
Youn Nime
PO


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latance may be possible.
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Peterboro, Ont.
over two plows. This same tractor pulling two-plows at three milles 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 therc are two main things to take into consideration in determining the speed of a tractor; flrst, that the greater the speed for a given size the smaller the drawbar pull. Now in order to putl the sime number of plows at an increased speed it would be necessary to fncrease the horse power of the engine. There are limits to the speed from a standpopint of durability. Considering the waight and sizo of the tractor, to increase the welght and size means an fncrease in the orlginal cost and in reallcy resulta in turning it to a large tractor and getting away from the economical smail size tractor.-International Harvester Co.

O
UR experience has also justifled us in the belief that a tractor whieh will malntain an average plowing speed of two and one-haif miles per hour under practically all conditions, will give the maximum of satisfaction. This speed is as high as eny plews at present are adapted to use with satisfaction, and anything less than thin means less work accomplished 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 high er speed might be desirable, althougt additional speed means the incruase of transmission gears, a comparative loss of power, and increased wear and tear with a possible source of damage to the tractor Itself by being wrecked by the higher speed.-La Crosse Tractor Co.

A
TRAOTOR, to be absolutely satisfactory, must be so governed that it can be run at practically any speed at which the implement any speed at, it is not practical or operates best, hesible to get besults with a harpossible to get a dise harrow, a cultl-
vester, a plow, as vester, a plow, a dise harrow, a call
vator or a mower, operating them all vator or a mowar, operating necessary at fixed speed. It is very necessary to have a controllable governor that will permit the machins to pull its maximum load at any speed, from one to three and one-half miles por mowlug, There is much work ench as mowiag,
binding. lay-by cultivating, certain binding, lay-by cultivating, certain
types of plowing, discing, etc., that types of plowing, discing, etc, that
can be done better at a speed of three or thres 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 plowfirs a speed of from two and onequarter to two and one-half milles per hour will ordinarily best turn the furrow sllee. In IIght stubble plowing a row silce. In light stubie piowing to speed of from two and ene-hal
three milles per hour will be found to three miles per hour wil as it will not turn the furrow sifce, as it wit in doonly overturn it thoroughiy but In do ing so will nuiverize it, provided of course
used.

The hushand of one of the loced churchgoers had set ont on a sea voyage, and the wife wrote and regueated the parson to conduct a prayer for his safety.

Imagte her eonfualon, however, when on Sunday the parnon resd serenely:
"Mr. Bperkes, having gone to see his wrife, destres the prayers of the congregation on his behsif."
congregation on his semsil
What she infended to be read out
What sho
was thls:
"Mip. Bparkes, having gone to sea, Mis with deatres the prayers of the his wife doaires the prayers
congregation on his behalf."

## Orchard and Garden

Orchard and Garden Notes

T$\checkmark$ RIM and lay down the grape vines ready for covering as soo: as the ground begins to treeze. Good celery can only be obtained by a liberal supply of moisture, food and careful blanching.
Cover roses with etther sotl or straw, taking particular pains to keep them dry during the winter,
This is a good time to rid the gar den of weeds. Collect all green ma tertals in the ganden and elther bur terials in the garien and eitery tha them or pile then
they will decay.
Tulips, hyacinths, daffodils and cases planted at this time of the year cases plaze sterlety of flowers in this window give a varden next spring.
window garden next spring, walnuts and other home-grown nut whinuts and other home-grow, should be made at thls time. properly dried and stored, will bi mach appreciated during the winten Plant outdoor tulips about th inches deep fu well drained land. the bulbs cannot be oblained betor
the ground freazes, it is well to cory the ground freazes, it is well to cive

WHY A SECOND VICTORY
LOAN?

WHEN Sir Thomas White Issued his first Victory
Loan last autumn the Loan last autumn the Dominion Governmeus further participation in the war depend ed absolutely upon the securing of absoluteiy upon ane advanee of money of a large advance of money
from the private funds of the people of Canada. poople of Canada. The res was magnifficent. Over $\$ 420$ was magnificent. Over 000,000 in Victory Bonds wa subscribed. With the everit creasing cost of the war al that sum has been expended and the Government is now finan Ing the war on advances the chartered banks. As great, If not a greater sum than was if not a greater sum than was raised last time are to maintain our share if we are to maintain our
of the burden of the war of the burden of the war.
was vitally essential that was vitally essential that floated this fall-and that shall not fall. the bed with straw to prevent
Ing untll the bulbs are planted Ing untll the bulbs are planted
In order to get good seed of In order to get good seed corn or popcorn it must be dried before it is subject Hanging in an open, warm, rentiat room or shed, or even outlontated bright days, is a good way to accoll bright days, is a good way plish this.

Put a good supply of rich gardes noll in the basement or cellar where It will not freeze and where it will be avallable for use in sowing seed and making the hotbed next sprin

It is aald that oak leaves are splen atd materfat for storing vegetahies in over winter. The leaves from the sofl maple and banswood are too light and collect molsture too easily. Only dry conrse leaves are desirable for this purpose.

Many of the garden flowers, such a soranfums, nicotians, petunias and others, may be lifted and grown until asily winter in the house. Thelr slaces may be taken in late winter and early spring by a fudicious selec thon of flowertrg bulbs. These all prove espectally valuable for use it prove rooms.
"Going to Prance ${ }^{P "}$ asked is trarelTing ma
soldter,

## soldter.

"No, mah! Tre not going to France", replled the dunky soldiep to Berfin, but 1 may atop in Franos fir s ahawt time on de way:
lacked size
and was de
No one wo the judges, the judges, cone down. cone down,
on Drumsin Barbari 2nd
a Ryanogue Senior y problem. animal of th Ind, first at overy point the auperior two points interfered
down to fifu was first on While Seltz same herd $w$ The junior $y$ over first, se
Ness fourth. the sentor c class, the $W$ 1st, 2nd and well fitted. lan 5th. The junior champ
aller's Silver alierg Silver
if. Ness wa fit Ness wa
ith and 5 th. Maple Lea amph for $\mathbf{M}$ yeariy recon
score for bot mation. She the year. Y and, Seitz
1,256 Ibs. mil grand champ but ler Scot ceptable. He
ide Maggie For the fit fused to agre ing the aged vere very eve
vas called in lay Farms, P secured 1st. ist calf herd. tnd. In get Kastarplece. cillan was fin Ness 3 rd . ntmals in $m$ he front and pecial prise mals from an omblned herd Mried the ho Wisconsin an the day. Mor Canadie er, Farm ant jers with corn National Dairy In most classe ops at the Na

igh guality th | ugh quality th |
| :--- |
| how was full | jowal. As th stains at Colum be hard to co roronto bad hisek and whit thly, however, fa a goodly nu roota. There vould not hay ronto, and greater compe most faterestin ver, antries least twice as upondingly gre sanee of Mr. tet. The orhl

Canadian Dairy Herds Do Well at the National
Cow, 4 yrs:: Aconeth Lady Henger:

## (Continued from page 8.

lacked size as compared with the first and whas deficient in the rear udder. No one would have quarrelled with But the best dairy animal would have. cone down. Ness was third and fith on Drumsine Primrose third and fifth Barbara 2nd, and Wendover fourth on a Ryanogue helfer.
Senior yearling helfers were a problem. Undoubtedly the quality animal of the lot was Burnside Randy ind, first at Toronto and Ottawa. In overy point except size and fit she was the superior heifer. Because of thcse two points and a bruised hock which interfered with her walk, she went down to ffth place. Wendover Farm was first on a very mature, blg heifer while Seltz was a close second. The same herd was fourth and Ness sixth The junior yearling class gave Wendever first, Seltz second and third, and Ness fourth. There were 13 entries in the sentor calf class. It Was a Selt class, the Wisconsin herd securing 1st, 2nd and, ith on nice uniform stuff well fitted. Ness was 4 th and McMil-
lan 5 th. The junlor class produced the Lan 5th. The junlor class produced the
junior champlon in a Seits helfer, Cav Junior champlon in a Seitz heifer, Cav-
aller's Silver Actress. It was a win on aller Silver Actress. It was a win on
fit. Ness whas 2nd and 3 rd , and Seitz th and 5th.
Maple Leaf Jean scored a nifee triumph for McMillan in the official yearly record class, earning first in acore for both production and confor madon. She has $12,352 \mathrm{lbs}$. milk in ond, Selta was third on a cow wec,256 lbs. milk. Ness had entered his grind champion cow in this section, ceptable. He secured fourlh not ac stde Maggie Finlayston 5th on Burn

## Group Awards.

For the flrst time, the judges re fused to agree when it come to placting the aged herds. Seitz and Ness were very evenly balanced. A referee
was called in, Mr. Cockrane, of Bare. lay Farms, Pennsylvania, and Seltz secured 1st. McMillan was third and Selts fourth. In young herd and breeders calf herd, Seits was 1st and Ness Ind. In get of sire Seitz got 1st, 3nd and 4th, Ness Ind and 6th on Hobsland Masterplece. In produce of cow, Mc-
Millan was first, Seitz 2nd and 4th, and Millan wae
In the class for a dairy herd, five ontmals In milk, Ness again came to the tront and had a walk away. In a apecial prize for a display of 10 antmals from any State or Province the comblned herds of Ness and McMillan
carried the honors for Quebec against carried the honors for Quebec against
Wheonsin and New Jersey. It was Whaconsin and New Jersey. It was
one of the most spectacular wins of the day.
HOLSTEINS AT COLUMBUS

WHEN Mr. Moscript, of Minnecota, judged the Holstelns at the ber, Farm and Dairy abked him how the entries at Toronto wonld how pars with corresponding would comNational Darry Show. He replied the in most classes there would be better tops at the National, wot for be better high quality throughout, the Cansdian thow was fully the equsi of the Na thonal. As there were only 69 Hol italas at Columbus last week it would o hard to compare the two show Toronto had over 200 this year and seldom dropa below 150 entries tin the hlack and white classes, Unguestionably, however, the tops at Columbus a goodly number of classes, wonld are won a similar position at To ronta. There were also anlmals that ronto, and conaidering the mueb greater competition at Toronto, the anadtan show is by all means the nost interenting. In other years, how: aver, entrien at Columbus ' were at least twice as numerous with corre pondingly greater interest. The absance of Mr. Helet, also, robbed the it. The oxhibiters were ת. xis. Hie

Gar, Algonquin, Illinois; Mayawood Corms, Rochester, Minn.; Cass Farm Donntson, Kansas; M. R. Evans, Hick, ey, Ilinois; H. O. Larsen, Dike, Hows A. R \& Moon, Bowling Green, Ohlo; gan; Daisy Hill Farm, Lansing, Michi. gan; Daisy HIII Farm, Chagrin Falls, Indiana. Many M. Seberger, Shererville, Indiana. Many of these had out only one or two entries. Almost without exception the entries were exceptionMature bull.
Mature bulls brought out two senChamplon entries-Johanna's Bonheur Sons, and Paul Calamed by Chestnat \& hibited by Haegar. In Korndyke, exquality and slze both were mormation, their breed. The Kansas models for little advantage in ansas entry had a and got first, and the grand champion ahip. Mayswood Farm was championblg dairy looking bull, but not smooth enough. Three-year-olds brought out just three entries, Cass Farm Co, had the winner in King Aaggle Hengerveld, a stylish bull, but with hardly as much capacity as Johanna McKinley Segis 4th, shown by Haegar. Both were right and good bulls. The Evans entry in third place was one of the roughest bulla we ever saw in the shov ring. The junior champlonship Was won by Mayswood Farnis on Johanna Glenda Lad, a beautifully turned bull, straight in his lines and due to be a blg fellow. Other male wards follow
Bull, 2 yrs, old: 1, Fayne Bessie
Homestead, Cass Homestead, Cass Farm Co.;2, Pearl King Segis Pontiac, Haegar.
Lail, 1 yr. old: 1, Johanna Glenda King Segis Pood Farm; 2, Aconeth Bull, senior calf, Haegar.
Bull, senior calf: 1 and 4, Haegar: Mayswood Farms; 3, Lamb \& Moon
Bull, junior calf, 9 entrles: 1 Mays. Bull, Junior call, 9 entrles: 1, Mays. Haegar; 4, Daisy Hill Farm; 5, Evans: 6, Black.

## Holstein Female Classes.

Minerva Beets, Haegar's 13-year-old the National year grand champion of 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 the tall head, great capacity, and to hapely capacious udder that handled ilke a glove. Where to improve her so good that a question. She was good cows she made a lot of other mediocre in her class look almost eight entries. The second place were seemed to lack capacity for her cow placing, and outside of the first cow we have seen stronger classes. There we have seen stronger classes. There three-year-old classes, hree-year-old classes.
in the helfer classes Mr . Haggar yeamolds brought istent winner. Two-year-lids brought out seven entries; nice helfers at the top, but with four nice helfers at the top. Senior yearlings brought out five as nice belfers as we ever saw together. A class of Ayrshires could not have been more uniform. Junlor yearlings were four In number and very good. The sensation 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 helfer I have seen this fall," he announced. In the group classes, as In the females, Mr. Haegar was pre-

Hostein Awards: Female.
Cow, 5 yrs. and over: 1, Minerva Beets, Haegar; 2, Almedia Luecke Hengerveld, Cass Farms; 3, FernSegis Walker Gelsche, Hasesp; Netherland Clothilde Haegar; b, Hecteriand Clothilde Idyl Burke,
Hegar is, Prilly Clothilde DeKol, Hasgar:

Cow, 3 yrs:: Nancy Calamo Korn
Heifer, 2 yrs.: 1 and 5. Lady Calamo
Hengerveld Hengerveld and Tantalus Calamo Korndyke, Haegar; 2 and 3, Almeda Luecke Hengerveld 5 th and Mercedes Aaltje Johanna, Caps Farms; 4, Johanna Ondine Soo, Mayswood Farm. Heifer, senior yearling: 1, Evans; 2 and 5, Mayswood Farm: 3, Cass Farms; 4, Haegar
Heiter, Juntor yearling: 1 and Helfer, senlor Farms; 4, Evans, Farms; 2, Mayswood Farm; 5, Cass gar: 6, Evans.
Helfer, funtor calf: 1 and 5, Haegar; 2 and 4, Cass Farms; 3 and 6, Mays-
wood Farm.

## THE BROWN SWISS

1They Brown swiss a dairy breed? same day as the Ayrshires, and be, ween classes the Ayrshire fanciers, sure of the status of thelr own breed, discussed the proper classification of tional. 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 uddera were extremely pendulous and the were extremely pendulous and the
teats awkwardly large. Nelther did the large, coarse frame suggest great powers of production. One of the Hall brothers showed the editor of Farm and Dalry some figures in proFurm and Dairy some figures in pro-
duction, however, which were as. tounding. In the Hall herd are 30 cows in. in the hall herd are them has a yearly record of $17,559 \mathrm{lbs}$. of milk and 664 of fat. A two-year-old of mer has $13,173 \mathrm{lbs}$. of mill and 488 lbs, of fat; a three-year-old, 14,500 of milk and 549 of tat L. S. Marshall e milk and 549 of fat. L. S, Marshall \&
Sons, Leslie, Mich., had a cow at the Sons, Lesile, Mich, had a cow at the
fair with an officlal record of 17,420 fair with an offcial 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 breed.
Hall Bros, had the sentor and grand champlon bull, the funior champlon bull, and the senior and grand champlon cow. Marshall had the funfor champion female, A third exhibitor
was W. O. Bohart, Bozernan, Mon. was
tana.
GUERNSEYS AT COLUMBUS

GUERNSEYS are a numerous and a popular breed in the United
States, occupying and third importance among the dairy breeds, belng much more numerous than the Ayrshires. There have been years when they were more numerous. Iy represented at the National than any other breed. This year there were Juat 67 Guernseys on the grounds, but they represented the pick of seven herds. Among the exhibitors, were Island Farm and D. D. Tonney, of Minnesota; O.W. Lehenam, Ilinols; Raemetton Farm, and Davis Farm, Ohio, and Mountaln Bros, and W. W. Marsh, of lowa, and they were good cattle. It ts safe to say that such an oxhbibition of Guernseys at the Canabus last week would stir up an interest in the neglected breed in the central provinces of canads. They are al ready fairly well known fo the Marltime provinces and in British Colum. bla.
The bulls were big, straight fellows With considerable more size than the much of a size with the Ayrahire breed. The cows exhibited were of good size, but none of them carried the large, capacious udders that were characteristic of the milk elasscs in the other three broeds, Some, too, ahowed a tendency to sag in the back. They must hire a capaelty for millt
production, howerw, sa alr cown of
the breed have produced over $\mathbf{1 , 0 0 0}$ lbs, of fat in the year. Cherub, the matu elasses, Ladysmith champion last year won again grand year for D. D. Jenney. Mountain Bros. had the best two-year-old in Kiteluen er's Express. The funior alampion was Cherub's Prince, a yearling from the Marsh herd. Competition in the milch cow class was limited to tiree entries. The flrst prize and seni)r and grand champlonship was awarded o. Bella 2nd on Grand Fort, exhibited by Island Farm. Jenney's Pearl's Dot in the four-year-old class, was a nice dairy animal. Jenney won in two lings. The junior female champion was found in the funior champion My Figtree of the Prairie, exhiblted My FMgtree of the Prairie, exhibited
by Marsh. In the group awards W. W Marsh was almost uniformly success ful.

## The Machinery Age

ONE of Our Folks, living at Manotick, Ont., has been sending ber
copies of Farm and Dairy across he ocean to her brother in England A short article concerning the coming machinery age attracted the attention of this brother, across the s^a, Mr. follows:
"The three coples last received by mee are May $9 \mathrm{th}, 16 \mathrm{th}$, and 23 rd , and in filustration of ange give an large Cutaway disk tractor, drawing ask the Cutaway disk harrow, and you ask the question, 'Is this prophetic of a coming machinery age?" My answer
to this is that, to my mind in this is that, to my mind, extremes of the best results, I would productive think that we ought would not like to to mat we ought to go back to the socalled 'rood old days,' when the scythe, the sickle and other crude tools, such as the flall, the old wood used to break up the fallow ground Then It was when the fallow ground. back and arms and clear of rheumatics, had to find the latitude and longi tude of broad acres, with a and long per, filled with seed grain, in trent hlm, and had to egrain, in front of good seed. That was one scatter the somehow I seem to-textreme. And extreme would be shink the other 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 best.
I would not like to relegate the useful animal, the horse, to the equine scrap heap. He has not had his day yet. There is a lot of good work that else, and I would tike than anything revived of would like to see the plan geldings, of your pretably mares, and in ing you, you would be driving the work; and as the season came round 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 bankruptey court. I have known sev. cral farmers who, instead of fust keeping four horses to work 100 acres kept six, and out of the six always had two mares in foal. To my mind that is the most commonsense way of farming. Breed and feed your own horses catle, sheep and hogs. Buy everything at the cheapest market, and sell at the dearest. Keep your weather eye opieni Be a lover of home and fresh alr. Go straight, and success will crown your efforts. Trusting you will accept my humble opinion for what it is worth."
hearmer: "Just hold that horse's missle?"
New Land-worker: "Whlch one?"
Farmer: "Why, the off 'un, to be
Land-worker: "T'm awfully horry, horses, io I can't tell. Whileh one of them to an orphan!

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The Therm paper tor the former who milks cown"
The Rural Publlahtng Company, zinitted
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The Rural Publishing Company, Ltd. PETERBORO AND TORONTO

## "Read not to contraciet and to oonfate nor to helleve and takn for granted, but to Wafth and conslder."and tal

## If Peace Came Tomorrow

TWo weeks ago last Sunday rumors were eurrent, particularly in rural districts, that peace had been declared; that the war was over. How overy motherls 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 opfnion seemed to be that all our really great problems were solved. Ot course, it was only a rumor that was guickly dispelled when the newspapers arrived on Monday morning. Peace may be yet in the distant future. But
There would be no new munitions contracts. Recent contracts would be cancelled wherevor poasibla. There would be no feverish haste in fuilaling contracts which still hold. Some 300,000 munition workers, now working full time or over time and drawing the highest wages known in hlatory, would be unemployed, or working only for a few hours each day. With the conelusion of wartime haste in our factorles, wages would drop immediately and unrest and dissatiufaction would be prevalant.

On the top of unemployment at home the boys would be coming back by the thousands. Wiery seaworthy shlp 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 Fast would on their return voyage carry the stored-up grain of Australis and Indis with a consequent depression of European grain markets. Oh, we will give the boys a royal weleome. We will be glad to see them. We will rejofce with their rejoicing mothers, fathers, brothers, sisters and aweethearts. Onr 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 heim, the people of thits conttonent may be thankfal if Bolshevilisian does not soon reign in Amertea.

Be far, Cayade has done practically mothing in pre paration for the reconstruetion period; that is, noth-

FARM AND DAIRY
ligg as bis as the eceasion will demand. The only reconstruction organination in the land, we have every reason to believe, was organized for purely selfish motives. Suroly if is time that our legislators were awakening to the tremendous responsibility that faces them. Farm and Dairy does not pretend to have a complete pror amme of reconstruction to offer. We belleve, however, that this should be the main subject of all pubtic diacussion nowadays. It should receive more consideration at the hands of our legtatators and our leaders in every walk of life than any other single subject. The millitary sltus Hon is now well in hand. We would that we eould say the same for the reconstruction problem.

## A Sure Thing

THE well equipped farm of moderate size has ap proximately $\$ 2,000$ invested in machloery and equipment. The interest' on that investment at atx per cent amounts to an annual charge against the buiness of $\$ 120$. This is an expense we must all meet, the most caretul along with the most careless. When we come to figure depreciation, however, we find the widest variation. On some farms the average depreclation onaall the implements owned is not lesa than fitteen per cent, an annual charge againat the business of $\$ 300$. On other farms the depreciation is as low as six per cent, and the annual cost of repairing and ronewing 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 heary straln 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; thls also is adied to the cost of the goode. Raw materials, such as pig iron, have advanced several hundred per cent in price since the war began and this, too, wili be added to our implement investment. To reduce our depreciation, therefore, is just elinching a sure thing.
It is buman nature to prefer the sure thing. Fow tavestors will risk their money on an equal chance of great profit or totat loms. The man whe neglects his machinery is now sure of considerable loss with no chance of proft. A reduction in the annual charge for depreclation is fust that many more dollars in our pocket, inatead of the pocket of the fimplement dealor. Reduced depreciation is poasibin by caretul driving or handling, the free use of lubrication ofl and proper mhelter. The latter polat is eapecially seasonable juat now as the fall work draws to a elose and field implements should be housed for the wister.

## Taxation Folly

TEm national debt of Canads has passed the bllHion mark. it bids fair to reach anether halt bllifon at least. The requirements of the gorormment for interest, siaking funds, pensions and other annual obarges will be tremendous for generations to come. Commenting on the present Federal poltey for the ralsing of revenue, "The Square Deal" Bays:

We have taxes on cheques and notes, taxse on letsers, patent medictines matches and hoats of ochers which saterfers with trade out of all proporion la the revinue produced and some of thesse take by the the poople many thines the amoume recevbers of the Goveromenk. so thnorant are the values taxation Coverrumant on and ans actually adviae the purchane of rioneme innd, stathgs as an inducement thet it Is of vioank land, statasution. Here le a value that is exempt from war taxation. created by the presence of che people anet a nature to by Government sorvice, and it the land valuee of that given a Corvi n n viotory, iune shandakinge and it
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A tax en the prodecte of industry is an obetruction
proAtable business. A tax on the unimproved value of hand fo an encouragement to all legitimate industry. As "The Square Deal" Intimates, our govarnments so far have proterred to follow the arat course. But there is a bettor day dawning in taxa Jon matters. The organized farmers of Canads are becoming a mighty force, and thielr fnfluence ifs betng used in the interest of direet taxation, the idnd of tuxation that gives the government one humdred per cent of the money collected, and does not require the publle to pay out from three to five dollars in order hat the goverament may have one, as is often the ease at present. The western farmers' representa tives at Ottawa, including Mr. Crerar in the Cablnet. are advocates of such direct taxation. We believ that atern necenstly will aleo ald in tax retorme. Bui the people themselves must flist understand the prob lems of taration and demand the roforms that will soon be so vitally necessary. It in seldom that we and a government that will lead public opinion in vital reform measures. Thare is no question that local clubs can discuss with greater profit than tho prohlems of taxation.

## The Demand for Cheag Food (Journal of Agriculture.)

THe publie is clamoring for cheap food, but wiling to pay more for pig tron, for shoes, clothing, for furniture, for books, for traul portation and many other things. The guesti/ aaturally artses in our minds; why should the farrien e singled out for such treatment? If, on the one hand, the increase is justifed on the groun', that fair tandards of living may be maintained foc the whe worker, the increase should also hold good in the case of the' agricultural worker on the other hand.
Canadtan fa-mors are not goling to produce foct on the Chtnese scale of living. Prot. I. H. Balley in a recent address, said: "We cannot have a demoe 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 io produce the greatest quantity of food at the least cost. Our democracy is made out of men and wo. men, not out of corn and potatoes."
Chesp food has been obtained in the past by the exploitation of new lands, by mobblas the soll, and by paytng low wages. A continuanee of such meth ode would result eventually in the depopulation of the country districts and the abandonment of farm figy Our elty cousins do not seem to reallise with Plunkett that, "Modern civilization is one-aided to : dangorous degree; it has concentrated fiteolf in the towns and cities and left the country derelict, and it the fownward tandency cannot be ehecked it will ultimately bring about the decay of the towns them. selves and of our wholo clvilisation," or with Baleg, that "the eittes have grown at the expense of the country, and the cities' gatns have cost the country Aear tin abandonod farma, weakened schools and churches, and discouraged sommunities drained of their vitality."
Country life must be attistying financially, mes ally ant fintelleetually.

## Keep the Wheels Turning

$P$LACE rumors should not be allowed to tatas fere with the Vletory Loas campaign, for be case for the Loan under all eircumstances in irrestatible. It would be but playing Germany's gmis to listen to the peace offensive. For Canada, and the rest of the Alles, the war is at its haight. To-day the war is costing Canada over $\$ 1,000,000$ a day, and bo stend of becoming lens, the expenditure, if amything is rising. This year the country's war bill will bo $\$ 400,000,000$. Lavt year when $\$ 430,000,000 \mathrm{~ms}$ mb seribed to the Victory Loak, this was considerad by thtig, and so it was: bet it only equalled Cas ada's war bill for 1918.

Canada can get all the wer ordens she can hasala and Oreat Britain wili take mearly all her murple agricultaral products, but our people munt provide the money to finance the males. IE this is not dons Canadian industry mast ulow down, and all hoor what this meane to the workdagmen mow employed d Mgh wiges. The Fietory lasa minat be made a ©

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#### Abstract

Belgain Children are Destitutd Even of Articles of Apparel "L ATLE BUZANNE has a dreese made out of sacking," in this way dild made zo protect her ilttie territory to her soldier hustand, the provision she had the hat a warm dress, made but hundrede of thousands of Beligter, nritate the okini if ist not tocomtng tacking. Sacking may be rough, the oostileet silise ot china. Suzanne is atmost as well off as to be desired than Well to do tamily who wars oloak made from an old blanket daughter of a and cicaks of sacking piciure the omildren of Belgium present in destitution than the pleturo? Think of the morte poignant expression drease raving the bitzrards and pleretne wind of withe ones clad in thin, of their alglat Relief Fund is to eiothe those children, to ane of the missions fags. an wirainet the inclement weather. Without ard them some adequat an do it by Bou heip the Belaian Rellef Fund to save toch protection they will ocal committen prompt and penerous contribution, which should the lives? You St. Peter Streek, Montreal, Gue. Rellet Fund, or to the central committee to th


## Ontario Farmers Will Prepare Platform

Mecting Called for This Purpose. Will Prepare for Aft
important meetiag of the executives of the United Farm ers of Ontario, The United Farmers Cooperative Company, Ltd The Farmara Publishing Company Limited, and reproseatatives of the Untted Furm Womion of Oatario, will be held in the affices of these organi rationa in Toronto on Monday, October 28 and probably on the following day as well. The main purpose of the meating ts to dratt the outimes of a tarmers' plattorm for submission at the anaual convention of these organizations, which will be held in To ronto in December. In a circular let. ter calling this meeting Mr. J. J. Morrison, the seerstary of the United Farmers of Ontario, states the ob jectus of the meetiag as follows:
"For some time past it has been my mpression that the Organised Furmars' Movement fic Ontarlo ought to have a policy or, at least, a code of priaciplos to which it eould direct those holding the name vlewe an themselves, and also to ask those who are wandering in the wilderness of neertainaty to at least conaider car afms. The condition of public affair: In Canada makes it imperative that ve should take action toward this and at once. Many prominent men have spokea to me about it.
"Therefore, 1 am calitag a meeting of the executives of the U. F. O., the V. F. Co-operative Co. and the Farm$\mathrm{rs}^{\prime}$ Publishing Co., as a committee to formulate sueh a polloy as well as to sive direction to our miovement in the interests of the people at thin time of ational uncertatnty. Thetr recom mendations will, of course, be subject ot the annanl convention.
"Reconstruction after the war is under consilderatiou by buriness, profassional and financlal men, agrtcultree alone having nothing to say. Auch a condition is humiliating as well as unfortunate tor our induatry. "In the political field farmers are demanding recognition oven repre mentation ard ridings opened or as pected to be opened are belng contenta by farmers regardleas of old parity afriations. This sttuation it so ap parent that such prose comments as bo followiag appear:
la several Oatario ridings easdidates have been choson by local braaches of the U.F.O. to contes by-elections. The next step is to provide these men with a platform that will represent the ldean and liteals of the Uaited Farmers of Oa tario. Then will come the takk of convinelige the rural alectors that both the men and the plitform are worthy of support Until the things are done, the mandideter are littlo more than freeslanens ntag "on their own hoolk," an the tayling goes!
"Tarmer gaes
tr", A turmers' plestore "In the them somathtag to stand would give To simatiting to stand on.
log will be haid to the Bonct a meet
 to, on Monday, Oetober ment, Toronon Monday, Oetober 28ik, com-

Should Farmers Enter Politics the-War Conditions
menclug at 1 o'clock p.m., and contlauing untll 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 exemptlons of same.

The returned soldie: $3^{\prime}$ probiem. dent Parliamentary toward indepen and the advisability of representative forming an fidependent party in Par liament.
"Our attitude toward the Dominion ranchtes Act
"Our attitule
Wastern section of the Comell forming an culture. "Our
"Our attitude toward orders in cuncll and the Imperial War Cabinet. fare of our industry, our people wel country may be introdnced" people or our Trom the foreming it
from the foregoling it will be seen he cousidered. Thortant subjects are to the cousldered. Those interested in he movement in Ontario who have uggestions to offer might write direct United Farmers of Ontariotary of the United Farmers of Ontario, 2 Francia Street, Toronto, or to Farm and Dairy, fi reference to them and we will see hat they are submitted at the meeting for consideration.

The Quebec Farmers Aggressive THI opposition that is appearing In portions of the province of recently formed United Farmars ot Quebee, is stirring ap the supparters of the movement and leading to some livmiy meetings being held where tho tarmers and their opponents meet Mr. Bouchard, the Provincial Organil er, held a meeting recently at Marie ville, where s meating had been eall ed by Mr. Marcell, who is said to be none too frlendily to the farmers movement. Mr. Bouchard spoke effectively that on a motion of fidence in the farmers organization beling submitted to the orgawization Was carried with only three dissent ling votes.
At a meeting held recently The Thes, Quebec, where opposition to the United Farmers of Quebee was shown, the farmers were criticised becanse the speaker in their Interasts had favered the "Initiative," "referendum" and "recall" in his remarks The statement has been made also hat Mr. V. T. Doherty, of Bucking the Quite a wideawake supportar of the Uaited Farmers of Quebec, was an agent of the Minister of Agricul tare. This, Farm and Dairy knows is not the case, as do the farmers who know Mr. Doherty. By some it is beLleved that the opposition to the movement rises mainly among the middiemen. This may account for the effort to discredit Mr. Doherty, whe was ingtrumental last aprias when merchanats vere asling $\$ 4$ for aned whent in having the price redueat tor the farmara to 82.90 . Whare (Oontinued on page 9.)


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

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## OUR FARM HOMES <br> 

HIRTUE is like a rich stone best

## When Ambition Won

By John-R. Spears. (Farm and Flreside.)

ONE morning in April, whille Dr. James Kelly was raking the lawn in front of his house in High Falls,- a mill thewn Adirondack Mountains,-a boy about fifteen years old stopped at the frōnt gate and looked as if he would like to enter the yard but was afrald 0 do so.
Seeing thls, the doctor turned to a neighbor who wanding in a provoking way, said
NNow, Billy Hanlon, if you' don't let the kld alone F'll tell his father to efuse to go hunting rabbits with you
any more." "Huh," replled Hanlon, "much hurt that would do me! crawl all over the Pine Plains to get it.
The boy flushed, but made no comient. The doctor invited the boy in.
"Don't mind him, Jefferson. He's daffy anyway" he contlinued. "I see my your licine. Is any of the family my med
"No, sir," replled the boy; "I would like to buy that lime back there, sir." He pointed do the stable at the rear standing bed
of the yard.
"Well, what do you know about that?" asked Hanlon with a jeer. "Ive heard Pine Plains beggars asks slaked all sorts of things, Det What do you at that-is a new one. What it "'
think youre going to do with itemark Without noticing Hanion's
the doctor answered wrdially
the doctor answered wrandill
"All right, Jefferson. You see that "All right, Jefferson. You see that them hauled away. If you'll do that you shall have the lime for your
trouble. How's that?' "Thank you, sir. I'll come to-mor row," the boy agreed.
The full name of the boy was Jeffer son Briand, and he lived on the Ping 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 thls was harvested, most of the tand was left to grow up to brush, but here and irere ilttle patches of the land were occupled by people who raised seant crops of potatoes, beans, and buckwheat, and in season picked her ries which they brought to High Fall and sold at from three to five cent a quart. Low as the price was, the berries formed the chlef cash crop of these no'er-do-well people.
On the south of the river the soll was naturally rich and "strong." The was naturally in preat white houses farmers kept herds of cows in big red and kept Inevitably the unfortunates bho lived on the sand-the "Pine Who lived on "he Plains beggars, as those on the rich -were a oke to those on people of tand, and espectally to the peopue or High Falls. Dr. Kelly was about the only citisen of the town who always treated them respectfully, though why he should do so, when he rarely re-
celved pay for attending the slek
could understand
Having carried away the ashes and the 11 me , Jeff Briand was seen no more in High Falls until the first week in July, when he stopped hil father's old one-horse rig in front of Dr. Kelly's home. Kelly was at work on the lawn as before, and Billy Han on was also leaning on the tine fence. The boy picked a basket from the wagon and entered the yard without hesitating at the gate. weeks
ishing.
"Where did he learn how?" was the question asked by everybody, but to this Jefferson made no reply. That he usually fushed with embarrassment when he heard the question was noted by all, and this embarrassment became much worse after the local newspaper, the "Clarion," published an ftem about him wherefn the ragged harness on the "crow-batt" horse and the decrepit wagon were contrasted with the "superb vegetables offered for sale.
When winter came on, and the first fall of snow, the Briand family once more recelved attention from the local editor. A party of rabbit hunters who went to the Briand home two dogs the heip of the man and Jefferson in the old shack of a barn pounding a great heap of timestone 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 sried, "but now you sse. Ho now and then. Come on with us," he con tinued, addressing Brland, "and bring your dogs. We'll give you enough money to vary your grub with coffee and tea, eh? Sure thing!
"Jeff'll go, if you like," answered Brland, but he himself refused to go even when they offered to hire him


The Proprietor of Long Lake Farm and Two Promising Farmerettes, The illustration shows Mr. Resert Bmith on his farm near Edmonton, Alta, and

 nelstiborhood o

Photo
Hello, Jefferson, blueberries a eady?" inguired the doctor.
"No, sir; beets.
He held up a neatly tied bunch of five deep red beets that
make a man's mouth water
"Well, will you look at them!" ex claimed Hanlon.
dit you coon 'em
With an air not common among Pine Plains boys, Jeff answered by asking another question
"Did you miss any from your garden, 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 as bis as them for two weeks yet. What's the price per bunch?'
"Five cents, sir; but Father said he whed you'd take is couple of bunches without pay. We're a whole lot obllg: d to yoll for that lime you gave us." "All right, Jefferson. Ill take them and thank you kindly. I'll not forget it."

Jefferson had forty bunches yet in the wagon, and he sold them quickly, Hanlon being his first cash customer. The fact that a Pine Plains man had brought beets to town was alone nough to cause unusual comment, but that he should have been two
and the boy at good pay. Henlon's gibe about eating imestone baving 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 Plalas farmer made his appearance:
The Pine Plains 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 vegrtable-selling season came on, however, and Jeff appeared on the streets of High Falls day after day with enough truck of superlor quallty to supply all who would buy, and sometimes with a sur: plus, the gardeners of the town, and the farmers as woll, began to talk about the boy's work without joking. According to the accounts of Pine Plains folks who, in coming to town, passed the Briand place, the Briands pas hasled a dozen loafs of limestone from the banks of Black River, where it abounded, and, after pulverizing it as well as possible, had spread the dust on a "heap of ferns as big as a barn," gathered the prevtous summer from incnlttvated parts of the plains. The plle wan forked over tand mised
n: the spring, after which it was apread "almost thick enough to cove the ground out of sight" on a three are fleld, and plowed under on this fleld that the Briends grey heir truck.
When Roderick Simms, master the local grange, heard this he said "It's no wonder they raise goo ruck. Ferns, especially brakes, ted with limestone dust mixed in makes first-class fertilizer-nothin better for sandy solls. The wond me is, as I have sald all along. know him-had hlm often help know him-had him often help haying, and while he's a good he's as ignorant as the rest
Pine Plains tribe. He can't Pine Plains tribe. He can't r
write-can't even sign his nam write-can't even sign his nam
yet his boy comes to town with yet his boy comes to town with
two weeks ahead of that on thi two weeks ahead of that on the gool Hestone soil this side of the
$\mathrm{He}^{\prime} \mathrm{s}$ making money too, hand He's making money too, hand
fist. Where did he learn how? fist. Where did he lear
what I want to know."

These questions were aske creasing numbers of people season passed, and the quant quality of the Briand truck w cussed with increased wonder September issue of the village paper one Item read as follows:
"We have to thank young Briand for a basket hove seen this yeni red, smooth, and delicious. Jefferson! You've beat town with your truck.
Pine Plains farm at that. Pine Plains farm
you learn how?
The general Interest thus reached a climax the followin voloel which was simply astounding winter people of the whole valley in January the local paper notice saylng that the Farminter titute would be held, Farmers' is Grange Hall. At the end of the notio
Grate appeared thls sentence
"We are requested to state thit Jefferson Brland will tell the audlete how he transformed worthless plece of Pine Plalns tha into a most profitable market gardes The people of High Falls had alwin been interested in the siltute, but now more than evar cordingly the hall was both meetings, an meeting the workers little stage, and Jefferson was Het with them, there was a plause in which Dr. Kelly Then not a fow of the townspepi? remarked to one another that the k didn't seem to be scared much eilhe Nevertheless, when Jefferson ral ed that he was the centre of Inten a feeling of embarrassment alma overwhelmed him.
Just reaching a point ready to leave the stam where he xil when he happened ting in the front ro mocking grin on his boy remembered Hanlon's about the beets. bout the beets, Where dil 11 toon replaced his embarrasment Then the leader of the Institute, ath little introductory speech, sald: "The boy will now tell his tatn tive story," whereupon Jefferson stim up and in a clear.
"If I
If Iad known that book lean have told everybody ahout, our on the Plains an fast as we did it h I diAn't know it. We always he real farmers laughing about of farmers," and we had alway le feered at so much that we coith stand it to have anybody make fon is for what we were doing on us fo
farm.
"Father, you know, owns acres on the Plalns:
could get out of it was enouft 折. and oats and potatoes a selven. We didn't s mach.: We'd always (Contirined

The Up
Hoping 7in mod hat Hope, olild, to-me And every And every mor
you live,筑 e there to ask givs.

NGVER has the history th wany he high with hope as
the news of victory from the battle peace may soon fr each fenert. W of hope as sheddn and promise of gto ing us when wer disorder, death an cease, that, out of order, and that earth and the whe the slad song of h the giad song of h uld better descri the Olaristian's atti these. It is by hop that we are sared herve the living an are to "wait for 1 ven." Inseparably gether. It is this which shining like trials, sorrows and life enables uis to pa little while ore we in His beauty or til

Thls glorious hop
our courage by
Ind longs to
lope" the po eternal is the huma for us that it is so, only for this life, $t 1$ men," Paul telis us,
able," it is the hope yond thla life that joy, and that recon consistencles and son and the sure and ea
have within that al have within that al
be righted; that the made straight and plain. To be with
next life must be un next life must be un
such as exists only such as exists oniy h
hope, all ye who ent words Dante tells the door as he and hat dark abode of tudes of life, when and the material thi have taken to them lown away, when we rap, at the graves were dearest
despair, "Naked and
and mid the ruins of the that the blessed pro slortang rays on oth norrow not, even as o died and rose again
died hich sleep in Jesui with him.'

## dark,

dar
weet sunburst

## The Upward Look

## Hoping and Waiting

"It is grod that a man should both
hope and quiety wuatt for the salvation of the Iord. "-Jam, with. 80 . the salvation Hope, ollid, to-morrow, and to-morrow And evary morrow hope; trust while you live,
Hopet and each time the dawn doth Be theaven fill siva.

## -Vietor Hugo.

N EVER has there been a time in the history of the world when so many hearts were beating high with hope as in these days. As the news of victory after vietory comes from the battle line the hope that in each heart. We speat of brightar of each heart. We speak of the star of lope as shedaing its rays of hope and promise of glory on our heads telfing us when we doubt and fear that cease, that, out of ehaos will yon shall cease, that, out of chaos will yet come order, and that joy, harmony and peace shall one day o'erapread the the glad song of hope fulfilled shall sing Hoptag and waiting. No
could better describe what No words the Clirlstian's attitude of shoold be these. It is by hope that Paul fell uan that we ars saved, and turning us serve the living and the true Ging to are to "walt for His Son from wea ven." Inseparably are they from heagether. It is this "glorlous hope" Which shining like a beacon shove the trials, sorrows and disappointmonts the life enables us to patiently wait eartht title while ere we pass to the King in His beauty or till He come. King
This beauty or till fie come.
Thls glorious hope revives
Our coursge
While courage by the way,
While each in expectation lives
Aad longs to see the day.
"Hope" the poet says, "Bprings for us that it is so, but if our bope is only for this life, then "we are of all men," Paut telle us, "the mont mfiser able." It is the hope of something beyond this life that is the Christian's joy, and that reconciles us to the inconslstencles 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 made straight and the raugh places plain. To be without hope for the next life must be unspeakable despalr such as exists only in Hell. "Abandon hope, all ye who onter here," were the words Dante tells us he read above the door as he and his gutde entered that dark abode of the wleked. tudes of life, when friends heve viciasland the material triends have gone, hare tabicn 10 themselves oherished flown away, when we heve stood, mayhap, at the graveside of those who Were doarest to us, exclalming in our despair, "Naked and ferlom I stand amid the ruins of the past," it is cheu that the blessed promise sheds Its
glortous rays on our sonls "thet glorious rays on our souls "that we
sorrow not, even as others whien heve no hope For if as others whic. died and rose again even so thers alss which sleep in Jesus will God bring with him."
\#opo on, hope ever; thoughr to-day be The sweet sunburst may smile on thee to-marrow:
Though thou art lonely, there's an eye Thy loneliness,
loneliness, and guerdon all thy
sorrow, ugh thou,
sordid men, toll 'mong cold and
ang thoa must Tith notie to ech
or love thee, eer up, poor heart, thou dost not
beat in vais beat in rain
thee; Hope on;
ziope on, hope ever.

The Ideal Home Life

Fhomes far between are the near to boing come anywhere good, hearever, to visit or ht doear us a home where condititons hear about the ideal are in evtidence approaching ago we rend in a Unidence. Not long temporary, of a home, to reach which a man would gladly drive ten miles out of his way in order to spend the "They're the members of that family. family," poid people and have a large friendiness matee man, "but their triendiness makes up for thetr tack of room and money. I've stayed with them when I had to sloep on a bed With dry goods boxes under each corner of the aprings for posts, By going
a little farther I could have stayed a iute ef tarther I could have stayed at
one of the finent country around, but finent country homes around, but I chose the firat just because I got a weloome that money could not purchass anywhore."
"It did
"It did one's hoart good," said the man tell of the articie, "to hear this pendent upon apacioss whas not de contly furniture to make rooms and Iy symbot of heaven- it that earthThere to mo word in any real home. dear as 'homo' for our most treage so names of mother, father, treasured try, loyalty, each and all, love, counthe true home. and all are a part of stronger thane Ite wa a ohain is no neighborhood weakened by in, so is a home where youns people a so-oalled engage in questlonable gather and and conversations, the amusements is unquestionable. Or it there of which or woman in the Or if there is a man life is so impure neighborhuod whose ample to the diagrace rests growing generation, the In the community whe extent upon all "Firat, is oup who alt ldily by,
but to make our home to our family, must extend our home lite taceat we must extend our interesta unselfahly
in every direction, Some time ago an in every direction, Some time ago an
article was written by a literary Whose strong minded viewn make lif, Whose strong minded viown make life pleasanter for her husband when spent In a distant state, in which she satd by dolng awny with the nation only by doing away with the so-called private life and have everything from our birth to our funaral under the d-
rection of the rection of the government direct. She used as an argument the fact that Jews almont worihip their home life and place it above everything, proving that through this they lost their national life and their country.
that while other nand, we may suggest reigned, fallen ant nation have risen, Jewish people, scaltered torgotten, the corners of the sarthered to the four treated, have thronph the and mistained the features, the customs rethe traits of chars, the customs and and establef character that were old hadering shianed when David was a lad heraing sheep. I should llike very much 10 meet the mother who is the mentre of tha lacal home my friend mentioned; like him, I believe it would
be well worth the trip." be well worth the trip."
Handling Ferns Successfully
N $\begin{gathered}0 \text { class of plant appeals per- } \\ \text { haps more strongly to the }\end{gathered}$ haps more strongly to the ma-
jority of women throughout the winter season at least than ferns The best soft for ferial conalats of equal portions of turt loam, peat and leaf soll, with a good uprinkiling of charcoal broken to the aise of a small nut. in preparing the soil for poting it should be chopped up coarse, If the loam is atiff or ahort of fibre, (that is dead grass roots), take some of the soll out and reiain all the fible as it is the plant food and the charcoal is the filterer which keeps the soill sweet.

In potting enough soll should be used to ralse the plaate so that the crown is level. with the top soll. Care ahould be taken to leave enough spmee to hold safficient water to thoroughly soak the ball when watering the plant. Pot moderately firm.


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and powerful worm gear hond powerful worm gear

ther carrier made. It win repay yon many thmesoverfort than any

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## FARM AND DAIRT

cracked at leisare by the boys an

Howing two hours for cooling, Most of the wheat flour substitutes retain the moisture in the loaf longer than will the wheat fiour and yilid an increased amount of bread on account of heir higher absorption of water, thus educing the amount

## Harvest Nuts for Patriotic

## Reasons

THROUGHOUT Canada there is a generous supply of nut-bearing trees which yield an abundance edible nuts rich in food value, as the butternut, black walnut, the hlckories, hazelnuts and beechnuts. Nuts are more nutritious than milk, eggs, bread and meat, one ounce of nat kernels belag equal in food value to a plat of mffle Nuts are ready to eat without the labor and cost of cooking. They may be served in the form of delletós sandwiches,

## The WHY of Food Conservation

TTHERE 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 $90,000,000 \mathrm{men}$ are producing not one ounce of food; most of them need more than they ever didand every man of them must be fed.
frult jellies and cakes, or a handful may be kneaded into a loat of bread mefore it goes into the oven. A few kernels put through the nut chopper kernels scattered over the breakfast cereal adequately supply the place of cereal
This important food crop is walt. ing in the woods to be gathered. A few afternoons spent nutting in the woods during the bright autumn days will supply the home with nuts for the winter and nill save the meat supply for our country's defence After gathering, the nuts should be spread on the attic floor or on shelve in a dry place to allow the surface motsture to escape. They may be

## Mount Royal Tunnel Open Oct.21st. <br> TheNew Montreal-Ottawa Short Line <br>  <br>  <br> THR

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Dainty Neckwear, an Important Feature

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## F ALL Ands neckwear still a subject of betng used to vary the dark veloth

 dress and brishten the gall. White ploth somes and cuffy are very popular, and erod eatoroldery and made in the lone narrow, rolling shape Satin, organdy and georgotte materiala are mueh unedfor ooflar. and very dainty neokwear may bo made up in any of these materialy. Organdy is seen quito froquently in a veat effect, sometimes with cuffy to fration filet lace cotiars in long, narrow shapes, and also in sailior collarg. Narrow
ane there are thalf oollars, collars with points there meot low on the throet, collars what alan angina, collars that are all curves, and colkers that mhow nothring but gitraisht Whes, so that one need not be reatricted to any one atyle, as there are plenty of Mre rather expenifive droese. accessorfes but a dainty collar, probably with euffs to match, enhance the appearance of a viso arpear or a sull, to such an extent therIt is well worth our while to sive our collarn conalderable thougtht. Eve our The cool fall weather which we have eaum experiencing thas a tendency to tar's wearing apparel and to see whether or not we onn remodel mome of our old Irraser to tide un over another season.
It is poisible, too, that we may have laid It if poarble, too, that we may have lald
utfde is dress whleth was made two or thres years ago, and which wade two or too musti out of atyle last winter to K car. K03-inds's Dreas-There are many plowing towohes siven to the one-plece are choms. Thle model the belts which the the bett gring through slationg in Ho tront panoi of the akirt, seven sfises: ame Girta bras mivare.

coming. Herewith is a pratty style. It Is simple and at the same tume very at
trative. Four fises: 4, 6, 8 and 10 yeat. phin-Giri's Dress-This dresa is very stmilar to a a mididy diess. The cut on lines neok without a oollares is something out of the ordinary in this style of dress, and of our young idrla Four appeal to some and 14 years dria. Four sizes: 3, 10, 12
 from whilh to construct a milt ahould find this styte a good one. The coat la make it attractive. The akirt also, at will be soen in the small view, is taitefully trimmed with buttons. This model The coat is cutterns, 10 centa for each. Inches bust measure. And the sldrt from 23 to 34 incthen whist measure.
school diress, Dress,-A very praotion terial of some keskined from dark mat nfter the sty a bare mown, and trimmed Whah oontraining materint or infte. Four
Naces: $8,10,12$ and 14 years Mizes: ${ }^{8}, 10,12$ and 14 years.
2615-Lady's Blouse Repurate always fill a large place in our wants roben, and the style phace show our wardone. It shows the new slae of saillor colar in the amsll back vlew, The cuffs
also show good style. Seven alzes; aiso show good style. Seven slzes: 34 to
46 bost measare. 2888 Thady'a Apron-Thia complete
coverall armn coverall apron ta a splendild one to proteot a Food drese. Four sises: small, me-
dlum. lanke ana extra large. dium, lanee and extra large.
2201 -Jady's House Drees style feature shourt this house The main the oullar, is it adite a deinty finishing touch to the outht. Seven sizes: 34 to 16 9607-Indy's menare.
aklis mado up from thle An under: trimened with datinty liane will ond a pines in the wamircobe of the practlow home drosemaker. Seven slrew; is to 34 thethei


## CREAM WANTED

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RIVET your eyes on this picture $^{\text {a }}$ 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 stimply 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 persion per Cay.

What is that for a growing child?
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.

The Canadian Bureau in Brussel will administer funds, and provide means for getting the ailing children inte Holland and Into orphanages where they can be saved from a hideous death,
Belore you sit down to another meal, do SOMETHIKCG for the Belgian children. . . . . . .

## Belgian Relief Fund <br> (ored under the War Charities Aet)

to your Local Committes, or te
Headquarters : 59 St . Peter $\mathrm{St}_{\text {., Montreal. }}$
When Writing Mention Farm and Dairy

# CHRISTMAS 

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


## Late A. C. Hallman.

 frandfather came frot and settled in Waterl New Dundee. He clear the rirgin forest and tt ift undone was compl the father of Mr. A. ras on this farm that pettled on a farm so from the old homestea or had bousht as bush pugh, hilly farm. On parchased. The first rop welghed out Just the face of tremend nd by hard unremitth $y$ good judgment and hent, Mr. Hallman sue - lmproving this farm e left It It produced shels of grain, and fe ore kept. Mr. Hallm ere kept. Mr. Hailnid that ho made a gr pending 15 years of th 8 life on a farm 80
respond to the labor respond to the labor After selliag thla farn
urehased a farm of wrehased a farm of path. On this farm lents have been made. the first cement allo
Waterloo county. Waterloo county. ere remodelled and ma ry and thoroughly up provements were ma
flldings were painted. orements were made ead. As a result of t. Hallman has owne ars one of the finest atario.

A Holstein Enth One of Mr. Hallme hevements was accom was still a young man father were about plateln cattle. In 188 tir first purchase, com rebred femalos and pleh were imported fr Hallman and has Halman and has Canada. Later they or had been imported hs, of Aultsville, On ins, later Mr, Hallma pe additional animals ty who had Just Impo the country. For tl each for three cal Mr. Hatmans risi Mr. Hatman had to the money with whifec were considered ve

## The Late A. C. Hallman, of Breslau

N the death last week of Mr
Hallman, of Bregtek Hallman, of Brestau, there passed away a farmer still in the prime of life, who has played a most creditable part in the promotion of all that has fitood for the best interests of agricul
ture in Can
Hail man
Hal played his part as as ow II farm and played it well. The reachlevements would do credit to mear enjorinis
much gratmuch graat-
eT opportuaitles for publie service. The HallIs an old one in Waserloo county. Mr, Hallman'a
randfather came from Pennysivania ind settled, in Waterloo county near New Dundee. He cleared a farm from he virgin forest and the work that he tt undone was completed by hls son, ras on this farm that Mr, A. C. Hall. han was born and reared. Later he settled on a farm some two milles rom the old homestead that his fathough, hilly farm. Only forty acres ad been cleared at the time it was purchased. The first season's grain rchased. The first season's grain
p welghed out fust 660 bushels. In W weighed out just 660 bushels. In
fice of tremendous dimiculties by hard unremittfog toll, backed good judgment and good manageent, Mr. Hallman anceceded in greatfmproving this farm so that when a left It It produced 2,000 to 2,500
ashels of grain, and fed 30 to 35 head cattle. At times over 100 hogs ure kept. Mr. Hallman has often Id that he made a great mistake in bending 15 years of the best part of 8 life on a farm 80 poorly adapted
respond to the labsor pat upon it. Atter selliag thls farm Mr. Hallman rehased a farm of 167 acres on hleh be resided until the time of his path. On this farm great improve eats have been made. On it he put the first cement silo ever erected Waterloe county. The stables are remodelled and made light, sanh-
$y$ and thoroughly up-to-date, Other ry and thoroughly upto-date, Other
iprovements were made and the provemeats were made and the
lidings were painted. Similiar fmLidings were painted. Bimilar im-
orements were made fn the homeead. As a result of thls purchase irs one of the fliest farm homes in atario.

## Holstein Enthuslast.

One of Mr. Hallman's greatest Hievements was accomplifhed while was atill a young man when he and father were about the first mea Canad latein Istein cint ir first purchase, in 1883 they made
 loh were imported from the State nilnols. At that time, es for as Hallman and his father knew, se animals were the only Holstelns Cansde. Later they heard that a $y$ had been imported by M. Gook a of Aaltsville, Ontarlo. Two additional Antmals from anether additional antmals from another the connt just imported them inthe country. For these he patd
0 each for three calves and $\$ 360$ for stx helfers risfing two years Mr. Hallman had to borrow part he money with whitch to purchase e antmals. The prices of that were considered very high.

The difficulties in the way of breed Ing purebred Holsteins at that time had enormous. The dairy industry had not been fully developed. The demand for purebred stock was limited. The prices farmers were willing to pay tor good stock were small. There was no Canadian herd book. The Holsteln-Friestan Assuclation, which has since done so much for the breed, had not been formed. Nevertheleas Mr. Hallman had faith in the future of the breed and stuck to the animals of his cholee through both fair and cloudy weather and soon became known as one of the oltstanding breeders of this great breed of cattle in Canada, a position he still held at the time of his death.
In 1885 Mr . Hallman exhlbited for the first time at the Provincial Exh: bition at London. He was just ceen farm lad but secured first and cocond prizes on his heifers. This onExhibition, where distinct success he won a larger share 1885 to 188 prizes, diplomas share of honors, firs prizes, diplomas and medals on his who competed a gainst thim. exhilbitor

Start of the Association.
Start of the Association.
About 1890 about half a dozen Hol the old Toronto Exhet fn the sheds at laed what has Exhfbition and organ minion Holstein-Frlesian Great Do Bresion Holstein-Friesian Breeders' Asoclation. Mr. Hallman was appofnted one of a deputation $t$ meet at the old Parliament building ffter a permit to issue a herd book After various unsuccessful efforts had Ieen made to organize a Canadia Herd Book, Mr. Hallman on March 30 891, as the frst president of the r cently formed association, called meeting which was held in the Vic toria Hotel at Guelph, at which it wa deelded to form a Dominlon Herd Book, which was to be controlled by heir own association.
Mr. Fallman continuea to exhlbit at the larger exhibitions untll about tein tars ago. For some years he wa omployed by the Government as an ex pert Judge of dairy cattle and swine and his services were in demand in al parts of the Domfrion as an exper judge. in addition to making a greal success of Holstefns he became well known as a successful breeder Tamworth hogs. Mr. Hallman also one of the early farmers' instletrte speakers and made many friends throughout the province while actins in this capacity. He has held fmport ant offices for many years in the Hol. stein-Friesian Breeders' Association, as well as in mamerous other organ zations identiffed with agrieulture I addition he was honored in munlelpa! affairs by his neighbors, having among other offlees recently held the position of reeve of his township.

A Director of Farm and Dairy When some thirteen years ago the dafry farmers of Ontario felt the time had come when the dairy industry and afvaze a dairy paper to promote declded to Iammel The Cus decided to launch The Canadian Dairyman, which a few years later beHallman warly Hallman early identified hlmselt with the enterprise. About eleven years ago he was elected a director of the Kural Publishing Company, Limited. which at that time was beginning to pass through a trying period. some years, when the prospects making a success of the corpany feemed slim, Mr. Hallman maintained faith in the enterprise and stood by It. through thick and thin. At one time with other directors te went on notos to the extent of many thousands of dollars, Largely through fils offor'a together with thone of the othar dt. rectors assbcinted with him, the cantpany was flnally enabled to pass
through ita irst years of initial tryina Mr. Hallos and much to the joy of time to see Fas m and Dair) boegme established as one of the uristandine tarm papers of Canads. The Valuing his services to the dairymen of Can ada in this capactiy is somuthing which can never be fully eatimated In the death of Mr. Halimanted. has passed away a forward toolse man of great fntegrity, strong inding pose, courageous in action in purready to promote whatever and ever Heved to be in the best interest he becommunlty and the country in lafin His death was the result of a fall from the top of a silo to the cement from below, a dintanee of thirty fly foor There are none too many mens feet. type and Canada will be the poorer in consequence of his death.
The Quebec Farmers Aggressive

## (Continued from page ${ }^{13 .}$.)

the merchants asked $\mathbf{\$ 7 . 5 0}$ for cor, Mr. Doherty helped the farmers to
get it for $\$ 3.75$. When the mepeltant set it for \$3.75. When the merehants Doherty was able to get the price re duced to $281 / 4 \mathrm{cts}$. This lead the mer chants to reduce thelr price to When the merchants aifited it for Parls green, the farmers obtalned if
Much interest is being taken in the meetings to be held shortiy on Quebec side of the Ottawa Rivew be
tween Ottawa and Montrea


Doherty, Vice-President of the
United Farmers of Quebec,
dirtrict meetings will be held this month as follows: October 21 at Lat chute, October 29 at Thurso, Octobel 23 at Buckingham, Octeber 24 it Notre Dame de Dalote. Those whu are opposed to the farmers' movomen have been invited to attend those meetings, where they will be given an opportunity to speak. It is under stood that there will be men at the meeting prepared to answer their arguments. Mr. Bouchard, the Proincial Organlzer, will be present. The Unfted Farmers of Quebec ar arranging to hold thelr first annual convention in December fn Montrea This will bring their annuat meetin in the same month as the United Farmers of Ontario. There may be an exehange of speakers between the two organizations.

## Credit Where Due

Ian editorial entitied "Canada at National," which appeared in Dairy, we find that we were in error when we stated that "OMr Antry In dustry has been representedry intwice at the Nationat Depresented oniy ence by R. B. Ness with Dairy Show, and another time with his Ayrshirus, with his Jerseys" by R, J, Flemin! vised that at the flrat National Dairy

Show at the Cbifseum, Chicago, Mr. now of Stonewall Manllisonburg, but Holstelins and Mr. John MeKees of Norwleh, Ayrshires. At that time the prise Hist was very 1 imited and no priaes were oered for calves or one ear old bulls. Mr. Mckee was succesufut in winning second and third prizes were offered for calves or one on two-year-old helfers and first on carling helfers, as well as first herd prise, his famous bull, "Scottie" heading the here. We have not heard what what prizes Mr. Rice won. It is pose ilble also that Hunter Brothers of Maxwell, showed Ayrshtres some years ago at some of these exhlbstions.

When Ambition Won

## (Continued from page 14.

and ditn't care for anyihing better, until one morning, three years ago
laat fall. When I went ont to the bors lant fall. Wzen I went out to the bars found a hund'o lying that morning I年 tngs on the outslde was written, 'Find. Inge fo keepings.
and when a heavy sort of a bundle, brokn which told how to run all kinds of tarms.
"T looked through them leat by leap to see If we couldn't find any name of the owner, but all I could see was a place on the finslde of each cover Where there had been a name which made up our minds that somebody had mace as a present.
the clock gheng to put the books on nelghbors at tis for learning how to run a farm by reading books. So I hid themi undor my bed. But I read them fust the asme, enpeclally of stormy days when no one was likely to come. I always did want Bomething to read on stormy daym anyhow. After P't read them alt through. I read them through agait, and thin time I read parts of them nlowd to Father and Mother:
what didn't seem to understand mach no chapter tre books. but there was limestone on sandy lind like ours, "'We mipht try that once on the readifis it aloud. 'I saw twe barrels of lime all falling down in Doc Kelly's vard yesterday, and he'll sell it cheap. mont likely. You go sees him about it to-morrow, but don't you tell anybody bodv tanehing at us.
"So I did as he told me. We sowed the lime of the garden, and then olanted half a pound of beet seed on the limed land, with the ends of the rown ruaniug beyond the lime. We used the beets becanse the book said that was the crop to raise when we wanted to learn whether IIme would do any rood. Well, where the lime was used the beets were fine, and where it was not used the beets were good for nothing. That gave as courage to reep right on doing as the books said.
"The books said sand was better for vegetables than strong land if we'd use Ifme to sweeten ft , and then plow. ed in any kind of weeds to rot and mikke It black. So we cut the ferns. All we have done was to follow what the books sald. We're just book fanmfor Mr. Mever woutd have told you but for Mr. Simms and the gentlemen of the Insilitute.

They came over to our farm and asked me to come here and tell you all abont it. They happened to see the books because I'd forgotten to blde them. I expected them to laugh at us, but they said that the only farmera who ought to be ashamed were leice ts a don't read books. they are fonls who will learn of no other' is wht one gentleman sald. So I eame An that's all I have to tell. Bit whis I could learn who it was that left those books by our front bars. He zot only tamght ws hom to to ors.

Brookdale Stock Farm

##       <br> WM. C. STEVENS <br> Phillipsville, Ont.

REGISTERED HOLSTEIN BULL
$\$ 150$ WILL BUY
SIV PIETJE ROBERTS. (Caleed Feb. 20it, 1914.)
Sire Sir Pietje Pooch, of Acondate. Dam-Holen Roberts. $\$ 75$ WILL BUY

$\left.\begin{array}{l}\text { Seen at } \\ \text { Write to }\end{array}\right\}$ "ELMBANK CRESCENT."
WILLIAMSTOWN, ONT

## The " 0 '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 0 'REILLY R.R. No. 9 PETERBORO, ONT.

## Bull Calf of Royal Breeding

Born Dec. 27, 1917. Ho is a beauty, a show animal. His sire's seven neareat dams average over 30 lis. butter in 7 days, his 11 nearest over 29 , and his $\mathbf{2 s}$ nearest over 27 lbs butter in $\eta$ daya. His dam, a Korn JOHN M. MONTLE, Prop. Sunnyside Steck Farm STANSTEAD, QUE•

Holsteins For Sale
Bulie of servieeable age and younger with splendid A. R. O. records on both
thene are very typey and in good condition. Also some femaies in saided Thene are very typey
H. W, PARKINSON

## AUCTION SALE

Owing to acarelty of stable room, I am abluged to offer by Public Auction, at my Fwrm, Lot 30 , Mrat Conceselon $\mathrm{N} . \mathrm{R}$. R , Chariotenburgh, three=iment

## Tuesday, November 5th, 1918

## 24 JERSEY MILCH COWS

1 JERSEY BULL, 1 year old
All restatered in the Canadiun Jroesy Hoerd Book Ago and petibe
Torme Tmolve moothe" ereath' on furruthing abproved joint notes, or atx ar cent off for coash.
D. D. MeCuaig, Auctioneer

Wm. D. Munro, Proprietor

## DON'T BE LATE

FArA number of dir diry breoders, who reguariy use the columno of




LIVE STOCK DEPARTMENT
FARM AND DAIRY
work, 'but there are other Pine Plains tolke who are doing what we did, and they won't have to depend on picking berries any longer for money to buy things."
The
The epplause that followed this little speech was exceedingly cordial, and then, as it died out, the people turned to talk about the story of the books. Obserying this, the director of the Institute picked up one of the books which were lying on a table, 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-to-do to
give money to the poor, but here was give money to the poor, but here waw ledge was Infinitely better. The name ledge was ininitely better. The name volumes has been carefully erased. volumes has been carefuis er have but with the ald of this giass inave
been able to see the indentations been able to see the indentations
made by the pencIf with which the made by the pencif with when the
name was written. I know the gentlename was written. man well enough to gay that he reveal his Identity, bn' I must say, neverthelens, that as I yead it the name once lens, that as in the Jooks was James Kelly, M.D. When the Pine Plains are all reclaimed, as they are now sure to be, $\mathrm{h} / \mathrm{m}$ to thank for seelng how It might be done, and Jefferson Briand for doing the prellminary work under the ing the preliminary work conditions that I
most discouraging con most discouraging ever seen surrounding a farm devt'oper."

## The Makers' Corner

Butter and Cheose Makers are in: vlted to eend eentributiong to thic department to ask questions on and t
alen.

Cooperative Chicese Marketing $\mathrm{X}^{\mathrm{HY}}$ tories and creanid erices of on ontario organize a great central company for the marketing of all the cheeso and butter produced in the province? Such a scheme was pro-
posed in Farm and Dairy a few weeks posed in Farm and Dairy a few weeks ago. Since then the Eastern and Western Ontario Dairymen's Associa. tlons 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. Recently an editor of Farm and pairy was discansing lairyman who, for bush. ness reasons, wishes his name to be withheld. He expressed himself'ad follows:
"Our dairy products are exceeding ly perishable. Storage facilities are owned by private individuals. The 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 arn Ontario could not market their eheese fust as cheaply, or more cheaply than by the method now employed. This would cut out a lot of middle men and hence a lot of expense. For Instance, every firm has Its buyer on the local cheese board. These buyera would not be pecessary wers 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 immedtately Irrespective at marlicet conditions, beeause there-terne atorage and the

In sympathy with any seher
will Improve thls conditiun."

Creamery Situation in Alberta

IMr Mr. H. Higginbotham, Seoretary the United Farmers of Alberta, 7 cords the following interesting ment on
province:
"We had a further meeting of mill and cream shippers in this office Friday last, when Mr. Marker, Provincial Dairy Commissioher tended and gave 78 semething tended and gave ns semething of the cooperative creamery movement in Alberta.
"Mr. Marker gave the reasons for the decline of the cooperative crean ery movement in Alberta, as owing to the too keen competition of owing to the too keen competion as the part of the private creameries.
Mr . Marker pointed out that the priv. Mr. Marker creameries operating in the large cities had the advantage of a larg cities had the advantage and ocal market for-milk and which could be sold at much ligher prices than could be secured for mil and cream when turaed into cheese.
"Mr. Marker also stated that the farmer apparently wanted excessive service in the collection of milk and cream which the private reameries were able to give. Province, the compettion betwecn the private creameries for the farmer' products has resulted in the establish ment of about 200 cream ment of abo cream tations by the private creameries. "In some cases these cream recein ing stations are established three in the same town and blding againgt another. Also buy man in chnrge at the cream receivin man in charge at tean and station makes tae teat and giver pay ment in cash or lam
products when recelve
"This is contrasted with the co operative creamery method of dolng business, when the farmer was pald a certain amount for hls product once per month and the balance came to him, after the product had beel made into butter and cheese and soid. According to Mr. Marker was not willing to wait
for thls length of time.

Dairy Products at Columbus

THE dairyman who has been at plays of dairy products at the Canadian National would have bee disappointed at the meagreness of Va entries at the National
Columbus, Ohio, last week sreat extent of country and covered a wide variety of products. In addition to the classes for cheddar cheese, there were exhib its of cottage cheese, limburger and
Swiss. The Swiss cheese, about as his Swiss. The Swiss cheese, thout his as a mmail cart wheef of a Canadian flat, were some thing unique to us. There were alio classes for market milk and cream is bottles. In these classes there wen no Canadian entrles.
no Cold medal prizes
various butter classes were in tio lows: To the Athens State Hospitit of Athens, Ohto, which scored is 1. in the dairy butter class; the Huted son Cooperative Creamery Co. Hutchb son, Minn, 96 in whole milk butter class; and the Fox River Butter Ca, of Chicago, III.
separator ciass. Show give two gold medals to Oalin firms. These are John Lengacket, of Dundee, Ohio, whose Swiss chense if try scored 96 , and the Youghurt Pro duct Company, of Urbana, Ohlo, whan entry of cottage cheese scored 95. Th gold medal for American chedty cheese was won by C. H. Schneidet of Maryland, Wis., who scored U1 that for brick cheese was awarded is Jacob Mueller, of Rice Lake, Wh. score being 55 ; and that for Limbe ger cheese goes to August M
Monttcello, Wib., score 56.
$\qquad$
$\qquad$
$\qquad$

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

OFFICIAL RECORDS OF HOLSTEIN.
Sipt, 30 AUa. I To Mature Class.


$W_{2}$ L Fitrviow, Nowmarkot Nmperial, 15686,
 6. Bamah Hongarveld Korndyke, 2moin,

 Be. butten, Alex. Johnston. Kelioe, Man. Sentor Four-Year Class.




Junion Four-Year Class.

 y-iIN bor bottor.
 Senior Thrse-Year clase.

 4. 16.4 libe tak, 10.62

 to-diyy reactit: 1808.6 ibe millk, 62.69 lbs .
 Junior Three-Year clases.
 ith hei buiter jomilk, ciens ibs fat,
 botw. Alex. Johaston, Kelloe, Man. Junior Two-Year class.



4. Viotorla, Burker, Bimcoe.

 Ifitime butror, Director, Experimental
 butter. Dineotor Exporimentai Farme, $A$ gisaina, B.C.
 8. Colony Aagelo Mokinter

1m. 70.160 dakgro Mokinity. 4164 , $2 y$ 180 loe fat, sm. 48 lbs . butter. ba . milk.


 Through an unfortunato troiomy Ferm. Agurem the milt record of Iation of Dutehland Amitis, recort of Laliteview provious, repert, Hecrecty civen in a

w. A. oramons,

SEMI.OFFICIAL MECORDS OF HOL
STEIN-FRIEIANCORDS OF OWS, AUG.

## Mature Clase.

1. AMCOHE OF RUVMARBIDE $3 \mathrm{rd}, 10362$


 R. Stomens, fas, 671.20 ibs , butter. R



 Four-Year Class.

 buttoon. Univeralty of saskatchewan, sas.

## Three.Year Class.

 Two-Year class.
 butter, a. milk Mor itath fat tow is ibe



 in. buttor Arthur Bocker Poteraburg.
 w. A. ammons,

## PEEL COUNTY CALF CLUB FORMED.

 $\bigcup^{\text {NDIER }}$ County ${ }^{\text {the }}$ Mizk Proploes of the Peol the nowly-orsantized Assoclation, Calt Coub nowty-organized Peel County October 12, Whan each mamber roostived heifers of Holotein, Avriairo and graney
breedn
were distribated to The object of the elub to to to creato deper intarest amongat the bays and edris in the buainese of datry tarming, to

 Each member is requires to heesp ant aco ourato record of all teede congumed durof milk year, and to keep a dafly reecrd of mik production. Waich member etres
his note for 13 monthis and one year
henee, before the motes hence, before the notes fall due, the year will bo auctioned off, all proilts from the aile acoruing to the member who fed the
cow. Prises will also be given for the best kept recorda. The pian to tor the cellent one, and mhould commend ftaelf to

BIG U. B. SALE OF AYRSHIRES.
P BCiancluy there oeourred in the herd of Redmond, Wrom the Wrilamoor

## herd of Redmond, Wrahnington, owned by J. W. Chiso, wers moid to the Coomar <br> Richly Bred Holstei

Breoting Eutato, Martinevitio, Ind.
 cluded some of the fineat producing Ayryhires In the United Stateon including last years two Franch cup Whanera Willow-
moor Happy Giri and Withowmoor 6 h , winners of the and Willowmoor four Lily threa-year-old classes respectively, The herd contrinst the finert breeding as well As striking individuaily, Five of the breed made Advance Resintry idres of the moor Farms. Amons them: Bouehan Peter Pan, with is entrifes, ayeragin Mating Queectiy, with is entrits; Morton ing 9,668 lise. of milk, 399.64 sibs fat Holehouse Whitto King, with 36 entries, averasing $10,220 \mathrm{ibs}$ mink, 399.10 lbs fat
 feet, Thls herd has nino produced sil world rocorde. At present hoiding the
worlits Ayruhire fat recond is IAliy of
 Wht, her Aifth entry. Oether notintle cows doveloped there Inctude Cermmition Down

 10,631 the milt, 856.06 him fat.
Aalide from the parcisese of the WilNowmoor rtock, the Gcespurd Breeding bitate has made extenstre, propohinacs Mister, Oal, and © Good Bold Marma, Men tor, Uhfo. Inctoded in the Molmarlane purchages in a buill calr from willowmoor plion of the breed in millk production. JERSEY ITEMS.
T He southweatorn Jersey ahow, held at Kamam 677 rocently, browisht a
total of $\$ 16.616$ for 37 head, an aver-
 If Mr. J. E. Jones, sold fer 15,400, She Financial Count bibe hinest, alired by Two heifers of mild for and 91,000 phen
Then. The Jorsey breod now has a $\$ 50,000$ bull in Financlal Benaation, Whooe irire is chal beanty, Greystane Jerser Farm Tinof Weat Cheester, Pa, pocent Farm, Inc.
 from hiv brseders, The Waterloo \$30,000
Farm of Wateroo, Iowa, of Which firm.
Frof. Hupti G. Yai. Pele, who
 Jorseye at the lant Canadian Norgitional,
is the sonior partner. Twenty alfern of Is the sonior parther. Twantan National
Finance breeding wore sold for of of another Finance breeding wore sold for another
$\$ 30,000$ to the Greystone Farme at the same time.

## AT AUCTION

 35 HEADChoice Holsteins will be sold at

## GANANOQUE, ONT., WED., OCT. 30th, at 1 p.m.

## In the Sale 1 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 2o 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, $24 \mathrm{lbs}, 2$ months from freshening and 99.6 lbs , milk in 1 day, at 4 years, 29 lbs in 7 days and mature months and has a $22,000 \mathrm{lb}$, milk in 7 days- 1 day, 122 lbs . milk. As a Junior 3 -year-old in R.O.P. she produced $20,242 \mathrm{lbs}$. milk in 10 months and has a $22,000 \mathrm{lb} .4$-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 $20,000 \mathrm{lb}, 3$-year-old in the world. She is from Rauwerd the $29,000 \mathrm{lb}$. cow-also a sister to dam of bull. A calf by son of Rag Apple Korndyke 8 th, whose dam is a $26 \mathrm{lb}, 4 . y e a r-o l d$. A 21 lb , daughter of Sara Jewell Hengerveld's son, a sister to the $\$ 1100 \mathrm{cow}$ 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 $24 \mathrm{lb}, 4$-year-old record, also Princess Leo Segis, 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 Plus Burke, a 100 lb , bull, all from good cows. Also Daisy 24.35 lbs , at 4 years-in 30 days 98.65 lbs . Four daughters and sons of King For Catalogues

Lunchean will be served at the farm.
All trains will be met on day of sale.
A. W. CHURCH ${ }^{5}$
baron fayne mercedes segis 1 yeur old. Ready lor Heary Service.

thipged thet to the country during the
zintro pergot focker values have ac-
 tuke advantage of the market and buy up finishod animals is bound to scarcily or tho ant half of nound yeur oocur during fromers take advantage of presemt conicho the fodder they have ont stock to use up Lamb values showed considerable fuictuation Heavy cavres are atill hard to tring to to are weak, and at the time of
cipoted. Quotations:-
 helfers, cholice do good....
do oommon
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do. EDod
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do common
Butchers barn buls, anoico
da medium
Peederty best
Buackera, beat ,i........
cilves eholoe medium
Catrea ehoice
do. common
do, grazs,
tamber oholce apring
tambe, yearlines
Sthees, cholce handy
da haovy and frit buckis
Hors. fod and watered.




Princess Leo Segls, Record 16.97 Ibs. butter 7 days at 25 monthe. She is one of the good ones in the Churchili sale at Gananeque.

## A. W, CHURCHILL'S SALE OF <br> HOLSTEINS.

$R^{\text {n }}$ MADERS of Farm and Dafry will
notice with considerable interest M. saie of reglstered Holinteles which Doiting .W. Churehili, of Gananoque, is holiting at his farm on Wedneanayu, Oot.
aoth. it is not often that the public have at oppartuaity of of that the public have
 fortungte in this sale. It is also mose un-
Mr. Churohis that sortage of help. Churchill that the erse his herd.
Whenging him to dis When he atarted breeding Holsteins a cow yaars aro it way with the intention
of seouring the very best blood that was
 other noted hordsa, and there parme and yery bert that he could buy.
turaie in this choice of his herd for fillereat sir Pontiac Echo, who hire, wood This sire is A, Brethen, of Nor and is a ine sire is now four years ord more, Judesting by the anpear. Further goung atuff on the fapm, he the the hillicreat to reproduce his good huatity May Boho Champlon, who wha aired by time the herd sile in, who was for some
and is a fuil brother to Hillcrest herd with it lus. butter to May Echo Syerdi, 40-b, cowis buter a week, and the world with three reonty over 26 lbs butworld with three reoord
other reeord of 3.39 bides having an
 her rocords are well enous. However. need no repotition. May Elach known to Champlon
has loft herds where he was used. and Hillereet is Hithoreat of Hillicerest Sir Pontiac Echo is Hincrest Pontiac Suste, one of the beit in the Hillereat herd, whe has the followdays: at three years, 24 lhs. in 7 day
(two months from treatientim) tha. milk in onem day; at four years she increased her record to 23 los. butter in at lbs, butter and 760 jbs. millk in 7 day days
and 122 lbs, milk in 1 day, she prodtuend 20,24 the-year-old in R.O.P. she protuced $20,242 \mathrm{tbs}$, of milk in ten
moaths, and has also a $23,000-\mathrm{Jb}$. four-to-inuch for the herd sire. Among the the best blood avalinble. One well worthy of mantion is at sister to Hillerest SIr Fontinc Echo, from the same dum and frst $20,000-1 \mathrm{~b}$. three-year-old, who in
turn is a daughter of Old "Rauwend."
the $29,000-1 \mathrm{~b}$ coww, the $29,000-\mathrm{lb}$ cow, which Mr. Brethen in his new herd. Another that fon worws Pontecial mention is a sister to Hillcres slre. In the sale will also be the herd Kornayke 8 th It It of the noted Rag Apple of that noted bril, and whone hy a son son
26 -lli. daughter of Sara. Jewel Henserveld son, who is a sister to the $\$ 1,100$ cow at There will sie
year-old daughter of a $23.67-\mathrm{-lb}$. threeCanada, who looka to be grood for 30 Art at next freshening, Another one fs Dellin
Rooker Pride, who his nt four yearg old, also Princess Leo
Semis, who Looks good ins and who has alrenav good for 30 多s. months. Anotier of the pood on, at 26 has given 858 lbs , milk and 18 thyse, who in eeven days, eight months from freahold record of 21.28 row has a three-yearold record of 21.92 lms . and a four-year-
old
95 58.65 in 30 days.

Posch, whose two nestest dams Alkrum over is libs. In addition to these there Wing be four dausititers and four sons of from good cows.
sale. Mr. Church of the offerings in the able expense to make the sale considerHe announces that he will meet ait trains at Gananorue on the day of sale and convey buyers to thi farm. Lanch
will also be provided. Those interested In securing some of this stock should
write it onee for catalorues.

I
Elmcrest Holstein Friesians Headed by king segis alcartra joseph (27808), Dam R. O P PE MADOL 200 (1ber he produced 34.48 lbs , butter, 111 mik , 991 lbs, butter. In 7 days $\$ 50,000$ butt trom Faires, Ail Jo in so days. Sire a son of the 35,37 tbs, in 7 days, 14267 Pontiac Calamity (143877A); butter calf to him for sale. 1.60 ibs. in 30 days. Cows and heifers in dams up to 31.55 . Also or 5 splendid young show bulls from Prices from 8100 to 8300 - If days.
ducers, glve us a call-write or you are wanting persistent pro-
W, H. CHERRY or phone.
Hagersville, Ont.

## LAKE VIEW HOLSTEINS <br> 




 MAJOR E. F. OSLER, Prop.
T. A. DAWSON, Manager Lakeview Farm, Bronte, Ont.

Maple Lawn Stock Farm
WM. H. GOUGH \& SONS Bloomfield, Ont.

## Hix tam tim iom Average 38.82

age 35.69 lb . butter in seven daye, and over 112 great los. milk in one day, ayer.
is not equalled by any other buil in Canada His nome is ORaisBy JANE BURKE.
roU, Cows and helfers in calf to him for sale. If you need a be hired by
BUIt, write us,
R. M. MOLTEV,
R. R. No, 4,

PORT PERRY, Ont,

We can supply you with bulls from three to eleven months old, from dams with
records up to 32 ibs, butter in one weelc. Inspection invited.
J. When J. W, RICHARDSON

ALEDONIA, ONTARIO
CLOVER BAR STOCK FARM OFFERS
tow cholee young bull
Prancy smird. Write now for STRATFORD, ONT

SIRE-KING PONTIAC ARTEIN BULL FOR SALE
DAM-OXFOFD JEWA ARTMS CANA, NO. 10042
HUBERT JEFFRAEY
sale, \$175.
OPERTON.
SOPERTON, ONTARIO

Cholce stock for sale, all hocs OF BEST WINNING STRAINS.
sexes from suokers up. Good growthy fellows of reod type and breeding atook, both
yarretles Turkeys, Gees. varletles Turkeys, Geese, Ducks, Chickens. 100 yoarling of. and breeding. Nearly all
Write for prices. White Leghorn hens.
T. 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
1 year old. Ready for Henry 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 go into a full sized herd. Don't miss him.

WRITE TO-DAY
$\underset{\substack{\text { E. } \\ \text { P.O. }}}{\substack{\text { Non }}}$ 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 and Eggs | 4 million dollars. |  |  |
| :---: | :---: | :---: | :---: |
| Cheese - - | - 36 |  |  |
| Grain and Flour | - 500 |  |  |
| Vegetables | 19 | " |  |
| Meats | 76 | ' |  |
| A total 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 storekeeper "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 Bondsor 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

