


TORONTAsom thim bed SILOS $\mathrm{T}^{\mathrm{T}}$ will put money in your pocket. Get tons more ensilage in a sile costing about the same to erect. The hip roof lets you tramp down the ensilage right up to the top of the wals.
Now consider the construction of a
TORONTO Silo. Ail woodwork is TORONTO Silo, Ail woodwork is
carefally selected spruce, thoroughcarefolly selected spruce, thorough-
iy impregnated with hot tar and iy impregnated with hot tar and
creosote. The wood cannot rot creosote. The wood cannot rot
and is not affected by ensilage acids.
Then Toronto Silos are airtight because the staves are DOI/BLE tongued and grooved-double protection agninst froot as well as air. The Tornuto Site boollot sent upent inf
repues. Ontarie Wisd Engine of Puap

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& \text { Co., Limited } \\
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## A Cheap and Efficient Poultry House <br> \section*{It Was Built of Scrap Lumber but on Correct Principles}

TपE principal items of expense in
building our poultry building our poultry houses were three squares of aingle-ply roofing conting $\$ 2.55$, four squares of
three-ply rooing, costing, $\$ 7.40$, a few three-ply roofing, costing, 87.40 , a fow poundar of nails and a couple or giazed
window sashes. The house ls 18 feet square and big enough to accommosquare and big enough to accommo-
date 100 Leghorns or 80 Barred Plymouth Rocks. The Inmber that we used was almost serap. A couple of years before we purchased the farm the harn had becn blowa down in a great hurricane that swept Cntario. In robuilding the barn, as much of the old lumber was used an posaible, and what was not considered vorth bothering with was piled up in a fence corner. It was from this fence corner that we got a good deal of the material that went into our chicken house. The rest of it came from an old pigpen, fone outlived i's nsefulness. All of the work was done it our spare time, and probably amounted in all to six full dayn' rork for one man. It wouldn't have taken so long had it not been necensary to draw at least a half-dozen nails from every board used.
The silly of the house are four cedar logs, is feet long, which came out of
the old barn. These were spiked to-


## Front View of Poultry Houre.

gether on the side of the house and the studding erected on them. The house is of the shed roof type, seven feet high in front and five feet at the back. The door is at the tront of one end. The nests are along one side and the feeding hoppers along the other. In one comer at the back is a coop for broody hens, and the reat of the apace is taken up with four roonts, 16 feet long. There is no dropping board under the roonts. In cold weather the droppinge freese immediately and are in no wise-objectionable. A la-inch from being seratehed hack ander the from being scratched back under the roosth. The floor is of railway ties laid in on the gromm and covered over With fine gravel. Concrete would probabiy be proternie, but it would also be costuy. The two eads of the house and the back are aghtly constructed wita two piy of boards and single-ply building paper between. The lumber we uned was rough that weiuld have peen antisfactory as paper ing We needed something stiffer and longher. We would not consider anything lese than three-ply roothe on thing less than three-piy rooing on top,
it is.
A front view of the house is given in the diagram herewith. There are two good-aized windows at either side. and an open space, $3 \times 6$ feet, covered With one-inch meah wire netting. This we consider an ideal arrangement for an open-front house. Where the open-
ing extends the full length of the tront ing extends the full length of the tront
of the house, the tendency is for draughts to sweep back too far into the house. Where thare is just one opening. and it in the centre of the front, there is iso opportunity for draughts to work back into the house.
Even with a storm heating in we have Even with a storm beating in we have been unable to detect any draught for more than tour or five feet back from
the window. The opening in far
pose breeds; therefore, they may be The usual to the lims of June. The usual advanoe in the price of egies, particularly fresh eggs, during the fall of the year, is due largely to natural causes. The moulting of the yearling atock shuts out this source of production, leaving pulleta practioally as the only source of fresh egga at this time. It is very necessary. therefore, that the pultets be hatched in plenty of time to be matured for fall laying.
A large number of breeders who adyertine such good returns from late hatched chieks make a very serious inlatake. It is rarely pomesble, under average conditions, to have late hatched general purpose chickens do well during the winter months. Certainly when feed prioes are so ligh it becomes almont imposaible to make profit on a late hatched chick. Farmers and practical ponltry keepers should not be encouraged to hatch lato, rather they should be encouraged to hatch an early as possible, becanse under average conditiona one pullet hatehed In April is worth two hatched in June. The largest profits in poultry raining are mide under the most officient conditions of managoment. It it hen cannot lay eggs during the winter montha she should be eliminated from the laying flock. This means the culling out of all late hatehed pulnets. and it will save a great deal of trouble if no chiokens are hatched tate.

Liver troubles are caused either by h lack of grit, or by feeding too rleb or utimulating food. Care muast be taken in that particuiar. in the early stages of the disease the birds show droopineas, have a poor appetite, and seem stiff in their joints. One or two good tamily liver pills will very oftea corraet the trouble.

## Trade in

I$\left[\begin{array}{l}\text { T has be } \\ \text { Him wh }\end{array}\right.$ Hm whe
one who Withoat Toe have tempt
row, When row. When
difficult to timeult to
and whe fin and whe lo
demegs of th she has lea manter, and well provide to talce car the pall. the pall.
Even thot at hand, that at hand, tha
make a lot feed into mit feed into mt
beef, and ot convert feed Yet they arn are often fou duction in co foed destroy

While feed an In the matter of most tmportant was "gtren dom moveth upon the mind, the ability to eidentop rosi low production dairy cow. The to we hear htm


The Recognired Exponent of Datiging in Canada
Trade incruses the wealith and gtory of a country; but its real strength and sthmina are to be leoked for among the cultivators of the land.-Lord Chatham
VOL. XXXVII

## To Get the Most Milk from the Feed Available

## A Racy Address by Wisconsin's Superintendent of Cow Testing, Mr. Noel Bealey The Mes

Ihas been said that "all thlugs ave possible to Hm who befleves," but that does not appily to withent feed, sllthourch the present mill trom cows have tempted some dairymen to try it to theitr soer row. When losd costs are high, the cow finds it more dimeut to meke tood teturas over cost of Fond and she ls usually turther handicapped by the temdency of her owner to eut her ration. Howewer, she has learned the "Satety First" slogan trom her manter, and before she makes any of that feed frto well provited for that her awn precious body is well provided for, and It you ontr give har enourti to take care of her body, you do not get any in pall
Even thourh we may have plenty of choan teed at hand, that is no assurance that we are golng to make a lot of cheap milk, for some cows oonvert feed into more or less millk, others convert it into convert foed at 850 blessed only with the ablifty to convert feed at $\$ 50$ a ton into manure at $\$ 8 \mathrm{z}$ it ton. ret they ars all aalled "cows," and the three classes duction fin concerned, the last tw. So far as milk pro"faed destroycerg parasites" two classes are simply shonid he destroyed on dficovery they themselves Plicking the Winners.
A positry specialist can tell by looking at the legs, beak, ear lobes, and pelvic bones of a hen how many, uggs she will lay. One man examined 7,556 hang, discarded 41.5 per cent, of them and tost only 5.3 , per cent. in ege production. In one flock of 78 hens be culled out 64 wthout the loss of a single egg, the fourteen "workers" laying just an many egrs as they dit when in the company of the 64 "lonfers". While it would be mighty convenfent to grab a cow, look at her legs, head, nars, and pelvic bones and tell how many pounds of butter she was guing to make, we. must yet determine real efficlency hy welehing the feed and weighing and tenting the mitk. Even in Wisoonsin in the year 1918 we have many so-called dairymen who claim the ability to tell by looking at a cow how mach mille and fat ahe will make, yet
many of our best dairyman seem, many of our best dairymen seem unable to tell their best cows from their poorest ones unless reconds of feed and milk production are ltept.
we find serubs in all breads, not due to breed, for Ne ind scrups in ail breads, Just as we find scrubs awong the iriah, Fnglish, Mermans, and Sweden, Nor tis it due to calor, for a cow that is biack can produce as mueh milk as one that fs black and white or entirely white. A short while ago Herman Vetter of Fand du Lase bought a grade Hol itein for 850 from a nelghbor who did not tte her color and "thought she was not much good anyway," Last year this cow was in an assochation and was ing 691.7 pounds producing cow in the state, making 691.7 pounds of fat. John Puls of Hartford bought a pure-bred Holatetn heiffer beeause she was not well marked and was "probably the poorest in 779.6 pounds of fating the past year she produced 779.6 pounds of fat. It seems to me that when men vevelop such highly refined tastes for color, that it became temporarily color blind. Scrubs-Men or
While feed and the kind of cow are wery important In the matter of gating prollt from the busineas, the most important factor surely, is the man-he who moveth unon the face of the earth." In thite that mind, the ability is developed to a remartehte maste to sideatep responalbility and shift the hlame tegree low prodtrettor of to the humble and blame for dairy cow, The more inefficlent he ta, the more often do we hear him may; "My epws are no good, they are
onty sanths," when in reality we find his oows to be ifety tair and that it is he who is "no good," for he They are "gelf-made" men, when such men' claim follove the Almishery men, as they alten do, they Jolteve the Almighty of a great remponalbility.

What Made the Difference.
cows than our men are that our cows are better two years arm one man are dafrymen. For instance, bor for 870 aplege macanas thrne cows to hla nefgh were unproftable. When the new sonattions they the cows and gave them his newal man got hold of care, they mare than daunina the grofuction and threvtoun year. Beasle made 347.7 pounds of of the proflt over feed of $\$ 72.29$, Daisy made 309.8 pout at of tat at a mroflt ower fead of made 382.8 pound made 608.8 pounds of fat at of 8109 , and Brownle 816224 . The cows were just a pront over foed of but the man wasn't. What they needed year betore man to kive them a chance, and when was a real each pald her originial cost, and when they got I the year, and each put $\$ 45$ into the poed bill for fellow that gave her the oppartunity. So before we look for the mote in our cow's eye, let us plek $\square$ Burning Corn.
There are still other Items in eare whleh affect pronts, such as water, ventilation, and temperature Is at the same old price-free for the taleing. Water it seeme, because it is free, we do not want to ret the oows very much of ft, but raise hallelufah about the price of feed which is not of more importance than water, If we had to pay about 10 cents a lon for water, we would probably try to get our cows to drink more of it. I am wondering If any of you are burning corn fin your stoves this winter; if so, go ehead and make your sows drink fice water, it is prantically the 'rame thing. The cow uses corn,

## BOYS AND GIRLS AND FARMING

FARMING is fuily as much a boys' and duction. if the it is a problem of production. If the boys and girls have not been interested in the farm they will Ilikely leave. That means the end of that farm home in 10 or 20 years and a fienant will likely follow on the farm, and the ones whe should be on it will likely be in towr work ing for wages. That farm home has in e meneure teen a fafture. Glvn the boys and girle on the farm recreation; a soolal oentre is ono solution. Give them a goad consoll dated school with its many advantages, and give the boy or girt a chance to learn that the farm produces things of value to inom by letting them have a pig or a celf or acre to care for as their own and to market as thelr own, and then have the procesds to spend as they choose. Thie develops the ownership idea and the spirit of independance. When the boy or girl to given noththe to ratse and mariket as their own, the hired man or dependent attitude le too often developed.-W. C. Palmer.
barley, and other carbohydrate feeds to give her body heat and energy, and if she has to give her to 100 f ounds of tce water a degrees ntit warm up 75 to 100 founds of lce water a day, it takes some fied.
If we are going to burn corn to heat fee wnter It we are going to burn corn to heat jce water, wa of the cow, instesid of more to keep up the warmith of the cow, instead of nailing some strips over the cracks to keep out the cold. Seme people, oviltaitly after millking as plan to cool the mille as quickly after milking as possible, keep the tharns at the thesing point and I know of some barns in which I am wondering how and freeze the milk in the teats. I am wondering how many of you wortld he sltting cold concrete floor no heat. Yet we put a cow on a and lock ft , and say, "Now head in an tron yoke from this fead." Whay, "Now make ve a lot of mille hrom this tead." While she cans - get away, she ts the first law of nature" and that self preservation body is well warmed before she will see that her feed into milk for the before she puts any of that cement, a peund of hoss. With the exception of barn equipment, lumber, will buy as much modern as It did before the war, and the building material feed instend of decent butlatnge fellow that uses keep hifs cows comfartable will and good care to through lossea in the business, get his own reward to be arrested and fined by, the further he onght for ernelty to anfmals, and by the Food Adminis.
tration for wasting human

When Buying a Fanning Mill A Few Hints re What to Look For

CHOOSE the mill that will produce the best grade of sesd.
Seat th
over-stimate the value of its lasting guallities not mill that will clean and grade well will pay for itself In a aeasot or two.
The capacity of a mill in bushels per hour should a few hours, even with the alowent It takes only all the seed used on the the slowest mill, to clean son. Don't sacrifice gitality of farm for the seat netther should the power required to for speod. be given too much consideration other to run the mill equal, though, the easlest running mill shovid be chowen.
See that the sievas are wall made and fit snugly Into the mill ao that there is mo plane into which The mill shonld may lodge.
ing from one kiad of grain to anothent when changThe ease and rapidity with
arain leaving the thopper which the amount of important matter. It should be be controlled is an or regulate the flow of grain to the slev to shut off hand while turning with the other, It ene with one turning the mill in order to close if one must stop steves become flonded and poor work resultser, the an advuntage leo the person turning the mill it is able to see the work the sleves are doine mill to be Preterence should be given to the ding
simplest and best arrangement for bagging with the
It fe et grant advantage to deal with a firm
guaranteo to see that the mill is fitted firm who will per sieves to handle the grain for whith the pro guired. When you buy a mill give the firm to is reatand you will send them samples of your to underyou will expeet them to sond the boet seed and eleaning it. if manufacturers would best sieves for few standard sleves need be supplind with eto only a A large collection of sieves supplifed with each mill. apt an advantage unless they are spectally adapted

# Why the Price of Dairy Produce Has Advanced 

The Stand of the Producer in the Price Controversy-By Prof. H. H. Dean

I
N Canada, the unit of value measures is the dollar. The whoie question of advancing prices
might be dismissed by saying that the dollar has decreased in purchasing power; or that dollars hare more plentiful than food in the torm of milk, butter and cheese Many of us find it dimitult to realizo that a dollar has varying values, espectally when but food we must have.
abor is Necessary
Practically all food comes out of the soll, through the agency of plants and animals. But these of themselves do not produce food, except in very limited quantities. In order to get the largest and best results in food production, it is necessary for man to apply labor and skill to the soll, in the growing of plants, and afterwards in feeding these plants to animals. Dairy products require an extra am ount of labor and special skill.
thod of procan writer says: "There is but a single certain that the nutrition of our people will be safe uarded, that isurint our people wind be ale is present extent of development. Actually it should be considerably increased, but it must not be permitted to decline. If it does, the United States will not long maintain its position of supremacy in the fields of human endeavor requiring both physical and intellectual vigor." The same is true for Canada, but how can this be done unless our dalry Industry be supplied with plenty of skilled labor on
the farm and in the factory? And this labor must be the farm and in the
The writer goes on to say: "Milk produc-
tion cat rest upon a philanthrople basis, but must tion c be a paying Industry. I want to emphasize that the public must allow the price of milk to advance so
that the induatry is profitable to the dairyman." In the foregoing we have the essence of the causes of advancing prices for milk, butter and cheese. Dairy. Ing must be made profitable for milk producer, manufacturer and distributor, or they will go out of the
business. And under present conditions of great business. And under present conditions of great
opportunity in other lines, the question of making opportunity in other lines, the question of making
dairying profitable is doubly important. One of the dairying profitable is doubly important. One of the
first causes of advanced prices for darry goods is the first causes of advanced prices for dairy goods is the
increased difficulty of securing suitable labor and the increased cost of all kinds of labor. Other fields are beckoning to dafrymen, some of them very attractive as to hours and wages.

Cost of Feeds Advancing
A second cause of advancing prices is the increased cost for feed, cows, capital, and overhead expenses on the dairy farm. The consumer finds it difficult to realize that oats have advanced from about 40 cents per bushel to nearly double that price in the
last three years Barley, ollcake, cottonseed meal last three years Barley, ollcake, cottonseed meal
and bran have advanced in nearly the same proporand bran have advanced in nearly the same proporin price are grass, hay and silage, and the reason for this is, that as a rule these are not sold from good dairy farmis, and except hay, have not market vaiues like grafn and other feeds used in milk production. last year. Good'grade dows now sell for $\$ 125$ to last year. Good grade cows now sell for $\$ 125$ to tichally good grade coiv mold - for over $\$ 300$. Purejohally good grade oow hoid tor over $\$ 300$. Pure-
bred cows baiden not advanced In thes gatne ratio as bred cows have not advanced in the same ratio as
tive grades, but registered cows havingorbod records to "back them," command very high prices, while?
dairy sires with "good backing for several generaLions sell for unheard of prices. One sale of such six months old.
Owing to the Increased demand for caplal to of various linds. armars are fading inere ditl cult to secure capital for legitimate expansion and improvement on the farm. One Ontario farmer reported in December, 1917 , in an asriculturat paper as follows: "I have ten hogs about 100 lbs , each Since my corn is so poor, I dectati to buy shorts to finish them. I got the shorts for $\$ 44$ per ton, wholesale. I have to borrow the money from the bank at about elght per cent., to pay for them. I thi k this eight per cent. business is pretty hard on the poor man. There are lots of times that the poor man would buy both hogs and fved, a other hi 38 , for

## The realization of the Berkahire Boar That Sold for $\$ 10,000$. <br> 


that matter, if he could get the money on reasonable terms." It would seem as if one of the ways in which dairy products might be hindered from further ise in price, would be, to furnish cheaper money to the tarmer. Farm finance has not received the attention of capitalists which its importance deserves. roo often the farmer has been regarded as an "easy mark" for the modern shylock. The bat effects "o such a policy have not been realized untll the present world-food-Bhortage brought it to the front.
Expenses for machinery needed in growing and harvesting crops, for filling silos, for cans to deliver milk, for purchases, food and clothing, and for every other operation on the farm nave advanced out of all proportion to the advance ' In price recelved "For dairy products, hence if in bo wonder that some farm: ra are growing discouraged apd seling their cows. All these thinge have toade in the price of mills and the foods manufactured from mill.

Dairy Supplies Gone Up.
Butistrere are other things which hive caused an increties in priees of milk-andite peodscts. Amons these may, be mentioned the extra cost for labor and, sup plies in manufacturing mils into condensed and powder milk, cheese and butter. To mention only a few Items: From a dairy-supply firm, the Dairy Department of the 0 A. College purchased in De cember, 1913, two gallons of cheese color tor $\$ 3.50$; in De cember, 1917, we paid $\$ 3.75$ for one gallon of cheese color from the same firm. In De cember, 101才, we purchased 81 x gallons of rennet for 811.70; in December, 1917, we pald $\$ 7.65$ for one gallon of rennet. In 1915 cotton used In cheesemaking was bought at 5 /he per yard, and starched cheese caps at $\$ 7.50$ per 1.000; In December, 1917, the cotton advanced to 18 e per yard, and the cheese cap circles to $\$ 12$ per 1,000. In 1915, sulphurfe acid for milk-testIng was three cents per pound, now it is $61 / 2$ cents
per pound. The list could be
of this article says: can be predicted says: can be predtcted with a knowledge of the degree degree of accuracy from dairy products. I venture to which they consume dairy products. I venture to assert that it is the has the good influence on the promotion of the virile qualities of the people." Yet we find con sumers cheerfrilly paying 30 to 50 cents par pound for beef and bacon, and grumbling about the price of cheese at 25 to 30 cents a pound, whereas one pound of cheese is worth two pounds of beef, has practically no waste, does not require cooking, and does not readfly spoft. Mttk and fts products are among the cheapest toods which can tbe purchased at the present time. - We shall never again see "five cent milk," "20-cent butter," nor "15-cent cheese," Other-foods may get lower in price as measured by the dollar stanidard; but fine dairy products, never A nation thit turns to cheap substitutes like "oleo," "filled Cheese," and "vegetable mill has taken the firitstep to wards degeneracy becanse th se do no contafn the "vitimfines" so essuntial for making a strons race of people.
Mthe fs d' cheap food as compared with other foods. "Mik at-18c" Der quart represeats 699 calories. Steak at 35 c per pound represents 260 calgries. Chicken at 33 c gives 283 calories, veal at 35 c give 272 calories, salmon at 20 e gives 300 , and salt mackerel at 35 c gives 330 calories," says Prof. Pear son, of Ilifnols, U. S. A.

The dafry farmer, and the dairy manufacturer, Who work long hours, and runs considerable risk for capital invested should be encouraged by reawill insure a good supply of "ulfe meat" for and export markets suppiy of "ife meat" for home and export marketa. The dairy industry has now a great honest dalrymen. No pothers nere wamber pays to pay a good price for a good article of food pays to pay a

Are any of the following operations not yet at tended to? Testing seed grain and corn: cleanins seed; mending harness: increasing grain intion for work horses: sharpening plow points, harrow and cultivator teeth, renewing broken and worn parts of drill, cultivator and roller: making a couple of spare whiffetrees; sharpening discharrow blades; replacing worn and breken cultivator and harrow teeth; cutting summer stove wood: trimming colts feet; pruning apple orehard: hauling manure; preparing the live stock for the spring.

## Mechanical Appliances for the Dairy Farm

A. M. Zoeller Uses a Tractor, Milking Machines, Gasoline Enjines to Reduce Man and Horse La'Jor

Tothe mechanically
ineliaed, an hoar or inclised, in hoar or Mr. A Wo on the farm of be full of interent. Mr. Zoeller is working 300 acres of rieh clay loams that a couple of miles from burg ln Waterloo conizThe whole of this big farm. is devoted almoit exelus. ively to datrylige The crops to drodueed on the The crops produeed on it, and
almont every acre is under the plow, are deaigned for the feading of the dairy berd or the hore


The Zoeller Homentead.
which are the principal alde
converted into a filished acticle. All roughages are farming ealls for a maximum article. Such a system of the scarcest commodity on Onterio labur, always Zoeller has had the unual dimiculty io farms. Mr. and is endeavoring, so far as possible securing men, rr chinery for man and-horee-power, to substitute this he has progressed in mechanical, and in doing ably further than most others who are trying considerthe farm labor problem in the same way to solve The tractor has been an importe way.
working of this farm sluce the fall of 1915 In the farmers win forget the wet, late harvest of that year Mr. Zoeller found himself with an immense atyour. of fall plowing to do, but with his frorses worn ount ,y the heavy work of the muddy harvest, Ho in vested in an 8-16 tractor, and a sang plow with in 14 inch bottoms. It did not take hlm long to ditheover that 14 -inch bottoms were not adapted to heavy clay land, but when fitted with 10 -inch bottoms, heavy tractor three furrows hree furrows under favorable conditions, or fust
two in real hard work with thing wo in real hard work. With this outfit Mr. Zoeller pas plowed as much as eight acres a day. Last spring horses were used only on the grain arlit fn puiting in the crops, and in the working of the 300 acre farm the tractor has made it possible to dis-
jenge with two teams.

## Tractor for Belt Work.

work. As a part of his farmer is not limited to field has a threshing machiae, a chopping mill Mr. Zoeller wilage blower. All of this power ated by the tractor which dellvers 16 phipment is oper Just how usefut is this phane of the tractor's wo belt. indicated by the stto capacity on the farm work, is nection with the two sets of building farm. In concement sillos, $16 x+45$ feet ond buildings are two big nenting these are two stave silos $14 \times 25$ and 18 upplefeet. Altogether fie acres of corn are grown and nsilied with the help avaiflatie on the grown and The dairy herd consists of 55 cows them on a larger farm of 200 -neres, and 15 are 40 of tored in the buildings on the original 100 acres quarsuch a herd as this, millking becomes the biges. With most difficult probilem of all. Mr. Zoeller seely and our years ase, when he purchazed a millking machin with six units for the larger herd. Since then he hes purchased a second outfit for the smaller herd, which peaks well for the satisfactory service given by his arst machine. One man does the mifking and another the stripping "We can milk 36 cows in one and a quarter hours," remarked Mr. Zoeller, "end if are real busy one man can do the work alone." Alive h.p. ganoline engine operates the larger which the buildings are lighted, separates the from pulps roots, pumps water, and so forth. In connec, ton with the dyname there is no storage baitery visine during choeller, "it is cheaper to ran the cligine curiag chore time than to keep up a hulf a dwo to fveras. The dynamo has now been running ran for four youry daily for five or six years, and it ran for four yeais without one cent of expanse." On the smaller farm there are two engines, both two h.-p. gasoline, designed to pump water and run
the milling machine.

Limburger Cheese a Farm Product.
The milk from this big dairy herd, and some purthased from neighbors, is munufactured into cheese right on the farm. Years apo Mr. Zoelters father Canada for Limhurgar and might be developed in mall cheese factory, which other fancy cheese. The conveniance for mary, which he erected, has every cellar undernanth Fancy chense a sood euring be market is continually sromine are made, and nured ma that he finds growing. Mr. Zoeller asstheese decldedly more prene maaufacture of these ond his milik to there neiphitiahie than it would be to into Canactlan cluediark. The market to be made varieties is found in Kitchener, Toronto The fancy

Zoeller followed a plan painting of them Mr cation where old and open sidis capabie of wide applithe first time. He went directly being painted for mille and purehased the settling to the linseed oil These settlinge are much heavier and the oil tanks. the regular paint oll, and when mixed wither than quality red ochre, make a paint with pinth medium capacity and mofe durability than where a thinner atl is used.
"We lirst had the 100-acre farna," Mr. Zoeller told demasad for prove to the station. "We found sueh a the 200 acres across the rond Ave that we bought arily to further develop the Holstein busineas, prim. then we have becn using the naturnt ineroass, of our pure bred Holstains, Her farm. We now have 110 pure bred Holsteins, the development of which from now on will be the main feature of our worle"

## Figuring Cost of Production

The Importance of Considering Depreciation JAs. R. METCALF, Peel Oo., Omt.

I'Have just been reading some of the free litera-
ture distribete In one distributed by our various Governmentagood on methods of figare found something really of farm products. ignoms in on one point that practically every farmer graph is as followg his year's accounts, The, para"Definite follow
which enter into the cost of the legitimate chargen marketing is an abholute production, handling and pormanesey in absolute exsential to siccess and tooked for a masmess, some of these may be oven operator may ehas, for example, depreciation. The fudgment ay shut mis eyes to them, but the day et enterprise a waits him. Many a seeminsly somid take all the expen wrecked because of fallure to systems of expense items into aceount. Accurate are now of cost accountiag in business enterprimen to protect the stan in several States, in ordex the restricted interests of inventors, of course, in not have to protect awe individual dairyman does own interests he prety one but himself, yet in his do business." he ought to know what it costs him to We have a
tion. Some years ako a youns illastrates the contenOntarlo county. The young man bought a farm in ings were in good she buildfor the nest few shape, and young fellow made living and paide an his good debts, Imclualing the interest on a rather large motenest He thousht he wartgage fairly well. He was doeng intereat payments withong difficulty, so the sire of the mortgage did not worry the As he was not possessed him . more ambition than the nver age, he had no incentive to make a more incentive to study of himore intelligent greater expenditure or a energy. He was just drift ing.
Suddenly he woke up to an be reahingled would have to neveral humdred a cost of Some of his machinery was Wearing out All alang be thad been considering that he was making ends meet. All along his buildings had been depreciating, but he had made no proviaion for their well painted, and in the
nd aeveral othet Ontario of the farm factory that Mr. Zoetler did not that to mention is that the Whey is available when feeding the calves for hogs. Of the latter, nbout 109 are matally on hand. Zoeller farm are usefu but not elaborate. In one most of they difier from most of the old buildiags in the country. They are

$\qquad$


Tof Prof. C. Larsen 108 purchaser of the purebred sire to head a
conmon scrub herd ahould be witting to 10 or A ruanomable, price 15 and be witling to pay kind of a sifro in not a naed not fear that ther rishit
bull may eaaily bull may easily niro 30 doumphters durint Such a yonrs in the herd and each one during the threes
pounds of buttertat per yany prodice 50 This thereased protat ser year more than the dum. pounde of butterat per year and this bittertat is worth alout 8600.
These daughters should make this increased production for at least eisht years, The total value of
this increased production of these prade- daush ore over herub dams would then be st grade-daughters dollars more or tess is not the big guestion hundred herd header is to be purchased big question when a can I reasonably expect this heri bulg question is large production to his affspring? bull to transmit There inherited qualliespring
average buyer usuaily pays ior wot visible. The
This is often where the mistake is made. can see,
The ble qualties, vis., large milk and mate. The invisition, which are hereditary, are the valuat producThey should be eombined with good vape inable ones, $\$ 900$ for a mate culf somed with good type. I paid I paid $\$ 50$ for what I could see in the ealf ane that for what I could not see and what I could net and $\$ 850$ It in eften adviaable to purchase could not handle sire in preference to a. young sind untried and tried bull old enatigh to have a large number of one. A large producing daukhters ve evectlen of uniformly sure investment.

One pint of formalin is sufficient to treat from 30 bushols of potatoes for scab.


A Brown Swias Cow with a Creditable Recard.

 with a troned be kis aimitreoun of yorsing from 14,000 to

## 

## Take Your Time

$\mathbf{N}_{\text {Your reason for buying is not so much to }}^{\text {EVER buy a cream sepato }}$ Your reason for buying is not so much to get a cream separator，as to get all the cream from your milk，all the time．It takes time to pick that fent Send to reputable arms for catalogues and study them
carefully．See which machine requires the fowest and exmpleat adjustments；which has the best oiling system；which is most sanitary and most easily cleanod which is so woll mado that it will undoubtedly do good work for a lon time．Go into details，and pick the best two or three of the lot
Then ask for skimming demonstrations to determine bow causo the wrong machine can wasto more cream than it is worth，while the right one will put money in your pocket every time you use it．
When you are through
a Lify Cream Separator because the Lily will prove to be first an all these counts．Wo will send catalognoes on request， leaving the final decision to your judgment．Writo to tho International Harvester Company of Canada，Limited WEsT－Bment Bousis



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thing you have been buyi have bean soaring，but by careful management
we are able we are able to furniah Gison Wigines at remarkably low prices．write
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semp for fres book Hameater＇ ane Settlers＇
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AA Defence of＂The Field Method＂ ＂of cating Tuberculosis ${ }^{\text { }}$

A Reply to the Criticism of Prof．Gillette－－By Welltho

IHAV震 been much faterested in brief article in your tegne of Ferm
and Jairy of February 14，1918， and Dairy of February 14，1918，
entitled＂Eradicating tuberculosis from the dairy herd－a criticism of the Field method，＂with reference to a summary of methods followed by
Fred F．Fleld at Dutchland Farms as appearing to the Issue of October 11． appea
1917．
The Field method assumes that the foundation herd is suspiclous－that I may even be made up of many＂re test may be applited to this hard as is stated be applied to this herd as is stated in the October article（Sec tion 14），＂Never allow these calves to mingle with any reacting animale or any cattle，old or young，which you hav＇：assumed to be reactors．＂Fup ther on，page 1088，October 11－＂It well to have your breeding cows test ed at least once by a competent veter marian with the tuberculin test．＂
Whether tested by the tuberculin method or not this herd may be as method or not this herd may be as
sumed to be made up of（1）healthy animals，（2）animals that under the tuberculin test might be regarded as reactors，but owing to recent or light infection not＂spreaders，＂（3）animals that may or may not react to the tuberculin test，but that may be ＂spreaders＂of the worst type．Without showing elinical symptoms．
This foundation herd is maintained under at least partat or semilisola tion conditions，It will be readily may not be dangerous at the present time that one dangerous condition always present and that a secend may arlae at iny arkeaders may be present without showing clinical symptoms as already showing clinical symptoms，as airead mentioned，and uat coalors，as ind cating recenty or sighty intected cows，are always liable to become must be tsolated，in the strictest must be fsolated，in the strictest
sense．or destroyed as a distinet sense，

## Tuberculin Test $95 \%$ Efficient．

The tuberculin test may be conced－ ed to be $95 \%$ efficient in detecting the presence of affected animals，as proven by post－mortem examination． From the observations of the writer of numerous instances，indisputably the tuberculin test fails to reliably． Indieate the disease in advanced cases where no ottinteat evidence is appar ent，thus passing over the very indi－ viduals that it is most urgently de－ sirous of segregating or destroying． and rendering．in the final analysis， the results obtained Thmany cases you might contrast with the claim of Professor Giltette in the final para－ graph of his critielsm in your tssue of February 14th．The man who relles on the tuberculin test to build up a clean herd may isolate or destroy many cases of light or recent infection and not spreaders，thus decimate his herd，and at the same time unwittingly retain the very source of infection that has polluted and that will just as actively continue to pollute his re maining clean herd．

The sputum test，whether appHed as an auxiliary to the tuberculin test， or used alone，should indicate whether the cow is passing off from the nose and throat the infections tuberele bacllif，or，in other words，whether or not she is a ．＂spreader．＂Further． while an affected cow（or a reactor） may not at the time be capable of dis． may noting the disease，she may at any time become so．The sputum test applied regularly should indicate
＊The writor of thiss artiele has had an
extenative experience with mothods of extenatye experience with mothoda of much perhaps an any man in Canada
in the present lantance，howover，he pre－ fers to owrite under a nom do plime．
just when such a case ceases to bs dor－ In and becomes a mentice．
In th：foregoing connection it is just doubtrul whether isolation of ru－ be the first step in a proposed clean－ ap，particularly where this was being considered from an experimental standpoint．Employing the Field sys－ tem，this would mean the establinh－ ment of an extra herd，or four herds all：1．The clean foundation herd as ndicated by the tubercuilin test． 2 ． The herd in progess of building－up． consisting of calves from the founda－ tion herd that have been strictly las． lated．3．The reacting herd as shown by the tuberculin test．4．The herd of spreaders（where such individuals rom ane two or up of animals draw． from one，two，or all three of the fore－ going herds，in actual farm practica uch procedure would be utterly im－ possible，so that the Field syatem cems to the in this regara．

## Keeping the Young Herd Clean．

 No comment ls necessary regarding the clean herd that is betng buitt us foundation herd．It may be noted that npplication of the tuberculln test this period（say as yearlings）will de termine the progress made in will d termine the progreas made in＂clean ing up＂．Pasteurization of all mith cious＂herd is the keynote．It wonld appear that the sputum test should also have a place in safeguarding th herd，applied from time to time thot herd，apptied from time to ume both and to those of faecal nature or of thi intestines，proof belag present that milk infection in the，calf would Hikely be of mesenteric nature．Secretion valuable from the diagnostio view point，therefore，in such cases would be available only from tateatina sources．The argument advanced by Pro－ fessor Gillette that＂even with the fre quent application of the sputum tesi the danger remains，the amount de pending directly on the period of tim between tests＂is undoubtedty true It would seem to the writer，however that any test that would indteate ro Lisbly the virulent cases，even if but Infrequently applied，would be a tre mendous stride toward the sims of the tuberculin test，aims whech，a previousily emphatically far from teing achieved．
In conclusion，it may be stated that the present status of the bovine tuber culosis question is not widely apitit clated．Undoubtedly foolation is dim fult and not conducive to saring labor，pasteurization is a relativel coseration operation botur and nositic teasts ts erpensive and attended by the exercise of great care and pat by the exercise of great care and pat ence．The breeder，great or small however，who aims to breed a clea mon sense method，realize the nature of the disease from which he desire of the disease from which he desire to free or protect his herd and＂kees everiastingly at it．The Feid metho undoubtedy has defects，but it has beerience，is sound in theory and would perience，is sound in theory and would seem to have given results．The crit cism offered in your February 1 1th tirety．

The new Pure Maple Sugar law gives the publle protection agains adulterated maple products．Th scarcity of cane and beet sugars this year will also make it less profitable to mix them with maple flavoring ex tracts．The markets of Canads and the United States are eager for pure maple syrup and maple sugar，and the new law has restored publle conts－
donce．

## Farill Mangement

## Killing Couch Gress

H:VEs some couch grass whileh ipened
and was threahed along with my Erain this pait scason. Ab I Hith my grain
strew for feed and bedding, would the edvise hauling the manure, wo the land
 Crassi=c, C. J, Lambton Ce. Ont. spread from seed, although the usual method of propagation is through roet stalks present in the ground. In cases where couch grass seeds are found in the feed or bedding, I would suggest piling the manure until it is well heat. ed rather than spreading it directly on the land. Pasturing has very Ilttle affect on killing couch grass.-A Leitch, O.A.C., Guelph.

## Cedar Block Foundation

I $\begin{gathered}\text { N your issue of Jan. s, I saw an accoun } \\ \text { of the dairy barn of Mr. } \\ \text { Vante }\end{gathered}$ Yantiteek Hill. As I arr. Hennick, of a cow barn in the apring, and cement and number are so high in price, 1 would like endar blooks length Msed in the eonnick cut the his basement.-T. C., Orenville Co., Ont. The evdar blockes used to make the foundation of Mr. Rennick's dairy barn were cut 16 Inches long. They were placed in lime mortar with one cut end set to the mortar with one other to the inside of the cow the This gives the wail from cow barn. the appearance of being built of round cobble stones or boulders of makes a goodtooking wall, a very Warm, dry wall, and according to Mr. Rennick, a cheap one.

Seeding Alfalfa and Wheat
T His last fall we seeded alfalfa along to re-seed poor start. Would it be wise We have in the spring on the last rediow? but never alfalfa. red clover in this way Whe would like, If ponsibie, to follow Wheat after corn. I have heard that In is frequently drilied in between the corn rows with a one row seeder, late in the
season. Would this phan wofk heret-F.
E. E. Halton Counts. Ont K. . Fiarion County. Ont.

I think it would be quite wise to reseed your atfalfa in the spring, on the last snow. This method works out extremely well with red clover or alsile, and should do equally well with
alfalfa.
It is not common practice in Ontario to drill wheat between corn rows in the fall, I notice, however, that this method is quitte succesifuily used in the corn growing sections of the Unit. Ad States, and I see no reason why it should $n$ bt be successfully applied in this country, if the corn ts entirely re. moved from the field by the hatter part of september. There will be lett, however, in each corn row a small wirip of land which will not be seeded With wheat. This makes the field look rather ragged while the wheat crop is
growing growing. It, would certainly do no harm to attempt this method of seedManagemen, Lecturer in Farm Management, O. A. C, Guelph

## Seeding Sweet Clover

$]^{18}$Aowing wive-acre fleld that I intend oweet clover for after pasture. whth there is tho sweet elover grown in this part of tee county, and no one knows any-
 tan turn the cattle on the field also, if if in clover for the nest yearthout hilln: the The usual method of seeding down to sweet clover is that proposed by our subneriber - along whth some mpins grain. There is no reason Why timothy should not be seaded along with sweet clover fest as it with red elover. Much more clover
seed, however, must be used in the
case of sweet clover than of red, the amount commonly recommended being 20 lbe. to the acre, although befairly full stand will be secured with
15 the 15 lbs.
Last fall we visited Mr, G. A. Brodie, of Newmarket, one of the most extensive growers of sweet clover in Ontario. Mr. Bradie, we found, makes a praciluz of pasturing his sweet elo ver, stands in the late summer after the grain crop has bcen removed, and where care is taken not to pasture too closely, no harm rosults. He shovred us one field that had farrled cuite a stock for a while, and stil showed sufficlent strength to protect it through the winter. He had dief

> culty in drying out the sheaves of the
sweet clover to the great length of

## Pasturing Spring Grain

 hat hise beent well plowed for spring The
grain. 1 have been thinling or grain. I have been thinking of seeding
one to clover alonf with
the the other 1 thougtt with the oats and
heavily to and heavily to grain and of nowing very
coavs in turning the coys in for pasture. Would the the cows Mot destroy the Erass seed plants?-W An annual pasture of spifing graina has been used for several yesrains Guelph, the lasi being seeded in each case to red clover. Mr, Leltch each farm manager, assures us that in all cases this method of seeding down ing of the cows a success, the tramp-
wise improve the stand rather than otherwise. Last spring on our own farm we night pasture with near the barns for and one-half bushels mach of of one barley per sere and each of oats and red clover seed. The cow pounds of that fleld all summer, being pastured only directly after rains when it oft feared that their tramping might was dle the soil. The clorer made pudcellent growth, much better than it would have done had the field been cropped for grain and went into the winter in splend'd condition. We the no reason why a field should net see cropped.-F. E. E. .
Heavy soils, if well surface drained W. H. Spry, BS.A.


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No. 7400 horse and catme feece 22 inches apart 7 -line wires, 40 inchese high, stays
 evenly galvanized hard ateel wira.

50c
No. $7480 \underset{7}{\text { holine }}$ mind cattle fence 22 inches apart 7 - line wires, 48 inches high, stays Made throughout of fuil gauge $\mathrm{No}, 9{ }^{2}{ }^{2}$ 10. 10 . evenly galvanized hard steel wire.

51c

## No. 831 hog pence

163 inches apart, Spacing 81 inches high, ataya
Made throughout of full gange N. 4. 5. 6. 7. evenly galvanized hard steel wire.

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No. 1048 ceneral stock fence ${ }^{161}$ in incheo spart 10 line wires, 48 inches higb, stays No. 8 , Made. throngout of fuil gauge wire.' Price, per rod...d.t. gard steel 75 c No. 1150 GENERAL STOCK FENCE stay 18 inches aparine wires, 50 inches high, and bottom wires Na .9 gange with top wires No. 12 . ${ }^{2}$ Price per rod 10 other
25-1b, bundle No. 9 galvanized brace. ${ }^{26-1 b}$, boo (any size) galvanized fence $\$ 1.60$ 4 -point galvanized barb wire per 80-rod 4 -point galvanized barb wire per 80-rod Ideal" stock gate, 14 feet long $x$ 6i inches 5.50 "Idean farme $\times 48$ inchate (close mesi) i2 feet 6.50

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as represented, to be made to be made exactly should be made and to give you THAT VALVE噼ing.
fence in Aand" argock of all styles of "Ideal" same day as reecieced, whill ehte stock lasterdere the


Musix wats



## HORTICULTURE

The Food Controller and Fruit VENTURE to nate that the Vood
Controller wil bo the greateat sin1 Controller win be the greateat sin-the trilt crop of 1918 , It is expected that we will have a moderate crop of apples in Canada next seasoo. I an.
pot looking for a bly crop. Labor connot looking for a that farmers are devotiag thetr energies to other lines of ngriculture, whith are not so speck lative as that of fruit production. Orchards which a few years ago were receiving every attention, are now
neglected and deserted and the own ers maintain that the tabor situation is too acute and the profits from ah take a chance and they are therefore giving their attention to the other parts of the farm and if they are able to make anything at all from the orchard, they are just that much ahead. This spirit has prevailed since the war
broke out. Every spring the statebroke out. Every spring the state-
ment has gone out that there will be no market for frult, and yet the price of fruft has steadily advanced until that it has practically stopped consumption.

## ubstitution Controller's poicy is the

 for the more concentrated foods such as meat and four and 1 believe that before next season's orop is liarvent ed, the perglo will be educated to consider it 5 national duty to consume fruit and vesotables in preference to the exportable stebles. If prices ars moderfis the consumption will be enormous and 1 helleve that Canada could have consumed two or three times as many apples thls year as they did. We hiave fmported amainet a duty of 90 cents per bbl., 376,414 bbls. of apples from the United States from the 1st of April, 1917, until the 31st of January, this as against 294300 obls. for the same perlot last year. This frult should all have been produced at home. The average housefolder in our elties and also in our country towns fs not usint apples; the people are simply doing without them. not.because they do not want them. but because' the price has been prohiblitve owlis to shortage of supply In 1918 the frult growers must not ospect the high prices that prevaller this year, but I belleve that those, who give their orchards the proper care and pack their fruft in strict accordance with the requirements of the Inspection and Sale Act, have good reeson to look for a fair returs for the thme and money invested--D. Johnsan, Dominion Frult Commissioner.Best Varieties of Vegetables

OWING to the sararctly of seed many variaties of vegetables
this year it will not always be possible to get those which are de sired, hance the importance of order Ing earty in orfar to mitte mure of getting at least some of the best sorts: In the following list, based on tests made at the experimental farms and stations in Canada. several varieties of almost equal merit of some kinde of yegetables are suggested Bo that if It is not possible to get one it may be posalble to get the other
Beana-(Round Pod Wax) Round Pod Kbiney Wax, Pencfl Pod ani Podthe-Wax (Flat Pod Wax) Ward Brell Kidney Wax, early and Hodson Wrx- Inte: (Green Pod) Strlaeless Wax, late. (Gre Farly Red Valentine. Green Pod, and Early Red Valentine, early, and fetugee or 1000 to 1 , late. Lima and Pole beans are not very sat Isfactory except where tha season is lows and warm. The of. Dima are the mont satistactory.
Scarlet Runner is the most reliable

Pole bean but Kentucky Wonder is Bécts. Crosby quauty.
Bectas.-Crosy Egsplan, Dotrolt Dark Red, and Barly Model
Borecole of Kale.-Dwart Curled Scoteh.
Brussels Sprouta.-Improved Dwart. The Dwart varfoties have been found more satisfactory than the tall ones. Cabbage.- Warly Jersey Wakefeld, Copenhagen Market, eariy; Succeasand Drumhead Savoy, late; and Red Dutch, red.
Cabliflower.-Early Snowball and
Early Dwarf Erfurt, Danvers Half
Carrot-Chantenay, Danver Long, Early Scarlet Horn for extra early.

## eariy, Celery-Golden Sett Blanehing Coll

 (Parls Golden Yellow) carly; Winter Queen, Evans Triumph, and Per fectlon Heartwell, late: White Plume for coolest parts.Corn.-(Extris early), Early Malcolm, Malalyoff, and Peep O'Day; (early), Gohten Bantum; (mediam), (late). Country Gentleman and Stowells Elergreien; Squaw for contstowells.
est parts.
Cucumber.-Davis Perfect, While Spine, and Chicago Piekling.
Eine, and Chicago Picking.
Egh Plant.-New York Imphoved Egg Plant.-New York Beauty.
Long Purple, and Blaek Beauty.
Lettuce:-Grand Raplds and Black Seeded Simpson (early loose curled), Seeded Simpson (early loose curlod), Iceburg, Giant Crystal Head, Improved
Hanson, Snlamander, All Heart, and Hanson, Sulamander, All Heart, Crisp as lee (hread or cabbage). Melons, Musk-(Nutmeg type) Long Island Beauty, Hackensack, an Montreal Market: (yellow fleshed) Emerald Gem, Hoodoo and Panl Ross, Cream, and Phinney early.
Early Pel Wethersfeld Prite Tars and Early Red Wethersfieli. Prize Taker expeciaily for transplaaking. Eariy good whe the season to short Duteh good where the seavon is short. Dute when, If srown from seed, the cfiom When, if grown
may not madure.
Parsley.-Double Curled
Parsaip.-Hollow Crown of a good strain is the best. Intermediate is also gocht.

Peiper- Early Neopolitan of the large varleti w and Cayenne, Chill and Cardinal of the small ones.
Peas.-(Extra early) Gregory Sur prise: (early) Thos, Laxton, Gradas Nott Excelvior, Amertcan Wonder, and Sutton Early Giant; (second early) Sutton Excelafor and Premlum Gem: (medlum to late) McLean Advancer, Herolne and Stratagem; (tall late sorts) Telephone, Champion of Eng land and Qutte Content.
Radish--Searlet White Tipped Turnip, Rosy Gem, and White Ictele. Saletfy-iong White, Sandwich fs lands.
Spinach. - Victoria Thickleaved, Yimoflay
Squash.-Long White Bush. Summer Crookneok; late, Delicieus, Hubbard.

Tomntoes.-(Extra early) Alacrity, Sparks Earliana; (early and main Sparks Earlina; (early and main
crop) Bonny Best, Chnlts Early Jewel. crop) Bonny Best, Chaiks Larty Jewel
Iater good sorts are Matchless and Trophy (searlet), and IJvingstons Globe and Plentiful (purplish pink). Globe and Prentifol

Potatoen-(Early) Irish Cobbler or Eureka Extra Early; (main crop) Green Mountain, Gold Coln, Wee Mac Gregor, Carman No. 1. Early Ohio is
a good extra early pink sort, bet is not very productive.

The Ontario Agrieultural and Experimentat Union conducted 263 tests with potatoer fit 1917 . Only two varleties werv distributed, Estra Early Eureks ind Davies Warriop. The former had two per cent. more small potatoes, but the tuhers of this varlety scored bigher for mealiness when cooked. The yled of bushels per sere was 1678 and 147.8 respectively.


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with new nos with new nos
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ing the woadera Ing the woaders
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fons adapiation Holmes for slou nature to fte pl
fudge everyone fudge everyone
he wears, eorget new straight la mlo ahapen toes. ell human nature domes of thetr $\%$
place great stre place great stre
eyes, whether eyes, whether stralghtforwardly fourth button of consider a dange nwary young me ad to apply this t posite sex have nomberod elaborate system men If you have with tham. You atinctively. The a cold clammy an eel, has told, plainly as it he w the word "bewas stranger who sha of his disengaged tonhole at the falr musplefon. Remer everybody ls a frle probability is that e postas price of the postag mpually indicates difference to socia empty head. Of have acquired this becume scaree. ahake anything for at of abatractipis the furnace and th the precions rith a wreatier wa


## On Handclasṕs

WE hear a great deal nowndays about the wonders achleved bj medieal sclentists in remodel. ing men. In England we have an hos pltal known as "The Tin Nose Shop," with new hated faces are furnished And new noses, ears and eyec owa Aad with such marvels becoming cortifial lees, it is not strange that artinkial logs and arms are being ai store, like aimost every departmentshoes. Now so many gloves or gum good thing if you hartincial arm is a sood thing if you haven't the ordinary that it is a desirnble you may be able to with a hand made of hoid the reins wheels. Yousue of springs and cog whing a 17 -th may eveti be able to wing a 17 -b. hammer at arms oasta wha your new arm, as one soldier is reported to be doing, although this statemea. is, in my opinion, open question.
But a hand has other uses than acting as a hook on which to hang a fork handle. It is necessary in a handshake. What pleasure would a triend have in squeesing your mechanical hand? hie would always be afrald of breaking a pinion or a cam or something if the endeavored to be cordial. And then consider the disadvan'age of a non-conducting hand when a pretty giri and a summer moon enter into the case. No, though an artificial hand may now be usuaily regarded as a badse or honer, I do not think it wound be wise to have a natural arm removed (one having the capacity for handclaspe) just for the sake of proving the woaders of science.
universal gause is probably the most universal gauge of character in vogue. Here and there one comes across amateur detectives whe employ var tous adapiations from Sherlock Holmes for sleuthing elusive human nature to its proper lair. One will judge everyone by the shape of boot be wears, corgetting that one of the new straight lasts may often hide mis-ahapen toes. Another will classtfy all human nature by the bulges on the domes of their victims. Another will place great stress on the action of ayes, whether they meet your'a Atralghtforwardly or look you in the fourth button of your wafstcoat while carrying on a conversation. This 1 consider a dangerous test, for many unwary young men rho have attempt. ad to apply this test to one of the opposite sex have at the next can us been numberod with the benedicte. But the handclasp is different. No slaborate system is needed to clasalfy men It you have once shaken hands with them. You classify them inatinctively. The man who holds out cold cfammy hand that feels 10 te an eel, has told you hls mharacter as plainly as if he wore on his forehead the word "beware." The smooth stranger who shakes you warmly by the hand and Inserts the index fnger of his disengaged hend in your but tonbole at the falr is likewise open musplcion. Remamber "A frien to everybody is a frlend of noboly" The probability is that he wants your The scription to a farm papar your sub price of the postare, only 98 , cente. Then there is the limp 98 cents, umually indicates either hapreme This difference to social intercoitreme in empty head. of course yome or an have anguired this characterme may fin the last few years, slnce cont with become carce. years, since coal has become scarce, They are afraid to a ft of abstraction do the mame in the furnace and thereby tose with the preclons and thereby lose some of with a wrestler whon once shook hands with a wrestler when he was in train-
ensation, place you hand between the bunter and the hay in a hay press He didn't know how strong his handclasp was, but 1 can assure you it was the opposite of linip.
Priend. I good firm handclasp from a welcome when I come to hrip my hand in I Hke him to shake hands heartly when he is inviting me in again on my leaving. It shows the sincerity of his words. A man may lie glibly, but his handelasp usually glves him away. A man experfences many kinds of handela $7 s$ in his fourney through this "wale of tears," but the best of all is the handclasp of his sweetheart. Do you reanember how you used to thrill when your hands touched? And then one eventig you summoned up enough conrage to hold hers. But do you
ever hold her aand now, you old benestrenueus it would held some in these helpmate daya. Both you and your helpmate would derive strength for the cares of life, because you would eel you were tackling the tasks tosetber, hand in hand you see. Yes, a married coupleming", among - stald better understanight often lead to a able to nderstanding. Dad would be hands and so the weits on Eother's fully roses that housekeeping is not all saving dabor gasoline engine the kitchen and a gasoline engine would run the wash-

## Sam. Ray

The Nova Seotia Department of Agriculture has issued three bulletins on food prodaction 'which are avail plication. The first one deals ap wheat growing in Nows Seotls with second with been growing and the title of the third une is. "Greater the efficiency on the Farms of Nova Scotia by Using Bigger Implements In this bulletin an announcement is made that the government of Nova Sootia will pay a bonus of 25 per cent of the cost of two furrow per cent. bought in the province of Nora Scolla between now and the flrst day of May, I would spenk a word as to the I Hike Farm paper, as I take several. have, and would not be without it I F. S. Sharp, Kings Co N Thout it.-


## A Ford Car Takes the Place of all These Things

WHEN you own a Ford you can do away with many articles that are a source of continuous erpense to the man who atill drives a horse. For instance, not only your driving-horse and buggy, but the single harness, blankets, whips, currycombs,
In their phee pillorks, led-bins, etc.
Ford Car-complete in itselt It is is vependable, dignified, roomy cramped buggy that in itself. It is vastly superior to the narrow, idle it does not eat three mosiowly. And when a Ford isstanding after."

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More Work for Less Feed
 Pratts animal negelato Improven diseation heeps the bood neal siow vidke jour amoinan palta your Moner Paek If
Not
Gationed mixai 2 sM Claro-
ment
Teren
  3
 while he works


 and staffed with clean mid downy eurled
ooton, mindlated Whteh will not psekor
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## Protect Your Crops Next Season

Prepare Now for the Great Insect Offensive

T

## Entomological Braneh, Ottima.

 Hrovahout the country there Was a splendld respanse dering1917 to the cell for ineressed agricuitural production, Largor crops were ratised on the farms, and elty dwellers, by the cuitivation of gar. dens and vacant lots, contributa greatly to the success of Canada' efforts to relleve the world-wide efforts to relleve the world-wide food supples than ever is required next year, for keld crops are not only required to meet fmuediate human needa, but Incrensed production of hogs, dairy producta, and beef are dependent upon such crops.
The production of maximum crops effort on the part of the farmer, fruit grower, abd vacant lot eultivator, in order that such crops may be protected from the numerous pents that atlection means ropeat Crop proseet pesta destroy annually from 10 o 25 per eent. of att cropm हrown. The total lome to the country is enor mous; if we express the agrregate loss inflicted annually by inseet pesta to the fleld crops of-Canada in terms of wheat we find that the total lons is sufficlent to feed the entire population of the country for one year. Much of that loss can be prevented. At the present time it ta incumbent upon us to take every meane to prevent it. Insects can be as effective as enemy sibmarines in destroying food suypllies. Lilke submarines, they are in-
sidious in thetr operattone. They most be sought out and destroyed.

Order Supplies Now.
Now is the time to make prepara. tione for next year's offronsive. To bo prepared is halt the battle. Lack of foreatght and due preparatlon means disappointment anc loge. The greater cost of production and the zroater seed of more crops make erop protection all the more neceasary. Utiize the present quilet season to make plans for next year's campaign. Ac cording to the erops that are grown and the insects that occur in your ditstrict make preparationa now for pre-
venting thep venting their ravagos next season. Owing to the sudden demand during the period when laseets were active last summer for fneecticiden such ha lead arsenate and paris grean, a seri ous mortage oecurrod in many places with consequent higher prices This can be avolded if growers will obtain their reguirements before sprias.
ineecticides are the growers' am. munition, ample supplies of which are aecessary to a succesatol offensive. Fruit growers should now determian their requirements and take steps to
meot them. Growers of pot other field crops subject potatoss and tack should obtain mect to inmect the standard Insectieldes to meet their neods: arsenteals for finseets eveli an grasehoppers, potato heetloa eus worms and other caterpiliarn that do vour the follage: contact traseticldce suek as whateoil soan and alcotine nrenarations for meh faneets as plant llee or aphithe All mpritint mnehtr ery should be thorouzhly overtautad cleaned, and ofled in reatinees for wes when required in the spring ss the apring is a buay time for the as the Such Hmely proparntim wil minn mot only the saving of time-an timportant matter when labor ts mearce-but it will also mean the saving of crops, for a few days delay in applyine prevent. tre or control measuros will trequent. is result in serions losses from in. sect pests.

## Clean Up Rubbish

When it is possible rubbleh and trash of all widnde stiould be cleaned up and burnt. A clean farm, orchard, or garden means fewer inseot penta. or garden means fewer inseot ponta.
Weedy fences and fields and acoumtr.
lations of rubbish provide -hiding places for these crop destroyers.
It will be advisable to watch seeds of all kinds that are stored under cover, as these are subject to the attacks of many inseots, such. as weevils, ste. Seed peas and beaas should recelve special attention, and If they are finfected they should be fumigated with carbon blsulphitde:
In the spiting apecial attention ahould be paid to the careful prapara tlon of the land and time of seeding. Such apecial care will result in the securing of a more vigorous growth, and visorova plants can more successfully withetand insect attacirs
Certain insects are more readily controlled during the winter months In the provinces of Nova Scotia and New Brunswlek fruit-growers shoult make every effort to collect the winter Webs of the brown-tati moth; the law tilu owners of properties infested with this insect to adopt control
measures. Throughout eastern Can uda there is at the present time whesasprend outbrent of the white marked tusnock moth, which we ex peet to be serlous next year. Fruit growers and owners of shade trees should now destroy as many as pas sible of the conspleuous white egs clusters in which the insect passee the winter; they can be soraped of the trees, fences, ete, of swabbed With craosote. Much injury next year will be prevented by taring such steps durting the coming winter and early apring before the buds burst.
Farmens, fruit-growers, and others are urgently requested to make the fullest use of the affices of the Entomologleal Rranch. Enquifles or calls for assistance addresesd to the Domintion Entomologist, Department of Arriculture, Ottawa, to whom all com: aminications may be malled free of postage, or to any of the offleera in charge of our field laboratorles in the various provinces, will be given im-
medlate
attantion and all the belp medtate attention and all the help ponsible will be rendered to secure the protection of crops. It is the desire of all those officers to assatat to the fullent extent of thelr powers. Let them help you to protect your crops and thus Increase our food supplles
which are so vitally essential at the prosent time.

28 Years With Tile Drains

$\left.{ }^{6} \mathrm{X}\right]$HimN I left this instltution 28 years ugo, 1 was tired with
enthusiasm for tile dratise," remarked Mr. Nelson Montelth, of Perth County, speaking at the last meeting of the Experimental Union at put in 25,000 feet of tlle on the home farm with my own hands when I was doing my tiling we get four-inch the for \$12. five-ingh for sot, four-inch tile for $\$ 12$; five-inch for \$16. and three-inch for $\$ 8$ per thousand.
"We have had our investments re. turned to us many times over. spring operations have been earilior. The land is easier to work. The crops have been grained."
A couple of polnts mentloned by Mr. Montelth are worthy of nots. He has found that three frat is toe great a depth for tile drains on leavy clay soils. The land is so retentive of mointure that excens water does not mesch the tiles and the land does not got friable. His second pointer was, "If you ever have occaaion to lift tife that have been in the ground for some years, use agafu fmmedlately, as they will not withistand exposure to air or frost."

The method of curfig has much to do with the sitrength of cement field the. When cured in a ateam kilin the tile. are asually good. If eared by tile are usually good. If cured by spriniclag, a large per co

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 finvors in with the gra be tathent to Feedin W we feed him bout for have nixid hay, bu
Is neocas
in An excelle monu folste pounds; root ration compo ehop or oat
linseed oilcal of 3 to 5 pol the condition asually uawt of corn etrmt coots, hay an If the ensilay paratively would be wis grain oven at
and type of on how he months. and thrift of argely on the and his gene service. Such
ollcake are $\mathbf{n}$ of a herd sire

Feeding barn, hor house and poultry house:
owner frtirthg to tomal farm, In-
cludes it horses, is cows, is heiters,
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W

## tamily

 ouy all oum the price. One of you anisat aagn? Would $\begin{gathered}\text { ar } \\ \text { other cow }\end{gathered}$
The nelectio feeds for mille time governe able empply, for cholce tha bably of feede crushed oats
tained with tained with
the substituti feeds containt ents in cheape ble. A ration
hay 15 the wheat liran lbs, and oilica 35 libe of teotling well It is posaible may subititut feeds such as It it could be

## FEEDERS CORNER

## A New Brunswick Ration

WV mave atartnd to supply the city atated abrount of mave to shlp a I make up a muitable patton for the hlinaturnipa, bran, middilings and cottonseced
menl. My hay is ordinary of a very good feedingry meadow hay abould these foeds feeding content. How A ration for milleh cows composed A ration for milleh cows composed of materials mentioned which should be fairly satisfactory might be come posed of hay, 15 pounde daily; turnips, 25 to 30 pounde dally; and a meal mixture composed of wheat bran. tour parta; wheat middlings, two parts, and cottonseed meal, 2 parta; thi, mixture fed at the rate of one poung for every three and a half to four pounds of meik produced, varying, however, with In feeding turnips, care shonld per cow In feeding turnips, care should be talo en to give thene immediately after flavors in the mill. However, turnip desired to pulp the turning end it fir with the gratn in feeding care ahould be taken to feed at least onehate hour befare milting.-E, 8, A.

## Feeding the Herd Bull

$W^{\text {E }}{ }^{18}$ mave a repiatered Holetein buil ibse or therenbouts, Weishing How the we feed him? We have lots of shoulde, goot for the bull. We have aliso got good nixed hay, but will have to buy all grila.
is it neconary to feed gmin ot al

An excellent ration for an eighteen month Folstein herd bulf might be an followa: hay, 12 pounds: ensilage, 90 pounds; roots, 20 poands, and a grain ration composed of bran, 3 parts; oat chop or oat and lorley chop 2 parts: linseed ollcake, 1 part; fed at the rate of 3 to 5 pounds daily, depenaing on the condition of the animal. It is usually umwtse to feed large quantities of corn ensllage to the exclasion of roots, hay and grain, and enpactafly of If tive ensflage was made from comparatively ripe corn. I believe it would be wise to purchase and feed grain even at present prices. The slae and type of this bull depends larvely on how he is fed during the nex 12 months, In addition to thls, the rigor and thrift of his calves depends wery largely on the way in which the fir fed and his general condition at time of service. Such grains as bran, oats and olicake are nnexcelled in the feeding of a lerd sire when in use-- g . A.

## Feeding Family Jerseys


 and other feeds sre availimble et mothot ind siving af thete cowe is now freoh you muspont a balanced a ration. Would
cow, with clover hay as the only fooch-
are? Would yon age? Would you magmest a ration for the
other cow that 18 nearty dry? R . P Peterboro Co. Ont,
The selection of
on of any graina or mill time sorernen cows ha at the pracent able elivarad iargely by the avall. able aupply. There is much less room for chotce than in normal years, Probably of feeds avallable, Thent bran, crushed oats and oilcake cuuld be obtained with lenst ditfeulty, althoumb the substitution of these for other feeds containing the digestible nutri ente in cheaper form might be possl ble. A ration compased of poss. hay 15 thes. clean oat atraw clover Wheat bran 4 . Whes, crushed oats. fos, and offeake 2 bs , is about fectly balanced for a cow producing 25 lbe of mill dally, promenably testigg well over 4 per cent of fat it is poeaible that your correrpondent. may subelftute for the ants momt feede sueh as Schumaker Feel or fome ather componnded feed or If it could be obtalned more cheaply.
ta also posalble that elther gluten grade of distilinera meal or a high obtained in place of the oflcake. For the cow which is nearly dry a ration composed largely of clover hay and wheat bran, the amount of the latter depending on the condttion of the cow and the proximity to calving would be wost economieal--EI, S. A.

> Substitutes for Coarse Grains WY thave been teeding our cows etight addruall the oat miraw they will eat in Just enought to keep their aligestion roots bran oat and barley ohep with a Hittle and bariey have been adYanelng so rapidly that 1 am wondering if 1 can afford to What feeds conould frouns to doiry cowe. The cows are zood-sined srade Holisteins
and Durhams and fieirly and Durhams and fuirly Eood milkers.


At the present prices of onts and bariey it is doubtful it these can be economicaik ied to milch cows ex bran, avery pall quaidies. Wheat nearly as at present prices, contains ents as onts and digestibie nutriper cent more digestible, contains 36 tains telee an murh protein, conand at present prices manuriai value, expensive as prices is only halt as for total digestible or bariey, either ible protein; hence it wients or digestible protein; hence it would certainly pay to sell these grains and replace wheat bran, corn bran. tillers' grains, cottonseed dried dis. meal. The present ration or ollcake contain sufficlent protelm does hot cows. A ration which I would milich may be composed of two parts whent bran, two parts corn bran, two part dried distiliers' grains or cottonart meal and two parts oats and harley chop. Thts grain ration and bariey profitably fed at the rate of one pound for every four pounds of milk produreed, thls, however, depending pion the individual production and condition of each cow.-E, S. A.

## The Potato Situation

By D. Johnson, Dominion Fruit Commisaioner.

THE Pruits and Vegetabies committee appohted by the Food situation. An has studled the potato source of supply leads as to belle that there is a inrge aumplas belleve ada. A like condition exleste In the United States, bet owing to the the tation dificulties, most of these pore toes are not directly available pota eonauming publie. Take, for instane the case of Prines Fimard falace, where we have a surplas of ord Island, 000 bushels. made a special eflort potatees into consumption Mr. Mas ter of our stalt andption. Mr. Baxothers went down to the Ishimer of woriced out s system, whe Island and been for abnormal weather conditlon and brealndowns in the rallway organ zation, would haye inaurel ay organisupply of petitoes le central phatio Unfortunately the Prince Til Canada. land rallway was Prable Edward istemands made unabie to meet the Himited cuantity of it and oaly a moved, and it is potatoes were many of theoe potateen feared that the market but will will not reach sumed by live will have to be con. It is unf ive atocic upon the farms tlon facilitles of that the transporta to inadegunte this fertile island aro food are produced there quantilies of Controll puduced there and the Food Controiler has urged that the govern ment take immediate action to im prove the tramponation gervice there in order that these foods may be avallable in the larger conmming centers. The car ahortage has also been very acute in New Brunswlek, it being al. most imposenbie for ahippers to stcure any kind of cars for the movement of potatoen. The Commilttee, however, was able through Mr. Spcn.
cer and Mr. Melntomh to provide

## As You Plant,SowillYou Pick



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If you intend planting Apple Trees or any Nursery Stock this spring be particular as to the kind you get, and be sure they are grown right,

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 They cost no more than inferior, poorly-grown trees, and they are If you are anfamilliar with the best vars.be glad to assist you in your selection, one under any obligation selection, and such assistance places no devoted to Nursery Stion to purchase. We bave nearly 800 acres stock of tho following selected and inspected trees supply first class APPLE, PLUM, PEAR, CHERRY,
APRICOT, SMALL FRUITS, GRAPE UNCE, PEACH SES, SHRUPS, CLIMBING VINES, HERBACEOUS PERENNIAL ROOTS, ETC.

## Catalogues and prices on applifation

E. D. SMITH \& SON, Winoina, Ont. nurseryman,

Established 1882.
ETC.

ample cars for the movement from
that province, and while the price of that province, and while the price of potatoes has remained high in our consuming markets, this has been dus
to the strong demand in New. Yoric to the strong demand in New Yoris and Boston. The question may arise
as to why shinments are golng forward as to why shipments are golng forward to these centers, but it is entirely a
matter of transportation, the United matter of transportation, the United
States railway faciftles being even States rallway faciltlies being even poorer than our own, making it ex-
ceedingly difficult for them to move potatoes from the producing to the consuming points, with the result that a keen demand has been created for
potatoes wherever cars are arallable potatoes wherever cars are avallable A good deal of attention was also
given to the question of setting a given to the question of setting a
maximum price on potatoes. This maximum price on potatoes. This was discussed from every possible angle, Delegations walted upon the Food Controller on varlous oceasions and the wholesale and retall trade
were consulted. It was felt that for were consulted. It was felt that for
this year, however, it would be better this year, however, it would be better not to interfere with the prices the producers were obtaining as it might seriously stop production. It was
made clear to all concerned that made clear to all concerned that
speculation would not be allowed, and speculation would not be allowed, and
the remalt is that the farmors are obthe remult is that the farmars are ob-
taining by far the greater proportion of the price that the consumer is paying.
The grading of potatoes was also discussed and a strong recommendation was made to the Food Controller that these should be established for the purpose of developing confidence between buyer and seller and also to encourage international trade between Canada and the United States. It was pointed out by some that Northern grown potatoes from Canada, if prop-
erly graded, would be in grest demand erly graded, would be in Ereat demand
for seed purposes in the United States. It is hoped that some action in regard to smades will be taken in the very near futur

D
Colera Controlled in Indiana
 Stabes by a committee Unfed Canadian Swine Breeders: As sociation for the purpose of study. sociation for the purpose of study-
ing the efficacy of the hog-cholera treatment, Boone county, the leading county in the State, was visited. Two farmers were interviewed. It was learned that the farms average about 100 acres, and that each farmer keeps about six brood sows. The general practice is to have all sows farrow in the spring, while about half of them are bred back to Hitter again in the fall. This works out in the neighbor hood of three litters in two years per sow.
Joseph Beelar, a farmer who buys and feeds extensively, spoke favorably, of the double treatment (perum and virus), and sald that without. it as an insurance he would have to double on his money one year for fear of losing it all the next. If the plgs losing it all the next. If the pigs
a are not immune when he brlags them home, they are double treated and lrept by themselves until danger from any "breaks" is past.
J. W. Brondel, a prominent breeder, endoraed the double treatment. He stated that for a period of thirty years prior to the advent of the double treatment his lose would be as high as 30 per cent., but for the last six years his loss would not exceed one per cent. "Everyone does not vaccinate in this county," Mr. Brendel said, "but the immune herds act as a buffer, checking the spread of the scourge" and "thus' preventing
heavy loss." heavy loss."
When breeding hogo can be ren-
dered fmmune there is dered fmmune there is greater oppor tunfty to raise the staudard of quality, because the stock is not periods. cally degtroyed. Another advantage in breeding is that when the veteri. narkan vialts the farm to fuspeet or treat hoss, he often points out necessary changes in sanitation and cob. ventences that beneft the farmer and

## tor him.

The santiment or beliof in Boone county is that immunised hogs are not carriers of disense. At auction sales those who can make the statement in their catalogues that the bogs to be sold are vacelnated. Thle belps tather than injures the sale, and many farmers with nondmmune hierds are buyers. Mr. Brendel him: self did not vacciaate his young stock in 1917, and he considered that he lost $\$ 15$ per head at his fall sale, because he was not able to guaranteo bls young hogs immune.
During 1917 the State of Indiana, through the State Veterinarian, Dr. Northrop, collected 55,000 shoats in the stockyards where being offered tor sale, and sent them beck to the country to be fod. They were all double treated, alpped and shipped in disinfected cars to farmers who would take them to finiff. The loss In thest doubletreated hogs thus handled was less than one per cent., and this from all causes.

Used on lowana Farms.
In the State of lowa the Iowana Farins were vistted. Puredred Hol steln cattle and Berkontre swine have been developed to a remarkable standard of excellance at lowan Farms. The herd $\alpha$ swine, about 500 In number, were said to be all im . munized, and the committee agreed that they never saw a more thrifty or healthy looking bunch of piga any where. In the nelghborthood of 100 gows are farrowed each year, and ali breeding stock sent out is guaranteed "cholera-Immunised." They are ship ped to practically all states of the Union, and no one has suffered. When asked for an expression of oplulox regarding the double or melmultaneous
treatmant, Col. Freninh, the proprletor, treatmont, Col. Frennh, the proprletor made the following statement:
"six years ago I instructed my manager that untess some protection against hog cholera could be found to cease breeding swine. After investigation at oar State College and at Washington, we became convinced that the double treatment was trust worthy, and we inoculated $\$ 40,000$ Worth of hoss with serum and wirus. We have had no outbreaks of the disease and none of our customers have valfered."
Conserving Fertility by Dairying

D$\frac{\text { Nry tarming takes but utle }}{\text { trom the oill wheen }}$
 worth $\$ 38.22$ per ton, and it poarries with it elements of fartility eorries 59.59 per ton This valus tils calceith worth on a basis of 20 c par pound ntinered and 6e per pound potash. nitrogon and $6 e$ per pound potash. A tom of
mill at $\$ 1.50$ per cwt is worth $\$ 30.09$ per ton, and the elements of tertilt per ton, and the elements of fortility are only worth $\$ 2.56$ per ton, calculatput back on the soil will more than effiet the $\$ 2.56$. In the older parts of this country and in the older Burspasin Countries where in the older European depleted in fertulty by continmecome growlog, the farmers who hare engaged in dairying have brought farms back to thelr former state of fertility. back to their former state of fertility. plying the manure on the soll, but ap. so by srowing luxuriant fodder crops. In Ontarlo and the Eastern States In Ontario and the Eastern States these crops comprise chlefty the eloverta these crops have not as yet al berown successfally. The one hope of profitable farming in the future in proftable farming in the future in kind or kinds of fodder crops, pre. torably of the legumes, crops, pre rers and peas. These crops leave the deil ' in excellent shape for the the soil in excellent shape for the sma Carlyle, Supt. Alta. Demonstration Farms.

Datrymen may be assured of a mar ket for all their dalry produets be cause of the world-wifes Ahortage of datry cattle-Prof. H. H. Dena.


$\mathrm{T}^{0}$
 America, are taken prophetie tant whem only good tty would beeke of ti
wool come fool for the s to beautiful of the ages' sitle Loolding mot admit ti
rived. And have fts end told of the should come the reign of
The Turba calomiar fro calmdar tro
from A.D.; a year 1335 wi y the Britis the eapture pause for tho be hundred lay as mom tons which and discovery iti it agrier farming" wes remember wh fileraty a Lime maken son." Thirty myseif a grea
nilied cillatt's treas, and cie Haif a ceatur To-day the wh and ere long vide sill its or a genlus once dineovered pe yourself by will belleve y With oilly the that white a f it coutd never the commerola the manure pt vast fertilizer plence sought rodule, - and ogume uphemt Conslder then 0 this the sam mowers, bfnders nemin lenst the cles to help the similar power Idal waters cat lly, we see the and at 8 prlee farmer's needs. In the realm that the people own. In North have ousted the America and our cooperation amn and frult prodnea monwealth witht ment of produce cumer comes to cood is bound rean of the pre "ew and falrer \& ontribution to

## FARMCHATS

 H. Percy Blanehard, Hants Co $0_{0}$, N.s.
## Novus Ords Seclorum

TStates, thals boy in the Uuited States, this later motto which apAmerica, would be platin. The words are taken from a famous Roman poet of two thousand years ago. In hits prophetic ecye appeared a day far dis. tant whem evil would cesse; when ony good aad happiness and proaper fty would prevall; when even on the backs of the auiat alheep would the ft for the spinaer's blue and purple, to beautitul raiment. A "new order of the agoes" forment. A "new order of the ager for the translation of our Lue
Looking back into history, we canzived. And yet every day has yet arlave fits end. The Prophet Den must told of the hlemeninophet Danlel was thould come to the 1335 of thame who the relgn of the Doseigtor year; when The reign of the Desolator sbould end.
The Turta keep thetr Mohes calondar from the Hagtra, as medan caimaar from the Hegtra, as we do from $1 . \mathrm{D}$; and the and of the Hegira
year 1395 was last November. Whee we dovetall thls fuct with the when by the British into Palestine ame nory the captare of Jerusalem, it gives us pause for thought.
Now, while there are yrar dater by the hundred that note these present day as momentous, there are cond thons which in the line of inventlon and discovery tend to polnt to a new ora lo agriculture.
I remember the time wien "opols farminge was a thing to seofl at, remember when fime the seon at. I nerely a ratnous stimulans: ita thought was couched fin the motto: "Lime maken a rteh father but a poor son." Thirty years age, 1 appratsed myself a grent discoverer then I ap piled Gillett's Lise sofutio then to apple treat, and cieaniged off Fie berklolvie. Half a century ago Nova Scotia. abandoned wheat becamse of diseane. To-day the whent yield to Increasing: and ere long this Province may pro vide all its own breid.
What is dolng these thinga? When a genlus once announced that he had diseovered perpetuat motlon:- Thait yournelf toy sour bootstraps and *ill belleve you": was the reply. With orily the manure product to re. plenish thie farm, if seeprest manifest that while-s farm might deteriorate. t coutd never advance. Then eame the commeroial fertilizers to hoost the manure plle: That was not alt The whole atmoaphere aloft was all. vast fertilizer fountafn, Nemp a sclance songht out the modest clover andule, and so came the green logume uphaliter.
Conslder then the vartous sprays for Insect and fingus enemies. Add to this the gans plows, dee harryws, mowers, binders, throshers, and by no means lenst the gasolihe evathe Here were provided a hmadred tron muscles to help the farmer's ninsle arm. Now comes the Hydroelectrie, and similar power wherever the river or tidal waters can be harnessed. Finally, we see the little tractore of a slue and at a priee to meet fie averase farmer's neots.
In the realm of aohums awe cean see that the people are coming to their own. In North Dakota the farmers have oustod the politician from his sott enay chatr. In the Weat of America and our own Canadian West. cooperatlon amang the grain growers and fruit producers is forming a commonwealth within the athite, a parliameat of producers. When the cone sumer comes to realize that he con best good is bound up in the hishest proErese of the producer, the vamplires of civilization will beein to tiomplies Cew and fairer bites of to disappear ontribation to than or taxation as a thome who proft by the community

Is in the alf, and some day will come. year of 1908 beeplaning of thls nex Weth hope and confidences forward with the poet of old, thet " a now fael Cer of the ames" is dawning now or: torth unto a brighter and a better day,

## Tractor Experience

$6{ }^{6} \mathrm{~K}^{\mathrm{E}}$ have 22 a acres in oin list aff workable, and In corn," states Roy B. Potter of Essox Co., Ont "On this farm of have found me for a tractor, a $t-12$ waebine weighing 2600 pounds anil conting 8885.
We startod to use this tractor for be arat time last spring it pulled three the bottom plown on wy farte, mond the sompany doen not recom. mend sueh a heary-draft. it will it I plowed 45 seres anywhere. With it 1 piowed 45 acres last apring, then Fows bebind a the lig disk and the harcows behind the diak. I do not know how wo would have gotten that to aeres in crop without the traetor. At
harveet time we hitehed the harvect time we hiteched the tractor to work, cut the corners is dide armat team coould have dones."

## The Best Book <br> on <br> <br> Dairy Farming

 <br> <br> Dairy Farming}
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## Letters to the Editor

The Rural Community

EITTOR Farm and Dairy,-I am a farmer and I recognize that farm holding the best of our bloon on tarms. with the result that the tarms, with the result that the elties
are profiting by our losses. The out. of door country life is healthy nud besi, both soctally and economically. Does it not behoove us to see and appreciate this, to interest ourselves in rural ac-
tivities and play ife that our young people may not continue to seek con. teatment in the unhailthy city? some program of rural activities could be carried out, the country would ad vance in every way and more people Would be seeking for country homes. Our leading men in the clty were once boys on the farm. Could we retain them on the farm, the country would soon be on the ascendency.
Clty ife is unatural. It is enjoyed
by peopice who do not underatand the by peopie who do not understand the
real natural way of living, and who preter pleasure that comes in un-
natural ways. Why do people natural ways. Why do people seek
the seashore and country for their vacation? It is the appeal of the natural. I have seen statistics quoted
to prove that were it not for the fresh new blood from the country; city peoplird gouneration.
Rural communities in America have not done their bett to make things meresting for the bo ani girl on the farm. the country divian trio small frrms With small viiages everywhere. The viluage green whs the local play
centre, and here the young folk con. centre, and here the young foik con
gregated. This was tivin lodeed al gregated. This was livin. indeed, all
because of a soclal centre. Here our yeung folk are expected io work tod much, and if they fere not thas en gaged, they would have nothing elso to take up their time. We must co attractive.-Leslie B. Metcalf, Bran Co. Ont.

## On Dynamite

E
Ditor, Farm and Dairy.-Is this old world of cours siltting on top ometimes think it is dynamite? 1 in the country, supposodly away from the heart of things, but my reading of the dally press fill me wlith misaty ings. There seems to be wiplit of law fessnese shroad "hoodlulam" law lolks call It but to me It la more sor lolks cal ous than that.
Bryan when he attes dow Bryan when he attempted to speak in Toronto a few days ago. Mr. Bryan came to Canada as the representative of $25,000,000$ United States prohibitionists. In his own country he is still ne of the greatest men in the public eye. As he said himself, his loyalty is acceptable to the presldent and people of the United States. And yet we did not accord him the ordinary courtesles that are due to an lavited suesi. We llowed him to be howled down by a mob of hoodlums. Thls in itself is bad enough. When I pleked up the papers the following day, I expected to find on the editorial page, at least an expreasion of sincere regret for the disgraceful proceedings in Massey Hall. The exprestions of regret wers notable by thetr absence. The Mayor of Toronto, not only refused to accord Mr. Bryan a welcome to the elty, but apparently thought lightly of the insult to the great American. Does it mean that lawlessness is to be winked at by those in authority and by the moulders of public opinion? This is not an isolated case. Meet Ings were broken up during the last election *campaign by Nationalists in Quebee and by returned soldiers in Vancouver; both equally lawless and both examples of mob rule. A more
receal example was the deputation of In labor interests to see the Premier grant their demand for stronger beer he was glad to beat a retreat into the Parlfament Butfdings to save himeelf from personal violence.
All over America and all over the world we seem to have abundance of the material of which lawlessness is made. We have the ever widenlug chasm between lnbor and capital. In my earller days I took much interes in sociallsm. Socialists years ago believed that both laboring men and capitalists were the victims of an unjust system and they pletured an Idea. system wherefin all could live in peace. Sociallsm today seems to have degenerated into nothing more ennobling than class hatred. The Bolshevik typifies socialism in action and I don' belfeve that Russlan sociallsts are making a greater mess of it than would socialists in any other country. 1 can recall several times when the militia were called out in Canada to quell labor disturbances which had their birth in nothing else than thls same class hatred.
1 am not defending the capitalists. Their greed is responsible for many of our social dieorders, but I think that this is a time over any other time for sane clear thought and balanced judgment. Such balance, however, is characteristic of neither the public nor the government. The appeal to passion or prejudice seems to win in both cases. Are times shaping up for the end of the age and the great tribula-
tion foretold by Daniel the prophet? Ion foretold by Daniel the prophet? I believe so. Certainly prophette scriptures are taking on a new developing in view of present day develop. ments. At least, all thinking men must agree that in dealing with social ques tions nowadays, we are handing dyn
mite.-F. E. E., Halton Co., Ont.

## Setting Soldiers on Land

E DITOR Farm and Dairy: Some F. time ago 1 read with interes describing the new setlement which is being prepared for returned soldigrs at Kapuskasing, in New Ontario. It seems to me that the clearing of that heavily wooded country must be slow work at best. The work that has already been done is hardly a stait towards a solution of the real problem Which will present itseir when 500,000 men come back to Canada. of thil Vast army of returned troops, surely will deatre to quite a percautage who will desire to go back to the lana. It Woutd lake yearo oo prepare homea for them an in a busi country. But Why should it be necessary? Out here In the West we have millions of acres the plow
since I have come West I have trav: elled considerably. I have had the experience of getting off at a rallroad station with vacant land lying in every direction and settlers few and far be tween. Ten miles back from the rall road, I would find the country fairiy gone back from shipping facilities be cause they preferred to, but because all the good land near the station was being held by speculators at prices which settlers could not afford to pay This is true all over the West. Large sections of good land are held out of use by railroadi and trust companies as well as private speculators. Here I should say is the propet home for those of our returned boys who prefer to farm.
Witl we buy thls land for our re turned soldiers? I can guarantee that the minute the government came on the market for land, that land prices would immediately begin to soar, and these speculators would prepare for a rich harvest at the expense of the Canadtan pubile. Lending money to settlers at a low rate of interest to buy land for themselves would have the same tendency. Just in proportion aa


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ther detired information.
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the interest was low, the price of the
land would be high. and be high.
Iand Into use. After the to fax vacent have tremendous taxes war we will these taxes are placed on land values, the revenue will be derived from the source that will bear'teast heavill on the iadustry and at the same time the land will be forced fato use; a case of killing two birds with one stone. This tax will not be a burden on farmers. War taxes will have to be patd in some. form or other anyway a land tax would merely equalize taxation on those who use land and those who speculate in it. Under the present system the man who uses land pays thr most taxes. Never have I been so proud to be a farmer as when our principle of of tanizations endorsed the was particularing tand values, and 1 Was particularly klad to see that the Ontario were not behind Province of organizations in approving western ciple. Keep up the good fight the printaxation of land values. fight for the Saskntehewan.

## The Pork in the Barrel

E
 come to think a few years, and have am not a farmer in the proper sense of the term. I am a briek and tile maker, doing a little farming on the side. Among other things I have kept a brood sow for a few years, keeping a plg or two each year, and selling the balance when weaned, as I buy nearly all my reed. And, by-the-way, let me tell some of the farmers that say there is no money in pigs at present prices that last year, from $\$ 86$ worth of feed, bought at retail priees from the fead stores, 1 recetyed $\$ 186$ returns.
But this is not what I i.itended to speak of, I have just been reading an article in your paper of February 218 L , by H. Percy Blanchard, of Hants Co., N.S., and as it contained the same thoughts and principles that have passed through my mind the last week or two, ; 1 could not reat last temptation to write a few resist the plement bis article and argument am a Canadian of Engllah parents, and like many other Canadians, parents, the to do afl I can for our Empit in the present crisis, espectully our Motherland and her alles fo the Channel. But I must come ow to my own case and to che down contafred th Mr. Blanchard's though: I have pis in the barrel apizle. 1 killed some time ago for my own I killed some the ago for my owa
use, I also have two young ones in the pen to kill this spring, intendin the pen to kill this spring, intending
to tuse what I requitre during the sum to wee what I roquitre during the sum mer and sell what I may hava to spare. have remarked to some of my friends recently that I would $\quad$ ifisingly try and get along with the portr and sell the other thel until next fall, see that they wouldo plgs if I could need them would reach those who need them most, and especially if further, and say that cost. I will ge further, and say that I will feed those pigs until they will dreas 200 lbs of ory if they will five them to my coin. in if they will inaugurate a system who need they will be carrled to those would contlem most, at cost, and 1 los, of continue to supply at least 800 bos. of dreseed meat a year on these form, so long as the war lasts, allit it is golag to coet the Governinent eure it cts, a pound to cure it, I will cure it myself, without charge, for it

## on't cost 25 eta a ewt.

## To Eliminate Middie Profits.

Like Mr. Blanchard, however, I am at a loss to know how I can essist my country slong any tifne of produc foon so that those who need it wilt get full benefit from my efforts. To ralse pigs and sell them at 18 cents a pound is a very poor way of helping roune
poor familly, who may be on the verge in Belgium or in France, even if they got it at cost after that. But whe the only channel is that which we combine packers, whe the millionaire combine packers, who cure it at a
cost next to nothing, cost next to nothing, and then sell which we are paying cents a pound, own shops, and no doubt about our own shops, and no doubt about tw e3 this price by the time it reaches those who we aim to assist overseas, try and assist ouragement for us to try and assist our country in this way. The killing and curing of pork is about the slmplest and easledt thing the Governmant could undertake. This is where our Food Controller should go to work, and not s 3 much at our dinner tables. We will economize and supply the goods if
they will do the rest. they will do the rest.
Let the Food Controller conscript me packing houses and systems and make them handle and pack the meats
at a price in kegping with ceived by our men at with that rewhat they endure, and even the for of their life, and it will not amount of their life, and it will not amount
to more than a fraction of a cent pound on what is paid for a cent a pound on What is paid for the meat. tended, Mr. Editor, but even at Inlended, Mr. Editor, but even at that the subject as t wous my feellags on che subject as I would like to, and trust that, along with that of my friend in the east, It may accomplish something. I remain, jours for my country find at this time and not for the almighty dollar.-Walter Clark, Lemmen co ocitit

## In Defence of "Manvers"

EDI"OR, Farm and Dairy.-In Farm aad Dalry of Feb, 21st, I notice some Field Notes written by as being a part of that semto Manvers as being a part of that semi-desert dis boro. Now, as a resident of Manvers boro. Now, as a resident of Manvers
for more than 40 years, I protest against that good old township beling called semi-desert. If "Mac" will stop off at Manvers station some day stop June we can show hor some day bext ful a stretch of farming country as any one may wish to see. True there is some light land in Manvers and some furms have been poorly worked and of unscrupulous real estate the hands taken as a whole, the dle agents; but perous and is far from boint is pros. pert. In fact it has from being semidesert. In fact it has been stated upon good authority that there are less murtgaged farms in Manvers than in "Mac" says hecallo in the cpunty:
Manvers, who called on Mr. Rogers of Manvers, who bought a farm here some three years ago. Now I wish to say
that Mr. Rogern, noither that Mr. Rogers' neighbors are not surprised at him "making good." They know Mr. Rogers to be an up-to-date, experienced farmer. The only surprising thing is the fact that a mau of his judgment and experience should purchase one of the poorest farms in the township.
We are also told that previous to Mr . Rogers entry into the neighborhood, It was considered impossible to grow elover. Such a statement is, to say the least, misleading. For years there have been good flelds of clover in the district and many farmeris have made much from their clover seed to say nothing of an abundance of hay, The majority of farmers till hay. oil according to modern methods and If "Mae" wishes to taste some realls irst-class potatoge, come to Manvers And when he next writes notes of this. district, let us hope he will sive is what all Eritishers love, will give us justlee.-"A Manvers Reader."
[Note: Farm and Dalry wishes to Absolve Mr. Rogers from any responThey were written Notes" in question. after a visit to the one of our staff after a visit to the township in quee-
tlon.-The Editors.]


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time from the economical feeding methe time from the economical feeding methe ds outiined in it. "DAIRY FARMING," by Eckles \& Warren, tells how to balance the feed-what
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## APICULTURE

An Opportunity for Beekeepers S UGAR is an important war food, its price is high and there will near future. Hoaey is being affected in sympathy. The crop of honey produced in Ontario, Quebec and Mant toba tn 1917 was sold qutekty at price above those of the previous senson and present indications point to a still greater demand and higher prices for the new crop. Thus, by producing as much boney as posetble this yeat the beekeepers of Canada will not only increase, their returns but will be helping the Empire. These remarks refer to extracted honey. An increaded demand for comb honey cannot be predicted.
The appeal for greater production is especially to those who are neglecting their bees or are not manaring them in the best manner. There are many aplaries in good locations for profitable honey production, more particularly in Eastern Canada. where
colonies In box hives or in seidomopened frame hives, now producing from 20 to 40 pounds of honey each could be made to produce 80 to 100 if time cannot be spared to glve the bees the attention they nc d, they might be handed to a member of thi family who would take an interest in them, or they might be sold to a professional beekeeper. But well managed bees often pay as well as, or better than, one's regular occupation for the amount of time spent with them.
The different operations in modern aplary practices are briefly described tn "Bees and How' to Keep Them" (Experimental Farms Bulletin No. 26, Second Series), which may be obtain. ed free on application from the Pub. lication Branch of the Department of Agriculture, Uttawa. A good way to become acquainted with the better methods of beekeeping is to arraage to attend one of the aplary demonstrations that will be held early in the summer, under the auspices of several of the Provinc'al. Beekeopers' Associ. sociations with the addresses of the

Secretaries is given in the abovemen tlomed bulletin.

The principal problem of the expert aplarist will be how to increase the number of bees to the fullest axtent In time for the honey flow, so as to make the most of his valuable knowl. edge of bee management. The early replacing of unsatisfactory queens is important. Juđiclous feeding during the dearth that in many places imme. diately precedes the honey flow will help under some conditions. By dividing strong colonies not less than six weeks before the middie of the main honey flow ann increased crop of honey will be tatacd. provided rer the queens are on hand to be given to the queenless part. These queens may be procured from breeders
Bouthern States in the $\$ 1.00$ each. This procedure is ehlefly appllcable to the freweed and chiefly rod Alatricts; as a rule the clover honey flow comes toe early for It. Twopound packarges of beers with untested fortile queens obtained from the south by express in May or early June cost. thg about $\$ 4.09$ each, including transportation charges, will be found a pay ing tnvestment, if they arrive in govid

## Boblone


condition and can be placed on comby: There should be a sufficient sapply of supers for extracted honey, with frames and foundation, or combs, on hand to take a maximum crop, and this year it is more than ever necessary to order supplies and honey containers early. Two-comb supers may he fastened together to make one-
deep super-for extreted honey production. Particulars of an attractive contalner for foney that has been designed to reeet a possible diriculty in obtaining sufficient tin palls or glass fars will be supplied on application to the Aplarist, Central Experimental Farm, Ottawa. Beeswax is very soaree and all discarded combs and seraps of wax shoutd be saved to be turned into foundation. It will be wise to retain some combs of clover honey in case they are needed for winter stores, because sugar may be very dear in the avtumn.

## Conditions in P.E.I.

DAIRYING in thls aection is not as good at the present time as it was same 15 or 20 years ago At that time our chease factory was In a fourkhing condition, but it was allowed to divindle away for the want
of mflk. Then evarybody bought a hand semarntor and manody bought a hand separator and manufactured but ter at home, the resulk belng that it Is not att of the mamo qualtty and a great deal of the butter is sold in the summer months for a very low digure. Since the egg elrcles started on the 1nland, the pouttry indastry thas gone aherd to in kreat extem. The apg yleld and crate fattened chtckens Annear, Kings Co., P.E.I.

## Big Roots Preferred

Wa were standitg belind the Bagrs exhbtt of Jerseys at the Guelph Winter Fair, Our convernation drifted from one subject to another untif finally we were discuessing the growing of roois, We like to krow btg roots," remarked one of the Bagas boys. We grow ours two feet apart in the arill and the drills three feet apart. Some of our best roots have bsen grown following potatoes. We have manured fairly heavily in the fall aud then rowed up. In the spring we harrow down the mows and drill in the seed on the firm seed bed wl ere the row had beem. Varieties? We used to grow white sugar mangels, but lately we have
gone over to the Leviathlin mugar gone over to the Leviathian suga
beet and the Olant sugar mangel."

$\mathrm{O}^{8}$

## One Litter of Pigs

By "A Halton County Farmer." April 29th, 1917, my sow farrowed a litter of 10 pigs. The following is an account of the hogs were fed some manzels, the wetght of which I am unnble to give They also recelved a quantity of They also received a. quantity of
aldm milk twlee a day. The feed bill is as follows:
$4,495 \mathrm{lbs}$. mked chap at $\$ 2.00$ per cwt.
500 Ibs , shorts at $\$ 2.25$ per cWt
200 the , shorts at $\$ 2.40$ per cWt .
Making a total coast for feed of 5128.36. On Oetober 31st, 1917, I sold nine of the hags at $\$ 15.50$ per ewt nine of the hags at 16.50 per ewn
They welghed $1,780 \mathrm{lbs}$. The other fiog wes killed for home use on Nov. hog was kuled for home use on Nov 15 h, 1917, and dreased 170 lbs Dreaned pork aills ar per a ewt Thus the total recolpus were $\$ 316.70$. loaving a profit over cost of grain of R188.34. Taking mangels, skim milk and labor into consideration, I con-
sider there would be about $\$ 180$ net slder
proflt.
I look in the next five or 10 years for a marked development in militing by machinery. The machines have been developed to such a point that men with 20 to 25 cows or more ehould bive them.--Prot. H. H. Dean.

## FIELD NOTES <br> G. C. Mekilican, Field Repre. sentative, Farm and Dairy.

WV HEN I dropped in recently to see Jas. G. Currie \& Son, the gersoll, I found Holstein breeders of Inting up their them engaged in putIn answer to my engulry as to the amount required, Mr. Currie said: We do not put away nearly so much ce as we used t?. We now have a small gasoline engine which we use for pumping water. All the water ased by the stock first goes through the milk eooling tank. Somettmes no lce is required and at most only enouga to keep the milk cool once it in fact coolsd by the running water. gutred, quite often the only ice required is for holding the milk over Sunday, and during or in putting away lce, and during this shortage of labor every saving of time counts."

## Cows or Crops.

What can two men do on 320 acres of land and at the same time look after a large herd of dairy cows? Such was Mr. Geo. Laldlaw, of Aylmer to me talked to me regarding his resaons for selling his pure bred milch cows. He safd: "We have spent years in getting this herd together and will be com pletely lost for the next year with no cows to milk, but we have no choles in the matte: , Durling the past year or so we hare been gettlng farther and farther behind with our farm work Formerly we kept three or four men regularly, but at present my brother and 1 are alone. We are factng the coming summer with no fall plowing done and have as yet been unable to get out our supply of wood. If we hept our milich cows the coming sum: mer we woutd not be able to properly work our farm. A large part of it would have to go to grass.
On the other hand, if we wish to give our farm work proper sttention We must be relleved of the work of milking our cows. A year's relief from attending to a dairy herd will give us a chance to get caught up with our farm work. If by that time we ars able to get help, we can go ahead and produee as much milk as we have done In the past." This is the situation thai is facing a ereat many of our
dalrymen this winter dalrymen this winter.
"At Home" Among Stock,
It is a common idea that a man to be a success among live stock must close touch with the class of up in that he is handling. While no stock this is of great value, yet as I wateh ed Mr. Harry Bailey, of Paris, going about his work attending to the going bred Holstelns while I visited their farm recently, I came to the conclu slon that after all it wes not an absolute necessity. Upon enguiry I learned from this gentleman that up io four years ago he had never had anyhing to do with live stock or farm life. In fact, had never had any idea of ever living on a farm.
Judging by the famillarity with which he goes about his work and the reputation his herd has achleved, both In the show ring and in official testing, he must have always had constesting, of the fnatinct of the stockman or else has made a wonderful use of his short experfence at farm life.

Sweet Clover.
While calling on Mr. Bertram Hoskin, of Cobourg, our conversation drifted to the aubject of sweet cloveof which crop Mr. Hoskin is guife an enthusiast. Two years ago be sowed 15 acres and was so well pleased with the result that last year he increased his acreage to 48 acres. Next year he intends to plow up his first 15 acres and to seed down a 50 -acre plece of rough land which he has not been able to satisfactority work into his ro-
for pat This he will count on having for pasture, trusting that it will re ceditself year after year
On the first plece he sowed he used was sowed on flat, wet land, The second acre, and seeded with land, 12 lbs, per nurse crop. His neighbors told him that the buckwheat would choke it but such was not the case. This land was so wet that it was very unsatis. factory for ordinary farm crops and he is watching with great interest to see how it stands the winter and pring. He says that if it will stand such conditions as this he will be ready to uphold sweet clover as the Mr. Hoskin saye that conditions. Mr. Hoskin saye that his cattle once they have become accustomed
gives them, it to any ott or feed he sweet clover straw, they will eat the threshed and which after it has been for bedding. He is he usually uses building of another silo for the ing the sweet clover and thinks for the use of liberal use of sweet clover for pasture, ensilage and a certaly amon for pasture, much of the expense amount for hay, curred in the buying of concentrates will be eliminated Possibly tha wreatest difficulty in seeding it down sheaves are so foll of is that the that they are ficulty, however, ts counterget difthe value of the straw feracted by has such a large percentor feed that in it.


## "Here's My Real Insurance"

 T'S quite right to carry insurance, but when storms are raging or fires are spreading in the neighborhood, it is far more comforting to know that your barns and other buildings are roofed with
## Päroid <br> ROOFING

Farmers have had this comfortable assurance through 19 years of rain and shine, hail and fire, snow and ice. It is safe to say that you have heard of the great superiority of Paroid.
What may not be quite clear in your mind is the fact that Paroid is not the name for all roll roofing. The only genuine Paroid bears the label shown herewith.
It is made in gray color, two weights; also with permanent red or green slate surface. Sold by lumber and hardware dealers.

Neponset Twin Shinglee for all residences.

Looh for the roll
with the
Paroid la

1 was talking recently with a
breeder of pure breeder of pure bred stock who has with his favored most unique success my enquiry as to how. In answer to my enquiry as to how he got started, ways a breeder. In fact, I was not allutely nothing about catile know absoone day at an abction cattle, but was attracted with the appearance of a so tle calf that came into the ring a litput on a bid. This led to ring that I and in a few minutes to found myself its owner. This became the mycleus of my herd. I began to study nucleus grees and bought a few more and pediup a barn to pitt them in." That man to-day has one of the hest herds of his favorite breed and has a knowledge of pedigrees which is simply wonderful.

Head Office, Hamilton, Ont.
WIRD \& SON - Head OAREA Hiamilton, Ont. The Largest Manufacturers of Roofings, Wall Boards and Roofing Felts in Canada
manufarturer of cuttivating machinery profeseed publicly to be in favor of such a move. The removal of these duties would be but a matter of tardy justice in any case; and justice should now be hastened under the spur of national necesslity.

## A Dominion Dairy Council

A
the convention of the Dairymen's Association of Westera Ontarlo in January, W. A. MeKay, of Nova Scotla, expressed regret that steps had aot been talken at Ontario conventions this year looking toward the formation of a Dominion-wide dairy organlation. The recent dalrymen's conventlon in Alberta darried the praject a little further; by a formal resolution, the convention expressed itself as fuverable to a Dominion-wide organization of the datry intereati, and at a special session, attended by reprenentatives of datrying in the three prairie provinces, inttial steps were taken looking towards the formation of an ansociation to be known as "The National Dairy Council of Canada."
In the meantime, Nasters Canada is preparing to look after her end of the organization work. Prot. H. H. Dean has announced a meeting to be held at Guelph, in the firnt week of April, at which all departments of the dairy industry will be represented. A compact Ontario organimation will then be formed, and this Prof. Dean regaria af an Initial step toward complete organization in each province out of which will grow a natlonal orgiaization.
Whether or not these movements result in definite action, the need of a national dairy councll that would unity the efloota of the dairy industry to receive the recognition due it, must be salf evident. At present Canadian dairymen are not represented by any natlonal organization. Even the present provincial associations are representative of only a section of the Industry. The Ideal dairy councll, we believe, whether provincial or national, is the one that bas represented in it the producers- of dairy products, the manufacturers of dalry products, the manufacturers of dalry equipment and at least a part of the aistributorn, the middlemen, if you please. In all of the larger lasues that contront the induatry, and to cope with whifeh such organization ts necessary, the Interests of all connected with the industry are Identical. Such isaues are the fight against oleomargarine, and the advertising of dairy products, We truat that at the meeting at Guelph, at least something will be acoompliahed toward a union of these interests in Ontario with the bigger ebjective, the national councll, alway, kept in view.

## The Threshing Gang

DR. G. C. Oreelman, is, we believe, responsible for the suggeation that threshing gangs be organised to look after threshing in the Province of Ontarlo next fall. His suggestion is that the province be divided into districts, and that certain territory be allotted to each threshing outfit. In addition to the usual equipment the thresher would carry along a bunk house, as sleeping quarters for his men. As to the afiee of the gang and the feeding of them, there is a division of opinion. One suggestion is that the threaher carry only a mow gang of four or five men and the furmer himself, with the help of his nelghbora, will take care of the grain and the straw; or the threnher might carry is full gang and the farmer look after the grain only. Some suggest that the thresher feed his own men, while others belfeve that the farmer should provide the meals.
The threshing gang plan has one great advantage that will appeal to all farmars, having only their ows threshing to look after, no time will be lost from fall plowing. On the average farm the time of one man Is taken up for from one week to a week and a hall, or perhaps two weeks, returning threshing help. The anving of this time would result in a mach greater acreage belng prepared for crops the following eeam on. The thresher would reap an advantage in that having all of the farms in one dietrict, he would move directly from ons farm to another, with a minimum loss of time.
A probable diandvantage of the gang method of threshing would be the cost. It le satimated that
where a mow gang only is carried, the coast to the farmer would amount to five or six cents per bushel of gratis threatad. Thiti would nitain from $\$ 50$ to $\$ 70$ a day, whiolr is a great deal more money than farmers are accustomed to expend in direct cash outinys for thetr threshing. The threshermen themselves might object to being so organised. The Department, however, has asked for an expression of opinion from the farmera of Ontarlo, and Farm and Dalry would welcome the opinions of Giv Folks, particularly of those who have had experien ce with the threshing gang method.

The United Grain Growers, Ltd.

T
 women who settled the Western prairies of Canada, is the country itself, "a nation buift in a day." The most wonderfut evidence of their business sagacity and courage is the Enited Grain Growers', Limited, the greatest business concera In the world to-day owned and operated by farmers. The auditors' report of the last year's work of the Grain Growers' Grain Company ard the Aljerta Farmers' Cooperative Elevator Company, the two companles that amalgamated to form the United Grain Growers', Limited, is now to hand, and gives a statistical review at least of the magnitude of the business operations of the new company. The profite of the Grain Growers' Grain Company for the year ending Aug. 818t, 1917, were $\$ 607,899.18$, and of the Alberia Company, $\$ 236,502.76$, a total for the two companies of $\$ 844,401.94$. With the economles of operation possible by the amalgamation of the two companles, and the extensions planned, mfach more business will be handled next year, and the profits should be proportionately greater.
We sometimes think that we Canadian farmees do not sufficiently appreciate the magnttude of thts work which the grain growers have accompllshed. But men outside of Canada fully appreclate It. Agricultural publications in the United States are constantly holding up the grain growerg' organtzations to their people as examples of what cooperation at Its best can acoomplish. Commissions in all countries appointed to study agricultural cooperation, have always given a great deal of attention to the grain growers' companies and their business methods. All over the world the farmers of Western Canada are rocognized as the world's most successful cooperators.
But the directors of the 'nited Grain Growern', Limited, and the various othes associations of farm ers on the prairles, are not varlefied. They belfeve that they can almost double thelr businens and thelr membership. If thls can be done on the pratrien what is not possible in Ontarie, with a greater and a weatthier farm population to work fin than any other two provinces of Canada combined? The future possibilitles of the United Fermers of Ontarlo and the United Farmers' Cooperative Company, Lamited. shot'd be sutficient to Inspire the humblest member of a local branch, and selse the fmagination of Its ublest lenders. Whether the posafbilities of the Ontarlo movement are realised or not, depends most Iargely on the cooperative splrit displayed by Ontarlo farmers.

## Leave for Farmers

C.RICEJONES, the Agricultural Representative on the Leave of A beenee Bonrts, wtates that in view of the vital importance of increased production during the coming summer every farmer or farm laborer who in in untform or who has been ordered to report for military service, should, as a duty to the country, immediately apply for leave of absence. There can be no doubt about their first dnty, as, while the need of men la grent, Canada recognises that at present the seed of increased production on the prairies is sreater. He further states that a number of farmers and farm laborers have left with the last draft, when in the national Interast they ahould have secured leave of absence to work on the farms during the coming summer.

## In Union There is Strength

## Getting Together in the U.S.

 $I^{N}$ Ontario we are so interented in tho deveiopment of our farmers United Farmers of Omtane in the United Farmers' 'Cooperative Com pany, that we are prone to trink that our ppowince is the only sectlon country aside from Westorn Canade in which the farmers' movemont is making headway.The fact is that the farmers of the United states for sometime have realized the neceasity of furmers working together and they have been sucoenoful in many States in forming organizations very similar to the organization in Ontario. An editor of Farm and Dairy while in Chicago found that in some States and along aome lines they have made further progress than we have in Canada. For instance, our editor listened to an address by a farmer, now Governor of North Dakota, who lok how, during the past year, the farmers of that State got together and to the sunprise of everybody State and a as Governor of the State and a majority of the members of the Legistature. The farmers of lorm which they very radical plat. form which they are planning to in the state of Negisiature.
are have artanized what Is the farmTis have organized what Is called The has been doflig a valanble work. The farmers on the other site work. The farmers on the other side of the line have the same arasculties of organiz antion to contend with that we have in
Ontario. Thls is shown by an ad dress entitled "Why Some Farm Organizations Fail," delivered by T. F. Sturgens, ediltor of the 20 Th Century Farmer, at the recent annual meeting of the Nobrasks Farmers, Congrens. The following is from a report of Mr. Sturgess ${ }^{\text {a }}$ address as taken from the report of the ecnrention published in the Nebrasi a Farmer.

## Causes of Failure.

That organizers of farmers' as. sociations sometimies forget the human element in their efforts to aroune interest among farmers and exaggerate conditions was the sesertion of Mr. T. F. Sturgese in a prganizations thil. nome farmers' ng causes are the Other contributtion of the time reguired appreciacomplish resuits, the lack of good eadership and experlence, the independence of farmers, too broad an obect, danger in numbers, and dieoytry of members
Mr. Stangess sugrested that th organizers for the farmers sometimen lose sight of the human element in their enthumaum and pieture comditions wome than they really are. Another evil effect of overentrunlarm and claims for immediate rolief through organization is the lomet of ntartent after the members bave had ime for more sober jucigment, and when Immediate rellef fails to come. Ime is essential to bring shout the leairad resuits in any business.
Leaderwalp is more important is armers organisations man in ortilnary business Arms, Mr. Bturgens beleves, for there are more members represent and elements to meet. Lie tendency of farmers toward fB Topendence and the anceenefor carry gerntion their he does not noed the farmer feel that Vis nees not need the sanistance a cont that assistance. he slow to se

Experience
Experience a Needed Element. bark in so organizations nsually em them and for that renot is new to expertence that reason the lack of drastance males prove-a sertoun obtained Mr. Goar maakgers are aninat the emplojerges cautioned from among mymen of manayers trom among members. That may
mean an inexperdenced man for which the members inust pay, and i many oreates dimeatisfrction ibecaus best methot fat the position. The outslde and expect to pay a pood sal ary. Organization should not be per fected untit thare is nocessity for such. The blstory of all farmers organizations and business associs. tions showe that they accomplish the mosi where they originate through

Relative to the attempt of farmer orkid Mris to cover too broad a lil bugr. Sturgess pointed out that pectallyation nowacays tends toward pechalization, becanse more can be Too many ined within a limited field disaster Non in the ure may mean tess until the merm also spell iweak. entials of copparnolion learn the es greatest of cooperation. One of the ers' Union is that betting the Famm anterprises which have have many cause they where hot have falled be cause the members did not or be arinclples of cooperation thow the or lacke Mr.
Mr. Sturgess emphneined damger of playing upon the prefudieen of the people and portraylas con ditions too strongly Some milli men are necessary, sald he Distr bution is not a nelghborhood affalr but one of nation-wide and worl wide significance.
Mr. Carl Slatt differed with Mr Sturgess on the efficaey of methodis used by some organigers. He ant that to arouse some farmers a radical man is aecesvary. He also contended that farmers' organizations have no been fathures, even though some have masm with an early death. Indivitural form ind independence are responsible for most of the Callures, he ra'i He believed that the eliminution of isola. ion through modern conveniences Mr siatt avert these conditions. Mr. Slatt doplored the menaces The local anganisations from without The local and other press have trled to create dissatisfaction in the runks, e said. There also have beon in for their that officials are worting mitted own gain. Mr. Slatt ad. nitted that personal frlendship intead of bustness qualifications often ars. basis of employment by farmis the

## City Milk Supply

## To Cut Out Midalemen

$\mathrm{I}^{\mathrm{t}}$of the reed at the annual meeting ore' A braser Valley Milk Producminater recently, that In New Westthat existed bety, that the wastage and the consetween the producer of Vancouver, was too great owing to the large prodts made by the middie men and it was decided that a genar al meeting of all shareholders would be held at which a definite seheme Would be preaented for putting the producera association in full con trol of the detivery system as woll. It is hoped that the consumar will set cheaper milk and that the producer win set more monoy. An ambltiou undertaking!

The finarcial statement of the as sociation showed it possible to pas six per cent dividends, equivalent to $\$ 86,009$ trided among 848 memberi, and a nice surplus bealdes for trin aing the business. Mr. J. W. Berry announced that steps had been talren ooking townard the purchase of the Chilliwack and Sardls creameries paymente to be made with stock of the Milk Producers' Association.- Mr 1. D. Barrow, M.I.A., exprusged the apinion that the aseoointion supplted aure milk than any other similar as soclation upon the continent.

## Save Butter-Fat, Time and Labor for Yourself and for the Empire with a NEW DE LAVAL

 CREAM SEPARATORSave for Butter-fat right now is selling at the highest price in Yourself of it. years, and you can't afford to waste an ounce Whether you are trying to get along without any cream separator or using an inferior or half-worn-out machine, you are losing valu-
The De Laval is not only a oream saver but a time and labor
saver, and with the present shortage of farm help every farmer saver, and with the present shortage of farm help every farmer
needs to utilize time and labor saving machinery where needs to utilize time and labor saving machinery wherever it is
Save for the Empire butter fat Wo are a nation at war, and not a best cream separatosi countrien are encouraciag the nue of the Buy Your De Railway delays are so nerlous that del'veries Laval Now your De Laval eariy there is no telling when: conditions may compel can get it. Then, too, labor and material Laval saviag butter fat and fabor for yournelf ane you get a D sooner it will pay for itself.
If you haven't the spare cash right now, that need not stand in
the way of your getting a Now De Laval at once. We have an as rangement with De Laval agents which makes it possible for any reputable farmer to secure a De thie for any partial payment plan-a small payment at the stalments -30 that the balance in several in pay for itself whil your De Laval will actually pay for itself while you are uaing it and getting Why net ane Why not set the nearest De Laval agent at once?
If you
for now not hnow him, write to the nearest ofice THE DE LAVAL COMPANY, Ltd LAREEST, MANUFACTURERS OF DAIRY
SUPPLIES IN OANADA. Bole manufacturers In canada of the famoun De Levan Cracturers in
 loguses of any of our thes malied upen request MONTREAL PETERBORO WINNIPEG VANCOUVER 60,000 BRANCHES AND LOCAL AGENCIES THE WORLD OVER

## Will it be a Dry Season?

You don't know-nobody knows. But if you take the from insufficient moisture as hundreds of as little to fear Hamilton Cultivators last year hundreds of users of Peter Hamilton Cultivators last year,
Good seed deserves better treatment than simply planting it
haphazard. Work up your soil with a
Peter Hamilton Cultivator
and you'll get improved rewita. All teeth cultivate to the same
depth and thoroughly work up every lich of the ground. Every tooth reinforced, each section
of heavy stect. See this splendid implement before investing
in any cultivator The Poter Hamiliton Company, Lto.
Peterborough, Ont.


When Writing Mention Farm and Dairy
covering thetr trall. When the woke she found that they were camped in a strange e9rie. Thex were high up on a mountain on a shelf that gave back into a shallow cave. In front, facing the desert, was a heap of rock that formed a natural rampart. A tiny spring bubbled from the cave floor. Here the little party would seem as eagles of the Andes.
It was barely noon and the mountain atr was sweet and exhllarating Kut-le eat against the rampart, smoking a cigarette, while Molly and Cesca worked over the fire. Rhoda lunched on the to walas to which Molly had clung through all the vieissifudes of filight
Where are the horses?" she asked Kut-4e.
"Oh, Alchise took them back. We must stay here a white till your mob of friends dlaperses I couldn't feed them and 1 wanted to pacify the them and wanted to supacies fron them. Alchise will fix it up with them."
And here on this diazy brink of the desert Kutile did pause as if for longe, long hollday. The wisdom the proceeding did not trouble him at ail. The call of the desert was an allurement to which he slelded unre. sistingly, trusting to elude capture through his skill and unfalling good fortune.
To Rhoda the pause was welcome She still had faitb that the longer they camped in one spot the surer would be the puisuers to stamble upon them Kut-le becraz to devote himself entirely to Rhoda's amusement. He knew all the plant and animal Hfe of the desert, not only as an Indlan but as a college man who had loved blology.-By degrees Rhodn's good brain becan to respond to his vivid the mountaln sheff learned the desert the mountain shelf carned whites to learn it. Besides what she learned from the men Rhoda became expert from camp wrolk under Molly's pationt In eachlug she could kinille the tiny teaching. She could kindle the wny, smokeless ifre. she could concoct ap. She could detect rood water from bad she could find tornze for horser, Thr crowning pride of her achlevements was learning to wenve the dish bas. was
They had lived in the mountain niche sone three weeks when Alchlse and Kut-le left the camp one afternoon, Alchise on a turkey hunt, Kut-le
on one of his mysterious tribs for sump piles. Alchive returned at duak with a beautiful bird which Rhoda and Molly rodsted with enthuslasm. Bu Kutle did not appear at supper cim is he had promised. When the mes was almost spolled from watim rhoda and the Indlans ate. As tho evening wore on, Alchise grow uneary but he dared not disobey Kuk-o dersh.
Rhoda epeculated, torn betwee hope and fear. Perhaps the searcher had captured Kut-le at hast. Terhap the had given up hope of wianias love and had gone for good. Perhap somewhere or other, he was lying bin dy hurt! The little group sat up muc later than usual, Cesca allently smol ing her endless cigarettes, Alchiso ath Molly talking now in Apache, now Ensliah. Rhoda was convInced thin they were puzzled and worried.
Even after she had lain down on he blankets Rhoda could not sleep. Wit Kut-le gone her sense of the camp security was gone. She rose flinall and sat beside Alchlse who, ritte in hand, guarded the ledse. There wis ro moon but the stars were very har and near. Rhoda was growng know the stars. They were renofe pat of in the extetence. The sen o stupendous dlatance was Rren $t$ night then in the daytime. The fintte heavens, stretching depth yond depth, the faint far upaces of desert, were as if one tooked on Great Mystery ttself.
When dawn came, Alchlae watened Cesca, put the rife Into hor hamit and hurried back up over the mour ain. The purple shadows had lightey ed to gray when Rhoda suw Kut.
staggering up the trail from the desed Rhoda gave a little cry and ran down to meet him.
"Kut-le! What happened We were so wortied.
There was a bloody rag thed jus pelow the yous.g Indlan's knee. paused, suppurting himself against rock. Across his eyes, drawn any haggard with paln, flashed is look of did not see.
"I was late starting back," he sald briefly. "In the darkness a bit of thi trall gave way, dropped me canon and lald my leg open lot of blood. so tt has taken rest of the night to get here. Woin you mind getting Alchise to help mo you mind getting Alchise to up the trail"," look for youme," satd rhoda ply.

Despite his weaknes the dark blood "I while Rhodn's utter consctousmers
changed brought a amile set lips. Not if tho self up the trall hem to be ten times grvater avalled himentt of hith availed from Alehtse rom Alchise. put my arm areont mem shoulder we can makt it," he sald as quiletly a thoush his
not leaplas. Rhoda's Rhoda's squaring
her slender was distractingly boy Ish. Utterly heedless of the pain which ead
step cost hlm. Kuty made hits way slowly ts the ledge, ordaring hat the flustered squaws int leaning on Rhoda onff
enough to feel the tep enough to feel the tebp
der Rtrilkh shoulders br (Colntlineed on paso 20)

March 14, 19

## The $U_{1}$

## God is

"THE Lors
ance
pence. Yeaterday 11 with a discharg nad oue as he streneth of came upon power what we once ho said: Once ho said:
have done an but-" Here ? while we witnes ithaken by cont lut for a few sec again, master It those secon inelplessly, in sil binitde me on a l cap, and fastene cabinet-ales phe
and children, -W and children,
in azawer to my
my discovery: "Yes; what a comitort th (his happened, w) no more, I could them."
Oh! it we could thie pivid conscl and ablaing prese ta the hour of 1 His nearness c
ort, because He. the hour of peril needed strength, stands. As one a He can comfort
fully calls for it. ully calls for it. In the hour of bice with us, beci puch it is deserv if self-mentery, ecause He alone battle.
Thus in all of tave the blesse ense of His near

Young Peo
Conducted by

## Playing

WTH the re exstoms pastime so known as "Charade how to play them! et exclaim. Well, words acted In syll being an att and th given for the last Don't attempt to ate. It is astonishis a litue ingenaity example, a foather handle run down
makee a good hea makee a good hea
dian. A red table e dian. A red table e
ket. Patches ean sented by pinning a the coat and pants wrong side out may cod jacket

Very Easy Ming-A Little gir and is apparently Led-A girl comes Misled.-The IIttle ther led by ber moth person.
Whon the gatherl ip up into sides a charade.
Hare are a few wor braakfart, bandage,

## हRet fr fives March 14, 1918. <br> The Upward Look


FARM AND DAIRY
































































## God is Ever-Present

 ate. it is antonishing what merriment a litue ingenuity will develop. For axample, a feather duster with the handle ruin down the actor's back, makee a good head-dress for an Indian, A red table cloth makes a bianket. Patches can be easily represanted by plinning a plece of paper to the cont and pants. A coat turned rous nide out may look like a rag. god Jacket.> Very Easy Charade.

Mis-A Atttle girl enters the room and is apparently hunting for some thing she has missed.
Misind-The comes in leading a dog. ther led by ber mother or mome other person.
Whan the gathering ta a large one, ivide up into sides and each alde get Here are a
adopted to rowresentatian are sasily brakfaut, bandage, courth Groomsbraakfast, bandage, courtship.





























































cannibal, Manhattan, Conatantinopie
feline, parndox reline, paracos.
amuament foctug words, there is "A new broom swe proverbs such a Charades for st Patriean."
This month the Patrick's Day. may most easilly plan on which we a "B," castle fair in my place you wink ne. homage a stone-if you due homage show. ever will fow from your lips ever will flow.
(8) My first halt means a elty great and renownod;
y second an Irish "derry" is While 1 fm
conain not so great as my cousin, $\mathrm{T}^{\prime \prime} \mathrm{ll}$ ewn, wholly unknown
) My first halt is water, my last means a crossing.
I'm down in the south near the Many waves tonsing:
any sleges historic and battles I reefsted Lord Cromwell and welcomed Prince John. (Continued on page 22.)

## Westclox

7rnctox is Big Ben's family one in the puenued Woutar way-a bee
name. Westdan is a name ter nethod of clock making Noed name. Westclar is a name pivote of polithed neek grevily reduc an alarm clock is proud fivotion. Wpolither nun on time and revis on to bear. Westclox is a mark of time quality.
horace that' Why ther make clocks have the All Weuther must can the right to monce, thayd.
 Western Clock Co - - makers of Westclox


Endurance!
 Therlion untiour mom





COWAN'S
B-41

Farm and Dairy stands foursquare ausainit everything that io detrieither advertising or editorial, is guaranteed rellable.

## Gardening Plans for This Spring

## Alice A. Ferguson, York Co., Ont.

THE garden is plied high with snow, and the hot beds aro two feet deep over them. But the sun is getting its strength again and the weather is freaky, reminding us of spring. All through the very cold Winter the thought of spring and the garden, was the hope that saved the
heart from utter weariness when the heart from utter weariness when the
Frost King held sway, In the midst Frost King held sway. In the midst
of it all we planned the campaign for of it all we planned the campaign for
the coming spring and ordered our enede. We also looked over our left over seeds and the seeds we grew from laft year's crop of beans, corn, etc. It is our patriotic duty this year to use all seed to the best advantage. Seed is very scarce. If we have any seed to spare we shoutd dispose of it
that others may not lack. Think of

## WTIN One of these new 1918 autfos WIN Or their full value in Cash!

 Solve tfans Great Moving Picture Mystery Over \$1600.oo in prizes To be géven FREthe possibilities of each seed. A lettuee seed, if given a chance, will grow into a beautiful head of lettuce, the salad portion of a meal. A five cent seed package contains such a lot of seed that we are inclined to sow lavIshly, and many plants die because they are too crowded or grow thin and spindly.
In sowing lettuce 1 choose a loamy soil, with plenty of moisture to insure rapid growth. Scatter the seed thinly and keep the earth worked around the plants and water often. Thin out the plants as needed for salad, but leave plenty for growing into heads. I sow a small box of lettuce in the house and have it ready to transplant Into the hot-bed and cold frames and have deliclous lettuce ready early, and beautiful crisp, tender heads coming
on later, I never knew the toothsomeness of lettuce until I tried the varlety Crisp as lee. fis is well hamed. for it is too tender for marketing, but
is easily grown and forms a nice head, Is easily grown and forms a nice head, exceedingly tender, juicy and mild. In warm dry weather, a good watering
with nitrate of soda solution, say With nitrate of soda solution, say
about an ounce of nitrate to three about an ounce of nitrate to three
gallons of water, will increase growth gallons of water, will increase growth rapidly, and is an excellent fertilizer.
It is also an excellent tonic for toma. It is also an excellent tonic for toma-
to plants. to plants.

Sow Radishes Also,
When sowing the seeds of parnips, bepts or carrots, before covering the seeds drop in a thin scattering of radIsh seed-White Icicle is a favorite. The radish seeds germinate rapidly, outlining the row, so that cultivation may begin. But the best early radishes I grow are from the seed sown
in this way. They grow rapldly, are in this way. They grow rapldly, aro pulled out for table use and the crop
of beets, etc., is not apparently incon-
venlenced in the leant by the crop of radishes.

Ons method of conserving seed is to onion sieed in a corner of a hot bed or onion Heed in a corner of a hot bed or or four tnches high. They favariably or four inches high. They invariably
erow well, requiring the whole growkrow well, requiring the whole grow-
ag season in which to complete large agg season in which to complete large
growth. In this way onlon seeds in one season will grow onfons as large as those grown from Duteh sets and a little soed will go a long way, Corn a litie seed will go a long way. Corn
will also tranaplant. Last year was Will also transplant. Last year was an unusually good year for transtimes, so that little watering of trans. planted plants was necesaary, I trans. planted corn and found it grew well.

Germinating Test Successfúl.
My method of transplanting tomato plants from the germinating test, has proved very suecesful. In this way every seed is accounted for, 1 usseed and as I require only part of a seed and as I require only part of a
packet of each kind In a season, there packet of each kind In a season, there
is always old seed on hand. I test Is always old seed on hand. I test
It for germination on the syatem of It for germination on the syntem of
two soup plates, and two sheets of two soup plates, and two sheets of
blotting paper, kept molst with warm blotting paper, kopt moist
water. As the reeds sprout, I plek them water. As the seeds sprout,
out with a tooth plek, transplanting out with a tooth plek, transplanarts,
them into flats with prepared earth, placing the seedilings an Inch and a placing the soedilngs apart. With dally watering with tepld water and a warm atmosphere, they grow nicely and are ready to they grow nicely and are ready it is
tranaplant into the hot bed when it tranaplant into the hot bed
resdy. By beginning this method resdy. By beginning this method
about March 17 th or $20 t h$, early about March plants will be in eplendid condition plants will be in eplendid condition

WHO ARE THEY?
(1) I PARCK MY FORD (6) ROAM OR DIE (2) AFOUMDAMSSBRIK (7)FUN MUUT DRAIN (3) MUKR ACUIER GIRL (8)ALETS BEN CHEW (4) A BAD HEART ©NEVER LYE BABY (5) WET A SATIN RAT ©I PREACH ALL CHIN
for rapid growth when set out into
the open about the second week of the op
June.

In tr
in transplanting tomato plants into the sarden I prepare the holes carefully, digking out the soll and mixing
with it as I put to back a little well rotted manure and a lttle wood anhes Then I pour in water, insert the plant Then 1 pour in water, insert the plant first leaves and they invariably thrive and produce abundantly.

Playing Charades
(Continued from page 21,
(10) My first half may mean branch, my last rhymes with trick;
I'm quite a large city and built of
In popular usage, and not meanoffense.
My name means a rhyme more jlin. gle than sense.
These Magnificent Prizes given for the Best, Correct or Nearest Correct Replies !


This Great Contest Is Absolutely Free of Expense. Send Your Answers To-Day!
 ers who would soon oe appearing in the picfashed were each night thasied on the screen. On operator, wanting to the a little joke on his pud lence, took the names of ience, took the names of
the players and so mixed up the letters in each out the funny sentences you see above.
 only to po demanded back.
Many of tue sudicice aro
mituy torioustaines. Con you hotp lis cow you are not familius


(11) I begin with a ball, and next comes a brig:
I'm a village old and not very big.
My people are weavers, as you
TIII my mappose, names come to meaa some soft cotton clothes.
(12) I begin with an " s " with an " n " de 1 elose
In a popular song, I remind you of rose;
Im a river in Ireland, and noble y bright wate
bright watera stretch throug
Answern-(1) Belfast; (2) Dublit (3) Cork; (4) Kikenny; (5) Galway (6) Killarney; (7) Blarney; (8) Lon-
donderry; (9) Waterford: (10) Limdonderry; (9) Waterford: (10) Limerlek: (11) Balbriggan; (12) Shasnon.

Last yoar we grew Early Eureka
ensillaze corn. We were in the wat ensllaze corn. We were in the wet
district and many nelghboring silos district and many nelghboring silon are empty. Ours, however, are full. The corn grew 12 to 14 feet high and We have a very good quality of ell ellage. Next year we are using Sab
eer's. North Dakota, which we will zer's North Dakota, which we will
mis with the Varly Eureka and by mix wilh the Early Eureka and by combining these early and late mir
turing corns we expect to get a still turlng corns we expect to get a stid
better quality of ensilage. We plantod last year on May 17th. We beliere In retting the corn in early,-D. G Flatt, Wentworth Co., Ont.

$\mathrm{H}^{\prime}$AVE yo
you ha been ti a fow imiles lady readers smiles by se polumn of a wered this le tions recelve just as thous give your nal
contribution ous as possit the next $\$ 1$. a six months? to reply.
ving all alone irif knew sin nnow you wili
iwfully "I've sure lay and got a
mop,
dishpa nother when $\begin{aligned} & \text { net } \\ & \text { ook in it. }\end{aligned}$ ugar, and mas Now, mac poard to work: "1pill come tet married.
fraid. The Father llikes yo
but I think wh "Now, VII with very mue

## HOME CLUB

## Let's Laugh a Little

HOW many of us can henestly say Whal we laugh as much as we owing to the war way? of course. with a great many serious contronted and it is more dififeult than usuabl to avold what the boys call "pulling to long face." Is there not a danger. howerer, of our taking thinga too ser. ously? There will always be plenty of sombre subjects to think over which will keep us serious, so would whe not be wise to break the monotony once In a while and practice looking on the bright sitae? It seems to mo that il pays to exerctiee the funny bone once tor a while, to put on our best dreas
 pany isn't comings, and with husboand. and children have an eventing's fun and a good laugh.
We housekeepers have a tendency to become very serlous over our house. keeping tuties. We think it is is almost a
matter of life and ${ }^{\text {matter of life and death if we do not }}$ get our work done fust so; it the chil dron happen to spill a glans of mitte on
the clean table e colth the clean table cloth, or something is
the boys are sending back to us. The housohold pages of our farm to the fintereats of the home, tell us how to save food, how to do our housework intelligently, how to improve our surroundings, keep ins in touch with abor-saving devices, etc., but very sel. dom do we read articles which tell us how to laugh. Wouldn't it be splendil If some physician could discover a tonic, which if taken before or after meals would cause us to be light hearted and teach us how to laugh. I have heard it said that if a wo man can once touch a man's funny bone and make him laugh, she will will his loyal love. Can she not win the love and friendship of many others aa well through the art of being cheerful? Why don't we try more freguently to touch the funny bone, instead of rubbing people the wrong Way? I believe all Home Club members will agree with me that it pays.
-"John's Wife."
"M" for March and Marmalade

WHEN in converation with a hriend a few days ago, 1 asked marmalade, to which she replied: "My lifing for orange marmalade is My a joke at home. It is my favorlte breakfast dish, and If It doesn't happen to be on the table when we alt down,

## GIRLS, HOW WOULD YOU ANSWER?

HAVE you read that letter from "John's Wife" on this page? If you haven't, just do it now. Since receiving this letter we have
been thinkting that probably this household department has been wearing rather a long face lately, and that we might well practice lady readers ancasionally. Accordingly we are going to give our young smiles by sending replies to to cause some interest, and also some column of a chicago paper, the following letter. In the "love letter" peared, and what we want to wered this letter had you been the resipw would you giris have anstions recelved must come from unmarient, of course, all contribu. just as though you were replying to "ulacki iadies. Write the letter give your name and address, although If you the writer. Be sure to contribution with a pen name. For the lig you wish, you may sign your ous as possible, we will award a prive of ister, making it as humor the next \$1. Other Ietters: published will aix months' renewal to Farm and Dairy entitle the contributors to us not later than March 26. Here is "Jack'g" libutions should reach to reply. living all alone, I have decided to get married, I Ilike you the best of any
giri know since Minnle went back on mer and girif know since Minile went back on married, and It like you the best of any knowt it. Whave a ring I got for Minnie; it will hit your finger, to suess you awfully lonesome llving all alone. and you are a nice housekeeper. It is day and cure made up my mind to
a mop, dishpan and waterpail. I house; a a washtub and washboard, y yopeor. mother when we have thrashers. I got some dishes and washboard a broom,
look in in it. Yo looking giass, too can borrow of look In it. You can sew some rags to makeking plass, too, and only me to sugar, and maybe to town to-morrow and get arpeek of foue sitting room.
Now. Madge, I tike youss. But, perhapp Pd better wait until tea, and
 good to works one can't do all the work alone on an an and I think you are
learn to milk the cows and be a great help on the farm. That. You ean
good reason for getting ment get "Marlilede over Wednesday
get married. You can ride the ho horseback and we can go right away and
afraid. The nelighbore will Just know wentie. FIl lead le if you and
Fether thens yol arraid. The nelghbors will Just know we are goling off to le if you are
Father thes you, but says you'll not have mes
but I tink but I think when we are mourried hot have me-you got too much educarried. waste any time. The more It think athy You be all ready: we dond. waste any time. The more I think about it the better, 1 love you. need to
with very much love.-Jack.t
accidentally broken, we look upon it as a real calamity. When we get to the stage where such thingo as I have mentioned appear to us as tragediea, Fe need to call a halt and tell our selves to "buck up" and look on the bright side. And speaking of bucking up just reminds me of an fnctdent showing the undaunted apirit of the boys overseas and thetr never-falling optimism. Here is the story:
stairs in and soldier was walking upofficer of hospitat one day when an The young the Y.M.C.A. was nearby. head to foot; he was bandaged from terribly eut up by wounds and he could scarcely walk around. This op ficer stood and watched him, and after the young fellow had gone up a few steps he noticed this officer looking at him, and notictng the pecullar look on his face, the man with the bandages turned and sald with a smile, Buck up, old man, buck up." That In the challenge and the spirit that

I usually go atter it before the mea is finished. I suppose March is usu ally tonsidered about the best time to make orange marmalade, but we is exhausted. We we: ever the supply a very a very good one, the best in fact that we have-yet come across, and making marmalade from this recipe is very paychological moment fored this the a word ical moment for me to get in a word, so I immediately asked my mend for her recipe, having Our Wo Hen Folk in mind at the same time. Here la the recipe as it was given to me:
One dozen oranges (aweet), one hait dozen lemons. Boll oranges and Take ont the, in water for five hours. peel out the inside pulp and cut the water in thin siices, Add a pint of avery pound of pounds of sugar to very pound of pulp and peel. Boil minutes.
recommended recipe which bas been recommended to is is made as fol


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All you have to do to get one of these fine cheats of
Silver is to Send in to us Silver is to Send in to us Subsoriptions to Farm am Dalry. The
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Oo out this week and se cure the Ten new sub-
seriptions. It will not take

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 you long to get these. Call make it netghors on your way home from school, and on Saturdayus and we will immediately py the remainder. Send them along to us and we will immediately on recelpt of same, have the silver sent forward to you in a fine hardwood chest fitted with drawers and han-
dles. Circulation Department Farm \& Dairy Peterboro, Ont. When Writing Mention Farm and Dairy


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enient to carry thot you ca oliwey have
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mation, enclosing stamp about cooperamation, enclosing stamp about coopma.
tive insurance. Jak. Lochie, Zephyr, Ont.
FARM FOR SALE-185 acces: plowing


> Karm and Dairy is in an excel. le rt position to champion the cause of the farmer in Canada, secause it is owned and con-
trolled exclusively by farmers.
lows: Take 12 -sweet oranges (bitter ones may be used if preferred), and lour lemons. - To this add 21 cupi of water and let stand for 36 hours. Place on stove and ahow it to hoil from one and a haif to two hours, no as to become a little thick before adding sugar. Then add one cup of nugar to each cup of the liquid. Do not allow it to boil long after the sugar has been added, fust untll it begins to jelly.
Some people like marmalade made by combining or anges, lemons and to use in the proportion of one orange. one lemon and one grapefruit, and after measuring frutt add three times Its bulk in watser. Let stand over nfght. Nest mornint batl 10 minuter Cover tightly and let atand again over
night. Boil 11 minutes the following morning and to each pint of fruft add a pint of granula ed augar and bolf, until it jeltles, itlirt ig an tittle is posifthte.
Those of us who are endeavoring to gave sugar as far as poesible, may not favor the ldea of making marmalade
for that reason. For those of an experimentative turn of mind, however, this diffieulty may be overcome by using ghucose Instead of the regular came suger. Recently in the Domes. the Sctaner Sectlott of the Teelinteal School in Toronto, classes have been trying out glucose in making marma lade with good success Chucose, wo are told, fs mate by henting starch under pressurs witti striphtrele aeld and Its sweetneas compared with cane sugar is three to five. it can be pr cured either in erystalifised or in syrup form. Hy tethot phacese we would not only be obeying the advied of the Food Controller to prenerve all non-exportable goode possible, but wh would also be savins susar. At the same time, Buthorities at the Technit cal School claim that we would have a delicious marmalade at less cost than if made with eane surar. One of the recipes used at the Technical School for makine this marmalad was as follows:- cua grape frult, one lemon, one orange, elpht cupt of glucose and 10 cups of water, whlch wil make eight ptnt- of marmalade.
We will be giad to hear from any of Our Women Folk who try out thls method and find it niccessfal or other-wise.-R. M. M

## Improve Fith With Sauce

F
LSH is much lmproved 18 served with sance and below we rive
two or three ways of making fish sentec. Nyeryone pesselbly is famither with the atandard white sauce fo flah made with flour, millk, butter, pepper and salt. To vary thlie atl ast sauce may be made by addiag is hard bolled ege chopped very fine, or add the yolk chopped fine to the asuce and grate the white through a sleve over the fish when serving, or viee versa.

For tomato sance make the same as white aunce using tomato Julce that has been etrained from eooked tomatoes, instead of milk and add an onion. Horvernalish satuce can be made by adding to white sauce a tablespoon of srated horieradteh, wet with lemon Julee and work to a raamy whitenesk
one destres to make a faney dish, they might serve Maitre d'Hotel sattics with the fish. Thite in made by beating two tablonpoons of butter to a cream with the Juice of hall a lemon, sdding a tablespoon of finely minced parsley, Berve cold with hot fiah. Thin nauce may he served in little cups made from haif a lemon from which the pulp and finilde Btin hat been removed. Holiandalse namee is made from standard white siuce with the addition of the yolk of an egis and after removing from the fire, the Juice of half a temon. This can be served with etther bolled or baked fieh or with filh cakes.

How About Shoes and Gloves?

| Farm and Dairy patterns shown in these columns wo espectar prei ared for Our Women Folk. Thay can be relied upon to pottern. When madela and include the mose mosirnt to state bust or walist measure for sending your order plase bo carefomber of the pattern deacribed. Ordera adulta, for ahnaren, and tion 10 daya after reeopt. Price of all patteras to Our Winan yoik, Nocenta each, Address orders to Pattern Dept, Farmand Datry, Peterboro, OnL. |  |
| :---: | :---: |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |



P
Romabir one of cha first pointe of costume which we notice on a wo-- man who is attractively dressed is hut whore If they are neat-atting, clean of satiafaction and admifration. Then we look at her gioves, and if they are clean and "holeless," this is another strong
polnt lin her favor. On the other hand, no matter how neat. and ploasing this woman's hat and gutt may be, If hee ahoes
are anably lookint and rundown at the are ahahby lookint and rundown at the henis, and her glowos very much solted and yery muddrn drop bhoes and floves are yero verr frmportant parts of the costame, and alhough they are rathen expenalve
nowndeys, we phould do our bent to be as nowadeys, we phould do our boet to
neat as posethle atong thene lines. There are a great mainy pretty style shoes this searon, and if we do not get a model that to extreme, we may well deVate from the all-black shoe for spring
and mammer wear. It is rather a notlee-. and nummer woar. It is rather a notieedom fachlonable for more than one seanom at a time, have now been in favor for everal sessons and are ntill hasthiy popuMived, and comes in both oalf nkin and kid ekfi. Fancy-topped shoes of contranting color from the vamps are also bolog ghown
a kreat dea. Low. mettum nnd hirh a kreat anal Low, mettum and hirh heels
seam.
heel.
hals

2ass-Cuirl's Dress This deinty intile frock for the mmall ehfld lis stmple and efective. The samocking on elther side of the front and alao in tho centre back
mikes is pteastng trimming, The coitar may te trimmedt ether with laee, huttoni

## . 6 and $\$$ year

2440-Dress for Misues and small Wo-
men-For thowe who- devire a loose, flowIns and comfortable drees, the one her ing and comfortable dreas, the one her
shown will ne doubt appeai favarably. shown will no doubt appeai favorabty.
The pmall v vew shows the way in whiten

peath the wor In the camg
mand while K watching her put one of Alc on to boll over washed out th aged it with at and hor own t oaxed the yor yumb ereat the happiness ras was fuat the far peaks his bace looking at him
on one side, wit f superiority, placent tender ered to the ne ouline thing. "There!" sh satisfaction. "Rhode," satd he heavy thum
how long ago helpless, dyis itrongth to cut How long sthee en but yourse Rhoda drew atood startng fr degert, to her
again. She hel looked at them. and brown and the looked at t her eyes.
"Kut-le!" she
am well agatn! She paced bacl cheoks flurobed ally she stopped
"You have out od instbects" 8 you have saved
health. Whatev nêver shall forge have chang id hatred of the Rhoda turned t of the distant ra of red. Crimeon more tribilituoent, nto molten gold. scarlet, rolled. Rhoda's heart flo finite aplendor, finle peace.
"Why!" Bhe gas beautify! Its no The Indiani tiod peak. - Rhods ne hat den Long yee ber rebirth. Sud her rebirth. Sud
that never conld-a hearth in a settin The realization wa रutie, with sympe was gratetul, did nucd. Once, howe smoothed his blank "You who have of manded service all "T'm not serving pay up some of the Kut-le Wes atout
and by the end of quite hfmselt. He expeditions with R Which provided tex sert learning. Rho mediate rescue had trange conflict of onger tor rescue, w peopla, and yet the

## The Heart of the Desert

## (Continued from page 20.)

peath the worn blue bloase,
In the camp, Rhoda assumed com mand while Kut-le lay on hfs blanke watching her in sllent conteint. She put one of Alehise's two callico shirts on to boll over the breakfast fire. She washed out cae nasty cut and bandaged it with strips from the stertized Whir, she brought Kut-le's breakfast and aer own to his blanket side and coaxed the young man to eat, he asruming great indifference merely for the hapyiness of being urged. Phodi was so ehergetic and efficlent that the sun was fust climbing from behind the far peaks when Kut-le finished his bacon and coffee. The girl stood ooking at him, hands on hips, head on one side, with that look in her eyes of superiority, maternity and com placent tenderness which a woman can assume only when she bas minisfared to the needs of a helpless mas. uline thing
"There!" she said with a sigh of "Rhoda"
"Rhoda," sald Kutle, hoping that the heavy thumping of his heart did not shake his whole broad chest, how long ago was it that you were a helplens, dying ifttle girl without strength to cut up your own food? How long since you have served any ne but yourself?
Rhoda drew a quick breath. She stood starlag from the Indlan to the desert, to her slender broty, and baek again. She held out her hands and looked at them. They were scratehed and brown and did not tremble. Then she looked at the young Indian and he never was to forget the light in her eyes.
"Kuble!" she cried. "Kut-le! I am well azain! I am well again!, She paced back and forth along the ledge. Through the creamy tan her cheeks floshed richly crimson - Yib ally she stopped before the Apache. You have outraged all my civlliz. ed. Intincts" she sata alowly, "yet you have saved my life and given me nêver shall forget that!", Kutle, I "I have changed more sald Kut-le quletly, "Where that," old hatrod of the desert?" Thada turned to dook?
Thoda turned to look. At the edge of red. Crimson spokee of fire nashed to the senith. The sky grew frishter more tranfuegnt the rand jos mater; tato molten gold. The sum hot and scarlet, rolled. The sun, hot and scariet, rolled into view; Into finite oplendor, infinite a seratity, infinte peace.
"Why!" she gasped to Knt-le, "It is beautifon! It's not terrible! It's un-
dorned beautyly
The Indtan: hodded but did not theak. = Rhoda never whas ts forget that day long years after the was to her rebirth. Suddenly that day 6 o her rebirth. Suddenly she realized that never conld-a human have found health in a setting more marvelous. The realization was almost too much. Kutie, with sympathy for whleh she Wha grateful, did, not talk to her much. Once, however, as she brought bim a drink and mechanically smoothed his blanket he said softly: "You who have been-served and demanded service all your life, Why do you do thla?"
pay up not serving you. I'm trying to pay up some of the debt of my life." and by was about in a day or so and by the end of the week he was quite himself. He reaumed the dally expeditions with Rhoda and Alchise Which provided text for the girl's de sort learning. Rhoda's old despond bacy, her old agony of prayer for im mediate rescue had given way to trange confict of desires. She was paser tor reocue, was consciohs of a constant aching desire' for har omn peopla, and yet the old sence ot owt
rage, of grief, of hopelessness was sone.
Of a sudden she found herself pausing, thrusting back the problems to the full this strange mad she drank which she felt must mad joy of life Which she felt must leave her when
she left the desert. She knew only she left the desert. She knew only hours of fever and pain were no more. That her mind had found its more. polse but with an utterly new old point of life. Her ulterly new viewlungs breathed deep. Her eyes. Her distances too big for Her eyes saw tion, heauties so deep that concephad to expand to absorb them splrit The expand to absorb them.
laborions crests that tossed stars, the and unspeakable views tossed sudden eyes, the eternal canons before the neath ranges of surpassing majesty roused in her a passion of delight that could find expresalon only in her srowing plysical prowess. in her and ate ilke a splendid boy. ived after day she scaled the ranges way Kut-le and Alchise; tenderly reared creature of an ultracivilizatlon reared was, she learned the intricate as she the aborigines, learned what students of the dying people would give thelr hearts to know.

Kutle wakened Rhoda at dawn one day. She prepared the breakfast of colree, bacon and tortilla. Alchise Kut-le, though eagerly with Rhoda and with the aquaws. The day was stil gray when the three set out on a long day's trip in search of. game, The way this morning led up a canon deep and quiet, with the night sha dows still dark and cool within The air was that of a northern day of June.
Rhoda tramped bravely, up and up from cactus to bear grass, from bear grass to stanted cedar, from cedar to pines that at last rose triumphant at the crust of a great ridge. Here Rhoda and Kut-le flung themselves to the ground to rost while Alchise prowled about restlessly. Acroes a hundred miles of desert rose falnt now-capped peaks.
Kut-le watched Rhoda's rapt face for a time. Then, as if unable to keep bacic the words, he said softly: "Rhoda! Stay here, always!
Rhoda looked at the beautiful pleading eyes, She atirred restlessly; but before she could frame an answer Alchise appeared, followed by a lean old Indian all but toothless who wore a pair of tattered overalls and a gauze shirt. The two Indians stopped before Kut-le, and Alchise Jerked a thumb at the stranger.

Kute no white tank," he said. Ktte, whie passed the stranger a cigar ment. A rapld conyeration followed between the three Indians,
"He is an Apnehe," explained Kut-le, finally, to Rhoda. "His name and Portor he Bays that Newman and Porter hired him to trail us but advanced of the job. They foolishly advanced him five dollars. He says they are camping in the valley right Rhoda spr
Rhoda sprang to her feet.
Where are you going?" smiled
Kut-le. "He says they are goins Kut-le. "He says they are going to Under her tant
Under her tan Rhoda's face whitned.
if "Would they shoot you, Kut-le, even I told them not to?
At the sight of the paling face the young man murmured, "You dear!" Inder his breath. Then aloud, "Not if "Here your husband.
"How could I marry a savage?" Kut-le put
Kut-le put his hand under the cleft chin and lifted the sweet face till it ooked directly into his. His gaze was "Am I nothing but
Rhoda?" he sald. "Am naked savage. Rhoda's eyes did not leave his. "No!" she said softly, under her breath.
(To be Continued.)

 BOYS! $\$ 10.00$ cash to you if you solve thecontentsof the Soldier's Kit Bag and mail your answer.









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Keep roses and
from suckers, shoot
buse of the plants.

The Maple Sugar Drive
APLE sugar and maple syrup
production pome as the fint at production eome as the finst atcampalign for 1918. The call for food of all kinds comes. to Canada and all Canada, vast ane west, to save the situation must produce this year as never before.
The first crop of the year in Eastorn Car ada it foast, and in parts of. Manitoba and British Cotumbia as well, is secured by tapping the sumar mapioa The season is due to open In Besex County, Ontario, the most southerly potnt in Canada, about Fill crees north gradually the spring Will crees north and east, apreading across the older part of Ontario inte the Eastern Townahipe of Quebec and on to Now Brunswick and Nova Bootia. The sap running season will: last in each section until the leaves bud-about three or four weeks. The greatest use a farmer can make of that sap rumning period, it he has a sugar buak nil his farm, in to turn in
with all the help he can command of with all the heip he can command or persuade and make a couple of hun.
dred dollars' worth of dred dollars' worth of sugar. It will
cost him nome firewoed it cost him some firewood, it is true, and
in some dietricts of Cinada cordwod in zome digtricts of Canada cordwood
is getting mighty searce is getting mighty scarce, but the farmer has to conmider that this lo an
exceptional year. We heve lomen axceotional year. We have had a great workd shortage of cane and beet
sugars. Canada has not sugars. Canada has not suffered as some
nusar
is greater then demand for Britain in on a nugar ever known Pritain is on a mugar ration of two pounds par month, France one and onetenth pounds per month and Italy
one poumd per month. one pound per month.
The Canadian market has hitierto readity absorbed 75 por cemt. of the Canadian sugar maple production. The United states takes all we can send and would zatadly take more. Weast where the pure maple market Where the pure maple sugar and maple syrup of the East is highty es it has bean the oig cittles of Canada it has besn hard to get pure maple suknr and agrup, and the demand for the pure products has for years exceeded the supply. The United
Statese offers an milimiled male Ant furthar, the umimited market. And, furthar, the American people have been alked to conserve cane and beet sugars and reduce the congrmption of sugar candies. The wrerid are forced to candliss in the World are forced to find substitatos. Maple sugar is a wholesome subatitute and popolar Wherever Introduced,
The people of Britain and France have lately been made acquainted Fith the Canadian sugar. The Canadian soldiera have introduced it to the front by the Red Co been sent knowladies of mants faros, and the knowlodge of maple flavor has apread by now into the various countries of Burope where Canadian troope have foundation for a permas created the trada and Camedtan maple paport trade and Canadian maple producera have now a market opportunity prae. Moplo surat a limit.
Maple sugar and syrup have been protectod from adalteration by the Afulteration sugar amendment to the Aduiteration Act, paseed in 1915, and brandtige or ofering not be used in the pure proferets for sale any but the pare producta Dealers in the Ottawa Vatley and the Eastorn Townnettigg is contec are offertag pricen nottiog 16 conts a pound to the farmers for sugar and $\$ 1.75$ per gallon for syrue. These prices are easily double Frary araived five or elx years ago. tapped this mople maple tree should be bucked pall and pand avery sap bucko, pail and pan pressed into service, whother it in the most up-to-date trys ounft thet the old-time sugar makyours thet has not been used for pours. Every little holpa. Every pound of maple wagar is wanted.
Keep rones and other shrubs troe from suckers, shoots that start at the
base of the plants.

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We have no time to hasue Price Lists. Don't ank for any. Shlp us your Meskrats. We will pay the very hithest Market Prioss. Put your own valastion on them if you wish, bat ship to us, A trial shlpment will convinoe you that we are the best buyers of Raw Furs in the World. We have Stacks of Money.
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# RENNIES War Time Production Seeds 



## 40 Annual Winter Sale 36 <br> Head or Females Registered Holsteins

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The Brant Distriet Holstein Breeders have a reputation for square dealing and high quality animals at their various sales, and the sale on the above date will be no exception to the rule. The offerings are a partieularly fine lot. The 36 fe males are mostly young cows, fresh, or due to freshen at time of sale. There ase four sires, choicely bred and of serviceable age. If you are on the lookout for some high quality animals for your herd you cannot afford to miss this sale. Write for a catalogue and see the backing of the animals we are offering.
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## When Writing Mention Farm and Dairy



NORFOLK CONSIGNMENT SALE OF
 Norfoik Holstein Brceders Club,
was held at Hagessille, on Thurs-
day, Mareh 7 th, about 400 men were day, Mareh 7h, about 400 men were
present, and while no phenomenal prices
were realized the average was good R. E. Haegar wielded the hammer in a
moot satiofactory manner and put most satiffactory manner and put
through the entre consignment in leas
than three hours The hidhest price pald was by T. Wil-
son, 8 mithville, who pald $\$ \$ 00$ for W, H.
Cherr's bull cal Sylvia. The highent price for a female
wrat stoe for Johanna Notherland Benn alao consigned by Mr. Cherry.
The total recelpta were i5, 335 , or at
averatg of 5156.90 per hend. Dighteen average of $\$ 156.90$ per hend. Dighteen
mature cows averaged $\$ 176.66$, eight heifers averaged $\$ 140$, fve calves averag-
ed $\$ 158$ and two bulls over one year old averaged 1102.50
The following are those which sold for
sioe with thelr buyer. $\$ 100$ with their buyers
Emmernot Pontidic Sylia, s500, T, Wil
son, Smithville; Netherland Duke Posch. \$10, J. A. Failis, Jarvie: Dora of Elm
wood, ite. A. Fhust, Haseriville: Lyn denwood Duchess Fhforit $\$ 190$, B. Y
Bailey. Hagerville; Lalu Diotime Posch,
sito \& Scheveyer. Harersille, Metch


## Ad Talk

## TIME WELL SPEN

SIT at my desk and glance out the window. it is pouring rain,
congratulate myself on the fact that Iam not out on the road. That is where it frequently falls my lot to be during bad
weather. Nevertheless. I am it at ease weather. Nevertheless, I am ill at ease
There is work for me to do. There are There is work for me to do. There are
breeders of all classes of live stock ai breeders of all ciasses of live stock all
over Canada who have stock to sell.
Farm and Oairy has proved itell one Farm and Dairy has proved itself one
of the very best means of seling this
ore of the very best means of seling this
stick, and is my duty to keep these
breeders in touch with us here in peter. boro.-and by so toing tot Farm and
bot and
Dairy put them in touch with the man who wants to buy.
a sigh of salustaction falling and heave good roof, my thoughts run thuswise. owing to weather conditions, I am no
permitted to visle, personally, aft tho who have live stock to sell, and thus
present to them the value of Farm and bairy, as a means of selling their sur.
plus stock, why not visit them by proxy I can do io through this cotumn of Fary
and Dairy. So the result of this line of and ought fis the writing of this open letter to those scores of good breedere, who,
through lack of time, through lack of time, I am unable t
visit personally at their own farms. visit personally at their own farms. Farm and Dairy i find that the best rer
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In touch with is incomparably less than
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one rainy afternoon, through my chat one rainy afternoon, through my chat
with you in this column.
is not this fact oulte comparable to the with you in this column.
is not this fact quite comparable to the
farmer who has stock to self? if it were farmer who has stock to sellf if it were
possibe for him to visit the farm of
every possible buyer he would undoubt. every possible buyer he would undoubt.
ably make exceltent sales, befter possibly than cound be obtained In any other way.
that what about the cost, both in time
But whe and railway fare.. Personal touch is al.
right in eelling where the right people
are touched. are touched. But It the breeder were
to start out to set his surplue stock by to start out to sell his surplue atock by
the direct contact method, driving from
tarm to farm all over Canada, his anl. tarm to farm have died of old age before
mats would how
he would have accomplished very much. he would have accomplished very much.
Instead, why not take a rainy after. noon as I have done, and make use of
the columns of Farm and Dairy, also,
 In one afternoon 22,000 prospective buy-
ersi more than you could call on personally in ten years. This will bring
both written enquiries and personal visl. both written enquiries and personal visl.
tors. it will bring you a select. sifted. tors. It will bring you a select, se buy.
class. The men who really want to buy Now will be the time to oet in personal
touch with these prospective buyers. towch with these prospective buyers.
What is more important still you can do it right on your own farm, In your own barn or at your own deek. Instead of
running at over tooking for buyers, buy. running all over tooking for buyers, buy.
ers whll look for you. Pink and a farmer talks best on his own home solt. Bring the other fellow right
to your barn. Don't run after him. Take to your barn. afternoon, or better still, the
the first wet after first evening and write your fellow breed. ers through the advertising columing of
Farm and Dairy. The cost is small. Tell Farm and Dairy. The cost is small. Tell
them what you have for sale. Attend carefully to the resulting correspondence. Treat courteously your visltors. Then
watch results. watch recuis. not time to attend to this
if you have to have it in our special sooner, try to have it in our Special
Dairy number, which appears on April
tith with the exeention, t4th. With the exception, possibly of our
Christmas ${ }^{\text {No }}$ umber, this is the best lasue of the year, and as a seller of dairy
stock it may oven aurpass that lasue. of tock it may even surpass that lasue.
This to not Imagisation. is is plain business facts, llustrating sound, busi-
ness princlpies, which haye stood the nees princlpies, which haye outood the
tent of year., Ask amy of our regular
advertioers about it. Try it yoursef and
yow will be as enthusiastic as they are. Live stock Representative, Farm and Peterteiss Owtarla.

# STONEYCROFT STOCK FARM DISPERSION SALE 

## at Ste. Anne de Bellevue, Que. at 12 o'clock Pure Bred Ayrshires Ayrshire and Holstein Grades <br> We regret very much that we find it necessary to dis-

pose of our stock. The fire which demolished our buildings last fall, however, has made it impossible for tis to continue until other arrangements have beon made.

While tuilding up our herd, our objeet hes been to procure individuals-possessing beauty, utility and breeding. Two main points that we coneidered were utility and health combined with pleasing conformation and good breeding. The resalt has been satisfactory. We now possess a healthy herd of good producing eows with a uniformity of type and breeding which compares favorably with that of any similar lot ever before offered to the public. We believe that every animal offered in our sale will make good and uphold the proud standard that the Ayrshire Cow has won for herself among the Dairy Breeds of cattle.

## Breeders and prospective breeders, here is your opportunity

to secure individuals of good conformation, breeding and utility, which will make creditable additions to any herd, and a safe and sound investment for the prospective breeder who is laying the foundation for a healthy herd of cows with the desire for uniformity of tspe and production uppermost in his mind,

seV. 297. , 1917. (TO WHOM IT MAY COMCERE:PHIS is To CEnTIFY THAT THIS THENTY-NINTH DAY OF NOVEVGER NINETBEM HUNDRED AND SEVGNTEEN I HAVE COMPLETED A THERMAL TEST YOR TUBERCMOSIS OF AHS CATTLE OVER SIX YONTHS OY AGE, THE PROPERTY OF STONEYCROFT STOCK PARM, STE. ANNE DE BELLEVUE, QUE. , AND HAVE TOND THE ENTIRE HRRD TESTBD FRES FHOM THE DISEASE.

ME We Eren. BVis.

## One of the features of the sale will be our herd sire--. Hobsland Record Piece---54821

This young hend sire was bred by Thos. Barr, well known throughont Seotland and Amerien as a famous breeder of
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Mr. Barr claims that Hobsland Mary 3rd, 37590, dam of Hobsiand Record Piece, is the best producer in his herd and the only living cow of the world renowned Bull, White Coeade of Nether Craig, 2852 . Her record at 15 years of age was 9,290
los. of uilik and $3.74 \%$ Butter Fat.

The sire, Hobsland Perfect Piect,
SCOThe sire, Hobsland Perfect Piece, 10665, is known to all A yrshire breeders as UNDEFEATED GRAND CHAMPION OF Ayrshire breed has known.

## The sale will be held under cover---so come rain or shine <br> Stoneyeroft Stoek Farm is situated one mile from the st ation of the Grand Trunk and Canadian Pacific

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MARY BUTTER BARONESS-2.yrB-old. Bred to King Fayne Al artra, 1st prize senior bull calf at Toronto, London and Guelph, 1917. sired by Butter Baron, brother to 2 ex-champions of Canada, and whose
dam won first place in Guelph dairy test. Sire's dam, Queen Butter dam won first place
Baroness, 33.17 lbs.
Baroness, 33.17 lbs. SILVER FAYNE BELLE-a mature cow sired by Grace Fayne 2nd Sir Colantha, 31 R.O.M. daughters and 107 A.R.O. sisters, and bred to son of Queen Butter Baroness.

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M. H. HALEY, Plan thic tatec SPRINGFORD, ONT.

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## on Thursday, March 21st, 1818

I will sell, without reserve, 13 head reg. Holsteins, 7 highelass Grades and 7 registered Clydesdales. Send for Catalograe.
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## HOLSTHIN-FRISSIAN NEWS

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$14-$
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(at, $67.25 . \mathrm{bm}$ butter. 30-day record: 3079.8 mse mik, 95.64 mbs .
tat, 119.56 lbm butter. A. E. Hulet, Nor.



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 146.8 ibs. milk 16.56


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Belleville, March 5th, 1918 Mr. Dairy Farmer, Canada. Dear Sir,-

The Belleville Holstein Breeders request the pleasure of your company at their Eighth Annual Sale, to be held in Belleville, on Wednesday, April 3rd, 1918.

There will be One Hundred Selections Rendered by our Elocutionist, Auctioneer Montgomery.

He will make his debut at 12.30, and continue throughout the afternoon until the entire list of well-bred masculine and high record feminine selections are rendered to the public.

Music furnished by one hundred richly bred Holstein male and female voices.

## Seats are free.

Catalogue, with full cast of characters, now ready for distribution, by
F. R. MALLORY,

Sales Manager, Frankford, Ont.

We have the only two sons in cansia, of the $46-1 \mathrm{lb}$. bull Ormaby Jane

 Aff agke.
R. R. No. 4,

PORT PERRY, ONT.

## CALD WE Hustle Your Calves Into the Beef Class <br> by feeding Caldwell's

 Croam substitute Calf mill-teed separator milk or water in combination with our calt meal and you fill get funt as and you sults, at lower cost. You will be holptng also to feed the Allies fo this world food crists.

Catres always đo well on Caldwell's Calt Meal, because it conProtetn, 19 per cent.: Fat, 7 per cent. in their proper quantities frotain, 19 per cent.; Fat, 7. per cent; Fibre, 5 per cent.; Carbo-

Order Caldwel
we will supply you promptly. mil ady you prompliy.
The Caldwell Feed \& Cereal Co., Ltd Makers aleo of: Dairy Meal, Molesees Hor

Poultry Feede of all kinds.
Pouitry Feede of all kinds.

STANDARD FEEDS

## R. O. P. CHAMPIONS

According to the R . O . P. reports a Jersey cow produced more butter fat during laat year than any other cow of any other broduced more butter
for sale Twenty Cows, fresh or have now of these are elosely related to the champion butter cow mentioned above.
B. H. BULL a SON,

BRAMPTON, ONT.
EXPERIENCED HERDSMAN WANTED
To take charge of dalry herd of Kemptyille Agricultural school. Free house supplied to married man. Apply, giving references, and stating experience to KEMPTVILLE, ONTARIO


LAKESIDE AYRSHIRES
ance chaice selection of young bulls for sale from Record of Perform-
(Imp.). 35758 mported and Canadian bred. Sires: Auchenbrain Sea Foam times erand
 (Camp), 61137; a son of the noted Hobsiand Perfect Plece., Write for aEO. Hroppletor:
Dominion Express
D. Manaper:

Philipaburg. Que.

## AYRSHIRES BREEDERS

# 6th <br> Consignmént <br> Sale <br>  <br> Pure Bred Ayrshire Cattle 

## 50 HEAD 50 MARCH 27th at 1 P.M.

## at Dr. Rudd's Sale Stable WOODSTOCK, ONT.

The heaviest producing strains of Ayrshires in Canada are represented in this sale. Ten richly bred young bulls and 41 females, many of them due to freshen about sale time.

Jean Armour, Lady Jane and Scotch Thistle were all bred in this district. Attend this sale and secure some of the good ones. No by-bidding or bidding-in at our sales.

Write the Secretary for Catalogue.

| F. H. Harris |  | Mohn McKee |
| :--- | :--- | :--- |
| President | Moore \& Dean | Sec. \& Sales Mgr. |
| Mt. Elgin, Ont | Auctioneers | Norwich, Ont. |

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## A 35 lb . BULL

COMET BLACK KNIGHT-Born November 15, 1916, a good individual, dark in color. Dam-MIDNIGHT COMET DikKols, mmk 14 days, 1117 lbs ; butter, 68.28 lbs . 8tro's dam at yeara old $\$ 5.81 \mathrm{lbs}$. butter, 559 lbs . milk. Good yearly recorda behind him. Price for quiek sale, $\$ 300$.

Write, or better, Come and see him.
Jas. G. Currie \& Son
Ingersoll, Ontario

## BACKED BY RECORDS AND BREEDING

## FOR SALE

Two 2 year-old heifers, who have 5 sistem that gave over 100 hos mik each day in 1 day last spring, and averaged 30 ibs. butter in 7 days.
Their dams are sisters to MAY ECHO SYLVIA and LULU KKYBS. They are bred to KING SEGIS ALCARTRA SPOFFORD

Also a 2 -yearold daughter of "KING" and 1 young bull ft for ser-
BEN R. LEAVENS
BLOOMFIELD, ONT.

## LANINGDALE STOCK FARM

HoLsteins Offer for salo mo Holsteins
 คo
vila nova, ontario

ALLUVIALDALE STOCK FARM Offers For Sale
Young Holetein Bulls and Cowhe erandrons of King seais, Sire'e $\uparrow$ nearent diduals, half to seven-elight hs white. Send for photom, pedierrees and prives. THOS. L. LESLIE

Norval Station P, O.
HALTON CO., ONT

## Wo ofer for BROOKSIDE HOLSTEINS  <br>  <br>  <br> Write for part L. LAMBKIN. <br> k. R. No. 2 <br> GORAIE,ONT,

## ONLY ONE LEFT

of last year's crop from FAIRVIEW KORNDYKR BOY, No. 16342, Whose first 10 daughters, the only ones then of milking age, averaged 19.64 lise butter in 7 drys, and whose sire is PONTLAC KORN. DYKE, 145 A.R.O. daughtera.
Dam of bull is Hester pietie netherland, 30.17 lbs . butter at 5 years. Her first daughter a full sister to the bull offered, is a 19.05 lb . 2 year-old.
Just think of it! A grandson of Pontiac Korndyke, 18 months old, excelleut type, dark in color.

For Particulars Write
K. M. DALGLEISH, Lowbanks stock Farm, KENMORE, ONT.

## Maple Lane Holsteins

The Entire Herd is Complete; Clearing Sale; selling at the Farm Near

## Solina, Ont.,Tuesday, April 2,'18

The Maple Lane herd is one of the smaller but select herds of high testing Holatetns in Eastern Ontario, and while Mr. Washing. ton has done very little testing, the herd was founded with only the "best," from high-record familles, incinding the blood of auch noted sires as Hengerveld DoKol, King Begis, Abbey Hartog Clethilde, Pietertje Hengerveld Count DaKal, Paul Beots Dekol, ete. There are thirteen females, fncluding a number of heavy milhing cows, and others treshening soon.
Write for particulars and watch these columns for further particulars. Address all correspondence to
N. S.Washington, Maple Lane Farm Solina, Ont.







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## HERE'S A TOP NOTCHER <br> \sire-king seens walker.

Dam-se 1b. daughter of PONTIAC KORNDYKE. He's only a baby, but he wil grow
A. A. FAREWELL

OSHAWA, ONTARIO

 THOS. WILSON a SON - a. R. NO. 1

| CHOICE YORKSHIRE HOGS AT RIGHT PRICES <br> Boara and sows, all ages, from beat prive-winning atroing fat fow <br>  <br>  efges, 50 c each. <br> T. A. KING <br> Milton, ontario. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| ONLY ONE LEFT <br> A fine show bull sired by EING swgis ALCARTM, OALAMiTY: <br>  NA LAD. Also 2 cholce highgrade Hointelin cowe. <br> MICHAEL A. ARBOMAST Fineview stock Farm, , R. R. No. 3 sinatford, Ontario. |
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for MILK, BUITER, CHIE SE, VEAL Hointein cown stand nupreme. If
your ly just one mima yoi will
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OOOD STOCK MOVING LIVELY. I N sending ue notlee to dipcontinue h
 good sales faring the past fow month Napanee distirice, of erentily and purchase
from Mr. Bokart, three pure-ored Ho


 on socaring, such a grod trio of foonda
tion cow, they befint all trirge and of th
finett dairy type. Prom Hay Bay

 Holatoins reeilved their
botion in this Droviace.


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# 70 OXFORD BREEDERS' CLUB 

Write W. E. Thompson, Woodstock
MOORE \& DEAN, Auctioneers
M. L. Haley
A. E. Hulett

Manager Eimaplo Btock Farm is offer ing

 Waker pieterse who has 16 R each made over 10 mon milk per



 aividunity are hard to beat. Prilced R. R. N. .e. huff as son
$\mathrm{B}^{\text {Rnibxans of the mack and whiteen }}$ Haiateliols of regheered and hishigrede farm and is putimentows has sold his the market by auction.
There will be a total of 45 hesd offered.
incuding the 2 -year-old herd sire K . Ancluas Aleartra Hengerveld, son of King
Beris
Becis An oekili Alcartra Spoftord, who is owned
 Indual, and as his dam is of the Francy
ind strain, he should be worth looking
ofter. All the calven offered are from thit
 the nmene mire ha May Echo Sylvia, and
 Thero aro eloven of Mn doughters in the and 14 exevilent Holaterintared fomales Tiare' carefut breedings, and a asenfor yourling ball from former alre and Eiverareen
Pauline. Tisa herd has an aeviable repu. tation as prontable producers, averaging roturu, bond for fare past simpon in milk pased for ralsiar calves and other pars lent health, and, socordins to Mr. Mea.
dow, evary, cow has aivon him a sound
calf every fi months, or oftner, for calire This in in iteelf, is a polner, for many connidering. Nemtenytio 1810 miles Wer A FINE YOUNG BIRE AT LANING. $M^{\text {R. Robert O. Laning, of vila Nove, }}$ have beens fortunal, writes us as fallowa: Arbogat Brotherg, King Segis Alcartra Whtryde, to aucoeed ny formar herd buil
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 bua. milk in one day, Thile record wan Fillne being dry only count weonk bofore In the foture she has two R.OM. nisters Wlise Mfothtrat Lass, is, at two years. Wo and Tre Tlophy hot for grant thingn from Wing are look- ho

 hast orep of calves in mould to dary valuas

SEEDS-Timothy No, 2, 44.75 bushel; Alsike clover, $\mathbf{5 1 3}$; new bags, 45 c , Onterior amplee. A. Bingle, Grimsby, Shadelawn Tanle, 4. Madam Paulimes Sir Abther 31 30 lbs . butter in 7 days.
A. E. HULET


## EVERGREEN STOCK FARM <br> high class registered HOLSTEINS

## our contribution to the

Oxford Holstein Breeders' Club Consignment Sale

## to be held in the city of <br> Woodstock, Ont., on Wednesday, March 20th WILL CONSIST of

 2. Lady Keyes Merena andes,
a very fine individual, snd winner of several good prizes. 651.4 lbs , millk and 26.02 lbs , butter in 7 days,
outstanding individual with great promise. Record 499 lbs , milk and 20.61 lbs . buttor in 7 days-an
et them, large, smooth, straight and beautifully m . old. Individually as near perfect as you can equal to the very best Canadian bred bulls, the ry marked, more white than hiack, and his breeding is ners atter in 7 days, and 107 lbs , milk in 1 day Alecords of his four nearest dams ayeraging 82.65 bs. the. We consider hibition, and have all been raised on this farm, and none of them weigh less than 1,600 5. Prince Colantha Syivia, prospect for any one wanting the best.
the preceding one, is as near perfect as possible, and his twelve nearent light service. This bull, uke
The above are the best lot we have ever consigned, and any of them would look good in
any herd

Secure a catalogue from W. E. Thompson, Weodstock, Ont

## Another Great Bargain

## KING SYLVIA FAYNE 33896

Thie cair was born Nov. 22, 1917. A sthade more black than white He





 Write at Once tor Extended Pedigree and Prices. w, g. bailey, Oak Park Stock Farm R. R. No. 4 PARIS, ONT.

## SUNNYBROOK FARM HOLSTEINS

 Jos. Kilgour

Eglinton P.O.
North Toronto

## 35 HEAD <br> 35 HEAD <br> The sale of HOLSTEINS to be held at TA VISTOCK on MARCH 19th at 1 P.M. trains will be met on day of sale

Noah S. Bender

TAVISTOCK, ONT.
$\square$ DISPERSION SALE=

## of

## แitio HOLSTEINS

${ }^{\text {At }}$ fobimont ferm Newtonville Station of part thoot

c.p.R. and G.T.R. on

## Wednesday, March 20th, 1918

at 1 p.m.
Included in the rale will be our therd sire KING SEOBS AL Cartra hengerveld, boi of King Secis Aleartra spofford, owned joinely by Purtelle \& Leavens and W. L. Shaw

Former herd sire was inka sylvia plus, by same sire as MAY ECHO SYLVIA, and whose dam is a 26.80 lb . 4 yearold daughter of DeKoL plus, 1910 Canadian Champion. This sire has 11 daughters to be sold.

Sale will include 23 registered females, 6 of which will freshei shortly, being bred to above herd sire; also a senior yeariling bull by Inka Syivia Plus, and Evergreen pauline.

Also 12 high grade Holatein cows of 20 years' selection, just treath, or due to freshen. Three 2 -year-old springers of excellent breeding; five calves; horses and farm machinery will also be wold. This herd has had a splendid reputation as producers. Last year returns from Farmer's Dairy, Toronto, were $\$ 170$ per head, besides a targe guantity kept at home for calves, house, etc. The herd is a porfectly healthy condition. For 20 years no cow in the herd has falled to have a healthy calf each year. An excellent reputation and a sate place to buy.

For further particulars write.
W. A. MEADOWS, R.R. No. 3, Newcastle, Ont.

## MARKET REVIEW AND FORECAST


 Horsees are hard to sei, but otuer clases.
of farm animals are lo tood demand. Beef prices are food for any well Anish-
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Coarse Grains.

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FARM VALUES IN CANADA.
Tuis Conmas and Statistion Om Ottawa, has published its annuat
estimates of farm values in 1917, as ampiled from the reports of in 1917, us deots at the end of parta of correspani-
oftenates comprise (1) the averals. The of Them land. (2) the average wage valuea farm help, and (8) the average values of farm live stock and of wool. $A$ A verage Values of Farm Land. Aecording to the returns recelved, of Canda, inclucing land for the whale
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Average Value of Live Stock and Weot, On the whole there is bat little ohange inported in the value per head of horgese,
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forsea, three years old and over. in sict,


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HEAD $\stackrel{\text { THE DUNROBIN FARMS }}{\underline{\text { FISPRERION SAIE OF }}} \mathbf{4 3}$ Registered Holsteins

WILL. BE HELD ON<br>Friday, April 5th, at The Union Stock Yards, Toronto<br>Inadequate railway service and scarcity of efficient help compel us to go out of dairying. The herd is being sold in Toronto as train connee tions for Beaverton are not good for buyers from a distance. Some 30 May Echo Sylvia.

For Catalogue (ready March 15th) Apply to
The Dunrobin Farm, Beaverton, Ont.

## CHOICE BULLS READY FOR SERVICE

 sola thiry - Ave bulle that wninter.No. $1-\mathrm{Ch}_{\mathrm{a}} \mathrm{a}$ mon No , hi.000.
 highland lake farms

Jefferson, Ont.

## Allison Stock Farm Sale of Holsteins <br> 80 <br> Head

## At Chesterville, Ont., March 21, 1918

## "A RECORD SALE OF RECORD hOLSTEINS

You will find this sale an opportunity unexcelled for buyers of Holetein cattle. It will be one of the greatest saloe of regintared Holstein Cattle evar pulled off in Canada, the offering consisting of some of
the most noted atrains of the breed. There will be the the most noted atrains of the breed. There will be thirty-five daughters of Sir Lyons Segis, ten daugh-
ters of King Segis Alcartra Ple He and ten daughters of Slr Riverial ters of King Segis Aleartra Pletle and ten daughters of Sir Riverdale Echo Lyone.
In the offering of eighty head there will De thirty mature cows, seventeen
cighteen yearling heifers, and mine buthe, Norty head of the females have been bred to Riverdale Lyons Scho Posch, a son of Lawncrest May Echo Poech, Toi tho. milk and 33.78 Hos. butter in 7 diver, and whons
Arst ten dams average over 30 ths. Remember that the Sylvia. The beat the breed aff ords is offered you in this sale. You eannot afford to mise it May Beho

## Herd Sires

Sir Riversale Eeto Lyone.



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## Aiverdate Lyons Echo Potec. Lyon Dokol and Kine mian of  Echo Vorbolleo sho is icwerotay hoo hat Acord ot tor own of In the sin so dayan to tomand

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Plotue. silx deughtera of this buil are in the ale.

## Some Females and their Records

##  <br> 

Speciale-We have catalogued for this sale:
Two 100 lb , cown. One 30 lb , cow (record made twice).
One 29.68 ib , cow One 28.80 lb . cow.
Five Junior two-yearolder records averaging above 20 lbs . each. records averaging over 20 Ibs , each. with oticial sevea day butter

## TERMS -

Thie herd must be mold because we have decided on account of the TERMe offered for anale by auction on the above-mentioned date. TERM8 OF SALE-The terms of sale will be elx months' credit

## A Big Output of Maple Sugar for 1918 is Urged by the Canada Food Board

MAPLE SYRUP and maple sugar possess very high food value and they can be produced by thousands of Ontario farmers. The demand is larger than ever and high prices for the producer seem sure to prevail this spring. In February, 16c per pound was offered by buyers in the Ottawa Valley and the Eastern Townships of Quebec.

The Canada Food Board, Ottawa, ask the hearty co-operation of the Ontario maple syrup producers and all who could be producers this year and hopes for a fifty per cent. increase in the output for 1918.

This increase will tend to release huge quantities of cane sugar for later shipment to Great Britain and our European allies where the lack of sugar is being severely felt both on account of its own great food value and general scarcity of food stuffs. England is on a ration of two pounds a month per person, France one and one-tenth pounds, Italy one pound-Canadians use two or three pounds a week! The submarines sank 100,000 tons of last year's sugar crop.

Every bucket, every spile, every maple tree should be set to work this spring - the children can help-every pound produced adds to our food supplies and strengthens us for the winning of the war.

## Ontario Department of Agriculture


[^0]:    You'll Find the Advertisers in marm and dairy
    advertiaing reliable goods. They want to know you; also want to know you saw the Ad. in FARM AND Driting them don't forget to tell them

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