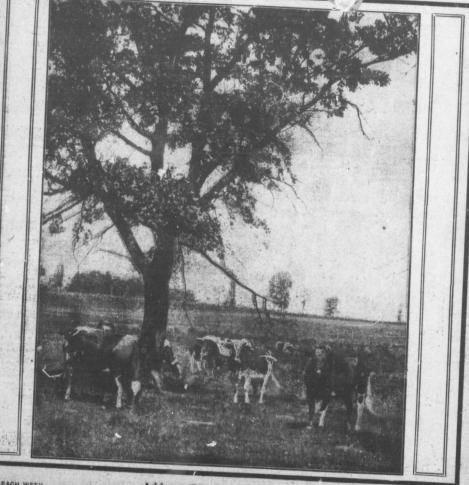
FARM AND DAIRY, RURAL HOME



BETTER FAI

Toronto, Ont., March 14, 1





ISSUED EACH WEEK.

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

ONE DOLLAR A YEAR

See the Hip Roof SILOS T will put money in your pocket. Get tons more ensilage in a Toronto Silo than in any other silo costing about the same to erect. The hip roof lets you tramp down the ensilage right up to the top of the Now consider the construction of a TOBONTO Silo, All woodwork is carefully selected spruce, thoroughly impregnated with hot tar and crossots. The wood cannot rot and is not affected by emiliage Then Toronto Silos are airtight be-cause the staves are DOUBLE tongued and grooved—double pro-tection against frost as well as air. The Toronto Silo booklet seut upon Ontario Wind Engine & Pump Co., Limited PART

A Cheap and Efficient Poultry House

It Was Built of Scrap Lumber but on Correct Principles

UE principal items of expense in building our poultry houses were three squares of single-ply were three squares of single-ply roofing costing \$255, four squares of three-ply roofing, costing, \$7.40, a few pounds of nais and a couple of glazed window sashes. The house is 18 feet square and big enough to accommodate 109 Leghoms or 30 Barred Plymouth Rocks. The lumber that we used was almost scrap. A couple of years before we pirchased the farm of the place of great nurricane that swept charlo. In rebuilding the barn, as much of the old lumber was used as possible, and wrat was not considered worth bothering with was piled up in a fence corner. It was from this fence corner bat we got a good deal of the material that we got a good deal of the material that went into our chicken house. The rest of it came from an old pigpen, almost falling over, that had long before outlived i's usefulness. All of the fore outlived its usefulness. All of the work was done in our spare time, and probably amounted in all to six full days work for one man. It wouldn't have taken so long had it not been necessary to draw at least a half-dosen nails from every board used.

The sills of the house are four cedar logs, 18 feet long, which came out of the old parn. These were spiked to-

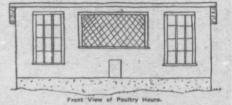
enough above the floor that draughts do not sweep around the hens when scentoning.

scratching.

The essentials of a good poultry house are light, dryness, good ventilation, freedom from draughts, and cheapness. This house possesses them all.—F. E. B.

Hatch Farly By M. A. Juli.

NDER present conditions of high feed prices, it is more neces-sary than ever to get good egg sary than ever to get good egg production during the w'uter months. The most profitable fowls are those which lay in the fall and throughout the winter season. Since winter Lie winter season. Since winter egg production is the most profitable phase of the poultry industry, and since the average number of chickens do not commence to lay before six months after being hatched, it is necessary to hatch so that the pullets of November, when they should be in good laying condition. This that Plymouth Rock, Rhode that Plymouth Rock, Rhode Island Red and Wyandotte chickens should be hatched during the month of April. Leghorn chickens mature a little



house is of the shed roof type, seven feet high in front and five feet at the The door is at the front of one. end. The nests are along one side and the feeding hoppers along the other. In one corner at the back is a coop for broody hens, and the rest of the space is taken up with four rosuts, 15 feet long. There is no dropping board under the roots. In cold weather the droppings freeze immediately and are oroppings recess inmediately and are in no wise-objectionable. A 12-inch board set on edge prevents the litter from being scratched back under the roosts. The floor is of railway ties laid in on the ground and covered over

gether on the side of the house and the studding erected on them. The

laid in on the ground and covered over with fine grawel. Concrete would probably be preferable, but it would also be costly. The two ends of the, house and the back are tightly con-structed with two ply of boards and single-ply building paper between. The lumber we used was so rough that neither tar paper nor building paper would have been satisfactory as a lin-would have been satisfactory as a lin-tougher. We would not consider any-thing less than three-ply roofing on top, especially with the roof so flat as it is.

A front view of the house is given in the diagram herewith. There are two good-sized windows at either side, and an open space, 3x5 feet, covered with one-inch mesh wire netting. This we consider an ideal arrangement for an open-front house. Where the opening extends the full length of the front of the house the tenderse is for ing extends the full length of the front of the house, the tendency is for draughts to sweep back too far into the house. Where there is just one opening, and it in the centre of the frent, there is no opportunity for draughts to work back into the house. Even with a storm beating in we have been unable to defect any draught for more than four or five feet back from the window. The opening is far

pose breeds; therefore, they may be

pose breeds; therefore, they may be hatched up to the 'first of June.

The usual advance in the price of eggs, particularly fresh eggs, during the fall of the year, is due largely to natural causes. The moulting of the yearing atock shuts out this source of production, leaving pullets practically as the only source of fresh eggs at this time. It is very necessary, therefore, that the pullets be hatched in plenty of time to be matured for fall laying

A large number of breeders who a vertise such good returns from late hatched chicks make a very serious mistake. It is rarely possible, under average conditions, to have late hatch average conditions, to have late hatch-ed general purpose chickens do well during the winter months. Certainly when feed prices are so high it be-comes almost impossible to make procomes aimost impossible to make pro-fit on a late hatched chick. Farmers and practical poultry keepers should not be encouraged to hatch late, rather they should be encouraged to hatch as early as possible, because under average conditions one pullet uneer average conditions one putter hatched in April is worth two hatched in June. The largest profits in poul-try raising are made under the most efficient conditions of management. If a hen cannot lay egg during the wina nen cannot say eggs qu'ring the win-ter months she should be eliminated from the laying flock. This means the culting out of all late hatched pullets, and it will saye a great deal of trouble if no chickens are hatched

Liver troubles are caused either by a lack of grit, or by feeding too rich or stimulating food. Care must be taken in that particular. In the early stages of the disease the birds show droopiness, have a poor appetite, and seem stiff in their joints. One or two good family liver pills will very often correct the trouble.

VOL. 3

A Raci

I has be him who one who without for have tomest row. When dency of h master, and well provide the pail.

Even thou at hand, the beef, and oth onvert feed Yet they are are often fou duction is co "feed destroy should be des

beak, ear lobe eggs she will discarded 41. per cent. in e fourteen "wor it would be m many pounds must yet dete feed and weigh Wisconsin in dairymen who a cow how m best cows from

The differen we find scrubs that is black ca black and white Herman Vetter stein for \$50 for color and "thou second highest ing 691.7 poun bought a pure-h not well marke my herd." but 779.6 pounds of develop such hi would be to the became tempora

While feed an most important was "given don moveth upon the mind, the ability to sidestep resilow production dairy cow. The



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

TORONTO, ONT., MARCH 14, 1918

To Get the Most Milk from the Feed Available

A Racy Address by Wisconsin's Superintendent of Cow Testing, Mr. Noel Begley, That Makes Good Reading for Dairymen Everywhere

T has been said that "all things are possible to Fim who believes," but that does not apply to one who believes he case without food, although the product prices of feed have tempted some darput out if to their sorrow. When feed costs are high, the cow flash it more row. have issued some dairymen to try it to their ser-row. When feed costs are high, the cow finds it more difficult to make good returns over cost of feed and she is unable good returns over cost of feed and she is unable for the handicapped by the ten-dency of her owner to cut her ration. However, she has learned, the "Safety First" slogan from her master, and before she makes any of that feed into milk, she will see that her own precious body is well provided for, and if you only give her enough well provided for, and if you only give her enough the care of her body, you do not get any in the well.

the pail.

Even though we may have plenty of cheap feed
at hand, that is no assurance that we are going to
make a lot of cheap milk, for some cowe convert
feed into more or less milk, others convert if into
beef, and others are bleased only with the ability to
beef, and others are bleased only with the ability to beef, and others are bleased only with the ability to convert feed at \$50 a ten into manure at \$2 a ten. Yet they are all called "cow," and the three chasses are often found in the same \$50 far as milk pro-duction is concerned, the last two closes are simply "feed destroying parasites" and hey themselves should be destroyed on discovery.

Picking the Winners A positivy specialist can tell by looking at the legs, beak, ear lobes, and pelvic bones of a ben how many cegs she will lay. One man examined 7,566 hons, discarded 41.5 per cent. of them and lost only 5.3 per cent. in egg production. In one flock of 78 hens he culled out 64 without the loss of a single egg, the he culled out 54 without the loss of a single egg, the fourteen "workers" laying just as many eggs as they did when in the company of the 54 "moderns". While it would be mighty convenient to graha cow, nok at her legs, head, cars, and pelvic horse and tell how many pounds of butter she was going to make, we must yet determine real sfilledney the "weighting the did not sucklying and sucklying and standard her weighting the must yet determine rear efficiency by weigning the feed and weighing and testing the milk. Even in Wisconsin in the year 1918 we have many so-called Wisconsin in the year 1918 we have many so-called dairymen who claim the ability to tell by looking at a cow how much milk and fat she will make, yet many of our best dairymen seem unable to tell their best cows from their poorest ones unless records of feed and milk production are kept.

The difference in cows is not due to breed, for we find scrubs in all breeds, just as we find scrubs among the Irish, English, Germans, and Sweden. Nor is it due to color, for a cow that is black can readuce as much milk is one that is

Swedes. Nor is it due to color, for a cow that is black can produce as much milk as one that is black and white or entirely white. A short while any other of Fond du Lac bought a grade Holstein for 150 from a neighbor who did not like her color and whought she was not much good anyway." Last year this cow was in an association and was excount highest fat producing cow in the state, making 591.7 younds of fat John Puls of Hartford pulse of the producing cow in the state, making 591.7 younds of fat John Puls of Hartford have a produced the process in the state of the producing cow in the state, making 591.7 younds of fat John Puls of Hartford house she was a producing the profession of the producing the producing the profession will marked and was "grobably the poorest in the producing the p bought a pure-bred Holstein heifer because she was not well marked and was "probably the poorest in my hord." but during the past year she produced 779.5 pounds of fat. It seems to me that when men develop such highly refined tastes for color, that it would be to their financial interest at least if they house temperative color blind. became temporarily color blind

Scrubs-Men or Cows.

Scrubs—Men or Cowa.

While feed and the kind ow are yeary important in the matter of getting profit from the business the most important factor is the man—he who was "given dominion ever" is the man—he who was "given dominion ever" in the matter moveth upon the face of the earth. In this master mind, the ability is developed to a remaind of the control of the cont

only souths," when in reality we find his cows to be pretty fair and that it is he who is "no good," for he is the real scrub. Surely when such men claim they are "self-made" me, as they after do, they relieve the Almighty of a great responsibility.

What Made the Difference.

It seems in Wisconsin that our cows are better cows than our men are dsirymen. For instance two years ago one man sold three cows to his neigh two years ago one man sold three cows to his neighbor for \$70 apince because under his conditions they were supportable. Wen the new man sot hold of the cows and gave then coust and gave the cows and gave the cows and gave they more than doubled previous year. Beasie made \$47.7 points of fat at a profit over feed of \$72.29. Daisy made \$32.5 points of fat at a profit over feed of \$32.9 based on the profit over feed of \$32.9 based on \$32.5 points and \$32.5 points of fat at a profit over feed of \$32.9 based on \$32.5 points of fat at a profit over feed of \$32.9 based on \$32.5 points of fat at a profit over feed of \$32.9 based on \$32.5 points of fat at a profit over feed of \$32.9 based on \$32.5 points of fat at a profit over feed pr made 603.5 pounds of fat at a profit over feed of \$456.2.4. The cows were just as good the year before but the man wasn't. What they needed was a real man to give them a chance, and when they got it each paid her originial cost, paid her feed bill for the year, and each put \$45 into the pocket of the fellow that gave her the opportunity. So before we look for the mote in our cow's eye, let us pick the beam out of our own

Burning Corn.

There are still other items in care which affect profits, such as water, ventilation, and temperature of barns. While feed has practically doubled, water is at the same old price—free for the taking. Yet is at the same old price—free for the taking. Yet it seems, because it is free, we do not want to give the cows very much of it, but raise hallelijah about the price of feed which is not of more importance than water. If we had to pay about 10 cents a galion 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 in your sloves this winter; if so, go are burning corn in your sloves this winter; if so, go alsed and make your cows drink ice water, it is practically the same thing. The cow uses corn.

barley, and other carbohydrate feeds to give her body heat and energy, and if she has to keep her body to temperature of 101 degrees and warm up 75 to 100 jounds of ice water a day these some facel, if we are soing to burn corn to help water, we might as well burn some more to keep up the warmth of the cow, instead of nailing some strips over the cracks to keep out the cold. Some people, evidently believing it a good plan to cool the milk as quickly Denoting it a good plan to cool the milk as quickly after milking as possible, keep the barns at the freezing point and I know of some barns in which they go even farther and freeze the milk in the teats. they go even farther and freeze the milk in the texts.

I am wondering how many of you would be sitting
hous if there were no heat. Yet we put a cow on a
house if there were no heat. Yet we put a cow on a
house if there were no heat. Yet we put a cow on a
house it is not a constant to the control of the control
had been and been the control
had been the cont teed instead of decent buildings and good care to keep his cows comfortable will get his own reward through losses in the business, and further he ought to be arrested and fined by the Humane Society for cruelty to animals, and by the Food Administration for wasting human food

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

HOOSE the mill that will produce the best grade

of sead.

See that the mill is well made, but do not over-estimate the value of its lasting qualities: a mill that will clean and grade well will pay for itself

The capacity of a mill in bushels per hour should not receive too much consideration. It takes only a few hours, even with the slowest mill, to clean a few hours, even with the allowest mill, to clean all the seed used on the average farm for the sea-son. Don't sacrifice quality of work, for speed, neither should the power required to run the mill be given to much consideration. Other things being equal, though, the easiest running mill should be

chosen. See that the sieres are well made and it amugiy into the mill so that there is no place into which weed seeds or grain may lodge.

The mill should be easy to clean out when changing from one kind of grain to another.

The case and rapidity with which the amount of the case and rapidity with which the amount of the case and rapidity with which the amount of the case and rapidity with which the amount of the case and rapidity with which the amount of the case in the case of t

The ease and rapidity with which the amount of grain leaving the hopper can be controlled is an important matter. It should be such that the or regulate the flow of grain to the other with one hand while turning with the other. If one outsit stop curning the still in order to close the become flooded and poor work results after the stop of the control of the contr alleres become notions and poor work results. It is an advantage for the person turning the mill to be able to see the work the sieves are doing. Preference should be given to the mill with the

reference should be given to the mill with the simplest and best arrangement for bagging. It is a great advantage to deal with a firm who will guarantee to see that the mill is fitted with the proper sievax to bandle the grain for which it is re-quired. When you buy a mill give the firm to under-sued you will send them samples of your seed and will expect them to send the best sieves for cleaning it. If manufacturers would do this, only a few stans is sent to be some supplied with each mill. A large collection of sieves supplied with each mill, a large collection of sieves supplied with the mill is not an advantage unless they are specially adapted for the work to be done.

BOYS AND GIRLS AND FARMING

ARMING is fully as much a boys' and girls' problem as it is a problem of production. If the boys and girls have not been interested in the farm they will likely leave. That means the end of that farm home in 10 or 20 years and a tenant will likely follow on the farm, and the ones who should be on it will likely be in town working for wages. That farm home has in a measure been a failure. Give the boys and girls on the farm recreation; a social centre is one solution. Give them a good consolidated school with its many advantages, and give the boy or girl a chance to learn that the farm produces things of value to Lnom by letting them have a pig or a calf or acre to care for as their own and to market as their own, and then have the proceeds to spend as they choose. This develops the ownership idea and the spirit of independence. When the boy or girl is given nothing to raise and market as their own, the hired man or dependent attitude is too often developed .- W. C. Palmer.

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

N Canada, the unit of value measures is the dollar. The whole question of advancing prices might be dismissed by saying that the dollar has decreased in purchasing power; or that dollars are more plentiful than food in the form of milk, butter and cheese Many of us find it difficult to realize that a dollar has varying values, especially when it comes to buying food. Dollars we do not need,

it comes to buying food. Dollars we do not need, but food we must have. Labor is Necessary. Practically all food comes out of the soil, through the agency of plants and animals. But these of themselves do not produce food, except in very limthemselves 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 soil, in the growing of plants, and afterwards in feeding these plants to animals. Dalry products require an extra an out of labor and special skill.

of labor and special skill.

An American writer says: "There is but a single method of procedure by means of which we can be certain that the nutrition of our people will be safeguarded, that is to maintain our dairy industry at its present extent of development. Actually it guarded, that is to maintain our dairy industry at its present extent of development. Actually it should be considerably increased, but it must not be permitted to decline. If it does, the United States 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 its true for Canada, but how can this be done unless our dairy industry be supplied with plenty of skilled labor on the farm and in the factory? And this labor must be

suitable awarded. The writer goes on to say: "Milk production cannot rest upon a philanthropic basis, but must be a paying industry. I want to emphasize that the public must allow the price of milk to advance so that the industry is profitable to the dairyman." In the foregoing we have the essence of the causes of advancing prices for milk, butter and cheese. Dairying must be made profitable for milk producer, manufacturer and distributor, or they will go out of the business. And under present conditions of great opportunity in other lines, the question of making dairying profitable is doubly important. One of 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 dairymen, some of them very attrac-tive as to hours and wages. Cost of Feeds Advancing.

A second cause of advancing prices is the in-creased 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 expenses on the dairy tarm. The consumer finds it difficult to realize that oats have advanced from about difficult to realize that the same three years. Barley, cliently that the little same three years. Barley, cliently the same proportion. About the only feeds which have not "gone-up" in price are grass, hay and slage, and the reason for this is, that as a rule these are not sold from good dairy farmis, and except hay, have not market values like grain-and other feeds—used in milk production. Cows have advanced at least fifty per cent. In the last 'year." Good grade cows now sell for \$125 to \$150, and we saw a roper-recently where an exception of the same three constants. The same production was a competition of the same ratio as lave grades, but registered cows having root records to "back them," command very high prices, while-

dairy sires with "good backing for several genera-tions sell for unheard of prices. One sale of such was reported last year at \$53,200 for a bull calf under Owing to the increased demand for capital to

Owing to the increased denand for capital to f. ance war loans and guaranteed money enterprases of various kinds, farmers are finding it more difficult to secure capital for legitimate expansion and improvements on the farm. One Ontario farmer reported in December, 1917, in an agricultural paper as follows: "I have ten hogs about 100 lbs. each. Since my corn its so poor, if decids, to buy shrist to Since my corn is so poor, I decids, to buy shris to finish them. I got the shorts to: \$44 per ton, whole-sale. I have to borrow the money from the bank at about eight 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 K-ed, a other hi 23, for



A Berkshire Boar That Sold for \$10,000.

The realization of the importance of a good sire in breading work has led to many record prices when good sires change hands. The \$10.000 record for a boar was recently set when Rpochall's Emancipation was sold by H. W. Gossard, an Indiana Berkshire breeder, to Thomas Stanton, or Wheeton, Ili. that matter, if he could get the money on reason-

that matter, if he could get the money on reason-able terina." It would seem as if one of the ways in which dairy products might be hindered from further rise in price, would be, to furnish cheaper money to the farmer. Farm finance has not received the at-tention of capitalists which its importance deserves. Too often the farmer has been regarded as an "easy mark" for the modern Shylock. The bad effects of such a policy have not been realized until the present well docade-hortage brought it to the front.

Expenses for machinery needed in growing and arvesting crops, for filling silos, for cans to deliver harvesting crops, for filling silos, for cans to deliver milk, for purchases, food and clothing, and for every other operation on the farm-have advanced out of all proportion to the advance in price received for dairy products, hence it is no wonder that some farm-ers are growing discurgaced and selling their cova. All these things have tended to cause an advance in the price of milk and the foods manufactured in the price of milk and the foods manufactured

Dairy Supplies Gone Up. But there are other things which have caused an

increase in prices of milk and its paderts. Among these may be mentioned the extra cost for labor and supplies in manufacturing milk into condensed and powder milk, cheese and butter. To mention only a few items: From a dairy-supply firm, the Dairy Department of the O. A. College purchased in De-cember, 1913, two gallons of cheese color for \$3.50; in December, 1917, we paid \$3.75 for one gallon of cheese color for one gallon of cheese color from the same firm. In De-cember, 1913, we purchased six gallons of rennet for \$11.70; in December, 1917, we paid \$7.55 for one rallon of rennet. In 1915 cotton used in cheesemaking was bought at 5%c per yard, and starched cheese caps at \$7.50 per 1,000; in December, 1917, the 1,000; in December, 1917, the cotton advanced to 18c per yard, and the cheese cap circles to \$12 per 1,000. In 1915, sulphuric acid for milk-testing was three cents per pound, now it is 6½ cents per pound. The list could be

extended to great length, sho ing that nearly every item that enters into the manufacture of dairy foods has increased from 100 to 350 per cent.

Milk is Better.

Another cause for the increased price of milk is

Another cause for the increased price of milk is the more stringent regulations of Boards of Health in producing and distributing milk. Cleaner cows, cleaner stables, the pasteurisation of milk—all these cost money and add to the price which the consumer cost money and add to the price which the consumer must pay for these safeguards of public health—and they are vorth the extra price, vs. nothing is so important as good health. Children, especially, who depend so largely on milk must be protected in every possible way. A recent report by . a Massachusetts' Board of Health says: "The beneficent role played by the maligned cow even under the mrx daverse conditions, in stepping him the breach between life and death when mothers fall, has received all too scanty emphasis."

scanty emphasis."

One unnecessary cause of increased cost of milk in cities is the faulty method of distribution. The city milk business must find some better method of distributing milk, than in having ton or twelve milk wagons passing over a 'reet which can as well be served by one wagon, at one-half the expense.

Municipal control of the milk-supply, similar to the plan followed for supplying water, gas, electric light and sewage disposal would seem to be the best solution. Failing this, milk-sellers should divide the city into districts and have one distributor only for each district. With a standardized product and a watchful Board of standardized product and a watchful Board of Health, there is no geason why this system should not result in a lessened cost of at least one cent cost of at least one cent per quart to consumers, and a similar supply of good milk to all.

Dairy Products Really Cheap.

Dairy farming and the manufacture of dairy pro-ducts are among the foundations of national pros-perity. The American au-thority (Dr. McCollum) referred to at the beginning

of this article says: "The efficiency of a people can be predicted with a fair degree of accuracy from a knowledge of the degree to which they consume dairy products. I venture to assert that it is the milk, and butter and cheese, and not the meat which mills, and bitter and cheese, and not the meat which has the good influence on the promotion of the virile qualities of the people." Yet we find consumers cheerfully paying 30 to 50 cents per 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 readily spoil. Milk and its products are among the cheapest foods which can be purchased among the cheapest foods which can be 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 standard, but fine deliry products, never. A nation that turns to cheap substitutes like "five-" "filled Cheese," "and "yagetable mill. has taken the first step to-wards degeneracy, because the sed on the contain the ""stamines" so essential for making a strong race of people.

"Milk as "a cheap food as compared with other foods." "Milk as "20'ce runter represents sign calories."

"MMR. at-22c" per quart - represents 699 calories Steak at 35c per pound represents 260 calories Chicken at 35c gives 285 calories, veal at 55c gives 272 calories, salmon at 20c gives 200, and salt mackerel at 35c gives 330 calories," says Prof. Pear-son, of Illinois, U. S. A.

The dairy farmer, and the dairy manufacturer, The dairy farmer, and the dairy manufacturer, who work ions hours, and runs considerable risks for capital invested should be encouraged by resonable prices for milk, butter and cheese. This will insure a good supply of "life meat" for home and export markets. The dairy industry has now a great many, and wishes to increase the number of, clean, honest dairymen. No others are wanted, it pays to pay a good price for a good article of food.—An address.

Are any of the following operations not yet attended to? Testing seed grain and corn; cleaning seed; mending harness; is increasing grain; nation for work horses; sharpening plow points, harrow and cultivator teeth, renewing broken and worn paris of drill, cultivator and roller; making a couple of spare whiffertrees; sharpening discharrow blades; replacing worn and broken cultivator and harrow teeth; cutting summer stove wood; trimming coliving teet; pruning apple orchard; hauling manure; preparing the live stock for the spring.



A Recent Development in the City Milk Trade.

With the growth of our cities their demands for milk are being heard in the more distant rural districts. And that they may get the milk from these dis-dary companies are establishing shipping stations. Here the milk is, received, cooled and shipped in iced cars. The illustration shows the model stations which the Toronto City Dairy has established at Woodstock, Our

A. M. Zo

no th inel

Mr. A. a. full of acres of just a cour the vilage The whole ively to crops prod almost eve for the f which are p farming cal the scarces Zoeller has and is ende n chinery this he has ably further

The tract working of farmers will of fall plow by the heav that 14-inch land, but who three furrow two in real l spring home putting in th acre farm th

work. As a has a threship silage blower, Just how usef nection with ement silos. menting these feet. Altogeti

The dairy n them on a lars tered in the bu such a herd as most difficult our years ago with six units purchased a se arst machine. other the strip and a quarter we are real bus

A five h.-p. milking machin pulps roots, pur tion with the d "But," said Mr. engine during d dozen lanterns. wo to five hou

ran for four yes two h.-p. gasolir the milking mad

The milk from chased from neight on the far recognized that Canada for Limi small cheese far convenience for cellar underneath the market is ec sured me that 1 cheese decidedly send his milk to into Canadian ch varieties is found

repair. This depreciation, he came to see, was an annual charge against the farm, and when he had not made provision for the head not really been making ends meet. The penult was that he had to plungs further into debt, and the depreciation, it did have the one good this depreciation. It did have the one good effect, however, of stimulating him to greater exertion.

It is a failure to calculate items such as one that

Mechanical Appliances for the Dairy Farm

A. M. Zoeller Uses a Tractor, Milking Machines, Gasoline Engines to Reduce Man and Horse Labor

the mechanically inclined, an hour or wo on the farm of Mr. Zoeller would full of interest. Mr. etter is working 300 ces of rich chart. acres of rich clay loam just a couple of miles from just a couple of miles from the vil. age of New Ham-burg in Waterloo county. The whole of this big farm is devoted almost exclusively to dairying. The crops produced on it, and



the scarcest commonity on the transparency could be as and the usual difficulty in securing men, and is endeavoring, so far as peable, to substitute in a chieff of the considerable in the considerable in the substitute in a chieff of the considerably further than most others who are trained to solve the farm labor problem in the same way.

The tractor has been an important factor in the working of this farm since the full of 1915. Few gramers will forset the weel, late harvest of that year-later than the control of the contro land, but when fitted with 10 inch bottoms, his tractor outfit did excellent service in fall plowing, plowing three furrows under favorable conditions, or just two in real bard work. With a outfit Mr. Zoeller has plowed as much as eight across a day. Last spring horses were used only the grain drill in putting in the crops, and in the working of the 200-leave farm the tractor has made it possible to disperage with two teams.

Tracter for Belt Work

Tractor for Beit Work.

The usefulness of the tractor is not limited to field work. As a part of his me equipment Mr. Zoeller has a threshing machine, chopping mill and an engliage blower. All of the property of the proper

we are real busy one man can do the work alone."

We hep gasoline engine operates the larger middle hep gasoline engine operates the larger middle he machine. It also runs a dynamo from which the buildings are lighted, separates the milk which the dynamo there is no storage battery. That we have a superstant of the connection of the dynamo there is no storage battery. That, and the dynamo there is no storage battery. That, and the during chore time than to keep up a half a dozen during the chore time than to keep up a half a dozen during. The dynamo has now been running to to five hours daily for five or six years, and it ran for one were superstant of expense."

On the smaller farm there are two engines, both two hep gasoline, designed to pump water and run he milking machine.

Limburger Cheese a Farm Product.

The milk from this big dairy herd, and some pur-The milk from this big dairy herd, and some purchased from neighbors, is manufactured into cheese right on the farm. Years ago Mr. Zeeller's father recognized that se market might be developed in Canaci for Limburgar and other fancy cheese. The small cheese factors, which he erected, has every convenience for manufacture with a good curing cellar undermenth Fancy cheese only are made, and the make it continually growing. Mr. Zeeller assumed in that he finds the manufacture of these cheese decidedly more profitable than it would be to send his milk to the neighboring factory to be made into Canacian cheddars. The market for the fancy varieties is found in Kitchener, Toronto, Hamilton varieties is found in Kitchener, Toronto, Hamilton



is available when whey is available when still sweet and good for feeding the calves and hogs. Of the latter, about

well painted, and in the Zoeller followed a plan that is capable of wide application where old and open siding is being printed for the first time. He went directly to the linseed oil mills and present the settlings of the oil tanks. These settlings are much heavier and thicker than the regular paint oil, and when mixed with medium quality red ochre, make a paint with greater covering capacity and more durability than where a thinner oil is need.

oll is used.
"We first had the 100-acre farm," Mr. Zoeller told
me as we drove to the station. "We found such a
demand for pure hred Hoistein cattle that we bought demand for pure ared Hoistein cattle that we bought the 200 acres across the road five years ago, prim-arily to further develop the Holstein business. Since army to further develop the Holstein business. Sin then we have been using the natural increase of or herd to stock the bigger farm. We now have I herd to stock the bigger farm. We now have 110 pure bred Holsteins, the development of which from now on will be the main feature of our work."

Figuring Cost of Production

The Importance of Considering Depreciation JAS, R. METCALF, Peel Co., Ont.

HAVE just been reading some of the free litera-HAVE just been reading some of the free litera-ture distributed by our various Governments. In one bulletin I have found something really good on methods of flagring the cost of production of farm products. The writers to contribute of farm products. The writers to train products with a practically every farmer ignores in balancing his year's accounts. The para-graph is a tollows:

graph is as follows: "Definite knowledge as to the legitimate charges Fragin is as rottows:

"Definite knowledge as to the legitimate charges which enter into the cost of production, handling and marketing is an absolute essential to success and permanency in business. Some of these may be overlooked for a time, as, for example, deprecation. The operator may shut his eyes to them, but inted any of judgment awaits him. Many a seemingly sound enterprise has been wrecked because of failure to take all the expense them into account a contract of the expense them into accounting in business enterprises are now required by law in several-size, in order to protect the interests of investors. Of course, in the restricted sense, the individual dairyman does not have to protect any one but himself, yet in his own interests he ought to know what it costs him to do business."

We have a case in mind that illustrates the conten-tion. Some years ago a young man bought a farm in Ontario county. The build-

ings were in good shape, and for the next few years the young fellow made, a good living and paid all his honest debts, including the interest on a rather large mortgage. He thought he was doing fairly well. He was meeting fairly well. He was meeting interest payments without difficulty, so the size of the mortgage did not worry him. As he was not possessed of more ambition than the average, he had no incentive to make a more intelligent study of his business, or a intelligent creater expenditure of energy. He was just driftgreater

energy. He was just drift-ing.
Suddenly he woke up to discover that every building on the place would have to be re-shingled at a cost of neveral hundred dollars. Some of his machinery was wearing out. All along he had been considering that he was making ende meet. All along his buildings had been along his buildings had been depreciating, but he had made no prevision for their nade no prevision for their

and several other Ontario rnd several other Ontario eties. Another advantage of the farm factory that Mr. Zoeller did not forget to mention is that the

hogs. Of the latter, about 160 are usually on hand. The buildings on the Zoeller farm are useful, but not elaborate. In one thing they differ from most of the old buildings most of the old bullians in the country. They are well painted, and in the well painted, them Mr.

It is a failure to calculate items such as one that explains in part why farmers have for scores of years been willing to sell their produce for east than coat of production. Few of us knew what was the real cost of production. When we wrote our little schedules for the farm press, telling, for instance, the movey we made out of our cows, we always noted to a standard of roughage caten, the amount of grain, such as a standard of the schedules of the standard of the schedules. perhaps a veterinary charge, and then subtracted this from the cows' total income to determine our bernaps a reserrisary course, and their thirs from the cowe' total income to determine our profits. We never mentioned anything about depreciation in the buildings, in the cow he self-uniterest on investment and the value of our labor. We have not protested when our agricultural colice have been giving the consuming public and the building the consuming public and the profits of the profits of

Purchasing the Herd Sire

The Views of Prof. C. Larsen

THE purchaser of the purchered sire to head a common acrub herd should be willing to pay a reasonable price. If a man owns a herd of 10 or 18 area occur, he need not fear that the right kind of a sire is not a paying investment. Such a bull must consider the herd and each one may produce 50 butterfar per year more than the damples of the pounds of the production would amount to 1,500 bounds of hutterfat per year more than the damples of the pounds of the production would amount to 1,500 bounds of hutterfat per year more than the damples of the pounds of hutterfat per year and this butterfat is pounds of butterfat per year and this butterfat is worth about \$600.

These daughters should make this increased pro-These daughters should make this increased preduction for at least eight, rears. The total value of this increased production of these grade-daughters over servid dama would train the production of the producti large production to his offspring?

large production to his offspring? These inherited qualities are not visible. The average buyer usually pays for what he can see. This is often where the mistake is made. The invisible qualities, viz, large milk and butterfat production, which are beneditary, are the valuable ones. They should be combined with sood type. I paid \$900 for a male calf some time ago, and I figure that I paid \$50 for what I could see in the calf and \$850 for what I could so and what I could not hangle for what I could not easy and what I could so thangle for what I could not see and what I could not handle

It is aften advisable to purchase an aged and rived in preference to a young and untried one. A late of producing daughters of excellent type is a sure investment.

One pint of formalln is sufficient to treat from 30 to 40 bushels of grain for rust, and from 40 to 45 bushels of potatoes for scab.



A Brown Swiss Cow with a Creditable Record.

John cowned in one of the best herds in New York State, bas an official record of 1.5.84.6 lbs. of suits and 25.5 lbs. of butter as twenty-right. Her sire, Tom Phyllip of the breed distributes with milk records a twenty-right of the breed of the sire of the suits of the sire of the

(6)



Take Your Time

NEVER buy a cream separator in a hurry. Your reason for buying is not so much to get a cream separator, as to get all the cream from

get a cream separator, as to get all the cream from your milk, all the time. It takes time to pick that kind of a machine out of the many on the market. Send to reputable firms for catalogues, and study them carefully. See which machine requires the fewest and simplest adjustments; which has the best oiling system; which is most sanitary and most easily cleaned which is so well made that it will undoubtedly do good work for a long time. Go into details, and pick the best two or three of the lot.

Then ask for skimming demonstrations to determine how little cream is left in the skim milk. This is important, because the wrong machine can waste 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 you will find that you have bought a Lily Cream Separator because the Lily will prove to be first on all these counts. We will send catalogues on request, leaving the final decision to your judgment. Write to the nearest branch house.

International Harvester Company of Canada, Limited

WEST — Brandon, Man., Caignry, Alta., Edmonton, Alta., Estevan, Saak., Lethbridge, Alta., N. Battleford, Saak., Regins, Saak., Saakaton, Saak., Wanninger, Hens., Verkins, Saak.

- Hamilton, Ont., London, Ont., Montreal, Que., Ottawa, Ont., Quebec, Que., St. John, N. B.



Gilson

Girson

Gilson

Dart of the staunch, reliable "feeling for security," which is such a such a power, simplicity and an industry.

Gilson Engines have long enjoyed an exploration of the control of

GILSON MFG. CO., LIMITED, 257 York St., Guelph, Ont.

\$2.21 Per GUARANTEED Bu. WHEAT

Oats, Barley, Flax, Live Stock OPPORTUNITIES

IMMENSE WEALTH IN WESTERN

CANADA

SEND FOR FREE BOOK 'Ho neseekers' Guide'

LOW FARES

100.000 FREE FARMS

farmers this Fall. Estimated crop values of Wheat, Os asseed alone for 1917 in Manitoba, Saskatchewan s 3,885,700,00.

IMPROVED LANDS FROM \$15 UP

Tractors other Farm Implements Easily available—new Government assistance plan Capital or no capital—the work, the opportunity, is there, and the Canadian Northern offers the way. Write to-day for the new "Guide. Contains valuable information based on Covernment statistics. An C.N.R. Agent, or General Passenger Dept., Montreal, Que., Toronto Ont., ow Winnings, Man.

A Defence of "The Field Method" of Eradicating Tuberculosis

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

HAVE been much interested in a brief article in your issue of Farm 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. Field at Dutchland Farms as appearing in the issue of October 11,

The Field method assumes that the The Field method assumes that the foundation herd is suspicious—that it may even be made up of many "reactors." Presumably the tuberculin test may be applied to this herd as it is stated in the October article (Section 14), "Never allow these calves to mingle with any reacting animals or any cattle, old or young, which you have assumed to be reactors." Fur ther on, page 1088, October 11—"It is well to have your breeding cows tested at least once by a competent veter-inarian with the tuberculin test."
Whether tested by the tuberculin method or not this herd may be assumed 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 clinical symptoms.

This foundation herd is maintained under at least partial or semi-sola-tion conditions. It will be readily seen that while the reactors present may not be dangerous at the present time that one dangerous condition is always present and that a second may arise at any time. In other words, spreaders may be present without showing clinical symptoms, as already mentioned, and that reactors, as indimentioned, and that reactors, as indi-cating recently or slightly infected cows, are always liable to become spreaders. It is the "spreader" that must be isolated, in the strictest sense, or destroyed as a distinct

Tuberculin Test 95% Efficient.

The tuberculin test may be coned 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 proven and authentically on record, indisputably the tuberculin test fails to reliably indicate the disease in advanced cases where no clinical evidence is apparent, thus passing over the very indi-viduals that it is most urgently desirous of segregating or destroying, and rendering, in the final analysis, the results obtained in many cases worse than useless. This statement you might contrast with the claim of Professor Gillette in the final paragraph of his criticism in your issue of February 14th. The man who relies 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 nerd, 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 remaining clean herd.

The sputum test, whether applied as an auxiliary to the tuberculin test, as an auxiliary to the tuberculin test, or used alone, should indicate whether the cow is passing off from the nose and throat the infectious tubercle bacilli, 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 discountered to the disease, above the disease above the d seminating the disease, she may at any time become so. The aputum test applied regularly should indicate

The writer of this article has had an extensive experience with methods of cradicating tuberculosis from dairy hards; as much perhaps as any man in Canada. In the present instance, however, he prefers to write under a nom de plume.

just when such a case ceases to be dormant and becomes a menace.

In the foregoing connection it is just doubtful whether isolation of reactors (tuberculin test), should not be the first step in a proposed cleanup, particularly where this was being considered from an experimental standpoint. Employing the Field system, this would mean the establishment of an extra herd, or four herds in all: 1. The clean foundation herd as in all: 1. The clean foundation herd as indicated by the tuberculin test. 2. The herd in process of building-up, consisting of calves from the foundation herd that have been strictly isa-The reacting herd as shown lated. 3. The reacting nerd as shown by the tuberculin test. 4. The herd of "spreaders" (where such individuals were kept) made up of animals drawn from one, two, or all three of the foregoing herds. In actual farm practice such procedure would be utterly im-possible, so that the Field system seems to the writer at least practical in this regard.

Keeping the Young Herd Clean.

No comment is necessary regarding No comment is necessary regarding the clean her data is being built up (under the Bang system) from the foundation herd. It may be noted that application of the tuberculin test at this period (say as yearings) will determine the progress made in "cleaning up". Pasteurization of all milk fed from the foundation or "suspicious" herd is the keynote. It would appear that the sputum test should also have a place in safeguarding this herd, applied from time to time both secretions from the nose and throat and to those of faecal nature or of the intestines, proof being present that milk infection in the calf would likely be of mesenteric nature. Secretions valuable from the diagnostic view-point, therefore, in such cases would available only from intestinal

The argument advanced by Pro-fessor Gillette that "even with the fre-quent application of the sputum test the danger remains, the amount de pending directly on the period of time between tests" is undoubtedly true. It would seem to the writer, however, It would seem to the writer, however, that any test that would indicate re-ellably the virulent cases, even if but, infrequently applied, would be a tre-mendous stride toward the aims of the tuberculin 'est, aims which, as previously emphatically stated are far from Leing achieved.

In conclusion, it may be stated that the present status of the bovine tuber-culosis question is not widely applicated. Undoubtedly isolation is diffifult and not conducive to saving of labor, pasteurization is a relatively costly operation both as to outfit and operation, and the application of diag nostic tests is expensive and attended by the exercise of great care and patience. The breeder, great or small, however, who aims to breed a clean herd must adopt some practical com-mon sense method, realize the nature of the disease from which he desires to free or protect his herd and "keep everlastingly at it." The Field method undoubtedly has defects, but it has been evolved from the results of experience, is sound in theory and would seem to have given results. The criti-cism offered in your February 14th issue is not constructive in its en-

The new Pure Maple Sugar law The new Pure Maple Sugar law gives the public protection against adulterated maple products. The scarcity of cane and best sugars this year will also make it less profitable to nix them with maple flavoring extracts. The markets of Canada and the United States are caper for pure maple yerup and maple sugar, and the dense when the protection of the control of the c

Couch spread fro method of stalks pres where cou piling the ed rather on the lane Leitch, O.A

Cedar

The cedar foundation barn were were placed cut end set other to the This gives the appear makes a go warm, dry w Rennick, a

Seeding

His last f
with our
very poo
to re-seed in it
We have seed
but never alfa
We would I
wheat after of
the corp belt of
rows with a o
aeason. Would
E. E., Halton
E. E., Halton

I think it w seed your alfa extremely wel sike, and shou alfalfa.

It is not conto drill wheat the fall. I no method is qui the corn growi ed States, and should not be this country, if of September. however, in eastrip of land w with wheat. The growing. It wo harm to attemp Management, O

Seeding

HAVE a fivesowing with
sweet clover
there is no swee
part of the county
ing about it, wi
ean be sown with
ean turn the cat
take off the oat
clover for the nei
Co. Ont.
The usual me
to sweet clover

to sweet clover subscriber spring grain. T why timothy why timothy s along with sweet with red clover.

Farm Management

Killing Couch Grass

PLAYE some couch grass which i-pened and was threshed alone with my grain this past for the past of th

grass—C. C. d. Lameion Cc. Ont.
Couch grass will quite readily
spread from seed, although the usual
method of propagation is through root
statis; present in the ground. In cases
where couch grass seeds are found in
the feed produing, I would suggest
the manure until it is well heated; rather than spreading it directly
on the land. Fasturing has very little
effect on Killing couch grass—A.
Leitch, O.A.C., Guelph.

Cedar Block Foundation

N your issue of Jan. 3, I saw an account of the delry barn of Mr. Rennick, of Vankleek Hill. As I saw going to build a cow barn in the spring the comment and humber are so high so price to knew the length Mr. Rennick cut is to knew the length Mr. Rennick cut of the control of

The cedar blocks used to make the undation of Mr. Rennick's dairy foundation of Mr. Rennick's dairy barn were all fe inches long. They were placed in lime mortar with one cut end set to the weather and the other to the inside of the cow barn, the street he wall from a distance the appearance of being built of how the cobbe stones or boulders. It, yound cobble stones or boulders. It foundation of makes a good-looking wall, a very warm, dry wall, and according to Mr. Rennick, a cheap one.

Seeding Alfalfa and Wheat

His hast fall we needed affairs along with our fall wheat, but it made a very poor start. Would it be wise to remain the poor start would be successful to the start of the st

I think it would be quite wise to re-I think it would be quite wise to re-seed your alfalfa in the spring, on the last snow. This method works out extremely well with red clover or al-sike, and should do equally well with

It is not common practice in Ontario to drill wheat between corn rows in the fall. I notice, however, that this method is quite successfully used in method is fulle successfully used in the corn rowing sections of the United States in the section of the States in the section of the secti

Seeding Sweet Clover

INAYE a five-acre field that I intend awing with cate seeded down with there is there for after pasture. As there is there is a five first part of the county, and are grown in this part of the county, and are grown in this part of the county, and are grown in this part of the county, and are grown in the part of the county, and are grown with sweet clover; also, if I can take the county of t

The usual method of seeding down to sweet clover is that proposed by our subscriber—along with some spring grain. There is no reason why timothy should not be seeded along with sweet clover just as it is with red clover. Much more clover seed, however, must be used in the case of sweet clover than of red, the amount commonly recommended be-ing 20 lbs. to the acre, although a fairly full stand will be secured with 15 lbs.

Last fall we visited Mr. G. A. Bro-Last fall we visited Mr. G. A. Bro-die, of Newmarket, one of the most extensive growers of sweet clover in Ontario. Mr. Brodle, we found, makes a practice of pasturing his sweet clo-er, stands in the late summer after the grain crop has been removed, and where care is taken not to pasture too closely, no harm results. He aboved us one field that had carried quite a stock for a while, and still quite a stock for a while, and still showed us one need that had carried quite a stock for a while, and still showed sufficient strength to protect it through the winter. He had diffe-oulty in drying out the sheaves of the

grain, owing to the great length of sweet clover in the butts.

Pasturing Spring Grain

Pasturing Spring Grain

ILAYD two fields that I would like to

I still stressed that coming a ring. The
land has research to coming a ring. The
land has research to thinking a ring. I have been thinking the content of sowing very
leavily to grain and the color of sowing to grain

An annual pasture of spring grains
has been used for several years at
Guelph, the laud being seeded in each
case to red clover. Mr. Leitch, the
farm manager, assures us that, in all
farm managers, assures us that, in all
farm managers, assures us that, in all
farm managers, assures us the same than the content of the

to improve the stand rather than otherwise. Last spring on our own farm we seeded a small field near the barns for seeded a small field near the barns for another basture with a mixture of one shift pasture with a mixture of one shift pasture with a mixture of one shift pasture and seven pounds of red clover acce and seven pounds of red clover acce and seven pounds of red clover mach and the shift pasture of the shift pasture to improve the stand rather than other-

Heavy soils, if well surface drained, will not pay for much under drainage.

J. H. Spry, B.S.A.



"Ideal" Fence Prices

Freight Paid to Your Station

Below we give the freight-paid prices to any station in Old Ontario (except electric) on only a few of the many styles of "Ideal" Fence. The "Ideal" Catalogue and Freight Paid Price List—sent free on request, a program will being it to your shows and describes fully and crime with the price of the price postal will bring it to you—shows and describes fully, and gives prices, freight paid to your station on—

25 Styles Heavy "Ideal" Fence

Made throughout of full gauge No. 9, evenly galvanized Hard Steel Wire, from a 4-wire fence 38 inches high to a 15-wire, 57-inch fence. A style for every purpose.

12 Styles Medium Heavy "Ideal" Fence

Made with No. 9 gauge wire for top and bottom, all other wires No. 12 gauge.

2 Styles "Ideal" Poultry Fence—Made with No. 9 gauge wire for top and bottom, all other wires No. 18 gauge. All Size Farm and Stock Gates—with improved features found on "Ideal" gates only. 6 Styles "Ideal" Lawn Fence and Gates. Brace Wire, Barb Wire Coiled Wire, Stretchers, Steel Posts, Diggers, etc.

Send today for "Ideal" catalog with Freight-Paid Prices

No. 7400 HORSE AND CATTLE FENCE 7-line wires, 40 inches high, stays 22 inches apart. Spacing 5. 6. 6. 7. 74. 84. Made throughout of full gange No. 9, venly galvanized hard steel wire. Price, per rod.

No. 7480 HORSE AND CATTLE FENCE
22 inches apart. Spacing 5. 65, 75, 9, 10, 10.
Made throughout of full gauge No. 9
evenly galvanized hard steel wire.

51c 51c

No. 831 HOG FENCE

164 inches apart. Spacing 2. 3. 3. 4. 5. 6. 7.
White throughout of full gauge No. 9,
Price, per rod. 60c

Send today for compares, lawn fence appaid to any station "Ideal" fence, supplies freight or New Ontario.

Quebec and Maritime Provinces Quablec and Provinces
We have opened a warmhouse and office in
Montreal to handle Eastern shipments and correspondence. Ask our Branch, 14 Place Royale,
Montreal, Quebec, for "Ideal" prices, freight paid
to any station in Canada east of Montreal. No. 1048 GENERAL STOCK FENCE
16å inches apart. Spacing 3, 3, 3, 4, 6, 6, 7,
8, 8å. Made througout of full gauge
No. 9, evenly galvanized hard steel
75c

55c

25-lb. bundle No. 9 galvanized brace wire \$1.60 staples galvanized fence staples

staples

staples

stord

spool

'Ideal' stock gate, 14 feet long x 51 inches
high. Each

'Ideal' farm gate, (close mesh) 12 feet

x 43 inches. Each 6.50

OUR GUARANTEE

"Ideal" fence is guaranteed to be made exactly as represented, to be made as the best fence should be made and to give you THAT VALUE you expected to receive when ordering.

We have a large stock of all styles of "Ideal" fence on hand and will ship all orders the same day as received, while stock lasts.

The McGregor Banwell Fence Co., Limited

Walkerville, Ont.





1334 Hallam Bldg., Toronto



v—Laber, Be independent of weeds, Doy, with a 6tol 2 h.p. English Rice Money Labor, SILSON MANUFACTURING COMPANY LTD.

Brantford Kerosene Engines

11/2 to 60 H. P. Stationary, Mounted, Traction



These engines are the perfected product of years of study and experimentation with Internal Combustion Engines, and are a demonstration of the study of the study

GOOLO, SHAPLEY & MUIR CO., LTD.

Brantford, Winnipeg, Regina, Calgary.

HORTICULTURE

The Food Controller and Fruit

VENTURE to state that the Food Controller will be the greatest sin A gle element in the distribution of the fruit crop of 1918. It is expected that we will have a moderate crop of apples in Canada next season. I an. not looking for a big crop. Labor con ditions are such that farmers are devoting their energies to other lines of agriculture, which are not so speculative as that of fruit production. Orchards which a few years ago were receiving every attention, are now neglected and deserted and the owners maintain that the labor situation is too acute and the profits from ah orchard too speculative for them to take a chance and they are therefore giving their attention to the other parts of the farm and if they are able 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 statement has gone out that there will be no market for fruit, and yet the price of fruit has steadily advanced until this year it has reached such a height that it has practically stopped con-

The Food Controller's policy is the substitution of fruit and vegetables for the more concentrated foods such as meat and flour and I believe that before next season's crop is harvest ed, the people will be educated to consider it a national duty to consume fruit and veretables in preference to the exportable stables. If prices are moder to the consumption enormous and I believe that Canada could have consumed two or three times as many apples this year as they did. We have imported against a duty of 90 cants per bbl. 376,414 bbls. of apples from the United States. from the 1st of April, 1917, until th 31st of January, this as against 224 290 bbls, for the same period last year. This fruit should all have been produced at home. The average house country towns is not using apples; the people are simply doing without them, not because they do not want them, but because the price has been prohibitive owing to shortage of supply In 1918 the fruit growers must not expect the high prices that prevailed this year, but I believe that those who give their orchards the proper care and pack their fruit in strict accordance with the requirements of the Inspection and Sale Act, have good reason to look for a fair return for invested.—D the time and money invested.—D. Johnson, Dominion Fruit Commis-

Best Varieties of Vegetables

WING to the scarcity of seed of many varieties of vegetables this year it will not always be possible to get those which are de-sired, hence the importance of order-ing early in order to make sure 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 kinds vegetables are suggested so that if it is not possible to get one it may be possible to get the other.

Beans .- (Round Pod Wax) Round Pod Kidney Wax, Pencil Pod Brittle Wax; (Flat Pod Wax), Ward-well Kidney Wax, carly, and Hodson Wax, late; (Green Pod), Stringless Green Pod, and Early Red Valentine, early, and Refugee or 1000 to 1, late. Lima and Pole beans are not very sat-Isfactory except where the season is long and warm. The bush varieties of Lima are the most satisfactory. Scarlet Runner is the most reliable

Pole bean but Kentucky Wonder is

Dark Red, and Early Model.

Borecole or Kale.—Dwarf Creen Curled Scotch.

Brussels Sprouts.-Improved Dwarf. The Dwarf varieties have been found more satisfactory than the tall ones.

Cabbage.—Early Jersey Wakefield, Copenhagen Market, early; Succession, medium; and Danish Balihead and Drumhead Savoy, late; and Red Capiliflower.-Early Snowball and

Early Dwarf Erfurt. Carrot.—Chantenay, Danvers Half Long, Early Scarlet Horn for extra

Celery.-Golden Self Blanching

(Paris Golden Yellow) early; Win-ter Queen, Evans Triumph, and Perfection Heartwell, late; White Plume for coolest parts. -(Extra early), Early Mal-

Corn. colm, Maiakoff, and Peep O'Day; (early), Goffien Bantam; (medium), Farly Evergreen or Black Mexican; (late), Country Gentleman and towells Evergreen; Squaw for coclest parts.

Cucumber.-Davis Perfect, White Spine, and Chicago Pickling.
Egg Plant.—New York Improved.

Long Purple, and Black Beauty Lettuce - Grand Rapids and Black, Seeded Simpson (early loose curled).

Reeded Simpson (carry noise carrear, Iceburg, Giant Crystal Head, Improved Hanson, Salamander, All Heart, and Crisp as Ice (head or cabbage). Melons, Musk.—(Nutmeg type Long Island Beauty, Hackensack, an type)

Montreal Market; (yellow fleshed) Emerald Gem, Hoodoo and Paul Ross. Water.-Cole Early, Ice onions. Water.—Cole Early, Ice Cream, and Phinney early. Onions.—Yellow Globe Danvers and Early Red Wethersfield. Prize Taker

cially for transplantingt Flat Red and Australian Brown are good where the season is short. Dutch sets ensure a crop in a short season when, if grown from seed, the coions may not mature.

Parsley.—Double Curled.
Parsnip.—Hollow Crown of a good is the best. Intermediate also good.

Pepper.-Early Neopolitan large varieti and Cayenne, Chili and Cardinal of the small ones

Cardinal of the small once.
Peas.—CExten early) Grecory Surprise: (early) Thos. Laxton, Gradus,
Nott Excelling, assertions Wonder, and
Sutton Early Giant: (second early)
Sutton Exreduct and Premium Gens;
(medium to late) McLean Advancer,
Heroine and Stratagens; (and Luie
Land and Quite Content.
Radish.—Scarlet White Tipned TurRadish.—Scarlet White Tipned Tur-

Radish .- Scarlet White Tipped Turnip, Rosy Gem, and White Icicle Salsify. Long White, Sandwich Islands

Spinach. - Victoria Thickleaved, Viroflay.

Squash.-Long White Bush, Sum-Crookneck; late, Delicious, Hubbard.

Tomatoes .- (Extra early) Alacrity, Sparks Earliana; (early and main crop) Bonny Best, Chalks Early Jewel and later good sorts are Matchless and Trophy (scarlet), and Livingstone Globe and Pientiful (purplish pink). Ignotum for canning

Potatoes.-(Early) Irish Cobbler or Green Mountain, Gold Coin, Wee Mac-Gregor, Carman No. 1. Early Ohio is a good extra early pink sort, but is not very productive.

The Ontario Agricultural and Ex-perimental Union conducted 263 tests with potatoes in 1917. Only two varieties were distributed, Extra Early Eureka and Davies Warrior. The former had two per cent. more small potatoes, but the tubers of this variety scored higher for mealiness when cooked. The yield of bushels per acra was 167.8 and 147.8 respectively.







Gasoline and Keronene Engines, Saw frames, saw blades, grain grinders, straw cutters, belung, scales, farm and lawn fence. Write for price list. A. R. LUNDY 253 King St. W., Toronto, Ont.

Peck, Kerr & McElderry rristers, Solicitors, etc. 415 Water St., Peterborough E. A. Pock F. D. Kerr V. J. McElderry







March 14

On

WE hear medica! ing men. In I pital known a where mutilat with new nos And with suc commonplaces artificial lega stocked by all shoes. Now good thing if y number of nati you may be with a hand m swing a 17-lb ength with you dier is reported this statemen. to question

But a hand h handle. It is a shake. What p have in squee hand? He wou breaking a pini And then cons of a non-condupretty girl and into the case. I hand may now ! a badge of hon would be wise t removed (one h handclaspe) just The handelasp

universal gauge

Here and there amateur detectiv adaptation Holmes for slee judge everyone he wears, forget new straight la mis-shapen toes. domes of their v place great stre straightforwardly fourth button of carrying on a c consider a dange unwary young me posite sex have been numbered v

But the handel elaborate system men if you have men if you have with them. You stinctively. The a cold clammy h an eel, has told y plainly as if he w the word "bewa stranger who sha the hand and inse of his disengaged tonhole at the fair suspicion. Remei everybody is a frie probability is that scription to a fa

Then there is th usually indicates difference to socia empty head. Of a have acquired this in the last few ye become scarce. shake anything for a fit of abstraction the furnace and the the precious fuel. with a wrestler whing. If you want



On Handclasps

WE hear a great deal nowndays about the wonders achieved by medical scientists in remodeling men. In England we have an hospital known as "The Tin Nose Shop," where neutilated faces are furnished with new nonce, ears and eye owa-And with such marvels becoming commonplaces, it is not strange that artificial legs and arms are being storked by almost every departmental store, like so many gloves or gum shoes. Now an artificial arm is a good Ling if you haven't the ordinary continuation of the strange that it is a strange that the strange of th

But a hand has other uses than acting as a hook on which to hang a fork handle. It is necessary in a hand-hake. What pleasure would a friend have in squeezing your mechanical hand? He would always be afraid of breaking a philon or a cam or somewhat handle hand the consider the disadvan age and the non-conducting hand when a pretty girl and a summer moon enter into the case. No, though an artificial hand may now be usually regarded as a badge of honor, I do not think it would be wise to have a natural arm removad (one having the capacity for handclaspe) just for the sake of proving the worders of science.

The annotanop is probably the most universal gauge of character in vogue. Here and there one comes across amateur detectives who employ various adaptations from Sherlock Holmes for sleuthing lousive human ature to its proper lair. One will judge everyone by the shape of boot he wears, forgetting that one of the new straight lasts may often hide mis-shapen toos. Another will classify all human nature by the bulges on the domes of their victims. Another will place great stress on the action of eyes, whether they meet your's straightforwardly or look you in the fourth button of your waistoost while carrying on a conversation. This I consider a dangerous test, for many unwary young men with have attempted to apply this test to one of the opposite sex have at the next census been numbered with the benedict.

But the handclasp is different. No claborate system is needed to classify men if you have once shaken hands with them. You classify them in stinctively. The man who holds out a cold clammy hand that feels like an eel, has told you his character 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 finger of his disengaged hand in your buttonhole at the fair is likewise open to suspicion. Remember "A friend of everybody is a friend of nobody." The probability is that he wants your sub-cription to a farm paper, "at the price of the postage, only 98 cents."

Then there is the limp hand. This usually indicates either supreme in-

race there is the limp hand. This usually indicates either supreme in-difference to social intercourse or an empty head. Of course some may have acquired this characteristic within the last few years, since coal has become scarce. They are afraid to shake anything for 'ear they might in a fit of abstractlpu do the same with a few can another the furnace and thereby lose some of the precious fuel. I once shook hands with a wreather when he was in training the process of the process

sensation, place you hand between the bunter and the hay in a hay press He didn't know how strong his handclasp was, but I can assure you it was the opposite of him.

clasp was, but I can assure you II was the opposite of lin:p.

I like a good firm handclasp from a friend. I like him to grip my hand in friend. I like him to grip my hand in wilcome when I come to his house and wilcome wilcome to his house and when him I allows the sincerity of my leaving. I allows the sincerity of his words.

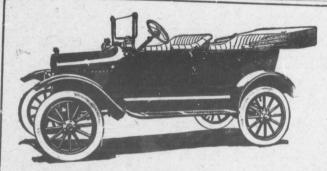
A man experiences many kinds of handclacys in his journey through this "wale of tears," but the best of all is the handclasy of his sweetheart. Do you remember how you used to thrill when your hands touched? And then one evening you summoned up enough courage to hold hers. But do you

ever hold her and now, you old benedict? It would he'p some in these strennous days. Both you and your strennous days. Both you and your helpmate would derive strength for the cares of life, because you would feel you were tackling the tasks tosether, hand in hand you-see. Yes, a little "hand holding", among staid married couples might often lead to a batter understanding. Dad would be able to soltce the wells on rother's hands and so would appreciate more fully that housekeeping is not all roses. We would have more labor saving devices in the kitchen and a saxoline engine would run the washling machine.

Sam Ray

The Nova Scotla Department of Agriculture has issued three bulletins on food production which are available to Nova Scotla farmers on application. The first one deals with publication. The first one deals with the second servicing in Nova Scotla, the second service of the service of the

I would speak a word as to the merits of your paper, as I take several. I like Farm and Dairy best of any I have, and would not be without it.—F. S. Sharp, Kings Co., N. B.



A Ford Car Takes the Place of all These Things

HEN you own a Ford you can do away with many articles that are a source of continuous expense to the man who still drives a horse. For instance, not only your driving-horse and buggy, but the single harness, blankets, whips, currycombs, brushes, horse-shoes, pitch-forks, feed-bins, etc.

In their place you have a speedy, dependable, dignified, roomy Ford Car—complete in itself. It is vastly superior to the narrow, cramped buggy that travels so slowly. And when a Ford is standing idle it does not eat three meals a day, and it requires no "looking after."

A Ford will save you time, trouble, and money. It is the utility ear for the busy farmer and his family.





Runabout - \$575
Touring - \$695
Coupe - \$770
Sedan - \$970

F. O. B. FORD, ONT.

Ford Motor Company of Canada, Limited Ford, Ontario More Work for Less Feed Thrifty horse owners give their horses Pratts Animal Regulator with the feed, and effect a sawing of 10 to 20 per cent.

Pratts REGULATOR

proves digestion, keeps the blood, bowels regular, coat smooth glossy. Makes your animalthy, vigorous and productive







while he works

Galls and sore shoulders reduce the efficiency of your horse—sap his strength—lown his spirit. Cure him without the see of medicine—while he does his heaviest work, with the Lankford Collar. We guarantee a cure

n properly fitted. Be to and get the genuise droft Collar-made of white sail duck, triminextra heavy leather staffed with clean and downy curled m, medicated, which will not pack or en. Also comes in special brown remored duck.







Adds Quality to Every Pound of Butter



THE CANADIAN SALT CO. LIMITED

Protect Your Crops Next Season

Prepare Now for the Great Insect Offensive Entomological Branch, Otteva.

HROUGHOUT the country there was a splendid response during 1917 to the call for increased agricultural production. Larger crops were raised on the farms, and city dwellers, by the cultivation of gar dens and vacant lots, contributed greatly to the success of Canada's efforts to relieve the world-wide efforts to relieve the world-wide food supplies than ever is required next supplies than ever is required next year, for field crops are not only re-quired to meet immediate human needs, but increased production of hogs, dairy products, and beef are dependent upon such crops.

The production of maximum crop

demands constant watchfulness and effort on the part of the farmer, fruit grower, and vacant lot cultivator, in order that such crops may be protected from the numerous pests that at-tack them. We repeat: "Crop pro-tection means erop production." Insect pests destroy annually from 10 to 25 per cent. of all crops grown. The total loss to the country is enormous; if we express the aggregate loss inflicted annually by insect pests to the field crops of Canada in terms of wheat we find that the total loss is sufficient to feed the entire population of the country for one year Much of that loss can be prevented. At the present time it is incumbent upor us to take every means to prevent it Insects can be as effective as enemy submarines in destroying food supplies. Like submarines, they are in in their operations. must be sought out and destroyed.

Order Supplies Now.

Now is the time to make prepare tions for next year's offensive. To be prepared is half the battle. Lack of foresight and due preparation means disappointment and loss. The greater cost of production and the greater need of more crops make crop pro-tection all the more necessary. Util ize the present quiet season to make plans for next year's campaign. According to the crops that are grown and the insects that occur in your district make preparations now for preventing their ravages next meason.

Owing to the sudden demand during the period when insects were active last summer for insecticides such as lead arsenate and paris green, a serious shortage occurred in many places, with consequent higher prices. This can be avoided if growers will obtain their requirements before spring Insecticides are the growers'

munition, ample supplies of which are necessary to a successful offensive. Fruit growers should now determine their requirements and take steps to meet them. Growers of potatoes and other field crops subject to insect at-tack should obtain supplies of the standard insecticides to meet their needs: areenicals for insects such as grasshoppers, potato beetles, cut-worms and other caterpillars that devour the foliage; contact insecticides such as whale-oil soap and nicotine nreparations for such insects as plant lice or aphids. All spraying machinery should be thoroughly overhauled, cleaned, and offed in readiness for use when required in the spring, as the spring is a busy time for the grower Such timely preparation will mean not only the saving of time—an important matter when labor is scarce—but it will also mean the saving of crops, for a few days' delay in applying preventive or control measures will frequent ly result in serious losses from in sect pests.

Clean Up Rubbish.

When it is possible rubbish and trash of all kinds should be cleaned up and burnt. A clean farm, orchard, or garden means fewer insect pests. Weedy fences and fields and accumulations 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 at-tacks of many insects, such as weevils, etc. Seed peas and beans should receive special attention, and

should receive special attention, and
if they are infected they should be
fumigated with carbon bisulphide.
In the spring special attention
should be paid to the careful preparation of the land and time of seeding. Such special care will result in the securing of a more vigorous growth, and vigorous plants can more successfully withstand insect attacks.

Certain insects are more readily controlled during the winter months. In the provinces of Nova Scotia and New Brunswick fruit-growers should make every effort to collect the winter webs of the brown-tail moth; the law requires owners of properties infested with this insect to adopt control measures. Throughout eastern Can-ada there is at the present time a widespread outbreak of the white-marked tusseck moth, which we expect to be serious next year. Fruit-growers and owners of shade trees should now destroy as many as pos afble of the conspicuous white egg clusters in which the insect p the winter; they can be scraped off the trees, fences, etc., or swabbed with creosote. Much injury next year will be prevented by taking such steps during the coming winter and early spring before the buds burst. Farmers, fruit-growers, and others

are urgently requested to make the fullest use of the affices of the Entomological Branch. Enquiries or calls for assistance addressed to the Dominion Entomologist, Department of Agriculture, Ottawa, to whom all compostage, or to any of the officers in charge of our field laboratories in the various provinces, will be given im-mediate attention and all the help possible will be rendered to the protection of crops. It is the de sire of all these officers to assist to the fullest extent of their powers. Let them help you to protect your crops and thus increase our food supplies which are so vitally essential at the

28 Years With Tile Drains

66W HEN I left this institution 28 years ago, I was free! years ago, I was fired with enthusiasm for tile drain-remarked Mr. Nelson Monteith, of Perth County, speaking at the last meeting of the Experimental Union at Guelph. "In the years that followed, I put in 25,000 feet of tile on the home farm with my own hands. I remember when I was doing my tiling we got 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 earlier. The land is easier to work. The crops have been greater because of the land being well drained."

Monteith are worthy of note. He has found that three feet is too great a depth for tile drains on heavy clay soils. The land is so retentive of moisture that excess water does not reach the tiles and the land does not get friable. His second pointer was, "If you ever have occasion to lift tile that have been in the ground for some years, use again immediately, as they will not withstand exposure to air or frost."

The method of curing has much to do with the strength of cement field tile. When cured in a steam kin the tile are usually good. If cured by aprinkling, a large per cent. may be poor.—J. H. Spry, B.S.A.



IMPERIAL TREES True to name and sure to please. Send for our low-priced cata-

THE IMPERIAL NURSERIES Ridgeville Ontario

HIGH GRADE SEED

O.A.C. No. 72 oats, registered seed, germ. test 99 per cent., \$2 per bushel. Improved O.A.C. No. 72 oats, germ. test, 100 per cent., \$1.60 per bushel. Registered O. A.C. No. 21 barley, germ. test, 97 per cent. \$2.50 per bushel. Improved O.A.C. No. 21 barley, germ. test, 98 per cent. \$2.00 per bushel. All true to variety per ousalet. All true to variety and free from surt and noxious weed seeds. Small white field beans, extra quality, \$10 per bushel. Samples on request. Sacks free. Prices Lo.b., Allis-ton, C. P. R. or G. T. R. RUTHVEN BROTHERS

R. R. No. 2 - Alliston, Ont.

345 Acre Farm \$7500 With Stock, Tools & Crops

With Stock, Tools & Crops Wire-denote, 60-cow pasture; tillage cutting 50 to 100 tone hay besides pointons, sorn and grain; and the conditions of the condit

E. A. STROUT FARM AGENCY DEPT. 9, 150 Nassau St., New York, N.Y.

BOOKS

Write for our catalogue of farm oks. It is sent free on request, at us for information on any oks you require.

FEEL

1 March 1

A Ne

W E have milk stated I make up a est production meal. My hof a very should these best results? A ration of materials

be fairly sa posed of hay 25 to 30 p mixture con parts; whea cottonseed r fed at the r three and milk produc the individu In feeding to en to give milking in flavors in the desired to p with the gra be taken to before milki

Feedin WE have we feed him but we have good for the mixed hay, bu An excelle

month Holst follows: hay pounds; root chop or oat of 3 to 5 pos the condition usually unwis of corn ensi roots, hay and if the ensilar paratively i grain even at and type of a on how he is months. In a and thrift of largely on the and his gene service. Such olicake are u of a herd sire

Feeding W ls live in cows, p family buy all our fee and other feed price. One of and giving 35 i you suggest a cow, with clowase? Would yo other cow the Peterboro Co., The selectic feeds for mile feeds for mile

feeds for mile time governed ble supply. for choice tha bably of feeds crushed oats tained with h the substituti feeds containi ents in cheape ble. A ration hay 15 lbs., wheat bran lbs., and offica feetly balance 35 lbs. of testing well o It is possible amay substitute feeds such as some other en

FEEDERS CORNER

A New Brunswick Ration

W E have started to supply the city milk trade and have to ship a sum of milk. How can I make up a sum of milk of the historian production from the following historian production from the following meat. My hay is ordinary meadow hay seed to be supply to the continuation of the continu

beet rest[ts]—9. S. S. Kings Co., N.B. A ration for mileb cows composed of materials mentioned which should be fairly satisfactory might be composed of hay, 15 pounds daily; turnips, 25 to 30 pounds—daily; and a meal miture composed of hay, 15 pounds and bran four mitures composed of what bran four parts; wheat middlings, two peris, and parts; wheat middlings, two peris, and cattengand meal 2 parts; this, migtures parts; wheat middlings, two percs, and parts; wheat middlings, two percs, and cottonseed meal, 2 parts; it makers fed at the rate of one pount; for every three and a half to four pounds of milk produced, varying, however, with the individual requirements per cow. In feeding turnips, care should be taken to give these immediately after militing in order to prevent turnip militing in order to prevent turnip militing in order to prevent furnip dearly of the milk. However, if it is desired to the milk. However, if it is desired to the milk. However, if the parts of the parts of the milk in the milk in turnips and mix with the grain in tending care should be taken to feed at least one-half hour before milking.—E. S. A.

Feeding the Herd Bull

Wils have a registrone Hoistein bull
18 worse and the state of the sta

An excellent ration for an eighteen month Helstein tration for an eighteen month Helstein herd bull might be as follows: hay, 12 pounds; and 18 pounds; roots, 20 pounds, and 18 pounds of 20 pounds and 18 pounds chop or oat and barley chop 2 parts; linseed oilcake, 1 part; fed at the ratio of 3 to 5 pounds daily, depending on the condition of the animal. It is assully unwise to feed large quantities of corn ensitage to the exclusion of corn ensitage to the exclusion of corn ensitage to the exclusion of roots, hay and grain, and especially so if the ensithage was made from comthe ensilage was made from com-aratively ripe corn. I believe it paratively would be wise to purchase and feed grain even at present prices. The size grain even at present prices. The size and type of this buil depends lar ely on how he is fed during the nex 12 months. In addition to this, the vigor and thrift of his calves depends very largely on the way in which he is fed and his general condition at time of service. Such grains as bran, oats and ottake are merceally olicake are unexcelled in the feeding of a herd sire when in use.—E. S. A.

Feeding Family Jerseys

Feeding Family Jerseys

It lives in teem but heap two Jersey
cows, partly to supply milk for the
family and partly for sale. We
for all the supply of the supply of the
family and partly for sale. We
family and partly for sale. We
family and partly for sale we
for the supply of the supply of the
feed ser ment and the supply of the
feed ser milk a day. Would
do
we with clover hay as the only route
and Would you supplest a ration for the
feeds for milk cows is a the present
time governed largely by the availtime governed largely by the available supply. There is much less room

able supply. There is much less room able alphy. There is much less room for choice than in normal years. Probably of feede available, wheat bran, crushed oats and oilcake could be obtained with least difficulty, although the substitution of these for other feeds containing the digestible nutrients in cheaper form might be possible. A ration composed of clover hay 15 lbs., clean oat straw 5 lbs., hay 15 lbs. clean oat straw 5 lbs., wheat bran 4 lbs., crushed oats 2 lbs., and olicake 2 lbs., is about perfectly balanced for a cow producing 35 lbs. of milk daily, presumably testing well over 4 per cent of fat. It is possible that your correspondent may substitute for the oats some feeds such as Schumaker Feed on some other segmentation. some other compounded dairy meal, if it could be obtained more cheaply.

It is also possible that either gluten feed or cottonseed meal or a high grade of distillers' grains might be obtained in place of the ollcake. 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 condition of the cow and the proximity to calving, would be most economical.-E. S. A.

Substitutes for Coarse Grains

Substitutes fc: Coarse Carins

Wis have been feeding our cown sejful

to text ibs. of clover hay daily and
construction of the construction of the

At the present prices of oats and barley it is doubtful if these can be economically fed to milch cows execonomically feet to mileh cows except in very small quantities. Wheat
bran, even at present prices, contains
nearly as much total digestible nutrieats as oats and barley, contains 30
per cent, more digestible protein, contains twice as much manurial value,
and at present prices is only half as
and at present prices is only half as
appensive as gate or, harley, offlere expensive as oats or barley, either for total digestible nutrients or digest the protein; hence, it would certainly pay to sell these grains and replace them if available with such meals as wheat bran, corn bran, dried diswheat bran, corn bran, dried dis-tillers' grains, cottonseed or olicake meal. The present ration does not contain sufficient protein for milich cows. A ation which I would suggest may be composed of two parts wheat bran, two parts corn bran, two parts dried distillers' grains or cottonseed meal and two parts oats and barley chop. This grain ration might be profitably fed at the rate of one pound for every four pounds of milk pro-duced, this, however, depending upon the individual production and condition of each cow.-E, S. A

The Potato Situation By D. Johnson, Dominion Fruit Commissioner.

HE Fruits and Vegetables con mittee appointed by the Food Controller has studied the porato situation. An investigation into the struction. An investigation into the source of supply leads us to believe that there is a large surplus in Canada. A like condition exists in the United States, but owing to transportation difficulties, most of these pota toes are not directly available to the toes are not directly available to the consuming public. Take, for instance, the case of Prince Edward Island, where we have a surplus of over 2,000, 000 bushels. The Food Controller made a special effort to move these potatees into consumption. Mr. Haxter of our staff and a number of others went down to the Island and worked out a sweten who. worked out a system, which had it not been for abnormal weather conditions and breakdowns in the railway organi-zation, would have insured a plentiful supply of petatoes to central Canada. Infortunately the Prince Edward Island rallway was unable to meet the demands made upon it and only a limited quantity of potatoes were moved, and it is now feared that many of these potatoes will not reach the market but will have to be consumed by live stock upon the farms It is unfortunate that the transporta-tion facilities of this fertile Island are so inadequate. Large quantities of food are produced there and the Food Controller has urged that the govern-ment take immediate action to im-prove the transportation service there in order that these foods may be avail-

able in the larger consuming centers. The car shortage has also been very acute in New Brunswick, it being almost impossible for shippers to so-cure any kind of ears for the move-ment of potatoes. The Committee, however, was able through Mr. Spen-cer and Mr. Mchitosh to provide

As You Plant, So will You Pick Good emps are not accidental. Big. maxly tomatous.—Crip spicy radiibas.—Largo, firm botte-cross, obj. time. first. of generate and redulate seeds. Doubtful needs are dear at any price. This own of the proper composition, be near and buy good seed. McConsid. statistical the largest cropy one are produced, he near and buy good seed. McConsid. Statistical being dear of the critical form plants of protect production, trated strains of highest permissions and supercongruents, persystematic plants of for a for-good in Commiss delinear. SEND TO-DAY FOR BIG NEW CATALOGUE

40 years we have furnished seeds of the st quality. Thousands of customers attest act. Fill in the coupen now and mail it to-day.

KENNETH McDONALD & SONS, Limited MARKET SQUARE, OTTAWA, CAR.

&Donald's ESTED SEEDS

DICKINSON'S PINE TREE BRAND SEEDS

Timothy, Clover, Alfalfa and Other Field Seeds if Your Local Dealer Cannot Furnish This Brand

WRITE THE ALBERT DICKINSON CO. MINNEAPOLIS CHICAGO

HARDY ALFALFA SEED

GRIMM ALFALFA SEED GROWN IN ALBERTA

The hardiest known Alfalfa. Practically no danger of winter killing with this seed. Guaranteed pure Grimm. Write for prices and samples

CANADA LAND & IRRIGATION CO., Limited SUFFIELD, ALTA.

W. A. MCGREGOR

Superintendent of Farms

APPLE TREES

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, are healthy and clean, and backed by a reliable, dependable company.

Plant E. D. Smith's Trees

cost no more than inferior, poorly-grown trees, and they are

They cost no more than inferior, poorly-grown trees, and they are all inspected by Government Inspectors.

If you are unfamiliar with the best varieties for your section, we will be glad to assist you in your selection, and such assistance places no one under any obligation to purchase. We have nearly 800 across devoted to Nursery Stock and Orcharding, and can supply first class stock of the following salected and innected trees: stock of the following selected and inspected trees

APPLE, PLUM, PEAR, CHERRY, QUINCE, PEACH, APRICOT, SMALL FRUITS, GRAPE VINES, ORNA MENTAL TREES, SHRUBS, CLIMBING VINES, HER-BACEOUS PERENNIAL ROOTS, ETC.

Catalogues and prices on application.

E. D. SMITH & SON, Winona, Ont. NURSERYMAN,

Established 1856 Our handsome Spring Cata-logue now ready. A copy will be mailed free on request.





CREAM WANTED We supply cans. We pay all express charges. We remit daily. We guarantee highest market prices. For prompt service ship your cream to us. A card will bring you cans.

MUTUAL DAIRY AND CREAMERY COMPANY

743 KING STREET WEST



Deal with Farm and Dairy Advertisers

ample cars for the movement from that province, and while the price of potatoes has remained high in our consuming markets, this has been due to the strong demand in New York and Boston. The question may arise as to why shipments are going forward to these centers, but it is entirely a matter of transportation, the United States railway facilities being even poorer than our own, making it exceedingly 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 available

A good deal of attention was also A good deal of attention was also given to the question of setting a maximum price on potatoes. This was discussed from every possible angle. Delegations waited upon the Food Controller-on various occasions and the wholesale and retail trade were consulted. It was felt that for this vacar 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 speculation would not be allowed, and the result is that the farmers are obtaining by far the greater proportion of the price that the consumer is pay-

The grading of potatoes was also discussed and a strong recommenda tion 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 great demand for seed purposes in the United States. It is hoped that some action in regard to grades will be taken in the very near future

Cholera Controlled in Indiana

URING the investigation recently carried on in the United States by a committee from Canadian Swine Breeders' Association 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 litter again in the This works out in the neighborhood of three litters in two years per BOW

Joseph Beelar, a farmer who buys and feeds extensively, spoke favor-ably of the double treatment (serum and virus), and said 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 pigs are not immune when he brings them home, they are double treated and kept by themselves until danger from any "breaks" is past.

J. W. Brendel, a prominent breeder, endorsed the double treatment. stated that for a period of thirty years prior to the advent of the dou-ble treatment his loss would be as high as 30 per cent., but for the last six years his loss would not exceed per cent. "Everyone does one per cent. "Everyone does not vaccinate in this county," Mr. Bren-del said, "but the immune herds act as a buffer, checking the apread of the scourge and thus preventing heavy loss.

When breeding hogs can be rendered immune there is greater opportunity to raise the standard of quality, because the stock is not periodically destroyed. Another advantage in breeding is that when the veteri-narian visits the farm to inspect or treat hogs, he often points out neces-sary changes in sanitation and con-veniences that benefit the farmer and render the industry more profitable

for him.

The sentiment or belief in Boone county is that immunized hogs are not carriers of disease. At auction sales those who can make the state ment in their catalogues that the hogs to be sold are vaccinated. This helps rather than injures the sale, and many farmers with non-immune herds are buyers. Mr. Brendel himself did not vaccinate his young stock in 1917, and he considered that he lost \$15 per head at his fall sale, because he was not able to guarantee his 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 for sale, and sent them back to the country to be fed. They were all double treated, dipped and shipped in disinfected cars to farmers who would take them to finish. The loss in these double-treated hogs thus handled was less than one per cent., and this from all causes

Used on Iowana Farms.
In the State of Iowa the Iowana Farms were visited. Pure-bred Hol-stein cattle and Berkshire swine have developed to a remarkable rd of excellence at lowana. The herd of swine, about 500 standard 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 pigs any-where. In the neighborhood of 100 sows are farrowed each year, and an breeding stock sent out is guaranteed "cholera-immunized." They are shipped to practically all States of the Union, and no one has suffered. When asked for an expression of opinion regarding the double or simultaneous treatment, Col. French, the proprietor, made the following statement:
"Six years ago I instructed my man

ager that unless some protection against hog cholera could be found to cease breeding swine. After investigation at our State College and at Washington, we became convinced that the double treatment was trust worthy, and we inoculated \$40,000 worth of hogs with serum and virus. ease and none of our customers have suffered."

Conserving Fertility by Dairying AIRY farming takes but little from the soil. Wheat at \$1.00

per bushel, the normal price, is worth \$33.22 per ton, and it carries with it elements of fertility worth \$9.59 per ton. This value is calculated on a basis of 20c per pound nitrogen and 6c per pound potash. A ton of milk at \$1.50 per cwt. is worth \$30.00 per ton, and the elements of fertility are only worth \$3.66 per no calculate. are only worth \$2.56 per ton, calculated on the same basis, but the manure put back on the soil will more than offset the \$2.56. In the older parts of this country and in the older European countries where the land has become depleted in fertility by continued grain growing, the farmers who have en-gaged in dairying have brought farms

back to their former state of fertility This has been done not only by ap plying the manure on the soil, but al so by growing luxuriant fodder crops In Ontario and the Eastern States these crops comprise chiefly the clo-vers and corn. In some parts of Alberta these crops have not as yet been grown successfully. The one hope of profitable farming in the future in this country is in the growing of some kind or kinds of fodder crops, prefor the legumes, such as clovers and peas. These crops leave the soil in excellent shape for the smal grains to follow next season.—S. G. Carlyle, Supt. Alta. Demonstration

Dairymen may be assured of a mar-ket for all their dairy products be-cause of the world-wide shortage of dairy cattle.-Prof. H. H. Dean.

FA H. Percy

No O any States America, v prophetic e tant when only good a ity would a backs of t wool come fit for the s to beautiful of the ages title.

not admit ti rived. And ve its end told of the the reign of The Turks calendar fro from A.D.; a year 1335 wa testayon aw by the Britis the capture pause for the the hundred tions which and discovery

I remember farming" was remember wh merely n n thought was "Lime makes son." Thirty myself a grea plied Gillett's rees, and the Half a centur To-day the wh and ere long vide all its ow What is doin

a genius once discovered pe yourself by y vill believe y With only the plenish the far that while a f could never the manure of The whole atr vast fertilizer science sought nodule. legume unbuild Consider ther

for insect and to this the gam mowers, binders means least the were provided cles to help the Now comes the tidal waters car ally, we see the and at a price farmer's needs In the realm

that the people own. In North have ousted the soft easy chair. America and our cooperation ame and fruit produce monwealth withi ment of produce sumer comes to good is bound u eress of the pre lew and fairer b ontribution to t

FARMCHATS H. Percy Blanchard, Hants Co., N.S.

Novus Ords Seclorum

States, this later motto which appears on the Great Seal of America, would be plain. The words are taken from a famous Roman poet of two thousand years ago. In his prophetic eye appeared a day far distant when evil would cease; when only good and happiness and prosper only good and happiness and prosper ity would prevail; when even on the backs of the quiet sheep would the wool come red and blue and purple, fit for the spinner's hand to weave in. to beautiful raiment. A "new order of the ages" is the translation of our sting.

Looking back into history, we can-Looking sack into nistory, we can not admit that such a day has yet ar-rived. And yet every period must have its end. The Prophet Daniel was told of the biessedness of those who should come to the 1335th year; the reign of the Desolator should end. The Turks keep their Mohammedan calendar from the Hegira, as we do calendar from the Hegira, as we do from A.D.; and the end of the Hegira year 1335 was last November. When we dowtail this fact with the entry by the British into Palestine, and now the capture of Jerusalem, it gives us pause for thought.

Now, while there are year dates by the hundred that note these present day as momentous, there are condi-tions which in the line of invention and discovery tend to point to a new

era in agriculture. I remember the time when "book farming" was a thing to seeff at. I remember when lime was considered merely a ruinous stimulant; the thought was conched in the motto: "Lime makes a rich father but a poor son." Thirty years ago, I appraised mayself a great discoverer when I applied Gillett's Lye solution to apple trees, and cleaned off Ve bark-louse. Half a century ago, Nova Scotia abandoned wheat because of disease, To-day the wheat yield is increasing; and ere long this Province may provide all its own brend.

What is doing these things? When genius once announced that he had incovered perpetual metion: "Lift discovered perpetual metion: discovered perpetual medion: "Laft yourself by four houtstrape, and I will believe you"; was the reply. With only the manure product to re-plenish the farm, it seemed manifest that while a farm might deteriorate, that while a tarm inight deteriorate, it could never advance. Then came the commercial fertilizers to hoost the manure pile. That was not all. The whole atmosphere aloft was a vast fertilizer fountain. Despised science sought out the modest clover nodule, and so came the green logume upbulder. Consider then the various sprays

for insect and fungus enemies. Add to this the gang plews, disc harrows, mowers, binders, threshers, and by no means least the gasoline engine. Here hears reast he sasone counts. Here were provided a hundred from mus-cles to help the farmer's single arm. Now comes the Hydro-electric, and similar power wherever the river or tidal waters can be harnessed. Fin-ally, we see the little tractor of a size and at a price to meet the average

In the realm of politics we In the realm of nothing we can see that the people are coming to their own. In North Dakota the farmers have outside the politician from his soft easy chair. In the West of America and our own Canadian West, cooperation among the grain growers and feeting people of the property of the cooperation amang the grain growers and fruit producers is forming a commonwealth within the state, a partiament of groducers. When the consumer comes to realize that his heat good is bound up in the highest progress of the producer, the vamplines of civilization will begin to disappear. New and fairer kiews of taxation as a untribution to the community from entribution to the community from those who profit by the community,

is in the air, and some day will come, is in the air, and some may whi come, Gurely at the beginning of this ness year of 1938 we can look for which hope with hope and confidence, and feel with the poet of old, that "a new or-der of the agere" is dawning, to share forth unto a brighter and a bettur day.

Tractor Experience

Essa Co, Ont. "On this farm and the street of the street o have found use for a tractor, a 6-12 weighing 2600 pounds and costing \$885

coating \$385.

"We started to use this tractor for the Grat time last spring. It pulled three 12 hours plows on my farm, but the company does not recommend such a houry-draft. It will handle was nuriows anywhere. With the plowed 55 acres last spring, then went on with a big disk, and the harrows helm of the country of t how we would have gotten that 45 acres in crop without the tractor. At harvest time we hitched the tractor to an eight-foot binder and it did great work, cut the corners as nice as team could have done."

The Best Book

Dairy Farming

Perhaps You Have it in Your Library If so its title will be

"DAIRY FARMING," Eckles & Warren

After a close study of the great number of dairy publications that are warlable, our Book Department feels justified in recommending this book as the accommending the book is set to be supported by the property of the support of th

The book sells for \$1.50 and can be secured direct from our

BOOK DEPARTMENT FARM AND DAIRY ---

Peterboro, Ont.



SEED GRAINS

We can supply on short notice limited quantities of choice high quality field grains from the follow varieties when the follow varieties when the follow varieties when the follow varieties when the follow the following the fol reenings, Ground Screenings, sef and Bone Scrap, Poultry Grit, ester Shell, Alfalfa Meal, etc.

Good Luck" Brands of Poultry eeds and can supply any quantity. ry our Good Luck Baby Chick eed—It gives results. ong Distance 'phone—Day, Junc-tion 314; Night, Junction 4534.

CRAMPSEY & KELLY 778 DOVERCOURT RD., Toronto, Ont.

A FORTUNE IN POULTRY



Increase your egg Chaice Cock or Cockerel of our high record Rocks, Wyandottes, Leghorns or Reds. 1918 Mating List con-taining 65 photos of stock, buildings. Feed and tonic formulas

L. R. Guild, Box 76, Rockwood, Ont

Bred-to-Lay Leghorns

My breeding pen, as pullets, averaged 174 eggs, and this under general farm conditions. Oock birds are from trap-nested stock specially selected for winter egg production. List your orders now. Eggs for hatching, \$6 per 100; \$1.50 per setting of 15, at our station. Cash with order or C.O.D.

F. E. Ellis, Campbellville, Ont.

Egg Producing Hen Feed Green Ground Bones \$5.00 Per 100 Express order or Post Office Order GEORGE STEVENS

364 Mark Street, Peterborugh, Ont.

32 CENTS FOR CHICKENS 30 cents for large hens ALIVE Above prices paid by WALLER'S 713 Spadina Ave., Toronto, Ont. Write for Price List.





Letters to the Editor

E DITOR Farm and Dairy.—I am a farmer and I recognize that farm life and activities have not been holding the best of our blood on tire farms, with the result that the cities are profiting by our losses. The out of-door country life is healthy and best, both socially and economically. Does it not behoove us to see and appreciate this, to interest ourselves in rural activities and play life that our young people may not continue to seek con-tentment in the unhaslthy city? It some program of rural activities could be carried out, the country would advance in every way and more people would be seeking for country homes. Our leading men in the city were once boys on the farm. Could we retain them on the farm, the country would soon be on the ascendency.

City life is unnatural. It is enjoyed

City life is unnatural. It is enjoyed by people who do not understand the real natural way of living, and who prefer pleasure that comes in unnatural 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 peo-ple would not survive beyond the

third generation.

Rural communities in America have Rural communities in America have not done their best to make things interesting for the boy and girl on the farm. In ole England we found the country divided into small farms with small villages everywhere. The village green was the local play centre, and here the young folk gregated. This was livin; indeed, all because of a social centre. Here our young folk are expected to work too much, and if they were not thus en-gaged, they would have nothing else to take up their time. We must cooperate to make country life more attractive.—Leslie B. Metcalf, Brant Co., Ont.

On Dynamite

DITOR, Farm and Dairy.—Is this old world of ours sitting on top of a charge of dynamite? I sometimes think it is. I live away out in the country, supposedly away from the heart of things, but my reading of the daily press fills me with misgivings. There seems to be aspirit of law-lessness abroad, "hoodinism" some folks call it, but to me it is more serious than that.

Take the howling down of W. Bryan when he attempted to speak in Toronto a few days ago. Mr. Bryan came to Canada as the representative 25,000,000 United States prohibi tionists. In his own country he is still one of the greatest men in the public As he said himself, his loyalty is acceptable to the president and people of the United States. And yet we did not accord him the ordinary courtesis that are due to an invited guest. We allowed him to be howled down by a mob of hoodlums. This in itself is bad enough. When I picked up the papers the following day, I expected to find on the editorial page, at least expression of sincere regret for the disgraceful proceedings in Massey Hall. The expressions of regret were notable by their absence. The Mayor of Toronto, not only refused to accord Mr. Bryan a welcome to the city, but apparently thought lightly of the insult to the great American. Does it mean that lawlessness is winked at by those in authority and by the moulders of public opinion

This is not an isolated case. Meetings were broken up during the last election *campaign by Nationalists in Quebec and by returned soldiers in Vancouver; both equally lawless and both examples of mob rule. A more

recent example was the deputation of the labor interests to see the Premier in Toronto when on his refusal to grant their demand for stronger beer, he was glad to beat a retreat into the Parliament Buildings to save himself 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 widening chasm between labor and capital. In my earlier days I took much interest in socialism. Socialists years ago be-lieved that both laboring men and capitalists were the victims of an just system and they pictured an ideal system wherein all could live in peace. Socialism to-day seems to have de-generated into nothing more ennobling than class hatred. The Bolsheviki typifies socialism in action and I don't believe that Russian socialists are making a greater mess of it than would socialists in any other country. I can recall several times when the militia were called out in Canada to quell labor disturbances which had their birth in nothing else than this same class hatred.

I am not defending the capitalists. Their greed is responsible for many of our social disorders, but I think that this is a time over any other time for sane clear thought and balanced judg-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 I believe so. Certainly prophette scriptures are taking on a new develop ing in view of present day develop ments. At least, all thinking men must agree that in dealing with social ques tions nowadays, we are handling dynamite.—F. E. E., Halton Co., Ont.

Settling Soldiers on Land

DITOR Farm and Dairy: Some time ago I read with interest your article in Farm and Dairy, describing the new settlement which is being prepared for returned soldiers 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 start towards a solution of the real problem which will present itself when 500,000 men come back to Canada: Of this vast army of returned troops, surely there will be quite a percentage who will desire to go back to the land. It would take years to prepare homes for them all in a bush country. But why should it be necessary? Out here in the West we have millions of acres of the most fertile land, all ready for the plow

Since I have come West I have trav elled considerably. I have had the experience of getting off at a railroad tation with vacant land lying in every direction and settlers few and far tween. Ten miles back from the rail-road, I would find the country fairly well populated. These people had not 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 railroads and trust companies as well as private speculators. Here I should say is the proper home for those of our returned boys who prefer

Will we buy this 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 these speculators would prepare for a rich harvest at the expense of the Can-adian public. Lending money to set-tlers at a low rate of interest to buy land for themselves would have the same tendency. Just in proportion

Every Sheet is true and even

corrugated POI

"MPIRE" Oorrugated Iron is made with deep corrugations fitting closely and snuply; it makes a splendid, strong, right wall that a splendid, strong, right wall that he will be supported by the splendid strong right with Metal gives you fire-proof, weather-proof and lightning-proof buildings. Our "Metalle" building materials. but more than other building materials. but the support of the splendid strong that the support of the splendid strong that the support of the su

Metallic Roofing Co. Limited Terosto - Winnipeg

IF YOU DON'T FIND IT, WRITE US

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

ADVERTISING DEPT. FARM & DAIRY, PETERBORO, ONT.

CURDALAC AND **SPONGY PEPSIN**

(STANDARDIZED)

The First and Original Peptic Coagu-

lants.
Not an experiment.
Time-tried and a demonstrated suc-

START-O-LAC

(LACTIC-ACID CULTURE)

A pure culture of selected and tested lactic-acid-producing bacteria for ripen-ing milk and cream, and improving the quality and flavor of cheese, cot-tage cheese, butter and butternilk.

GERMTOX

(NOT A POISON)

A scientifically prepared Germicide, Disinfectant and Deodorant. The ideal sterilizer for all dairy

The above products are sold by all dealers in dairy supplies.

Write to us for descriptive booklets and any

PARKE, DAVIS & CO.

WALKERVILLE, ONT. MONTREAL OUE.

the int land w The have t the rev source the ind land wi killing tax will. form of would those v tem the proud t principle was par United I organiza ciple. K Saskatch

Th E bee bee come to am not a of the te maker, de side. Am a brood s pig or the balan nearly all let me tel ent prices worth of f from the returns.

But this speak of. an article 21st, by H. Co., N.S., same thou have passe week or to plement bi am a Cana like to do in the presour Mother the Channe my own contained in

I have a I killed son use. I also the pen to to use what spare. I ha my friends r ingly try and already in t and sell the see that the need them they reached further, and pigs until th pork each an try if they w who need the would continu lbs. of dresse terms, so lon if it is going 15 or 20 cts. a cure it mysel

won't cost 25 To Elimi Like Mr. Bl

at a loss to my country al full benefit fro pigs and sell ti is a very poor the interest was low, the price of the land would be high.

The solution I layer is to tax vacant I had into use. After the war we will have tremendous these taxes are placed as to hear. If these taxes are placed in the state that the state are placed in the state that the state that the state that the source that will bear least on the industry and at the same timby on the industry and at the same timby on the industry and at the same timby on the source that will bear least a same timber and the sam

The Pork in the Barrel

been a subseriber to your pabeen a subseriber to your paper for a few years, and have
come to think a good deal of it. I
am not a fermer in the proper sense
of the term
of the term in the proper sense
of the term
of the term in the proper sense
dide. Among a little farming on the
side. Among a little farming on the
side. Among a little farming on the
side. Among a little farming on the
paide. The side of the side of the side of the
paid of the side of the side of the side of the
a pig or two years, keeping
the bakance when wend, and by-the-way,
let me tell some of the farmers that
say there is no monney in pigs at present prices that last year, from \$85
worth of feed, bought at retail prices
from the feed stores, I received \$185
from the feed stores, I received \$185

But this is not what I intended to speak of. I have just been reading an article in over paper of February 21st, by H. per Danchard, of Hants Co., N.S., and a grantained the same thoughts and point and the same thoughts and point and the same thoughts and point a few lines to be temptation to write a few lines to be temptation to write a few lines to be leaded in a strictle and argument. I plement his article and argument. I am. a 'Canadian of English parents, and like many other Canadians, would like to do all I can for our Empire in the present crisis, especially for our Motherland and her allies over the Channel. But I must come down to the channel. But I must come down on one case and to the thought.

have a pig in the barrel which I killed some time ago for my own use. I also have two young ones in the pen to kill this spring, intending to use what I require during the sum mer and self what I may have to spare. I have remarked to some of my friends recently that I would with ingly try and get along with the pork already in the barrel until next fall. and sell the other two pigs if I could see that they would reach those who need them most, and especially they reached them at cost. I will they reached them at cost. I will go further, and say that I will feed those pigs until they will dress 200 lbs. of pork each and give them to my cointry if they will. they will inaugurate a system by which they will be carried to those who need them most, at cost, and i would continue to supply at least 800 lbs. of dressed meat a year on these terms, so long as the war lasts, and if it is going to cost the Government 15 or 20 cts. a pound to cure it, I will cure it myself, without charge, for it won't cost 25 ets. a cwt.

To Eliminate Middle Profits.

Like Mr. Blanchard, however, I am at at loss to know how I can resist my country along any line of production so that those who need it will get full benefit from my efforts. To raise pigs and sell them at 18 cents a pound to a very pour way of helping some to a very pour way of helping some

poor family, who may be on the verge of starvation in the old country or in Belgium or in France, country or in Belgium or in France, could there got it at each of the country of the cou

Let the Food Controller conscript the packing houses and systems and make them handle and pack the meats at a price in keeping with that received by our men at the front for what they endure, and even the risk of their life, and it will not amount of their life, and it will not amount of the market of the risk of the

In Defence of "Manyers"

BOFFOR, Farm and Dairy.—In Farm and Dairy of Peb. 21st, I notice some Floid Notes written by Mac." in which Notes written by Mac." in which Notes as being a part of the refer to Maners as being a part of the new form of Maners as being a part of the Notes and the Notes of Maners as being a part of the Notes of Maners as being a part of the Notes of Maners and Notes of Maners of Maners and Notes of Maners of Maner

"Mac" says he called on Mr. Rogers of Manvers, who bought a farm here some three years ago. Now I wish to say that Mr. Rogers' neighbors are not sorprised 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 man 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 say the least, misleading. For years there have been good fields of clover in the district and many farmers have made much from their clover seed, to say nothing of an abundance of hay.

The majority of farmers till their soil according to modern methods and if "Mac" whishes to taste some really first-class potatons, come to Manvers. And when he next writes notes of this district, let us hope he will give us what all Britishers love, and that is justice.—"A Manvers Reader."

[Note: Farm and Dairy wishes to absolve Mr. Rogers from any responsibility for the "Notes" in question. They were written by one of our staff after a visit to the township in question.—The Editors.]



THERE IS ONE BOOK

That we would like to sell in the house of every dairy farmer in Canada. It covers every subject in dairying, from growing the feed—to
testing your herd. The price of the book could be saved in two weeks'
time from the economical feeding methods outlined in it. "Daller
FARMING," by Eckles & Warren, tells how to balance the feed—what
feeds to buy when price are high—the cheapest feeds to grow your own farm—and secore of other subjects. It is a very readable
book for the practical farmer. Well bound in linen.

Price is but \$1.50.

Book Dept.

FARM & DAIRY

Peterboro, Ont.



APICULTURE

S UGAR is an important war food, its price is high and there will probably be a shortage in the near future. Honey is being affected in sympathy. The crop of honey produced in Ontario, Quebec and Manitoba in 1917 was sold quickly at prices and present indications point to a still greater demand and higher prices for the new crop. Thus, by producing as greater demand and higher prices for the new crop. Thus, by producing as much honer as possible this year the beekeepers of Canada will not only increase, their returns but will be helping the Empire. These remarks refer to extracted honey. An increas-ed demand for comb honey cannot be predicted. predicted.

The appeal for greater production is especially to those who are neglecting their bees or are not managing them in the best manner. There are many apiaries in good locations for profitable honey production, more par-ticularly in Eastern Canada, where

colonies in box hives or in seidom-opened frame hives, now producing from 20 to 40 pounds of honey each could be made to produce 80 to 100 pounds or more in an average season If time cannot be spared to give the bees the attention they nod, they might be handed to a member of the family who would take an interest in them, or they might be sold to a pro fessional beekeeper. But well man-aged bees often pay as well as, or better than, one's regular occupation for the amount of time spent with

apiary practices are briefly described in "Bees and How to Keep Them" (Experimental Farms Bulletin No. 26, Second Series), which may be obtained free on application from the Publication Branch of the Department of Agriculture, Ottawa. A good way to become acquainted with the better methods of beekeeping is to arrange to attend one of the apiary demonstrations that will be held early in the summer, under the auspices of several of the Provincial Beekeepers' Associ-ations. A list of the Beekeepers' Associations with the addresses of the

Secretaries is given in the above-mea-

The principal problem of the expert aplarist will be how to increase the number of bees to the fullest extent in time for the honey flow, so as to make the most of his valuable knowledge of bee management. The early important. Judicious feeding during the dearth that in many places immediately precedes the honey flow will belp under some conditions. By dividing strong colonies not less than six weeks before the middle of the main houey flow an increased crop of honey will be obtained, provided fertile queem are on hand to be given to important. Judicious feeding during the queenless part. These queens may be procured from breeders in the Southern States at from 80 cents \$1.00 each. This procedure is chiefly applicable to the fireweed and goldenrod districts; as a rule the clover honey flow comes too early for it. Two-pound packages of bees with untested pound packages of bees with untestee fertile queens obtained from the south by express in May or early June cost-ing about \$4.00 each, including trans-portation charges, will be found a pay-ing investment, if they arrive in good

condition and can be placed on combs.

There should be a sufficient supply

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 suppers may be fastened together to make one deep super-for extracted honey production. Particulars of an attractive container for honey that has been detected to record a possible difficulty to signed to meet a possible difficulty in obtaining sufficient tin pails or glass ordaning cancelled in part of gases and be supplied on application to the Aplarist, Central Experimental Farm, Ottawa. Beeswax is very scarce and all discarded combs and scraps of wax should be saved to be turned into foundation. It will be turned into foundation. It will be turned into foundation. 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 autumn.

Conditions in P.E.I.

AIRYING in this section is not as good at the present time as it was some 15 or 20 years ago. At that, time our cheese factory was in a flourishing condition, but it was allowed to dwindle away for the want of milk. Then everybody bought a hand separator and manufactured but-ter at home, the result being that it is not all of the same quality and a great deal of the butter is sold in the summer months for a very low figure. Since the egg circles started on the Island, the poultry industry has gone ahead to a great extent. The egg yield and crate fattened chickens have increased almost double.—Geo Annear, Kings Co., P.E.I.

Big Roots Preferred

E were standing behind Were standing behind the Baggs' exhibit of Jerseya at the Guelph Winter Fair. Our conversation drifted from one' subject to another until finally we were ject to another until manily we were discussing the growing of roots, "We like to grow big roots," remarked one of the Baggs boys. "We grow ours two feet apart in the drill and the drills three feet apart. Some of our best roots have been grown following potatoes. We have manured fairly heavily in the fall and then rowed up In the spring we harrow down the nows and drill in the seed on the firm seed bed where the row had been.
Varieties? We used to grow white sugar mangels, but lately we have gone over to the Leviathian sugar beet and the Giant sugar mangel."

One Litter of Pigs

By "A Halton County Farmer."

N April 29th, 1917, my sow far-O rowed a litter of 10 pigs. The following is an account of the meal fed and the selling price. The hogs were fed some mangels, the weight of which I am unable to give. They also received a quantity of skim milk twice a day. The feed bill 4,495 lbs. miked chop at \$2.00 per

500 lbs, shorts at \$2.25 per cwt. 200 lbs. shorts at \$2.40 per cwt. Making a total cost for feed \$128.26. On October 31st, 1917, I sold nine of the hogs at \$15.50 per cwt. They weighed 1,780 lbs. The other hog was killed for home use on Nov. 15th, 1917, and dressed 170 hs. Dressed pork was selling at \$24 a cwt. Thus the total receipts were \$316.79, leaving a profit over cost of grain of \$188.34. Taking mangels, skim milk and labor into consideration, I consider there would be about \$100 net

I look in the next five or 10 years for a marked development in milking by machinery. The machines have been developed to such a point that men with 20 to 25 cows or more should have them .-- Prof. H. H. Dean

W HEN ting up th In answer amount re We do no ice as we small gaso for pumpin used by th the milk co enough to has been co in fact. qu

quired is f Sunday. T

Sunday. T

and during

every saving

FIE

What can of land and after a large was the que by Mr. Geo. talked to me selling his p said: "We ha this herd to cows to milk or so we have farther behin Formerly we regularly, but and I are also coming summ done and hav get out our kept our mile mer we would would have to

give our farm we must be milking our of give us a chan our farm work able to get he produce as mu in the past." that is facing

"At Hon It is a comm be a success have been bo close touch w that he is han this is of great ed Mr. Harry about his work bred Holsteins farm recently, sion that after lute necessity. four years ago thing to do wi In fact, h of ever living o

which he goes a in the show ring he must have al of the instinct o has made a won experience at fa

While calling

kin, of Cobourdrifted to the su of which crop Menthusiast. Two 15 acres and was the result that I his acreage to 48 intends to plow and to seed dow rough land whice able to satisfacto

S UGAR is an important war food, its price is high and that An Opportunity for Beekeepers The different operations in modern

BOBLONG Union-Made **Overalls** Shirts & Gloves THE TEST 68 lbs. to the square inch under hydraulic pressure is the test that "Bob Long" overalls have been put to. Their strength is in the tightly woven fabric. Bot Long says: "My overalls and shirts are the best, because— they stand the test of the wash tub—no starch filler or cheap dyes to wash out." Insist on "Bob Long" brand. Ask your dealer for Big 11—the big grey overalls—the cloth with My Dad wears 'em Known from Goast to Goast
R.G.LONG & CO.LIMITED TORONTO, CANADA

FIELD NOTES

W HEN I dropped in recently to see Jas. G. Currie & Son, the noted Holstein breeders of Ingersoll, I found them engaged in put-ting up their season's supply of ice. In answer to my enquiry as to the amount required, Mr. Currie said: an answer to my enquiry as to the way me and many me and m enough to keep the milk cool once it has been cooled by the running water. In fact, quite often the only fee required is for holding the milk over Sunday. This arrangement saves a lot of hard work in putting away fee, and during this shortage of labor every saving of time counts."

Cows or Crops.

Cowe or Cropa.

What can two men do on 320 acres of land and at the same time look after a large herd of sows? Such was the query which was own? Such was the query which was own talked to me regarding his reasons for talked to me regarding his present with constant with the said: "We have spent years in getting this herd together and will be completely lost for the next year with no cover to milk, but we have no choice owns to milk, but we have no choice in the matter. During the past year in owe has "been getting farther and to we have been getting farther and one has been getting farther and the promoter of the promo farther behind with our farm work. Formerly we kept three or four men regularly, but at present my brother and i are alone. We are facing the coming summer with no fall plowing done and have as yet been unable to get out our supply of wood. If we kept our milch cows the coming sumkepi our milch cows the coming sunner we would 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 attention we must be relieved of the work of withing no cows.

wilking our cows. A year's relief from attending to a dairy herd will give us a chance to get caught up with give us a chance to get caught up with our farm work, if by that time we are able to get help, we can go ahead and produce as much milk as we have done in the past." This is the situation that is facing a great many of our dairymen this winter.

"At Home" Among Stock.

It is a common idea that a man to be a success among live stock must have been born and brought up in close touch with the class of stock that he is handling. While no doubt this is of great value, yet as I watched Mr. Harry Balley, of Parls, going about his work attending to the pure bred Holsteins while I visited their farm recently, I came to the conclusion that after all it was not an absorb that after all it was not an absorb that great and the state of the conclusion that ster all it was not an absorb that great age of the state of the sta It is a common idea that a man to

of ever living on a farm.

Judging by the familiarity with
which he goes about his work and the
reputation his herd has achieved, both
in the show ring and in official testing. he must have always had considerable of the instinct of the stockman or else has made a wonderful use of his short experience at farm life.

Sweet Clover,

While calling on Mr. Bertram Hos-kin, of Cobourg, our conversation drifted to the subject of sweet clover, or enthusiast. Two years ago he sowed 15 acres and was so well pleased with the result that last year he increased his acreage to 48 acres. Next year he listends to plow up his first 15 acres listends to plow up his first 15 acres and to seed down a 50-acre piece of rough land which he has not been rough land which he has not been able to satisfactorily work into his re-While calling on Mr. Bertram Hostation. This he will count on having for pasture, trusting that it will reseed itself year after year.

On the first piece he sowed he used 20 lbs. of seed frager. The second vas sowed on flat, well land, 12 lbs. per acre, and seeded with buckwheat as a care, and seeded with buckwheat as a care, and settled with buckwheat have that the buckwheat would choke it, that the buckwheat would choke it, and the such white and but and the seed to the seed to be seed t

OOFING

BIRD & SON

TAND ON EN

Look for the roll with the Paroid label.

to it, prefer it to any other feed he gives them. In fact, they will eat the sweet clover straw after it has been threshed and which he usually uses threshed and which he usually uses for bedding. He is contemplating the building of another silo for the use of sweet clover and thinks that with the liberal use of sweet clover for pasture, ibberal use of sweet clover for pasture, ensilage and a certain amount for hay, much of the expense at present incurred in the buying. Of the component was a component of the c has such a large percentage of clover

I was talking recently with a breeder of pure bred stock who has with a been enjoying a most unique success with his favored breed. In answer to with his favor a large single success with his favor a large success. In answer to my enquiry as to how he got started, he told me as follows: 'I was not always a breeder. I large it was not always a breeder with the appearance was not always and an a traction and the ring that the calf that came into the ring that the calf that came into the ring that the calf that came into the ring that put on a bid. This led to another bid and in a few minutes I found myself its owner. This became the nucleus of my herd. I began to study up pedigrees and bought a few more and fixed up a barn to put them in." That man to-day has one of the best herds of his favorite breed and has a knowledge of pedigrees which is simply wonderful.

NEPONSET

"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

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 Shingles for all residences.

BIRD & SON Head Office, Hamilton, Ont. WAREHOUSES: Montreal, Toronto, Winnipeg, Calgary, Edmonton, St. John

The Largest Manufacturers of Roofings, Wall Boards and Roofing Felts in Canada

Kural Some

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

47

Ello a year. For all countries, except Canad Britain, Draw Britain, and 50e for postage. except Canada and provided by the countries, except Canada and mich an insertion ARTS, 12 conts a time stat fills an inch an insertion ARTS, 12 conts a time stat fills as before. Copy received up to Saturday praceding the Britain with the countries of the countries of the Britain Canada and Britain Canada Canad

Office—Hunter and Water Streets.
Office—37 McCaul Street.
United States Representatives:
Stockwell's Special Agency.

Chicago Office—People's Gas Building. CIRCULATION STATEMENT.

The pull subscriptions to Farm and Darry approximate 20,000. The Samm and Darry approximate 20,000. The Samm and Darry approximate copies of the paper sent to subscribers, who are but already to the paper sent to subscribers, who are but already to the paper sent to subscribers, who are but already to the paper sent to subscribers are accepted at less than the copies. No subscriptions are accepted at less than the paper subscription are accepted at less than the paper subscription of the paper showing its distribution by counties and provinces, will be mailed if on request.

OUR GUARANTEE.

We guarantee that every subvertiser in this issue is reliable. We are able to do this because the advertising columns of Parm and Dally are as carefully edited as columns of Parm and Dally are as carefully edited as the standing columns, and because to protect our reading, columns, and because to protect our reading, columns, and because to protect our reading, columns, and because to protect our reading columns, and because to protect our reading columns, and reading and experience of the standing of the

The Rural Publishing Company, Ltd PETERBORO AND TORONTO

"Read not to contradict and to confute, nor to believe and take for granted, but to weigh and consider."-

Duty Free Implements

N a letter addressed to the Canadian press, Roderick McKenzie, Secretary of the Canadian Council of Agriculture, makes a logical and forceful appeal for the removal of the customs duty on farm implements imported into Canada. The following is a paragraph from his letter:

"Deprived largely of man power, the best substitute farmers can secure is an ample supply of mod ern machinery. The Federal Government recognized this fact and to help meet the case, removed cus The Federal Government recognized tom duties off tractor engines for a year, thus placing this help within the reach of many farmers also entered into arrangements to supply large number of farmers with tractor engines at cost. Of course, there is no misunderstanding the Government's intention in this regard. They want to supply tractor engines at a price that a large number of the farmers can afford to pay and operate profit If it is a good thing to remove duty off tractor engines as a war measure, to encourage pro duction, which only affects a comparatively few farmers—how much better service could we render Empire and Canada if the Government would remove duty on all farm implements, as a war measure."

And why not? As Mr. McKenzie well says, of the 200,000 farmers in the prairie provinces, not more than 50,000 of them could purchase and operate tractors if they would. Only a fraction of this 50,000 will consider the investment desirable. The proportion of prospective tractor owners in the other provinces is even smaller. All farmers, however, require the latest improved implements, and if remitting the duty on tractors was necessary to facilitate production, then the removal of the duty on implements follows in logical sequence as even a greater necessity.

And how will the manufacturers view such a move? Naturally they will not willingly give up privileges that, through long enjoyment, they have come to regard as vested rights? At the same time we are confident that if the duty were removed on all the raw materials used by manufacturers, our implement makers could hold their own in competition with imported goods. Only last week one Ontario

manufacturer of cultivating machinery professed 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 necessity.

A Dominion Dairy Council

T the convention of the Dairymen's Association of Western Ontario in January, W. A. McKay, of Nova Scotia, expressed regret that steps had not been taken at Ontario conventions this year looking toward the formation of a Dominion-wide dairy organization. The recent dairymen's convention in Alberta darried the project a little further; by a formal resolution, the convention expressed itself as favorable to a Dominion-wide organization of the dairy interests, and at a special session, attended by representatives of dairying in the three prairie provinces, initial steps were taken looking towards the formation of an association to be known as "The National Dairy Council of Canada"

In the meantime, Eastern Canada is preparing to look after her end of the organization work. Prof. H. H. Dean has announced a meeting to be held at Guelph, in the first week of April, at which all departments of the dairy industry will be represented. A compact Octario organization will then be formed, and this Prof. Dean regards as an initial step toward complete organization in each province out of which will grow a national organization Whether or not these movements result in definite

action, the need of a national dairy council that would unify the efforts of the dairy industry to receive the recognition due it, must be self evident. At present Canadian dairymen are not represented by any national organization. Even the present provincial associations are representative of only a section of the industry. The ideal dairy council, we believe, whether provincial or national, is the one that has represented in it the producers of dairy products, the manufacturers of dairy products, the manufactur ers of dairy equipment and at least a part of the distributors, the middlemen, if you please. In all of the larger issues that confront the industry, and to cope with which such organization is necessary, the interests of all connected with the industry are identical. Such issues are the fight against oleomargarine, and the advertising of dairy products. We trust that at the meeting at Guelph, at least some thing will be accompished toward a union of these interests in Ontario with the bigger objective, the national council, always kept in view.

> The Threshing Gang R. G. C. Creelman, is, we believe, respe

the suggestion that threshing gangs be organized to look after threshing in the Province of Ontario 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 size of the gang and the feeding of them, there is a division of opinion. One suggestion is that the thresher carry only a mow gang of four or five men and the farmer himself, with the help of his neighbors, will take care of the grain and the straw; or the thresher might carry a full gang and the farmer look after the grain only. Some suggest that the thresher feed his own men, while others believe that the farmer should provide the meals

The threshing gang plan has one great advantage that will appeal to all farmers, having only their own 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 half, or perhaps two weeks, returning threshing help. The saving of this time would result in a much greater acreage being prepared for crops the following .eason. The thresher would reap an advantage in that having all of the farms in one district, he would move directly from one farm to another, with a minimum loss of time.

A probable disadvantage of the gang method of threshing would be the cost. It is estimated that

where a mow gang only is carried, the cost to the farmer would amount to five or six cents per bushel of grain threshed. This would mean from \$50 to \$70 a day, which is a great deal more money than farmers are accustomed to expend in direct cash outlays for tac'r threshing. The threshermen themselves might object to being so organized. The Depart ment, however, has asked for an expression of opinion from the farmers of Ontario, and Farm and Dairy would welcome the opinions of Our Folks, particularly of those who have had experience with the threshing gang method.

The United Grain Growers, Ltd.

HE greatest monument to the hardy men and women who settled the Western prairies of Canada, is the country itself, "a nation built in a day." The most wonderful evidence of their business sagacity and courage is the United Grain Growers', Limited, the greatest business concern 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 and the Alberta Farmers' Cooperative Elevator Company, the two companies 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 profits of the Grain Growers' Grain Company for the year ending Aug. 31st, 1917, were \$607,899.18, and of the Alberta Company, \$236,502.76, a total for the two companies of \$844,401.94. With the economics of operation possible by the amalgamation of the two companies, and the extensions planned, much more business will be handled next year, and the profits should be proportionately greater.

We sometimes think that we Canadian farmers do not sufficiently appreciate the magnitude of this work which the grain growers have accomplished. But men outside of Canada fully appreciate it. Agricultural publications in the United States are con stantly holding up the grain growers' organizations to their people as examples of what cooperation at its best can accomplish. 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 recognized as the world's most success-

But the directors of the 'nited Grain Growers'. Limited, and the various other associations of farmers on the prairies, are not ravisfied. They believe that they can almost double their business and their membership. If this can be done on the prairies, what is not possible in Ontario, with a greater and a wealthier farm population to work in than any other two provinces of Canada combined? The future possibilities of the United Farmers of Ontario and the United Farmers' Cooperative Company, Limited, shou'd be sufficient to inspire the humblest member of a local branch, and seize the imagination of its ablest leaders. Whether the possibilities of the Ontario movement are realized or not, depends most largely on the cooperative spirit displayed by Ontario farmers.

Leave for Farmers

RICE-JONES, the Agricultural Representative on the Leave of Absence Boards, states that in view of the vital importance of increased production during the coming summer every farmer or farm laborer who is in uniform 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 duty. as, while the need of men is great, Canada recognises that at present the need of increased production on the prairies is greater. He further states that a number of farmers and farm laborers have left with the last draft, when in the national interest they should have secured leave of absence to work on the farms during the coming summer.

Getting 7 N Ontario the deve movement United Farm United Farm pany, that we our province country aside which the making heady The fact is United State realized the working toget organizations organization in

March 14.

Farm and Da found that along some further progre Canada. listened to an now Governor told how, duri and to the selected him State and a mi of the Legisla the State have form which t In the State ers have organi

Nebraska Farn has been doing farmers on the have the same ation to contend Ontanio. This dress entitled Organizations P Sturgess, Century Farmer meeting of the Congress. The report of Mr. taken from the Farmer.

Causes That organize sociations som to arouse interes exaggerate cond sertion of Mr. speech telling organizations fa ing causes are t complish results, leadership and pendence of farm danger in loyalty of membe

Mr. Sturgess organizers for the lose sight of the their enthusiasm ditions worse th Another evil affect and claims for through organiza interest after the time for more so when immediate Time is essential desired results in

Leadership is farmers' organiza ary business firm to represent and dependence and t ing on of their b ration makes t he does not need bis neighbors, and cept that assistance Experience a f

Experience a parmers' organis bark in a busines them and for that experience may drawback unless obtained. Mr. S obtained. Mr. 8 against the employ from among men

In Union There is Strength

Getting Together in the U.S.

N Ontario we are so interested in the development of our farmers' the development of our farmers' movement as represented in the United Farmers of Outario and united Farmers' Cooperative Company, that we are prone to think that our province is the only section of country aside from Western Canada, in which the farmers' movement is making habitables.

making headway.

The fact is that the farmers of the United States for sometime have realized the necessity of farmers working together and they have been successful 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 some lines they have made further progress than we have in canada. For instance, Canada. For instance, Canada. For instance, and the construction of the further progress than we have in

In the State of Nebraska the farmers have organized what is called The Nebraska Farmers' Congress, which Neorasca Farmers congress, which has been doing a valuable work. The farmers on the other side of the line have the same difficulties of organization to contend with that we have in Ontario. This is shown by an ad-dress entitled "Why Some Farm Organizations Pail," delivered by T. F. Sturgess, editor of the 30th Century Farmer, at the recent annual meeting of the Nebrassas Farmers'. Congress. The following is from a report of Mr. Sturgess' address as taken from the report of the ccu-vention published in the Nebrass a Farmer. ation to contend with that we have in

Causes of Faiture. That organizers of farmers' as-sociations sometimes forget the human element in their efforts to arouse interest among farmers and exaggerate conditions was the assertion of Mr. T. F. Sturgess in a speech telling why some farmers organizations fail. Other contributing causes are the lack of appreciation of the time required to ac complish results, the lack of good leadership and experience, the inde-pendence of farmers, too broad an obdanger in numbers, loyalty of members.

loyalty of members.

Mr. Sturgess suggested that the organizers for the farmers sometimes lose sight of the human element in their enthusiasm and picture comditions worse than they really are.
Another evil effect of over-enthuriasm and claims for immediate relief through organization is the loss of interest after the members have had time for interest after the measurement, and time for more sober judgment, and when immediate relief fails to come. Time is essential to bring about the desired results in any business. Leadership is more important in

dowind results in any husiness. Leadership is more important in farmers' organizations than in ordinary business firms, Mr. Sturgess believes, for there are more members to represent and elements to meet. The tendency of farmers toward independence and the successful carry-dependence and the successful carry-dependence and the successful carry-dependence of the properties of the properti cept that assistance.

Experience a Needed Element. Experience a Needed Element.
Parmers' organizations neurally embark in a business that is now to
them and for that reason he lack of
experience may prove a sarlous
frawback unless good managers are
obtained. Mr. Sturgess cautioned
against the employment of managers
from among members. That may

mean an inexperienced may which the members must pay which the members must pay, and it also creates desasterated no occause many will want the goestion. The best method is to his goestion to the company will want the goestion to the company of the compa

Relative to the attempt of farmers' rganizations to cover field, Mr. Sturgess pointed out that all business nowadays tends toward specialization, because more can be accomplished within a limited field. Too many irons in the are may mear disaster Numbers also spell weak ness until the members learn the sentials of cooperation. One of the greatest dangers besetting the Farmers' Union is that they have many enterprises which have failed because they were not needed, or be-cause the members did not know the principles of cooperation or lacked

Mr danger of playing upon the prejudices can ger of playing upon the prejudices of the people and portraying conditions too strongly. Some middlemen are necessary, said he. Distribution is not a neighborhood affair, but one of nation-wide and world-wide significance.

Mr. Carl Slatt differed with Mr. Sturgess on the efficacy of methods used by some organizers. He said that to arouse some farmers a radical that to arouse some tarmers a resican man is necessary. He also contended that farmers' organizations have not been failures, even though some have met with an early death. Individual-ism and independence are responsible for most of the failures, he sa'u. He haltewal that the elimination of isolsbelieved that the elimination of isolation through modern conveniences will help to avert these conditions.

Mr. Slatt deplored the menaces to farmers' organizations from without.
The local and other press have tried to create dissatisfaction in the ranks, he said. There also have been in sinuations that officials are working situations that officials are working for their own gain. Mr. Slatt ad-mitted that personal friendship in-cread of business qualifications often is the basis of employment by farm-

City Milk Supply

To Cut Out Middlemen

was agreed at the annual m of the Fraser Valley Milk Producers' Association, held in New Westminater recently, that the wastage that existed between the producer that existed between the producer and the consumer of mill in the city of Vancouver, was too great or man to the large profits made by the large profits made by the large profits made by an and it was decided that a general meeting of all shareholders would be held at which a definite scheme would be presented for putting the producers' association in full control of the delivery system as well. It trol of the delivery system as well. It is hoped that the consumer will get cheaper milk and that the producer will get more money. An ambitious undertaking!

The financial statement of the as sociation showed it possible to pay six per cent, dividends, equivalent to \$36,000 divided among 848 members, and a nice surplus besides for running the business. Mr. J. W. Berry announced that steps had been taken looking toward the purchase of the Chillwack and Sardis creameries, payments to be made with stock of payment to be made with stock of the Milk Producers' Association. Mr. E. D. Barrow, M.L.A., expressed the opinion that the association supplied more milk than any other similar association upon the continent.

Save Butter-Fat, Time and Labor for Yourself and for the Empire with a

CREAM SEPARATOR

Butter-fat right now is selling at the highest price in many years, and you can't afford to waste an ounce Save for Yourself of it

Whether you are trying to get along without any cream separator or using an inferior or half-worn-out machine, you are losing valuable hatterfat that would soon pay for a New De Laval.

The De Laval is not only a cream saver but a time and labor saver, and with the present shortage of farm help every farmer needs to utilize time and labor saving machinery wherever it is

Save for

It is the patriotic duty of every cow owner to save the Empire butter fat: We are a nation at war, and not a particle of fat should be wasted. When all European countries are encouraging the use of the best cream separator, can we do less?

Buy Your De Railway delays are so serious that del'veries

Railway delays are so serious that del'veries can't be depended upon, and if you don't order your De Laval early there is no telling when you can get it. Then, too, labor and material conditions may compel higher prices. The sooner you get a De Laval eaving butterfat and labor for yourself and the Empire, the sooner it will have fee itself. 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 New De Laval at once. We have an arrangement with De Laval agents which the spare of the spare of the partial payment plan—a small payment plan—a sma

the benefit from it.

Why not see the nearest De Laval agent at once? if you do not know him, write to the nearest office for new catalogue or any desired information.

THE DE LAVAL COMPANY, Ltd.

LARGEST MANUFACTURERS OF DAIRY SUPPLIES IN CANADA. Sole manufacturers in Canada of the famous De Lavel Cream Separ-ators and ideal Green Feed Silos. Alpha Gas Engines, Alpha Churns and Butterworkers. Cata-logues of any of our lines mailed upon request.

PETERBORO WINNIPEG VANCOUVER 50,000 BRANCHES AND LOCAL AGENCIES THE WORLD OVER

Willitbea Dry Season?

You don't know—nobody knows. But if you take the precaution of proper tilling you will have as little to fear from insufficient moisture as 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 results. All depth and thoroughly work up every Every tooth reinforced, each section of heavy steel. See this splendid implement before investing All teeth cultivate to the same

The Peter Hamilton Company, Ltd.



When Writing Mention Farm and Dairy

THE praises of others may be of use in teaching us, not what we are, but what we ought to be .- Haie.

The Heart of the Desert

appeared.

A hand was laid on her arm and Rhoda knew that Molly and Cesca

were guarding her. Almost immed-lately the soft thud of hoofs was upon

them. Kut-le seized Rhoda and tossed

her to a pony's back.
"It was dead easy!" he whispered.

"They were all asleep! I even took a saddle for you! Now hike!"

a saddle for you: Now like: Rhoda gripped her pony with her knees as the little fellow cantered un-erringly through the darkness after

exultation in the security she had de-

veloped in the saddle during the travail of her night rides. She knew

that no man of her acquaintance could

ride a horse as she could now. 'And with the exultation she was trembling

of them could expect mercy if the Navajos discovered their loss in time

to take up the chase. All the eagerness of the gambler swho stakes his life on a throw of the dice; all the wild thrill of the chase; all the trem-

bling of the panting, woodland things

ed across their trail on sweeping wing. When they made camp at dawn Rhoda tumbled into her blanket and was asleep before Alchise finished

excitement. She knew that none

She felt a sudden pride and

(Continued from last week.) growth of trees. They stole through these, the only sound Rhoda's panting breaths. Suddenly Kut-le stopped. "Wait here!" he breathed in Rhoda's ear, and he and Alchise dis-

CHAPTER XIV

The Beauty of the World.

OR many hurrying minutes, Rhoda saw only the passing tree branches black against the evening sky as she lay across Kut-le's breast. The pursuers had made no sound nor had Kut-le broken a single twig. The entire incident might have been a pantomime, with every actor tragically intent.

Having long learned the futility of struggling, Rhoda lay quietly enough, her ears keen to catch the sound of pursuit. Kut-le did not remove his hand from her mouth. But as he dropped rapidly and skilfully down the mountainside he whispered:

"My own ground, you see! It will take them a good while in the dusk to find that back trail. Only a few In-

dians know it." But Rhoda's heart was beating high

Let Kut-le boast as he would, she was sure that Jack and John DeWitt were learning to follow the trail. The most vivid picture in her mind was of the utter weariness of John's face. In the utter weariness of Jones race. In the past weeks Rhoda had learned how fearful had been the hardships that would bring such weariness to a human face. Tears came to her eyes No one so weak, so useless as herself, she felt, could be worth such travail.

Silently they moved through the dusk. Rhoda knew that the other Inquest. Ishous knew that the other Indians must be close behind them, yet no sound betrayed their presence.

After a half-hour or so she strusgled to the set down. But Kut-le only tightened his hold and it was fully two

hours later that he set her on her feet.
"Don't move," he said.

We are on a canon

Rhoda swung blanket to her shoulders, for the night was stinging sharp. She was not afraid. She had grown so accustomed to the night trail that she moved unhesitatingly along first paralyzed her with

"Now," said Kut-le, "I'm not going to travel on foot. The only horses on foot. The only horses within easy distance are some that a bunch of Navajos have in the canon below here. So we will go down and get them. We will have to hike pronto after we get 'em. Just remember that you are contaminatea by the company you are keeping and that if you make any noise, the Navajos will shoot you up, with the rest of us! Keep right behind me."

The little group moved carefully down the canon trail. In a short time they reached a

covering their trail. When she woke she found that they were camped in a strange earle. They were high up on 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 secure in their dizzy seclusion as eagles of the Andes.
It was barely noon and the moun-

tain air was sweet and exhibarating. Kut-le sat against the rampart, smoking a cigarette, while Molly and Cesca worked over the fire. Rhoda lunched on the tor lias to which Molly had clung through all the vicissitudes of flight.

Where are the horses?" she asked

Kut-le. "Oh, Alchise took them back. We must stay here a while till your mob of friends disperses. I couldn't feed them and I wanted to pacify the Navajos and get some supplies from them. Alchise will fix it up with

And here on this dizzy brink of the desert Kut-le did pause as if for a long, long holiday. The wisdom of the proceeding did not trouble him at all. The call of the desert was an allurement to which he yielded unresistingly, trusting to elude capture through his skill and unfailing good To Rhoda the pause was welcome.

She still had faith that the longer they camped in one spot the surer would be the pursues to stumble upon them.
Kut-le began to devote himself entirely to Rhoda's amusement. He
knew all the plant and animal life of
the desert, not only as an Indian but the desert, not only as an indian out as a college man who had loved biology. By degrees Rhoda's good brain began to respond to his vivia interest and the girl in her stay on the mountain shelf learned the desert as has been given to few whites to learn it. Besides what she learned fearn II. Desides wat all the from the men Rhoda became expert in camp work under Molly's patient teaching. She could kindle the tiny. smokeless fire. She could concoct appetizing messes from the crude food She could detect good water from bad and could find forage for horses. The crowning pride of her achievements was learning to weave the dish bas-

that hunt and are hunted, were Rhoda's as the night wind rushed past her face. The apathy of illness was gone. To-night she was as wild a thing as the night's birds that brush-They had lived in the mountain niche some three weeks when Alchise and Kut-le left the camp one afternoon, Alchise on a turkey hunt, Kut-le

on one of his mysterious trips for sup plies. Alchise returned at dusk with a beautiful bird which Rhoda and Molly roasted with enthusiasm. But Molly roasted with enthusiasm. But Kut-le did not appear at supper time as he had promised. When the meal was almost spoiled from waiting, Rhoda and the Indians ate. As the evening wore on, Alchise grew uneasy, but he dared not disobey Kut-le's or-ders and leave the camp unguarded at

speculated, torn between Rhoda hope and fear. Perhaps the searchers had captured Kut-le at last. Perhaps he had given up hope of winning her he had given up nope of winning her love and had gone for good. Perhaps, somewhere or other, he was lying bad by hurt! The little group sat up much later than usual, Cesca silently smok ing her endless cigarettes, Alchise and Molly talking now in Apache, now in English. Rhoda was convinced that they were puzzled and worried.

Even after she had lain down on her blankets Rhoda could not sleep. With Kut-le gone her sense of the camp's security was gone. She rose finally and sat beside Alchise who, rifle in hand, guarded the ledge. There was and near. Rhoda was growing to know the stars. They were remote in the East; in the desert they became part of one's existence. The sense at night than in the daytime. The infinite heavens, stretching depth beyond depth, the faint far spaces of the desert, were as if one looked on the Great Mystery itself.

When dawn came, Alchise wakened Cesca, put the rifle into her hands, and hurried back up over the mountain. The purple shadows had lightened to gray when Rhoda saw Kuthstaggering up the trail from the desert. Rhoda gave a little cry and ran down to meet him.
"Kut-le! What happened to you?

We were so worried!

There was a bloody rag tied just below the your indian's knee. He paused, supporting himself against a rock. Across his eyes, drawn and haggard with pain, flashed a look of joy that Knoda, eying the bandage, did not see.

"I was late starting back," he said briefly. "In the darkness a bit of the trail gave way, dropped me into a canon and laid my leg open. I was unconscious a long time and lost a lot of blood, so it has taken me the lot of blood, so it has taken me the rest of the night to get here. Would you mind getting Alchise to help me up the trail?"

"Alchise has gone to

look for you. Lean on me," said Rhoda sim-

ply.

Despite his weakness, the dark blood flushed the young man's face, while Rhoda's utter unconsciousness of her changed manner brought a smile to his set lips. Not if the tor-ture of dragging his-self up the trail were to be ten times greater would he now have availed himself of help

from Alchise.
'If you will let ms put my arm across your shoulder we can make it," he said as quietly at though his heart were not leaping.

Rhoda's squaring of her slender was distractingly boy ish. Utterly heedless of the pain which each step cost him. Kutls made his way slowly to the ledge, ordering back the flustered squawa and leaning on Rhoda only enough to feel the terder girlish shoulders by (Cointinued on page 25)



Helping the Farmer.

-From The Country Gentleman.

The U

rier Et dismit

March 14, 19:

God is 66THE Lore ance up Yesterday I ? with a discharg sad one, as he w there erect, a came upon m

Once he said; I have done ar but—." Here I while we witness est of sights, a shaken by cont but for a few sec again, master co In those second helplessly, in sil

cap, and fastener cabinet-sized phe and children, W in answer to my discovery: "Yes; all the time, an what a comfort th this happened, wh no more, I could them. Oh! if we could this vivid consci-and abiding press la the hour of 1

of His nearness of fort, because He. the hour of peril needed strength, stands. As one a fully calls for it. In the hour of joice with us, bec much it is deserved self-mastery, F

because He alone Thus in all of have the blesse sense of His near

> Young Peo Conducted by

Playing W iTH the res known as "Charade how to play them!" er exclaim. Well words acted in sylli being an act and th given for the last s

Don't attempt to ate. It is astonishin little ingenuity example, a feather handle run down makes a good hea dian. A red table c ket. Patches can sented by pinning a the coat and pants wrong side out ma ged jacket.

Very Easy Miss-A little gir and is apparently in thing she has misse Led—A girl comes Misled.—The little ing led by her moth person. When the gatherh

divide up into sides up a charade Here are a few wor

adapted to represe breakfast, bandage

But

time

the easy,

hap haps.

much

n her With

nally

large ote in

sense

n the

kut-le

down

make

boy-

each Kut-la

ge 25)

The Upward Look

God is Ever-Present

66 HE Lord lift up His countenance upon thee and give thee peace. "Not be the peace." Not be the peace. "Not be the peace and the ance upon thee and give thee peace."-Num. vi.: 26.

est of sights, a strong man's frame shaken by controlled sobs. It was but for a few seconds, when he turned again, master of himself.

In those seconds, as I looked around his those seconds, as I looked around helplessly, in silent pity, I saw right beside me on a low table, his soldier's cap, and fastened inside a very good, cabinet-sized photograph of his wife and children. When he turned he said in answer to my telling him of this discovery: "Yes, they were with me all the time, and no one can know what a comfort they were. Even after this happened, when I could see them no more, I could feel and know I had

Oh! if we could only all of us have this vivid consciousness of the near and abiding presence of our Saviour! In the hour of loneliness this sense In the hour of foreliness this sense of His nearness can give untold comfort, because He. too, was lonely. In the hour of peril He can give the needed strength, because He understands. As one acquainted with grid, He can comfort when the heart pitismands and the strength of the can comfort when the heart pitismands and the strength of the strength fully calls for it.

in the hour of success He can rejoice with us, because He knows how much it is deserved. At the moment of self-mastery, He can appreciate what it means to us as no one else, because He alone knows of the self

Thus in all of life's moments we have the blessed privilege of this sense of His near presence.—I. H. N.

Young People's Forum

Conducted by Marion Dallas.

Playing Charades

1TH the revival of simple old customs comes the favorite pastime so popular years ago, known as "Charades." "O do tell us how to play them!" I hear some reader exclaim. Weil, charades are only words acted in syllables, each syllable being an act and then the whole word given for the last scene.

Don't attempt to have them elaborate. It is astonishing what merriment a little ingenuity will develop. For a fittle ingenuity will develop. For example, a feather duster with the handle run down the actor's back, makee a good head-dress for an Indian. A red table slett makee a good head-dress for an in-dian. A red table cloth makes a bian-ket. Patches can be easily repre-sented by pinning a piece of paper to the coat and pants. A coat turned wrong side out may look like a ragged jacket.

Very Easy Charade.

very Lasy Courses.

Misc — A little girl enters the room and is apparently hunting for something she has missed.

Led — A girl comes in leading a dag. Misied — The little miss. appears being led by her mother or some other

When the gathering is a large one, divide up into sides and each side get

Here are a few words that are easily adapted to representation: Grooms-breakfast, bandage, courtship,

cannibal, Manhattan, Constantinopie,

feline, paradox.

Besides acting words, there is amusement in acting proverbs such as "A new broom sweeps clean."

Charades for St. Patrick's Day.

This month the day on which we may most easily plan to entertain our friends is St. Patrick's Day, and the occasion may always be a jolly one because of the wit and humor and fun that characterize it. A party, or what-ever form the entertainment may take, is on this day, therefore, always informal.

informal.

I cannot resist giving one game, called "Irish City Charades," apart, from these F have suggested, just for the sake of the folks who would like to puzzle out these charades. If you wish to use them at your party, the wish to use them at your party of rist two lines of each charade may be written on a card for each of the gentlemen, the remaining two on a card for each of the laides, and partners may be secured by matching them.

Irish City Charades.

(1) My first is a "B" and my last is a "t"

The Emerald lale is proud of me;
The name is a curious one, I

guess. Reminding you of a maid in dis-

tress (2) "D" is my first and my last is

an "n"; I'm the centre of things to good Irishmen, Wherever they roam over valley and hill; My sons and daughters love it still.

(3) My letters are four, and if you will look,

They will make you think of your good Irish cook. In a round tube of glass my name-

sake you'll see:
Now, if you think hard, I'm sure
you'll guess me.

(4) My first half means slaughter, my last rimes with penny.
Of heroes great I do not have many

But two famous cats, in a muchtalked-off fight,
Fought each till the other was
vanquished from sight.

(5) My first half means lassie, my second a way; I'm a city, a county, and also a

bay. My people, an odd but industrious crew.

Are very great talkers and good fishers, too.

(6) My first is a "K," my second is "y" do I end; now listen With until

I tell you my secret—my pride and my glory Are my beautiful lakes, famed in song and in story.

(7) With a "y" do I end, I begin with a "B,"

A castle fair in my place you will see. Within is a stone—if you due

homage show,
Honeyed words from your lips
ever will flow.

(8) My first half means a city great and renowned; second an Irish "derry" is

While I'm not so great as my cousin, I'll cwn.
On the pages of history I'm not wholly unknown.

(9) My first half is water, my last means a crossing.
I'm down in the south near the sea waves tossing;

Many sieges historic and battles i've known; I resisted Lord Gromwell and wel-comed Prince John. (Continued on page 22.)

Westclox

rstclox is Big Ben's family name. Westclox is a name an alarm clock is proud treatment of clock making pivots of polished steel grant water method of clock making pivots of polished steel grant water method of clock making pivots of polished steel grant water method of clock making pivots of polished steel grant water method of clock making pivots of polished steel grant water method of clock making pivots of polished steel grant water method of clock making pivots of polished steel grant water method of clock making pivots of polished steel grant water method of clock making pivots of polished steel grant water method of clock making pivots of polished steel grant water method of clock making pivots of polished steel grant water method of clock making pivots of polished steel grant water method of clock making pivots of polished steel grant water method of clock making pivots of polished steel grant water method pivots of polished steel grant water wat to bear. Westclox is a mark of

rearit. Like Big Ben, they must be as cood all through as they look outside.

The Western Clock Co. makes each dealer doesn't stock him.

Western Clock Co .- makers of Westclox La Salle, Illinois, U. S. A.





Farm and Dairy stands four-square against everything that is detri-mental to the farmers' interests, and whatever appears in its columns, either advertising or editorial, is guaranteed reliable.

Gardening Plans for This Spring

Alice A. Ferguson, York Co., Ont.

THE garden is piled high with snow, and the hot beds are very cold indeed with a blanket 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 Frost King held sway. In the midst of it all we planned the campaign for the coming spring and ordered our seeds. We also looked over our left over seeds and the seeds we grew from last 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 should dispose of it that others may not lack. Think of

the possibilities of each seed. A letthe possibilities of each seed. A let-tuce-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 lav-ishly, and many plants die because are too crowded or grow thin and spindly.

In sowing lettuce I choose a loamy on sowing lettuce I 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 delicious lettuce ready early, and beautiful crisp, tender heads coming on later. I never knew the toothsome-ness of lettuce until I tried the var-iety "Crisp as Ice." It is well named, for it is too tender for marketing, but 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 about an ounce of nitrate to three gallons of water, will increase growth rapidly, and is an excellent fertilizer. It is also an excellent tonic for tomato plants.

Sow Radishes Also,

When sowing the seeds of parsnips When sowing the seeds of paranips, begts 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 to the result of the seed of the results of the seed of the results of the seed of the results of the re in this way. They grow rapidly, are pulled out for table use and the crop of beets, etc., is not apparently incon-

WHO ARE THEY?

venienced in the least by the crop of

One method of conserving seed is to One method of conserving seed is to transplant. I sow a small quantity of onlon seed in a corner of a hot bed or cold frame and transplant when three or four inches high. They invariably erow well, requiring the whole growers essaon in which to complete large greaten in this way onlon seeds in greaten in the seed of a little seed will go a long way. Corn will also transplant. Last year was an unusually good year for trans-planting. It rained at convenient times, so that little watering of trans-planted plants was necessary. I trans-planted corn and found it grew well.

Germinating Test Successful. My method of transplanting tomato plants from the germinating test, has proved very successful. In this way every seed is accounted for. I usually have about three varieties of seed and as I require only part of a packet of each kind in a season, there is always old seed on hand. I test is always old seed on hand. I test two soup plates, and two sheets of blotting paper, kept moist with warm water. As the seeds sprout, plek them out with a tooth pick, transplanting them into flats with prepared earth. My method of transplanting tomato them into flats with prepared earth, placing the seedlings an inch and a half apart. With daily watering with half apart. With daily watering with tepid water and a warm atmosphere, they grow nicely and are ready to transplant into the hot bed when it is ready. By beginning this method about March 17th or 20th, early plants will be in splendid condition for rapid growth when set out into the open about the second week or June.

In transplanting tomato plants into the garden I prepare the holes care-fully, digging out the soil and mixing with it as I put it back a little well rotted manure and a little wood ashes. Then I pour in water, insert the plant so that the stem is covered up to the 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 red brick

In popular usage, and not meanoffense.

My name means a rhyme more jin-

gle than sense.

(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

may suppose,
Till my name's come to mean
some soft cotton clothes. (12) I begin with an "S" with an "n" do I close

In a popular song, I remind you of rose;

I'm a river in Ireland, and noble

and grand My bright waters stretch through the heart of the land,

Answers—(1) Belfast; (2) Dubling (3) Cork; (4) Kilkenny; (5) Galway? (6) Killarney; (7) Blarney; (8) Lon-donderry; (9) Waterford; (10) Lim-erick; (11) Balbriggan; (12) Shan-

Last year we grew Early Eureka ensilage corn. We were in the wet district and many neighboring siles district and many neighboring siles are empty. Ours, however, are full. The torn grew 12 to 14 feet high and we have a very good quality of ensuage. Next year we are using Salser's North Dakota, which we will mix with the Early Eureka and by ombining these early and late maturing corns we expect to get a still better quality of enslage. We planted last year on May 17th. We believe in getting the corn in early.—D. C. Flatt, Wentworth Co., Ont.

7 One of these new 1918 autos Or their full value in Cash!

Solve this Great Moving Picture Mystery Over \$1600.00 in prizes To be given FREE

N THIS particular Moving Picture Theatre the names of the famous players who would soon be appearing in the picthe appearing in the pic-tures were each night flashed on the screen. On this particular night the operator, wanting to play a little joke on his aud-ience, took the names of ience, took the names of the players and so mixed up the letters in each name that they spelt out the funny sentences

out the funny sentences; you see above.
Time and time again this film was flashed on the serven only to be demanded back. Many of the addience are still trying to able the mystone sames. Can you help.
In case you are not familiar with the hames of the popular moving picture actors and actreases, the list below may

1 PARCK MY FORD 6 ROAM OR DIE ② A FOUND A GLASS BRIK @FUN MUST DRAIN (3) MAKER A CUTER GIRL (8) A LETS BEN CHEW (4) A BAD HEART (9) NEVER LYE BABY (5) WET A SATIN RAT (10) PREACH ALL CHIN

These Magnificent Prizes given for the Best, Correct or Nearest Correct Replies!





Names of Some of the Favorite Players Hrress of Sorie of use Favorate Sayave, et Chapfin, Hase Dawn, Francis X. Bushnan, Bev-layre, Francis Ford, Grace Cunard, Marguerite (Cara Kimbal Young, Fannie Ward, Mar Linder, Farotum, Alice Brady, Theda Bara, Wilton Lack-tongias Fairbank, Blanche Sweet, Julia Sanderson, Doro, Pauline Prederick, Robert Warwifk, Anta rt, Otga Petrova, Norma Taimage, Lou Tellagan,

This Great Contest is being conducted by the Continental Publishing.

This print contest is being conducted by the Continental Publishing assist at an engaring on this high interdention plants proving your copy before the contest is being conducted by the Continental Publishing and the contest is being the contest in the print of the contest in the print of the contest in the co

HON

Let's I OW many that we should e owing to the with a great rand it is more avoid what the long face." Is however, of our ously? There of sombre subje will keep us se be wise to bre in a while and bright side? I pays to exercise in a while, to for the even pany isn't coming and children had a good laug We housekeep

to become very a matter of life a get our work do: dren happen to a

> H AVE you had been to wearing ratio lady readers column of a peared, and wered this le just as thou give your na contribution the next \$1. a six months us not later i to reply.

"Dear Mat
"Dear Mat
"I'm all alone
girl of all alone
girl of all alone
girl of alone
gard of al
and got al

accidentally broke as a real calamity the stage where st mentioned appear we need to call a selves to "buck up bright side. And a up just reminds showing the unda boys overseas and optimism. Here is A wounded soldi

stairs in a hospita officer of the Y.M. The young soldier head to foot; he sterribly cut up by could scarcely wall ficer stood and wat the young fellow is steps he noticed stathin, and noticin on his face, the state of on his face, the m "Buck up, old man

HOME CLUB

Let's Laugh a Little

that we laugh as much as we should every day? Of course, owing to the war we are confronted with a great many serious problems, and it is more difficult than usual to wools what the hove call "nulling a and it is more difficult than usual to avoid what the boys call "pulling a loug face." Is there not a danger, loug face." Is there not a danger, loug face." Is there not a danger, of some subjects think over which will keep us serious, think over which will keep us serious, the word of sombre subjects think over which will keep us serious, the word of some subjects and the will keep us serious, in a while and practice looking on the bright side? It seems to me that it pays to exercise the funny bone once in a while, to put on our best dress for the evening, even if compute the comming, and with husband processing the serious of the sevening.

We housekeepers have a tendency to become very serious over house-keeping duties. We think it is almost a matter of life and death we do not get our work done just so; if the children happen to spill a glass of milk on the clean table cloth, or something is We housekeepers have a tendency

The household pages of our farm papers and other magazines devoted to the interests of the home, tell us how to save food, how to do our housework intelligently, how to improve our work intelligency, how to improve our surroundings, keep us in touch with labor-saving devices, etc., but very sel-dom do we read articles which tell us how to laugh. Wouldn't it be splendid if some physician could discover a

if some physician could discover a tonic which if taken before or after meals would cause to be light hearted and teach us have been and to be a light hearted and teach us have been and a make him laugh, abe will win his loyal love. Can she not win the love and friendship of many others as well through the art of being cheerful? Why don't we try more frequently to touch the funny bone, in rui: Why don't we try more frequently 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 W HEN in conversation with a friend a few days ago. I asked her if she ever makes orange marmalade, to which she replied: "My liking for orange marmalade is quite a joke at home. It is my favorite breakfast dish, and if it doesn't happen to be on the table when we sit down,

THE **PHONOGRAPH** which really sings.

The NEW EDISON

"The Phonograph with a Soul"

actually sings. It has stood beside Anna Case, Giovanni Zenatello, Guido Ciccolini, Arthur Middleton, Thomas Chalmers and a score of other great artists; and has sung duets with them, and then sung in comparison with them.

The musical critics of more than five hundred newspapers concede in the columns of their own papers, that it is only by watching the lips of the artist standing before them, that they can tell whether it is the artist singing or 'The New Edison

The New Edison is the only instrument which has successfully sustained the test of direct comparison with living artists.

May we send you the brochure "Music's Re-Creation" and the booklet, "What the Critics Say."

THOS. A. EDISON, Inc., ORANGE, N. J.

GIRLS, HOW WOULD YOU ANSWER?

YeVE 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 thinking that probably this household department has been wearing rather a long face lately, and that we might well practice a few smiles occasionally. Accordingly we are goingly well practice after smiles by sending replies to the following letter. In the "John Sommer smiles by sending replies to the following letter. In the "John Sommer smiles by sending replies to the following letter. In the "John Sommer smiles by sending replies to the following letter in the "John Sommer smiles" which we have been the smiles by sending replies to the following letter. In the "John Sommer smiles by sending replies to the following letter. In the "John Sommer smiles by sending letter have been to know is, how would you girls have appeared, and white you been the recipient. Of course, all contributions received must you been the recipient. Of course, all contributions received must you was promised to give your name and address, shing to "Jack," the writer. Be sure to give your name and address, shing to "Jack," the writer. Be sure to give your name and address, shing to "Jack," the writer. Be sure to give your name and address, shing to "Jack," the writer. Be sure to give your name and address, shing to "Jack," the writer. Be sure to give your name and address, shing to "Jack," the writer. Be sure to give your name and address, shing to "Jack," the writer. Be sure to give your name and address, shing to "Jack," the writer. Be sure to give your name and address, shing to "Jack," the writer. Be sure to give your name and address, shing to "Jack," the writer. Be sure to give your name and address, shing to "Jack," the writer. Be sure to give your name and address, shing to "Jack," the writer. Be sure to give your name and address, shing to "Jack," the writer. Be sure to you was and you was a AVE you read that letter from "John's Wife" on this page? If

De not state than march so. Here is "ask's" letter to which you are to reply.

Dear Madge: I must write and let you know that I am as ionesome, and the state of the state of

accidentally broken, we look upon it as a real calamity. When we get to the stage where such things as I have the stage where such things as I have mentioned appear to bus as tragedies, we need to call a halt and tellum, we need to call a halt and tellum, selves to buck up" and look on the bright side. And speaking of bucking up just reminds me of an incident showing the undaunted spirit of the boys overseas and their never-failing optimism. Here is the story:

gh

optimism. Here is the story; a wounded soldier was walking upstains in a hospital one day when an efficient of the Y.M.C.A. was nearby. The young soldier was bandaged from head to foot; he seemed to be most terriby cut up by wounds and he fould scarcely walk around. This officer stood and watched him, and after the young fellow had gone up a few steps he noticed this officer looking steps he noticed this officer looking at the two parts of the young fellow had gone up a few steps he noticed this officer looking steps he noticed this officer looking at the two parts of the property of

I usually go after it before the meal is finished. I suppose March is usu-ally considered about the best time to make orange marmalade, but we make it at home whe ever the supply is exhausted. We consider our recipe a a very good one, the best in fact that a very good one, the best in fact that we have yet come across, and making marmalade from this recipe is very little trouble." I considered this the psychological moment for me to get in a word, so I immediately asked my friend for her recipe, having Our Wo-men Folk in mida at the same time. Here is the recipe as it was given to me:

One dozen oranges (sweet), one-half dozen lemons. Boll oranges and lemons, whole, in water for five hours. fehous, whose, in water for live nours. Take out the inside pulp and cut the peel in thin slices. Add a pint of water and two pounds of sugar to every pound of pulp and peel. Boll 20 minutes.

Another good recipe which has been

Another good recipe which has been recommended to us is made as fol-

WOULD YOUR MOTHER

We know that she would and therefore we are giv-ing our Boy and Girl Readers an Opportunity of securing it.

All you have to do to get one of these fine chests of Silver is to Send in to us Only Ten New Yearly Subscriptions to Farm and Dairy

The chest contains 26 pieces of silver—six solid handled knives, six flat handled forks, six tea spoons, six dessert spoons, a butter knife and a sugar

Go out this week and secure the Ten new sub-scriptions. It will not take

Like This Set of Silverware?

scriptions: It will not take you long to get these. Call at your neighbors on your way home from school, and on Saturday—make it a big day by securing the remainder. Send them along to us and we will immediately on receipt of same, have the silver sent forward to you in a fine hardwood chest fitted with drawers and handles.

Circulation Department Farm & Dairy Peterboro, Ont.

When Writing Mention Farm and Dairy



No. 2C AUTOGRAPHIC KODAK, JR.

Price, \$15.00

PRACTICAL PICTURES

Your farm in picture—there would be pleasure in that for you—and utility.

An Autographic Kodak not only An Autographic Rocas not only gives you pictures of buildings, live stock, crops, fields, but the opportunity for a written record-the sil-important date and title joited heneath each negative directly after exposure.

The result is a farm record-

The result is a farm record-complete, suthentic, practical.

The 2 C Autographic Kodak, Jr., is an admirable camer for this purpose. So easy to work successfully that you will get dood pictures from the very fairt—so con-its with you on your rounds of farm inspec-tion—so generous a picture area (2% a 4% inches) that there is pleasy of room for view and record.

w and record.

Fitted with carefully tested lens and dak Ball Bearing Shutter with adjustance as speeds of 1-25, 1-59 and 1-109 of a sect das well as time and bulb action. Covid with handsome, serviceable seal in leather, black leather bellows. tal parts in nickel and black commel.

Canadian Kodak Co. Limited

Toronto, Canada



et the big demand for Hos for us and your Home trad Indivinue person l'eme trade.
Industrium person provided with
probable, all-year-round employment
an Auto-Kuiters. Experience and
disfance imma-ferial.
Wrise to particulare, rates of pay,
etc. Sand 3 contain stamps,
Auto-Kuiter Mosley (Can.) Co.Ltd.
Dept 301 E-257 College St. Toronta

FOR SALE AND WANT ADVERTISING THREE CENTS A WORD, CASH WITH ORDER

FOR SALE—Privet, Barberry, Cedars, Spruce, Pines, Oaks, Chestnut, Wainlaw, Mulberry, for hadges, Windbreaks, Tim-ber, mailing size. Prepaid, Dozen same variety, one dollars; hundred, five dollars, Lists free. John Downham, Strathroy,

CHEESEMAKER WANTED, with two or three years' experience. Apply string wages, to Box 81, Farm and Dairy

CHEESEMAKER WANTED for the Fraser Creek Cheese Factory, for 1918, season 6 months. 1917 output 91,309 lb, season 6 months. 1917 output 91,309 lb, stating price per lb, and furnish sup-piles, James Douglas, President, Fort Stewart, Out.

FARMERS AND FARMERS' CLUBS interested in cooperation, write for information, enchosing stamp, about cooperative insurance. Jas. Lockie, Zephyr. Ont.

FARM FOR SALE-135 acres; plowing done; possession April 1st. Apply W. S. Walton, Scarbore' Junction.

Farm and Dairy is in an excellest position to champion the cause of the farmer in Canada, secause it is owned and controlled exclusively by farmers.

lows: Take 12 sweet oranges (bitter ones may be used if preferred), and four lemons. To this add 21 cups of water and let stand for 36 hours. Place on stove and allow it to boil from one and a half to two hours, so as to become a little thick before addas to become a little thick before add-ing sugar. Then add one cup of sugar to each cup of the liquid. Do not al-low it to boil long after the sugar has been added, just until it begins to

2338 1

Some people like marmalade made by combining oranges, lemons and grapefruit. A good recipe for this is to use in the proportion of one orange, one lemon and one grapefruit, and after measuring fruit add three times its bulk in water. Let stand over night. Next morning boil 10 minutes. night. Next morning boil to minutes.

Cover tightly and let stand again over
night. Boil it minutes the following
morning and to each plat of fruit add a
pint of granula ed sugar and boil until it jellies, stirring as little as possible

Those of us who are endeavoring to save sugar as far as possible, may favor the idea of making marmalade for that reason. For those of an exfor that reason. For mose of an experimentative turn of mind, however, this difficulty may be overcome by using glucose instead of the regular cane sugar. Recently in the Domestic Science Section of the Technical School in Toronto, classes have been trying out glucose in making marmalade with good success. Glucose, we are told, is made by heating starch under pressure with sulphuric and its sweetness compared with cane and its sweetness compared with cases sugar is three to five. It can be pro-cured either in crystallized or in syrup form. By using glucose we would not only be obeying the advice of the Food Controller to preserve all non-exportable goods possible, but we would also be saving sugar. At the same time, authorities at the Techni-cal School claim that we would have a delicious marmalade at less cost than if made with cane sugar. One of the recipes used at the Technical School for making this marmalade was as follows: One grape fruit, one lemon, one orange, eight cups of glu-cose and 10 cups of water, which will make eight pint: of marmalade.

We will be glad to bear from any of Our Womer Folk who try out this method and find it successful or other-

wise.-R. M. M.

Improve Fish With Sauce

with sauce and below we give two or three ways of making fish sauce. Everyone possibly is familiar with the standard white sauce for fish made with flour, milk, butter, pep per and salt. To vary this an egg sauce may be made by adding a hard boiled egg chopped very fine, or add the yolk chopped fine to the sauce and grate the white through a sieve over the fish when serving, or vice versa

For tomato sauce make the same white sauce using tomato juice that has been strained from cooked tomatoes, instead of milk and add an onion. Horseradish sauce can be made by adding to white sauce a tablespoon of grated horseradish, wet with lemon juice and work to a reamy whiteness.

If one desires to make a fancy dish, they might serve Maitre d'Hotel sauce with the fish. This is made by beating two tablespoons of butter to a cream with the juice of half a lemon, adding a tablespoon of finely mineed parsley. Serve cold with hot fish. This sauce may be served in little cups made from half a lemon from which the pulp and inside skin has been removed. Hollandaise sauce is made from standard white sauce with the addition of the yolk of an egg and after removing from the fire, the julee of balf a lemon. This can be served with either boiled or baked fish or with fish cakes

D ROBABLY one of the first points of costume which we notice on a wo-

her shoes. If they are neat-fitting, clean and straight at the heels, we heave a sigh of satisfaction and admiration. Then we of astisfaction and aderiration. Then we look at her giveres, and if they are clean, and "holeless," this is another atrong point in her favor. On the other hand, no matter how meat and pleasing this won-are sizably looking and randows. At the heels, and her gioves very much solid and bedecked with his liber and gioves are two very kuportant parts of the contume, and atthough they are rather expensive mean, as possible some these lines.

There are a great may be retitle strength of the control of

The are a great many person of the control of the c

heel. 2335—Girl's Dress—This dainty little freek fee the small child is simple and effective. The smocking on either side of under a pleasing trimming. The collar may be trimmed either with lace, butter any bearing trimming. The collar may be trimmed either with lace, butter of the collar side of

.6 and 5 years.
2346—Dress for Misses and Small Wo-nen—For those who desire a loose, flow-ng and comfortable dress, the one here shown will me doubt appeal favorably.
the small yiew shows the way in which

the back of this dream is fashioned. Three species 18, 18 and 20 years.

2244-2243-Lady's Commun. Here is an 2244-2243-Lady's Commun. Here is an of the newest styles of collars in the shawl effect and loosely thed in front. The shirt, too if a trumman for extreme collections of the new spring materials. This custome calls for two patterns, 18 cents for the same calls for two patterns, 18 cents from 27 to 28 inches waits manure.

2255-La Simple Set-This simple set of cost and cap for the small tots of the "coverall" styles of spring set of cost and cap for the small tots of the "coverall" styles of agent and the "coverall" styles of agent and 12-244 in reduction, 36-451 inches butt measure.

44-46 inches butt measure.

large, 44-46 inches bust measure. 2084—Lady's Comiscio—There are many sheer blouses nowadays, that requires very pretty and dainty or wear. A camisole made in the style shown should prove becoming and at fit neally. Seven slases: 44 to 45 bust measure.

the neatly. Seven sizes: \$4 00 40 intermediate. Dress-Large pookers and the property of the pr

How About Shoes and Gloves?

Farm and Dairy patterns shown in these columns are expected? Pre-pared for Our Women Folk. They can be selled upon to be the land models and include the mass beareful to state bust or waits measure as beareful to state bust or waits measure as a state bust or waits measure as adults, for children, and the number of the pattern described. Orders are fill, within one week to 10 days after receipt, Fries of all prices of to Our vomen Folk. 10 cents each. Address orders to Pattern bent, Farm and Dairy, Fetsborn, Ont.

peath the wor In the came mand while K watching her put one of Ak on to boil over washed out the shirt. She broand her own t coaxed the you the happiness was so energet sun was just the far peaks his bacon and looking at him on one side, wit placent tender can assume onl tered to the ne culine thing.

March 14, 1

"There!" she satisfaction.
"Rhoda," said the heavy thum not shake his "how long ago a helpless, dyl How long since one but yourse

Rhoda drew stood staring fr desert, to her all again. She hell looked at them. and brown and she looked at t he never was t her eyes.

"Kut-le!" she am well again! She paced bac Through cheeks flushed ally she stopped

"You have out ed instincts," sl you have saved health. Whatev never shall forge

"I have change said Kut-le quiet old hatred of the Rhoda turned t of the distant ra of red. Crimson a to the zenith. Th more translucent, into molten gold. scarlet, rolled Rhoda's heart flo finite eplendor, is

finite peace.
"Why!" she gas
beautiful! It's, no
adorned beauty!" The Indian nod

that day, Long yes catch the aftergle her rebirth. Sud that never could a health in a settin Kut-le, with symps was grateful, did much. Once, howe drink smoothed his blank

"You who have a manded service all you do this?"

"I'm not serving pay up some of the Kut-le was abou and by the end of quite himself. He expeditions with R which provided tex sert learning. Rho ency, her old agony mediate rescue had strange conflict of eager for rescue, w

constant aching de people, and yet the

The Heart of the Desert (Continued from page 20.)

peath the worn blue blouse.

In the camp, Rhoda assumed com-mand while Kut-le lay on his blanket watching her in silent content. She watching her in shent content. She put one of Akchise's two called shirts on to boil over the breakfast fire. She washed out the nasty cut and bandaged it with strips from the sterilized shirt. She brought Kut-le's breakfast and her own to his blanket side and coaxed the young man to eat, he as-suming great indifference merely for the happiness of being urged. Rhoda was so energetic and efficient that the was just climbing from behind the far peaks when Kut-le finished his bacon and coffee. The girl stood looking at him, hands on hips, head on one side, with that look in her eye of superiority, maternity and com of superiority, maternity and com-placent tenderness which a woman can assume only when she has ministered to the needs of a helpless mas culine thing.

"There!" she said with a sigh of satisfaction.

satisfaction. "Rhoda," and Kut-le, hoping that the heavy thumping of his heart did not shake his whole broad chest, "how long ago was it that you were a helplese, dying little girl without strength to cut up your own food! How long since you have served any one but yourself?"

Rhoda drew a quick breath. stood staring from the Indian to the desert, to her slender body, and back again. She held out her hands and looked at them. They were scratched and brown and did not tremble. Then she looked at the young Indian and he never was to forget the light in

"Kut-le!" she cried. "Kut-le! I am well again!"
She paced back and forth along the ledge. Through the creamy tan her cheeks floshed richly crimson. Fin ally she stopped before the Apache.

"You have outraged all my civiliz-ed instincts," she said slowly, "yet you have saved my life and given me health. Whatever comes, Kut-le, I never shall forget that!"

"I have changed more than that," said Kut-le quietly. "Where is your old hatred of the desert?"

Rhoda turned to look. At the edge of the distant ranges showed a rim of red. Crimson spokes of fire flashed of red. Orimson spokes of fire flashed to the zenith. The sky grow brighter, more transfluedent, the ranges melted into molten gold. The sun, hot and scarlet, rolled into view, into Rhoda's heart flooded a sense of in-finite spieador, infinite beauty, in-defigurance.

Why!" she gasped to Kut-le, "it is beautiful! It's not terrible! It's un-adorned beauty!"

The Indian nodded but did not speak. Rhoda never was its forset that day Long years after she was to catch the afterglow of that day of her rebirth. Suddenly she realized that never could a human have found health in a setting more marvelous. The realization was almost too much. Kute, with sympathy for which she was grateful, did not talk to her much. Once, however, as she brought 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 this?"

"I'm not serving you. I'm trying to pay up some of the debt of my life." Kut-le was about in a day or so and by the end of the week he was and by the end of the week he was quite himself. He resumed the daily expeditions with Rhods and Alchise which provided text for the girl's de sert learning. Rhoda's old despond-ency, her old agony of prayer for immediate rescue had given way to a strange conflict of desires. She was eager for rescue, was conscious of a constant aching desire for her own people, and yet the old sense of our

rage, of grief, of hopelessness was

Of a sudden she found herself pausing, thrusting back the problems that confronted her while she drank to the full this strange mad joy of life which she felt must leave her when she left the desert. She knew only that the fear of death was gone. That hours of fever and pain were no more. That her mind had found its old That her mind had found its out poise but with an utterly new view-point of life. Her blood ran red. Her lungs breathed deep. Her eyes saw distances too big for their conception, beauties so deep that her spirit had to expand to absorb them.

The silent nights of stars, laborious crests that tossed sudden and unspeakable views before the eyes, the eternal canons that led beneath ranges of surpassing majesty roused in her a passion of delight that roused in ner a passion of dengat that could find expression only in her growing physical prowess. She lived and ate like a splendid boy. Day after day she scaled the ranges with Kut-le and Alchise; tenderly reared creature of an ultracivilization as she was, she learned the intricate lore of the aborigines, learned what students of the dying people would give their

Kut-le wakened Rhoda at dawn one day. She prepared the breakfast and tortilla. shared this eagerly with Rhoda and Kut-le, though already he had eaten Alchise with the squaws. The day was still gray when the three set out on a long day's trip in search of game. The this morning led up a canon deep and quiet, with the night shadows still dark and cool within it. The air was that of a northern day of

Rhoda tramped bravely, up and up from cactus to bear grass, from bear grass to stunted cedar, from cedar to plues that at last rose triumphant at the crust of a great ridge. Rhoda and Kut-le flung themselves to the ground to rest while Alchise prowled about restlessly. Across a hundred miles of desert rose faint snow-capped peaks.

Kut-le watched Rhoda's rapt face for a time. Then, as if unable to keep back the words, he said softly:
"Rhoda! Stay here, always!

Marry me and stay here always!" Rhoda looked at the beautiful pleading eyes. She stirred 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.

"Sabe no white talk," he said. Kut-le passed the stranger a cigar-ette, which he accepted without comment. A rapid conversation followed between the three Indians.

botween the infree segment.

"He is an Appache," explained Kut-le, finally, to Rhoda. "His name is injun Tom. He says that Newman and Forter hired him to trail us but he is tired of the job. They foolishly desented him five dollars. He says advanced him five dollars. He says they are camping in the valley right below here"

Rhoda sprang to her feet.

"Where are you going?" smiled Kut-le. "He says they are going to shoot me on sight!" Under her tan Rhoda's face whit-

Would they shoot you, Kut-le, even if I told them not to?

At the sight of the paling face the young man naurmured, "You dear!" under his breath. Then aloud, "Not if I were your busband."
"How could I man

could I marry a savage?"

cried Rhoda.

Kut-le put his hand under the cleft chin and lifted the sweet face till it looked directly into his. His gaze was very deep and clear.

"Am I nothing but a naked savage. Rhoda?" he said. "Am I?"

Rhoda's eyes did not leave his.
"No!" she said softly, under her breath

(To be Continued.)

SUN LIFE KEEPS GROWING

THE results of operations for the year 1917 show a continuance of the notable expansion that has marked the career of the Sun Life Assurance Company of Canada. In Assets, Income, Surplus, New Business, and Total Business in Force substantial increases are recorded over the corresponding figures for previous

RESULTS FOR 1917

	Assets at December 31st, 1917,	\$90,160,174.00
	Caeli-Income	7,211,178,00
	New Assurances issued and Paid for in Cash	19,288,997.00
8		47,811,567.00
	Assurances in Force at December 31st, 1917.	311,870,945.00
	Profits paid or allotted to Policyholders	1,560,389,00
	Profits paid or allotted to Policyholdera, in past five years.	449,488,00
	Lotal Payments to Policyhelders, 1917.	5,224,963.93 8,840,245,00
	Payments to Policyholders since organization 480,04,816 Assets held for Policyholders 90,100,174	0,010,258,00
	Premiums received since organization 51 Payments to Policyholders and Assets held for them avered	89,254,490 88,866,226

Undivided surplus at December 31st, 1917, over all liabilities

\$5,893,264 \$8,550,761.00

THE COMPANY'S GROWTH

YEAR	Moone	ABBETS	LIFE ASSURANCES		
1879	\$ 48,210,73	\$ 96,461.05	\$ 1,004,800.0		
1037	477,410,68	1,812,504.48	= 10,873,727.6		
1877	2,228,894.74	7,322,171.44	= 44,080,700.7		
1077	6,249,258.25	26,438,565.15	= 111,185,604.8		
1917	19,288,997.03	90,160,174.24	311,070,948.7		

The Company takes this opportunity of thanking its policyholders and the public generally for the continued confidence and goodwill of which the above figures give such strong evidence.

SUN LIFE ASSURANCE

HEAD OFFICE MONTREAL T. B. MACAULAY, President



BOYS! \$10.00 cash to you if you solve the content to of the Soldies's Kit Bag and mail your answer. Kit Bag and mail your answers serve things in the way to war. If you can future them out and grove that you are their "the server things be taken way to war. If you can future them out and grove that you are their "the server of the server of solve the contents of the Soldier's

Don't wait. Send your maswer to this puzzle for clever boys and address DEPT. 24 CANADA WEEKLY, 35 LOMBARD STREET, TORONTO.

m FARM AND DAIRY are reliable. They are You'll Find the Advertisers advertising reliable goods. They want to know you; also want to know where you saw the Ad. When writing them don't forget to tell them you saw the Ad. in FARM AND DARY. RECORD YEAR FOR SUN LIFE.

RECORD YEAR FOR SUN LIFE.

It is evident from the sensits obtained
by the Sun Libe of Chanda for Dirielsewhere in this base, that the bigMontreal company has quite kept up with
it means raise of meaning the last the bigMontreal company has quite kept up with
it means a sun of meaning the last the bigMontreal company has contained in some comresponding to the sun that the bigMontreal company has contained by the company the sun that the sun that the company in the company in the company in the company in recent years in indicated by
the fact that assurances in lorge has been company in recent years in indicated by
the fact that assurances in lorge has been company in recent years in indicated by
the fact that assurances in lorge has been company in the fact that assurances in lorge has been company in the company in recent years in indicated by
the fact that assurances in lorge has or

Turning to the factors indicative of the company in recent years in indicated by
the fact that contains the last the last that smooth in the company in recent years in the company in the co

The Wrong Kind of

Fence, Erected

March 14, 19 The Ma M APLE sur production tack in of all kinds co Canada, past a The first cro Manitoba and well, is secured maples. The s in Essex Coun southerly poin March 20, and will creep north the Eastern Toron to New Scotia. The sa last in each se bud-about thre greatest use a

that sap runnin sugar bush on I with all the help persuade and m dred dollars' wo cost him some fi in some districts getting migh farmer has to co great world shor sugars. Canada some countries, sugar is great Britain is on a pounds per mor The Canadian readily absorbed

Canadian sugar r United States ta

and would gladl ern Canada is where the pur

maple syrup of t teemed. In the it has been hard

sugar and syrup, the pure product States offers an

have been asked and beet sugars sumption of

greatest consume world are forced Maple sugar is

stitute and popul The people of

with the Canadian dian soldiers ha Thousands of pou to the front by the

by now into the

of Europe where C

been stationed. T

foundation for a trade, and Canadi have now a marke

tically without a H Maple sugar an protected from a Pure Maple Sugar

Adulteration Act, the word "maple"

the pure products Ottawa Valley and

ships of Quebec netting 16 cents a ers for sugar and syrup. These price hose received five Every available me

tapped this spring bucket, pail and pa vice, whether it is

equipment or the o ing outfit that has

Every littl

The total proceeds of the sale and 1873. See the bead, a general oversity state of the sale of the sal

A Trenak, Bastoret.

A Trenak, Bastoret.

Wo good bulls recentry sold Sunayashic Parts of A. D. Vester State of the Sunayashic Parts of A. D. Vester State of the Sunayashic Parts of the Sunayashic P



SAFE

The Only Wire Fence You Can Afford to Buy

HE only fence you can afford to put on your farm is the one which lasts a lifetime—a fence which will stand the hardest of hard sage. It's the least expensive in the long run. The other kind may be a little cheaper in first cost—but what a difference a few years make!

PAGE WIRE FENCE BUILT TO LAST

-some are built to sell. Many of the first fences we made, over 25 years ago, are still giving the best of

Page Fence is made of all No. 9 gauge wire—even the locks are full gauge. The finest quality wire is used-it is extra strong, very rigid, tight-locked and

Our fences and gates are a lifetime security against fence troubles.

There is a Page Wire Fence for every purpose. Page Gates, built as canefully as Page Wire Feaces, rage vates, but as casefully as Page Wise Featers, are obtainable in every regular size. Write our nearest branch for price list of all Page Products—Page Fences, Gates, Engines or Woodsaws. Information will be cheerfully given. Drap us a line

Shipping Terms:—Freight allowed on all shipments of 200 pounds ar more, to any place in Old Ontario or Quebec, when payment is made within thirty days.

THE PAGE WIRE FENCE COMPANY

Walkerville

499 No re Dame St., Montreal



THE BEST WORKMAN YOU CAN GLT THE BEST WORKMAN YOU CAN GIT is the one that never fire. The sturdy little Page is always or the job. It is always ready for work when you are, always on the job. It is always ready for work when you are. It is always to be always to always to be alway

LOOK FOR STRENGTH IN A WOOD SAW

THE THEORY OF THE PROPERTY OF

cassfully.

Built for convenience. Built to last. The Triting Table has a stroller at one end to facilitate handling of long poles. And the balance-wheel and puriey are interchangeable.

pound of maple sus Keep roses and from suckers, shoot base of the plants. The Maple Sugar Drive

APLES sugar and maple syrup
production come as the first attack in the greater production
campaign for 1918. The call for food
of all kinds comes to Canada and all
Canada, sast and west, to save the
situation must produce this year as

The first crop of the year, in Eastern Ca ada at least, and in parts of Manitoba and British Columbia as Mantiona and British Columbia as well, is secured by tapping the sugar maples. The season is due to open in Essex Courty, Ontario, the most southerly point in Canada, about March 20, and gradually the spring will crees north and oast spreading. will creep north and east, spreading across the older part of Ontario into across the older part of Obtario into
the Eastern Townships of Quebec and
on to New Brunswick and Nova
Scotia. The sap running season willlast in each section until the leaves
bud—about three or four weeks. The bud—about large or four weeks. The greatest use a farmer can make of that sap running period, if he has a sugar bush on his farm, is to turn in with all the help he can command or persuade and make a couple of hundred dollars' worth of sugar. It will can him some firewood it is true. cost him some firewood, it is true, and in some districts of Canada cord-wood in setting mighty scarce, but the farmer has to consider that this is an exceptional year. We have had a great world shortage of cane and beet sugars. Canada has not suffered as some countries, but the demand for sugars is greater than ever known. Britain is on a sugar ration of two pounds per month, France one and eneventh bounds per month and Italy can be sugared to the control of th in some districts of Canada cordwood

The Canadian market has hitherto readily absorbed 75 per cent. of the Canadian sugar maple production. The United States takes all we can send and would gladly take more. Western Canada is a growing market where the pure maple sugar and maple syrup of the East is highly estantial to the state of the state maple syrup of the East is highly es-teemed. In the big cities of Canada it has been hard to get pure maple sugar and syrup, and the demand for the pure products has for years ex-ceded the supply. The United States offers an unlimited market. And, further, the American people have been saked to conserve cane and beet sugars and reduce the con-sumption of sugar candies. The and beet sugars and require the com-sumption of sugar candies. The greatest consumers of cardios in the world are forced to find substitutes. Maple sugar is a wholesome sub-stitute and popular wherever intro-

The people of Britain and France have lately been made acquainted with the Canadian sugar. The Canadian soldiers have introduced it. Thousands of pounds have been sent Thousands of pounds have been sent to the front by the Red Cross, and the knowledge of maple flavor has appead by now into the various countries of Europe where Canadian troops have been stationed. This has created the foundation for a permanent export trade, and Canadian maple producers have now a market emprentively executed.

have now a market opportunity prac-tically without a limit.

Maple sugar and syrup have been protected from adulteration by the Pure Maple Sugar amendment to the Adulteration Act Pure Maple Sugar amendment to the Adulteration Act, passed in 1915, and the word "maple" may not be used in branding or offering for sale any but the pure products. Dealers in the Ottawa Valley and the Eastern Townston of Quebec are offering prices ability of Quebec are offering prices and 1915 per gallon for syrup. These prices are sality devokates. syrup. These prices are easily double by the second of equipment or the old-time sugar making outfit that has not been used for years. Every little helps. Every pound of maple sugar is wanted.

Keep roses and other shrubs free from suckers, shoots that start at the base of the plants.

require immediately One Million Five Hundred Thomand Muskrat Skins (1,500,000), and Fifty Thousand Beaver Skins (50,000).

Anonant Boarter Same (197,1007).
We have no time to issue Price Lists. Don't ask for any. Skip us your Hunkrate. We will pay the very highest Market Prices. Fur your own valuation on them if you with, but ship to us. A trial shipment will convince you that we are the best buyers of Raw Furs in the World.

We have Stacks of Money.

We are no Pikers.
We are no Pikers.
We are to the Market for the Entire Canadian Catch.
We buy all kinds of Canadian Raw Eurs.

The George Monteith Fur Co. 21 JARVIS STREET - TORONTO, ONTARIO



WHITE AND COLUMBIA WAANDOTTES, LIGHT BRAHMAS, & C.
WHITE LEGHORNS.
VIchael K. Boyer, Box 22, Hammonton,
N.J.

WANTED—Assistant for cheese and butter factory for 1918 season. Give references and prices expected. G. Seeley, R. R. No. 7, Picton, Ont.

Are You Working for the Machine or Is the Machine Working for You?

No one wants to be bossed by a bell, or chased by a speedometer. Fixed-feed separators are hard taskmasters, unless cream waste means nothing to you. How much better it is to have your separator skim clean at any speed-working for you, not against you. Only one separator does this-the Sharples suction-feed. It skims equally clean at all speeds, averaging a saving of 10 lbs. of butter per cow yearly over any other separator. Every time you turn a Sharples you are saving the butterfat that will help win the war.

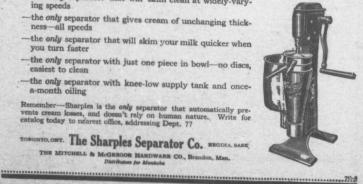
SHARPLES CREAM SEPARAT

- the only separator that will skim clean at widely-varying speeds
- the only separator that gives cream of unchanging thickness-all speeds
- -the only separator that will skim your milk quicker when you turn faster
- the only separator with just one piece in bowl-no discs, easiest to clean
- -the only separator with knee-low supply tank and oncea-month oiling

Remember—Sharples is the only separator that automatically prevents cream losses, and doesn't rely on human nature. Write for entailog today to nearest office, addressing Dept. 77

TORONTO, ONT. The Sharples Separator Co. REGINA, BASK

THE MITCHELL & McGREGOR HARDWARE CO., Brandon, Man.



RENNIES War Time Production Seeds

THERE must be no "slackers" this year, either among the seeds or the growers. Every man and woman with garden space, must produce to the limit of his or her ability. And that is why Rennie's seeds are so essential—live, vigorous seeds from tested stock, to ensure record crops. PRIISSELS SPROUTS - Amager Pkt. 14 Oz.

Market	.10		.90	2.75	
field (Improved)	.05		.60	1.75	
CAULIFLOWE'S — Rennie's Danish Drouth-Resisting	& .25	1.00	3.50	10.00	
Extra Select	.15	.60	2.00 .60 .75		
FLOWER SE	EDS			Pkt.	
New Giant Astermum—Mixed Color Rennic's XXX Giant Comet Asters Dreer's Feerless Pink Aster Early Blooming Cosmos—Mixed Rennic's XXX Exhibition Mixture I Rennic's XXX Prize Ruffled Giant	-Mixed			10	
Mixture Rennie's XXX Large Flowering Glo Rennie's XXX Mammoth Verbena- Giant Zinnia—Mixed.	be Stock	e	xture.	10	

Mail Your Order TODAY For Planting Up to April 15th I LOOK FOR THE STARS

Turn the pages of your Rennie cat-alogue. You will notice a great many suragraphs with stars at the corners These are extra special values that lefy competition. When buying fron tealers insist on RENNIE'S.

TORONTO

Annual Winter Sale

Females

Registered Holsteins

Hunt & Collier's Livery Barn Brantford, Tuesday, April 2nd

The Brant District 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 particularly fine lot. The 36 females are mostly young cows, fresh, or due to freshen at time of cale. There are 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 offer-

E. C. CHAMBERS, Pres.

N. P. SAGER, Secretary,

St. George.

COL. ALMAS,

Auctioneer.



NORFOLK CONSIGNMENT SALE OF HOLSTEINS.

NORFOLK CONSIGNMENT SALE OF HOLSTEINS.

THE annual consignment sale of the Norfolk Holstein Breedern' Club. Norfolk Holstein Breedern' Club. Was held at Hagerwille, on Thurspressent, and while no phenomenal prices were realized the average was good most authority of the norfolk holstein between the norfol

Ad Talk

TIME WELL SPENT.

of the star my deak and giance out of the star my deak and the star my deak and

on; Asggie Colantha Lassie, \$100. F. Vilson; to the fact that there were two CW wilson; to the fact that there were two the parts the buyers were composed imost entirely of local men, and this to ome extent, held the average of prices little lower than otherwise would have seen the case.

THE HESPELER SALE.

THE HESPELER SALE.

1. DEAL weather, small attendance, but register of W. A. Rife's sale of Marchanteristics of W. A. Rife's sale of Molstein and March 8th. In spite of the fact that realized, were good.

Pive mature cows averaged 1157.

Five mature cows average of 1157.

Five mature

SALE DATES CLAIMED

PETERBORO' COUNTY. March 28th-G. A. Brethen, Norwood, Dispersion sale of Holsteins. BRANT COUNTY.

April 3rd—Brant County Breed-ers' Club, Sale of Holsteins at Brantford, N. P. Sager, St. George, Secretary.

PERTH COUNTY March 13th-Perth District Hol-stein Breeders' Club.

OXFORD COUNTY.

March 15th—H. C. Hanmer of
Norwich, Ontarlo, pure-bred and
grade Holsteins.

March 19th — Noah S. Bender, Tavistock, Ont., Holstein Disper-sion Sale.

March 20th-The Oxford District Holstein Breeders' Club, W. E. Thomson, Secretary, Woodstock, Ontario.

March 20th—Southern Countles Ayrahire Breeders' Club, Wood-stock, Ont., Dispersion Sale of Pure Bred Ayrahires. April 10th—T. G. Greeg, R. R. No. 5, Ingersoli, Ontario, Holsteins.

PEEL COUNTY.

March 19th-Dispersion Sale of Holsteins and Clydes, C. Slavin, Malton, Ont.

CARLETON COUNTY. March 27th—Sale of Holsteins akeview Dairy Farm, Britannia ay, Ont. W. F. Bell, proprietor. GLENGARRY COUNTY.

March 15th.-J. D. McLennan ancaster, Ont., Ayrshires. ONTARIO COUNTY.

April 5th.—Dunrobin Farms, Beatron, Ontario, Dispersion sale of olsteins at Union Stock Yards.

NORTHUMBERLAND COUNTY. April 2nd.—Menie District Ayr-shire Breeders' Club, consignment sake of pure-bred Ayrebires at Campbellford, Ont. DUNDAS COUNTY.

Frarch 21st.—The Allison sale of registered Hoisteins, 80 head, at Allison Stock Farm, Chesterville Ont.

March 14, 1918.

Pure

We re pose of ou last fall, h until other

cure indiv Two main combined The result herd of go breeding v lar lot eve every anim the proud : self among

Breede

to secure i utility, whi and a safe who is lay with the de permost in

This ye Ayrshires. Mr. Ba only living lbs. of wilk The sir SCOTLANI Ayrshire br

Stoneye Ste. Anne d Vehicles wi

Address:

When Writing Mention Farm and Dairy

STONEYCROFT STOCK FARM **DISPERSION SALE**

at Ste. Anne de Bellevue, Que. at 12 o'clock MARCH 26th.

Pure Bred Ayrshires Clydesdale Horses Ayrshire and Holstein Grades

We regret very much that we find it necessary to dispose of our stock. The fire which demolished our buildings last fall, however, has made it impossible for us to continue until other arrangements have been made.

While building up our herd, our object has been to procure individuals possessing beauty, utility and breeding. Two main points that we considered were utility and health combined with pleasing conformation and good breeding. The result has been satisfactory. We now possess a healthy herd of good producing cows 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 type and production uppermost in his mind.

MACDONALD COLLEGE.

NOV. 29TH., 1917.

TO WHOM IT MAY CONCERN:-

THIS IS TO CERTIFY THAT THIS

TWENTY-NINTH DAY OF NOVEMBER NINETEEN

HUNDRED AND SEVENTEEN I HAVE COMPLETED A

THERMAL TEST FOR TUBERCULOSIS ON ALL

CATTLE OVER SIX MONTHS OF AGE, THE PROPERTY

OF STONEYCROFT STOCK PARM, STE. ANNE DE

BELLEVUE, QUE. , AND HAVE FOUND THE ENTIRE

HERD TESTED FREE PROM THE DISEASE.

ME M. Even. B.V.S.

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

This young herd sire was bred by Thos. Barr, well known throughout Scotland and America as a famous breeder of Ayrshires. In 1915 Major Houldeworth purchased him at the great Hobsiand sale—paying the highest price of the day. only living cow of the world renowned Bull, White Coeade of Nether Craig, 2852. Her record at 15 years of age was 9,290. The size Hobsiand Sale—bayed Bull and 3.74% Butter Fat.

The sire, Hobsland Perfect Piece, 10665, is known to all Ayrshire breeders as UNDEFEATED GRAND CHAMPION OF SCOTLAND AND AMERICA. His grandsire, Hobsland Masterpiece, 8795, is the greatest show ring and breeding bull the

The sale will be held under cover---so come rain or shine

Stoneyeroff Stock Farm is situated one mile from the station of the Grand Trunk and Canadian Pacific Railways at Ste. Anne de Bellevue, and splendid train connections can be obtained to all points, either in Canada or the United States.

Vehicles will meet all the trains at both stations on the day of the sale.

Catalogue of Sale will be sent you on request

Address: L. C. McQUAT, Manager

STONEYCROFT STOCK FARM Ste. Anne de Bellevue, Que.

CHOICE AYRSHIRES

Box 124 - STE. ANNE DE BELLEVUE, QUE

The Surest Way Fo sell your surplus stock in through the live stock columns of Farm and Dairy. The cost is little and the results certain. Send in (30)

Seeds will be in greater demand this year than ever before on account of the big shortage of good seed and the Government's demand for increased pro-uction. Do not delay your order.

CORN

CONN.

CLOVER AND TIMOTHY.

Con account of the severe shorttage of control of the severe shorttage of the sever

CLOVER AND TIMOTHY

GEO.KEITH & SONS

124 KING ST. E TORONTO

Specialists in Holstein lore

A third of a century

WE KNOW HOW

F. H. McCULLOUGH & SON LIVE STOCK AUCTIONEERS

Epworth Farm

NAVAN, ONT.

AVONDALE FARM OFFERS

A choice young boil, born Nov. 2, 1917, sired by "Woodcreat Sir Ciyde." Dans, 23-th daughter, of "Prince Hengerveld Pletja"; and dam, 25,54-th. A bargain for immediate sale.

2,56-th. A bargain for immediate sale.

2,56-th. A bargain for immediate sale.

3,50-th. A bargain for immediate sale.

3,50-th. A bargain for immediate sale.

4,50-th. A bargain for immediate sale.

3,1,0-th. A bargain.

H. LYNN,

Avondale Farm,

Brockville, Ont.

Consigned by M. H. HALEY at Woodstock, Mar. 20

MARY BUTTER BARONESS—2-yrs.-old. Bred to King Fayne Al-cartra, 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 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.

RE-BECKY FAYNE OF CEDARBRAE—Bred to a son of 100 lb.

M. H. HALEY, Plan to attend

SPRINGFORD, ONT.

Dispersion Sale HOLSTEINS and CLYDESDALES

Near Toronto---Yonge St. Stop 38 Metropolitan R. R.

on Thursday, March 21st, 1918

I will sell, without reserve, 13 head reg. Holsteins, 7 high-class Grades and 7 registered Clydesdales. Send for Cata-

P. W. BURTON

R. R. 1, Eglinton, Ont.

HOLSTRIN-FRIESIAN NEWS

Farm and Dairy is the leading exponent of dalrying in Canada. The great majority of the members of the Canadian Holstein-Pylesian Association are readers of the paper, Members of the Association are luvited to send items of interact to Holstein breeders for publication in this column.

OFFICIAL RECORDS OF HOLSTEIN-FRIESIAN COWS FROM FEB. 1 TO 15, 1918.

Mature Class.

1. Abbekerk Queen Countess, 28240, 5y, 6m. 34d.; 593.1 lbs. milk, 24.39 lbs. fat, 30.38 bb. butter. It. L. Hicks, Dalhousie Jet., N.B. 1988, 1889, 189

3. Madam Pauline Canary, 16499, 7y, 1m. 2d.; 570.6 lbs milk, 23.38 lbs. fat, 29.22 lbs. butter.

butter. 14-day record: 1217.7 hbs. milk, 45.81 hbs. fat, 57.36 hbs. butter. 30-day record: 2579.8 hbs. milk, 95.64 hbs. fat, 119.56 lbs. butter. A. E. Hulet, Nor-

wich.
4. Nora Canary, 23205, 5y. 6m. 10d.;
475.3 lbs. milk. 23.14 lbs. fat, 28.92 lbs.
butter. J. M. Steves, Steventon. B.C.
b. Edgemont Ida Mechthilde Sogia,
25476, 5y. 2m. 7d.; 536.5 lbs. milk, 22.41
lbs. fat. 28.26 lbs. butter. Dr. A. A. Fars-

well.

6. Netherland Francy, 19002, 6y, 10m.
30d.; 566.8 ibs. milk, 22.19 ibs. fat, 27.73
bbs. butter. C. P. Welcox, Chatham.
7. Lady Aagrie Netherland, 2039, 6y,
3m. 14d.; 478.1 ibs. milk, 21.76 ibs. fat,
27.20 abs. butter, Arbogast Bros., Sebringwills.

27.20 Bbs. butter. Arbogast Bron. Sebring-Thelma Mechillale. 1471.2, 5y. 1m.
24d.; 48.35 Bbs. mills. 20.96 Bbs. fat. 28.20
Bbs. butter. J. M. Steves.

3. Maple Grove Hesseltie DeKol. 2814, 6y. Im. 13d.; 38.21 Bbs. mills. 20.41 Bbs. fat.

10. Ladoga Idaline Veeman. 11230. 3y.
In. 14d. 282 Bbs. mills. 20.16 Bbs. fat.
28.47 Bbs. butter.

24.24 Bbs. butter.

24.24 Bbs. mills. 20.18 bbs. fat. 25.12 Bbs. this.

11. Ducheess Wayne Calamity, 10003. 3y.
In. 13d. 594.5 bbs. mills. 20.18 bbs. fat. 25.12 Bbs. butter.

24.24 Bbs. mills. 20.18 bbs. fat. 25.12 Bbs. butter.

24.24 Bbs. mills. 20.18 bbs. fat. 25.12 Bbs. butter.

24.24 Bbs. mills. 20.18 bbs. fat. 25.12 Bbs. butter.

24.24 Bbs. mills. 20.18 bbs. fat. 25.17 Bbs. butter.

24.24 Bbs. mills. 20.18 bbs. fat. 25.17 Bbs. butter.

25.25 Bbs. mills. 20.18 bbs. fat. 25.17 Bbs. butter.

3. Lady Pauline Colantha, 22560, 5y. 3d.; 499.6 lbs, milk, 18.99 lbs, fat, 23.74

lbs. butter.
14-day record: 1001.6 lbs milk, 37.11 lbs. fat. 68.39 lbs. butter. A. E. Hulet.
14. Bellfower's Pride, 11599, 9y. 6m. lbd.; 601.8 lbs. milk, 18.30 lbs. fat, 23.50 lbs. butter. I. J. Davis, Ingersoll.
15. butter. I. J. Davis, Ingersoll.
16. Greta Parori Posch, 18259, 7y. 6m. butter lbs. milk, 18.77 lbs. fat. 23.68 lbs. butter. s. butter. 14-day record: 1057.9 lbs. milk, 35.27 lbs. tt, 44.09 lbs. butter. J. N. Curriston

Brantford.

16. Hill-Creit Pontiac Pietertje, 22713, 5y, 10m. 27d.; 416.6 ibs. milk, 18.49 ibs. fat, 23.11 ibs. butter. Joseph O'Reilly. Peter-

50-1.

7. Angrie Emily of Riverside, 10252, 9y.

7. Angrie Emily of Riverside, 10252, 9y.

19m. 12d.; 565.6 lbs. milk, 17.99 lbs. fat.

12-49 lbs. butter. John Movnihan, Aurora.

18. Countess Cornella Mercena, 22534, 5y.

7m. 16d. 615.8 lbs. milk, 17.66 lbs. 225.34, 52.07 lbs. butter. A. E. Cornwell, Norwick.

wich.

19. Johanna Dewdrop, 28059, 5y. 19m.
14d.; 519.5 hs. milk, 16.54 lbs. fat, 26.85 lbs. butter. George Ruckle, Ingersoll.
20. Bess DeKol Schulling, 11678, 8y. 6m.
15d.; 612.2 lbs. milk, 15.86 lbs. fat, 19.83

196. butter.
 14-day record; 1196.0 lbs. milk. 30.43 lbs.
 15. day. Parls.
 21. Nettie W 's Belle DeKol. 22423, 5y
 19m. 71d.; 44.20 lbs. milk, 15.28 lbs. fat,
 19.11 lbs. butter. M. A. Ramsay, Downs-

view at A. Assensor, Downs view at A. Assensor, Downs view at A. Assensor, Downs at A. A

8d; 6000 lbs. milk, 24,01 lbs. fat, 30.02 lbs. butter
record 1545 bbs. milk, 46.85 lbs. fat, 51.02 lbs. butter. Fred T. Fife.
fat. 68.65 lbs. butter. Fred T. Fife.
7d. 68.65 lbs. butter. Fred T. Fife.
7d. 68.65 lbs. butter. Fred T. Fife.
7d. 68.75 lbs. butter. milk, 42.75 lbs. fat, 14-day record 1192.8 lbs. milk, 47.78 lbs. fat, 52.75 lbs. butter. A. Fitelt.
7d. 68.97 lbs. butter. A. E. Fitelt.
7d. 68.97 lbs. butter. A. E. Fitelt.
7d. 68.97 lbs. butter. A. E. Fitelt.

38-day record: 2542.0 lbs. milk, \$5.10 lbs. at, 106.38 lbs. butter. Dir. Exper, Farms,

Ottown.

4. Lody Reves Mercena, 27603, 4v. 11m. 20d.; 6514 lbs. milk, 20.81 lbs. fat1, 26.02 lbs. huter.

14-dav record: 1922.6 lbs. milk, 40.15 lbs. fat, 53.19 lbs. butter, A. E. 48elet.

5. Edgemont Pride Senie, 78475, 4v. 10m. 4d.; 514.9 lbs. milk, 20.74 lbs. fat 3.53 lbs. butter. Dr. A. A. Parewell.

6. Fair View Parfort Lodie, 2816, 5216, 4y.

Sm. 17d.; 506.2 lbs. milk, 17.79 lbs. 8a4, 23.15 bas butter. 4.6-day record; 1016.0 lbs. milk, 23.12 lbs. fat, 41.60 lbs. butter. E. C. Chambers, Hatchley Stn. 7. Maple Grove Blanch, 26359, 49; lin. 2d.; 406.5 lbs. milk, 16.18 lbs. fat, 13.8.8 lbs. butter. R. L. Hicks, Dalbouxie Jct., N.B.

ibb. butter. R. L. Bickis, Dalbousie Jet.
N.B. Juniter Four-Year Class.

1. Ladore Idalice Mercens. 26695, 49.

20. Ladore Idalice Mercens. 26695, 49.

21. Ladore Idalice Mercens. 26695, 49.

21. Ladore Idalice Mercens. 26695, 49.

21. Ladore Idalice Mercens. 26695, 49.

22. Ladore Idalice Mercens. 26695, 49.

22. Ladore Idalice Ida

Dutter. J. M. Steves.

Junior Three-Year Class.

Burkeys Hengerveid May Echo.

Burkeys Hengerveid May Echo.

1. Burkeys Hengerveid May Echo.

2. Shadelawn Lassie, 3661, 3y. 4m. 1561, 299.0 lbs. mlik, 16.49 lbs. fat, 20.61 lbs.

soll.
7. Lily Pauline Baroness, 43903, 2y, 14d.;
309.4 fbs. milk, 10.17 fbs. fax, 12.72 bs.
butter. Elsworth Plant, Burford.—W A.
CLEMONS, Secretary.

MARKETS FOR HOLSTEINS

MARKETS FOR HOLSTEINS.

46 THE West is becoming very greek
Pr. J. G. Rutherford, or marked
Dr. J. G. Rutherford, or Michael
Dr. J. G. Rutherford, or Alberta,
in his address at the Holstein-Friesan
banquel tast February.

27 Retherford the Traced the history
of the Holstein Friesan
House the Holstein Regard the history
of the Holstein St. With the email
foundation stock in the country at that
time, the breed green wonderfully in
green permitted the importation of its
head of Holstein-exite from Holland. At
a public sale, the builds in die own site.

"And the records behind these minds
did not been to compare with the green
inferior animals brought these prices casider what we may get in this touched,
what we may get in this touched,
steins in the stronghold of the Jersey, the
Guernsey and the Ayrshire."

WANTED!

a helper, "by the year," for The Experience Elmira Creamery. not necessary. Apply to

F. A. KEYES, Mgr. ELMIRA, Box 304, ONTARIO

Who Wants This 311 Herd Sire?

Who wants into 312 netto 311
Sire, King Segis Walker,
Dam, Pieters Leila DeKol.
31.43 lbs. butter 7 days.
He is now 4 years old, perfequiet, sure and active, a good has hellers and expect more next more next between the statement of the stateme

R. R. 5 Tillsonburg, Ont.

Mi De

March 14, 11

191 tion Au

and unt line are

rich voic

acte

King—only m sale, also a 3d lbs. butter in all ages.

Hust Into by feeding

Cream Sa Meal. milk-feed or water with our ca will get ju sults, at lo will be help the Allies food crisis. Calves a

Protein, 19 Order Co

The Ca

44.04

Reilly 15d.

87 lbs

y. 5m. 15.68

.03 Hba. s. Ste-

n. 2d. 84 lbs

2y. 3m. t, 17.37

05, 2y. t. 16.59

m. 4d.; 31 lbs.

815, ly. bs. fat, Inger-

The

ARIO

Sire?

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,

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 mascu-line 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.

HOLSTEINS

We have the only two sons in Camada, of the 46-lb, bull Ormaby Jane King—only mature son of the world's most famous cow. One of them for sale, also a 30-lb, calf, whose dam and two great-grand-dams average 38.4 bib. butter in 7 days. Also 11 bull onlyes of lesser note, and females of all ages. all ages. R. R. No. 4, PORT PERRY, ONT.

CALDWELLS

Hustle Your Calves Into the Beef Class

by feeding Caldwell's Cream Substitute Calf Cream Substitute Calf Meal. Save your whole milk—feed separator milk or water in combination with our calf meal and you will get just as good re-sults, at lower cost. You will be helping also to feed the Allies in this world food crisis.

food crists.

Calves always do well on Caldwell's Calf Meal, because it contains the food elements of whole milk in their proper quantities.

Protein, 19 per cent.; Fat, 7. per cent.; Fibre, 5 per cent.; Carbohydrates, 56 per cent.

Order Caldwell's Calf Meal from your feedman, or write us and will amost your properties.

we will supply you promptly

The Caldwell Feed & Cereal Co., Ltd. DUNDAS, ONTARIO

Makers also of: Dairy Meal, Molasses Horse Feed, Hog Feed, and Poultry Feeds of all kinds.

STANDARD FEEDS

R. O. P. CHAMPIONS

B. H. BULL & SON, BRAMPTON, ONT.

=EXPERIENCED HERDSMAN WANTED=

To take charge of dairy herd of Kemptville Agricultural School. Free house supplied to married man. Apply, giving references, and stating experience to

W. J. BELL, Principal . KEMPTVILLE, ONTARIO



Write for booklet.

W. F. STEPHEN. Secretary Canadian Ayrshire Preeders' Association Box 508, Huntingdon, Quebec.



10-15-20

T. E. Bissell, Co., Ltd., Elora, Oat.

LAKESIDE AYRSHIRES -

A choice selection of young bulls for sale from Record of Performance dama, imported and Canadian bred. Sires: Authenbrain Sea Foam (Imp.), 3578; many times grand champer Fairfield Mains Triumph (Imp.), 5117; a son of the noted Hobalams Perfect Piece. Write Scaleborge.

logue.
Proprietor:
GEO. H. MONTGOMERY
sinion Express Bidg., Montreal.

Manager: D. McARTHUR, Philipsburg, Que

Southern Counties

AYRSHIRES BREEDERS

6th Consignment Sale



Pure Bred Ayrshire Cattle

50 HEAD 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 President Mt. Elgin, Ont

Moore & Dean Auctioneers

John McKee Sec. & Sales Mgr. Norwich, Ont.

You'll Find the Advertisers in FARM AND DAIRY advertising reliable goods. They want to know you; also want to know you saw the Ad. When writing them don't forget to tell them you saw the Ad. in FARM AND DAIRY.

A 35 lb. BULL

COMET BLACK KNIGHT—Born November 15, 1916, a good individual, dark in color. Dam—MIDNIGHT COMET DEKOL, where the color is the color of behind him. Price for quick 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 helfers, who have 5 sisters that gave over 100 lbs. milk each day in 1 day last spring, and averaged 30 lbs. butter in 7 days. Their dams are sisters to MAY ECHO SYLVIA and LULU KEYES. They are bred to KING SEGIS ALCARTRA SPOFFORD.

Also a 2-year-old daughter of "KING" and 1 young buil fit for service. These are straight as lines, almost perfect individuals.

BEN R. LEAVENS, - - - BLOOMFIELD, ONT.

LANINGDALE STOCK FARM

HOLSTEINS Offers for Sale to has 4 E.D. M. Assightors.

2. Sale of the sale of

ALLUVIALDALE STOCK FARM

Offers For Sale

Young Holetein Bulls and Cowe, grandons of KING SEGIS, Sire's 7 nearest dams average 30 lbs. Prom A.R.O. dams, some ready for service, good individuals, half to seven-eighths white. Send for photos, pedigrees and prides. THOS. L. LESLIE - Norval Station P. O. - MALTON CO., ONT.

= BROOKSIDE HOLSTEINS ==

We offer for sale 2 grandsons of JOHANNA SUUS, who carries \$1 k/k blood of \$\frac{1}{2}\$ blood of \$\frac{1}{2}\$ start COLANTELA ZOLANTELA ZOLANTELA DOLANTELA ZOLANTELA ZOLANTEL

ONLY ONE LEFT

of last year's crop from FAIRVIEW KORNDYKE BOY, No. 16342, whose first 10 daughters, the only ones then of milking age, averaged 19.64 lbs. butter in 7 days, and whose sire is PONTIAC KORN-

DYKE, 145 A.R.O. daughters.

Dam of bull is HESTER PIETJE 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, 12 months old, excellent 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 The Maple Lane herd is one of the smaller but select herds of high testing floatiens in Bastern Ontario, and while Mr. Washing-ton has done very little testing, the herd was founded with only the "Seet," from high-record families, including the blood of such noted sires as Hengerveid DeKel, King Segis, Abbey Hartog Cie-thide, Pietretje Hengerveid Count DeKel, Paul Beste DeKel, etc. There are thirteen females, including a number of heavy milking own and colves frashenitus soon. cows, and others freshening soon.

Write for particulars and watch these columns for further particulars. Address all correspondence to

N. S. Washington, Maple Lane Farm Solina, Ont.

"FIFE May and or registered, record
"FiFE May and the second that a special feature of interest to mindreds of
"Interest to mindred the second that a special register of the second that a special register of the second that a special register of the second that a special record black and whites. Their offering of 30 head of these animals should therefore attract
"Femiles in the sale will run all the way from 31-th. Junior two-year-olds updale Pielja Abbelerk is one of the loft with 30-64 lbs. butter and 66-30 lbs. milk in record days. Another good own with the second way. Another good own with the second way. Another good own will be milk and 26-86 lbs. butter. There or two-year-olds, all well above the 20-lbs. rolls and 26-86 lbs. butter. There or two-year-olds, all well above the 20-lbs. record, and a number of junior two-year-olds. A complete list of the record femsiles is siven in the advertisement of the Allison Stock Parm. See the second of the secon

opportunity of securing foundation stock. Catalogues and all other information will be sent on request.

SHERRICK BROS. SALE.

SHERRICK BROS. SALE.

Tilly elements certainly favored Sherprevailed for their sale at Bethesda
on March 7. A large crowd-of buyers
were present and good prices were whitchinery. The 38 head of pure-bred Holselina sold for 14,600, an average of 111chinery. The 38 head of pure-bred Holselina sold for 14,600, an average of 114chinery. The 38 head of pure-bred Holselina sold for 14,600, an average of 114chinery. The 38 head of pure-bred Holselina sold for 14,600, an average of 114chinery. The 38 head of pure-bred
Leck Chay, a seven-year-old cow, which
brought \$446. Perhaps the best "bay" of
Bress herd aire, a son of 114a Sylvia
Head Ponch, and a brother of the great
May Bobe Sylvia, Head-erson Bress, of
Owen Sound, being the purchasers. Henderson Hoes, are now stars in the Holderson Hoes, are now stars in the Holherd.

We be salitable setting of 410 mr.

We be salitable setting of 410 mr.

way effecting their ment since of the near content of the near con

GOOD STOCK MOVING LIVELY.

QOOD STOCK MOVING LIVELY.

In sending us notice to discontinue bis advertisement, as he has already advertisement, as he has already in the property of the pr

HERE'S A TOP NOTCHER

Sire-KING SEGIS WALKER.

Dam-30 lb. daughter of PONTIAC KORNDYKE. He's only a baby, but he will grow.

A. A. FAREWELL

OSHAWA, ONTARIO

ENTERPRISE HOLSTEINS =

20 head, caives to mature cows; males: I calf and our stock bull of 2 years: foundation stock, mostly from D. C. Platt & Sons' and E. F. Oalse's herds. There is a selection of 19 years' streeding, with a view to continue in the business but owing to the condition of our health we offer all for sale. Enterprise, C. N. R. 28 miles; C. P. R. Lens, ½ miles.

. ENTERPRISE, ONT THOS. WILSON & SON - R. R. NO. 1 (Addington Co.)

CHOICE YORKSHIRE HOGS AT RIGHT PRICES

Boars and sown, all ages, from best prize-winning strains—a few good bred zows, also younger stock. S. C. White Legborn eggs for batching—Bar-ron's 23-eeg strain. S. S. Brown Legborns, Barred Rocks, R. I. Refs., 32 per 15; 419 per 100. Fawn and White I. R. Duck eggs, \$5 per 11. Chinese goos-eggs, \$60 each.

T. A. KING

MILTON, ONTARIO.

ONLY ONE LEFT -

A fine show buil, sired by KING SIGGIS ALCARTERA CALLAMITY, and est of a 22,000-ib. grand-daughter of COLANTHA JOHAN-NA LAD. Also 2 choice high-grade Hoistein cows.

MICHAEL A. ARBOGAST Fineview Stock Farm, R. R. No. 3 Stratford, Ontario.

FOR MILK, BUTTER, CHE SE, VEAL Heistein cows stand supreme. If you try just one animal you will very soon want more. Write HOLSTEIN FRUSSIAN ASSOCIATION.
W. A. CLEMONS, Sec., Ontario BROWN BE

march 14, 191

William In Committee of the Committee of

of King Pontiac A a 18.85-10. two-year is a fine large, lig is one of the most: Bros. herd. She is old, and a daughter Pietje.

These are fine gre Brown Bros. have class line of stock have an excellent re at the larger fairs.

nave an excellent re at the larger fairs, R.O.P. and R.O.M. desirous of obtains blood obtainable, we touch with these b of securing some of ings.

W. A. MEADO

Brillionnie of the will be interestable of realize and re

A FINE YOUNG S

M. R. Rebert C. Zaz.

M. C. Ont., In sends
Ont., In

BROWN BROS .- HOLSTEINS.

BROWN BROS.—HOLSTEINS.

WHILE in Eastern Ontario recently,
our representative called on
Messers Brown Bros. of Lyn, Ont.
Messers Brown Bros. of Lyn, Ont.
The Messers Brown Bros. of Lyn, Ont.
The Messers Brown Bros. of Lyn, Ont.
The Messers Brown Bros.
One of them is a Li-month end of the Messers
And Present Bros.
One of them is a Li-month of the Messers
Administration of the Messers of the Messers
Administration of the Messers of the Messers
Administration of the Messers of the Messers
Administration of the Mes

ughters, they also offering two grandsons King Pontlac Artis Canada, one from 18-5-D. two-year-old. Their sire's dam a fine large, light-colored cow, which one of the most notable cows of Brown cs. herd. She is a 27.6-lb. four-year-and a daughter of Prince Hengerveld.

Prije. as one growthy are relatively as the growthy are relatively as the growthy are related to the growthy are related to the growth are related to the growth as a casellent retord in the show ring, have an excellent retord in the show ring. R.OF. and R.O.M. Breedens who are desirous of obtaining some of the past touch with these breeders, with a cut of a carring some of these excellent offerface.

W. A. MEADOWS' SALE AT

W. A. NELOUWS SALE AT MINOTOWYILLE.

B. PERIDDENE of the Blanch and Whites will be from the Blanch and Whites will be from the Blanch and William State of registered and high-grade Blatch at the base of the Blatch and the Blatch an

A FINE YOUNG SIRE AT LANING.

A FINE YOUNG SHE AT LANING-DALE.

M. DALE.

M.

70 Head

OXFORD BREEDERS' CLUB

Will Hold a Consignment Sale of

70 Head

REGISTERED

Holstein-Friesian Cattle

at Dr. Rudd's Sale Stable

in the CITY OF WOODSTOCK, March 20, 1918

The cattle consigned will make this the best sale the Club has ever offered. They are always in spected and always sold. A few choice bulls, ready for service, dams records up to 33 lbs., and a near set dams average 30 lbs. for 7 tays. Choice heifers; springers; cows in calf; a 28 lb. cow sired by PRINGE ECHO SYLVIA; sisters to Canadian Champions, and blood of MADAME POSCH PAULINE, DIEDER BRONESS, ROYALTON DEKOL VIOLET, with a record of nearly 30,000 lbs. milk

Write W. E. Thompson, Woodstock M. L. Haley for Catalogues MOORE & DEAN, Auctioneers

Manager

Elmaple Stock Parm is offering an 11 months' old Holstein buil, aired by KIRG SEGIS ALCARTEA STOPPORD. a son of the \$50,000 and Segis Walker Pieterle, by Count Segis Walker Pieterle, by Count Segis County of the Segis Segi

and his dam. Will also sell a half-sister of MAY RCHO SYLVIA, 3 years old, due to freshen last of March to a full brother of a 34-b. cow. Her dam is a full sister to dam of above buil, Her breeding and individuality are hard to beat. Priced reasonable.

R. R. No. 1, Bloomfield, Ontario

SEEDS-Timothy No. 2, \$4.75 bushel; Alsike clover, \$13; new bags, 45c. Write for samples. A. Bingle, Grimsby, Ontario.

AUCTION SALE . OF 47 HEAD Clydes Holsteins and Clydesdales Malton, Ont., March 19th, at 12 o'clock

This is an excellent opportunity for breeders on the lookout for some choice anismals to procure procure from the solid or solid or some choice anismals to procure procure from the first of the solid are grand daughters of the cast to my herd sire. Count tenh portage as the great King Pet in cast to my herd sire. Count tenh portage as a solid or solid

C. SLAVIN R. R. 4 Malton, Ont. J. K. McEWAN, Auctioneer

EVERGREEN STOCK FARM

HOLSTEINS

OUR CONTRIBUTION TO THE

Oxford Holstein Breeders' Club Consignment Sale TO BE HELD IN THE CITY OF

Woodstock, Ont., on Wednesday, March 20th WILL CONSIST OF

1. Lady Veeman Abbekerk, 27,013, 4-years-old, Record 804.4 lbs. milk and 28.54 lbs. butter in 7 days, individually one of the largest and finest cows of the breed.

Lady Keyes Mercena, 27,603, 4-years-old. Record 651.4 lbs. milk and 26.02 lbs. butter in 7 days, a very fine individual, and winner of several good prizes.

3. Shadelawn Lassie, 36,615, 3 years old. Record 499 lbs. milk and 20,61 lbs. butter in 7 days—an outstanding individual with great promise

outstanding individual with great promise.

4. Madam Pauline's Sir Abbekerk, 34,149, 3 months old. Individually as near perfect as you can get them, large, smooth, straight and beautifully marked, more white than black, and his breeding its equal to the very best Canadian bred buils, the records of his four nearest dams averaging 22.65 lbs. of butter in 7 days, and 107 lbs. milk in 1 day. Also, his four nearest dams have all been first prize winners at Toronto Exhibition, and have all been raised on this farin, and none of them weigh less than 1,600 lbs. We consider him a good prospect for any one wanting the best.

Prince Colantha Sylvia, 31922, 10 months old, and nearly ready for light service. This bull, like preceding one, is as near perfect as possible, and his twelve nearest tested dams average nearly the preceding one, 30 lbs. butter in 7 days.

The above are the best lot we have ever consigned, and any of them would look good in

A. E. HULET

NORWICH, ONT.

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

Another Great Bargain

KING SYLVIA FAYNE 33896

This calf was born Nov. 22, 1917. A shade more black than white. He combines the BEST in PROVIN type and production, as his sire is a bibliotion as a senior calf in 1916—form of ret at the Canadian National States. State of the Canadian National States. The Canadian States of the Canadian National States. The Canadian States of the Canadian National Nati

Write at Once for Extended Pedigree and Price

W. G. BAILEY, Oak Park Stock Farm R. R. No. 4 PARIS, ONT.

SUNNYBROOK FARM HOLSTEINS

We are offering at a most reasonable price 5 young bulls of serviceable age. These are from approved dams, testing from 18.37 to 29.34 in 7 days; must be sold at once. Write for Particulars.

- North Toronto Jos. Kilgour - Eglinton P.O.

---Remember=

35 HEAD

35 HEAD The sale of HOLSTEINS to be held at TAVISTOCK on

MARCH 19th at 1 P.M.

TRAINS WILL BE MET ON DAY OF SALE

Noah S. Bender

TAVISTOCK, ONT.

DISPERSION SALE=

HEAD HOLSTEINS HEAD

At Fairmont Newtonville Station of Port Hope

C.P.R. and G.T.R. on

Wednesday, March 20th, 1918

at 1 p.m.

Included in the sale will be our herd sire KING SEGIS AL-CARTRA HENGERVELD, son of King Segis Alcartra 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-year-old 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 freshen shortly, being bred to above herd sire; also a senior yearing bull by Inka Sylvia Plus, and EVERGREEN PAULINE.

Also 12 high grade Holstein cows of 20 years' selection, just fresh, or due to freshen. Three 2-year-old springers of excellent breeding; five calves; horses and farm machinery will also be sold.

This herd has had a splendid reputation as producers. Last year returns from Farmer's Dairy, Toronto, were \$170 per head, besides a large quantity kept at home for calves, house, etc. The herd is in perfectly healthy condition. For 20 years no cow in the herd has falled to have a healthy calf each year. An excellent reputation and a safe place to buy.

For further particulars write,

W. A. MEADOWS, R.R. No. 3, Newcastle, Ont.

F. R. Mallory, Sale Manager.

J. W. Wilson, Auctioneer.

MARKET REVIEW AND FORECAST

Beef prices are good for any well, Buish-ed animals, but unfortunately many steers are coming on to the market under scarcity of grains. Daily cattle are beinging in good prices with grade milch cown fetching from \$75 to 2500. The number of sales of pure-bred dairy stock is phenomenal. Prices for hogs are keep-ing up well and small pigs are selling at \$14 to \$15 a plar in many parts of at \$14 to \$15 a plar in many parts of

ing up well and small pigs are selling at 314 to 315 a pair in many parts of There is very little movement in the grain market. A few cars of Western wheat are moving east to keep the mil-to-grain market. A few cars and extended the self-mough there is an active demand for the commodity. With feed corn quoted at a commodity with feed corn quoted at a commodity with feed corn quoted at a commodity. With feed corn quoted at able even at that pice because of the leavy export demand from the U. S. Government of the control of the

Wheat.

Wheat

Bayers state that there is no Ontario
wheat being offered in spite of the keen
demand on the part of the millers. While
15 to 20 cars of Western wheat is being
sent to Ontario millers by the Wheat
sent to Ontario millers by the Wheat
tenth of what could be used by the miltent. What wheat is coming east is being
sold on the basis of the Gevernment's
racel price in the state of the Gevernment's
Amenitona wheat "All The Contern at
\$2.55\text{W} with freight extra
Manitona wheat "All The Contern at
\$2.55\text{W} with \$1.50\text{W} on the contern
\$2.75\text{W} on 2 northern, \$2.75\text{W} on 4
wheat, \$2.10\text{W}.

Coarse Grains.

Outs are practically the only grain sealing freely on Ontario markets. While prices at country points ange, all the offices are outsty points ange, all the dealers are buying most of their supplies at 97 to 95c country points. There is no movement in American corn at present and easiers do not look for any improvement until the export demand for haif a million bashed is estimated. Supplied to the country of the country of

haff a million bushels is sectated, Quotationate—
American Corn.—No. 3 yellow, kilnAmerican Corn.—No. 2 C.W. 99\scr No.
2 C.W., 9\s\scr extra No. 1 feed, 9\s\scr extra
Manilobo onto—No. 2 C.W. 10\s\scr extra
No. 1 feed, 9\s\scr extra
No. 1 feed, 9\s\scr extra
No. 1 feed, 9\s\scr extra
No. 2 E.W.
10\text{100} feed, 10\s\scr extra
No. 2 E.W.
10\text{100} feed, 10\s\scr extra
No. 2 E.W.
10\text{100} feed
1

Mill feeds are very scarce at any price on account of the small adjulled of wheat that are being milled. To contic quotes are to the continuous continuous and the co

Considerable hay in being disposed of at prices wavefus from \$16 to \$18 a ton. Townste quates for No. 1 on track, \$17 to \$18; mixed, \$14 to \$18, white car lots of straw are reteching \$5.00 to \$5 a ton. Montreal quotations, for No. 2 hay, in car lots, \$17.

Wholesalers are paying the	foll	owing
prices for seed at country point	to	\$13.00
do, No. 1 ordinary 11.75 do No. 2, per bushel 10.50	T.O.	12.20
do No. 3, per bushel 8.00 Red clover, No. 2, bush 13.00		
As No. 2, ner bushel 16,80	· to	17,00
Timothy, No. 1, per cwt 10.50 do No. 2, per cwt 8.75	T.O	0.00
do No. 3, per cwt 6.75 Flax, bushel 3.25	$_{\rm LO}$	0.00

and Delawares at the same price, \$2.25 a bag. Montreal quotations are a fittle iower than last week, some car lets of Critario whitea selling as low as \$1.75 per of store and selling as low as \$1.75 per of store at \$2.25 to \$2.25 for Green Mountains and \$2 for Ontario white stock per \$1.00 bag. The selling and \$2 for Ontario white stock per \$1.00 bag. The selling and \$2 for Ontario white stock per \$1.00 bag. The selling and \$2 for Ontario white States Sovernment commandered all American white beams. Supplies coming on to the are not inclined to quote prices. Molders, however, are asking as high as \$1 for white beams. Townsing succidents remained to the selling as \$1 for \$1.00 bits of \$1.00 bit

Eggs and Poultry.

Eggs and Positry.

The customary spring break in the prices for aggs came hast weak when the market dropped about Ite. The drop in a spring the prices of a great country in a supplier of eggs coming in, but we in sympathy with the rapidly declining market in the United States. It is prices which have been reached, will speed up consumption and that some prices which have been reached, will speed up consumption and that some the prices which have been reached, will speed up consumption and that some the prices which have been reached, and a special property of the property and the property and the prices which we are applied as the prices however, are tempting, perfectionary in the smalled property are very light, prices however, are tempting, perfectionary in the smalled the Jewish trade. Toronto is quoting the Jewish trade. Toronto is quoting

Liv	e weight.	Dressed
Chickens, spring Hens, under 4 ths. Hens, over 4 lbs Roosters Ducklings Turkeys Geese	20c to 28c 25c to 38c 20c to 00c 25c to 00c 30c to 00c	25c to 00c 28c to 00c 20c to 00c 27c to 00c 35c to 00c
Dalry	Produce.	

Daily Produce.

Since the removal of the compet of alconarravine by the United Scenarios and the same of alconarravine by the United Scenarios and the same of the

LIVE STOCK.

Childe receipts last week exceeded of the previous week, though the previous week, though the convertant hose of the week left that the convertant hose of the week left that the convertant hose for the first three was steady at \$19.75 fed, and was ready at \$19.75 fed, and was recovered and water week left that the convertance of the convertance of the convertance will be shown to be converted to the convertance of the convertan

Heavy steers, choice...\$ 12.00 to 1 11.00 do 11.10

Rutchers' steers and			
helfers, choice	11.25		11.78
	10.85		11.25
do medium	10.25		10.68
do common	8.75		2.78
Butchers' cows, choice.	10.00		10,8
do good	9,00		3.50
do medium	8.00		8.71
do common	6.75		7.00
do canners	.6,00		6.21
Butchers' bulls, choice.	10.25		10.7
do good	9,25		9.71
do medium	8.50		5.0
do common	7.75		3.0
Feeders, best	9.50		10,3
Stockers, best	9.50		9.71
Grass cows	7.00	10	1.1
Milkers and springers.			
choice	100,00	20	135,00

choice	100,00		135.00
do com. to medium	85.00	\$40	10.88
Calves, choice	35.50		17.05
do medium	14,00		15.09
do common	8,00		10.09
Heavy fat	11.00		11.55
Lambs, choice	18.50		19.69
Sheep, choice handy	13.00		14.09
do beavy fat and bucks	11.50		13.50
Hogs, fed and watered	19.75		15.99
do, off cars	20.00		20.15
do f.o.b	18.75		00.00

tatoes are arriving more freely on S. Louis St to 32 on light or thin heat see markets. Toronto quotes Ontario's 500 ts, \$1 on heavies.

March 44, '25

anada the was pip during the a verage \$63.63 f male help, as 1.46 in 1916. P g board, the wa alea and \$364 f ith \$337 and \$23 lue of board p 9.44 for males a majored with \$1 males in 1916. The wages per males respectivel in, including b ince Edward Ip Average Value of On the whole the ported in the value of the pomined stationary

Allis

r cattle, sheep ues are substai r, and are high r for which r ted. For Canad ses, three year compared with rs are \$84 as

greatest s ters of Ke In the eighteen ; first ten d

Sir Riv His aire blood of E letertje H Col, through and, three

One 29. Eleven

FARM VALUES IN CANADA.

March 44, 2858.

FARM VALUES IN CANADA.

THE Consus and Statistics Office at Consus and Statistics Office at Compile from the reports of correspondent at the und of January, 1918. The confirmation of the state of the state of the state of farm land. It is not consulted from the property of farm land. According to the returns received, the return received, the return received, the state of Average Values of Farm Land. According to the returns received, the return received, the return received the received of the return received the return return received the return return received the return return return received the return retur

Average Value of Live Stock and Wool. Average Value of Live Stock and Wool. On the whole there is but little change reported in the value per head of horses, in some of the provinces the value has remained stationary, or has even declined, values are substantially being the way of the value has remained stationary, or has even declined, values are substantially them. In we work values are substantially the has no any previous your for which records have been collected. Pur Clanada, the average value of borses, there sears old and over, is \$157, which we would be substantially sub Woost one year and three years, average 452 against 452 sheep see 244 32 verage 453 against 452 sheep see 244 32 verage 150 against 452 sheep see 244 32 verage 150 against 11.25 per cwt. The average value of the control of the cont

of farm live stock exceeds one billion of farm. LOWBANES NOTES.

READBIRS will notice the advertisement of Mr. K. M. Dalpteish, of ment of Mr. K. M. Dalpteish, of young Holsein buil. Our rong a choice visited Mr. Dalpteish recently, and was young Holsein buil. Our rong a choice visited Mr. Dalpteish recently, and was provided in the control of the control of particular interesses with his bard of particular in the state of the control of particular in the control of the control of particular in the control of t

43 HEAD

THE DUNROBIN FARMS

DISPERSION SALE OF

Registered Holsteins

The property of Cel. John A. Guns WILL BE HELD ON

Friday, April 5th, at The Union Stock Yards, Toronto

Inadequate railway service and scarcity of efficient help compel us to go out of dairying. The bard is being sold in Toronto as train connections for Beaverton are not good for buyers from a distance. Some 30 of the herd bred to Echo Segis Champion, whose sire is a full brother of

For Catalogue (ready March 15th) Apply to

The Dunrobin Farm, Beaverton, Ont.

CHOICE BULLS READY FOR SERVICE

Some extra choice young buil caives from \$200 to \$1,000. We have sold thirty-five bulls this winter. No. I—By a son of MAY EXHO SYLVIA. His two nearest dams (both Canadian champions), average 35.62 lbs. butter in seven days. Price \$1.000.

31.000. By a son of MAY ECHO SYLVIA. His two nearest dams (one a four-year-old), average 34.17 lbs. butter in seven days. Price \$600.

HIGHLAND LAKE FARMS

R. W. E. Burnaby Farm at Step 55 Yonge Street Radial

Jefferson, Ont.

LAKEVIEW STOCK FARM

offers for sale sewered daughters, grandsanghters and grandson from the following cows—LAKEVIEW HATTLER: 57.4 and grandson from a discount of the control of

Major E, F. Osler, Prop.

BRONTE, Ont. T. A. Dawson, Mgr

Allison Stock Farm Sale of Holsteins

At Chesterville, Ont., March 21, 1918

"A RECORD SALE OF RECORD HOLSTEINS."

You will find this sale an opportunity unexcelled for buyers of Holstein cattle. It will be one of the You will find this sale an opportunity unexcelled for ouyers of howten cathe. It will be one of the greatest sales of registered Holstein Cattle ever pulled off in Canada, the offering consisting of some of the most noted strains of the breed. There will be thirty-five daughters of Sir Lyons Segis, ten daughters of Kir Lyons Segis, ten daughters of Kir Lyons.

tors or samp seems accurate resuse and ten daugmers or but reversale Euro Lyons.

In the offering of eighty head there will be thirty mature cows, seventeen two-year-old heifers, eighteen yearling heifers, and mine bulls. Forty head of the females have been bred to Riverdale Lyons Euro Posch, 700 Ibs. milk and 33.78 lbs. butter in 7 days, and whose first ten dams average over 30 lbs. Remember that the dam of this bull is a full sister of May Echo Sylvia. The best the breed affords is offered you in this sale. You cannot afford to mise it.



The offering will consist of thirty mature cows, seventeen 2-yr-old heifers, eighteen yearling heifers, nine bulls-

Herd Sires

Sir Riverdale Echo Lyons.

11.50

hir Rivergale Echo Lyons.
His sire unites the wonderful
shood of King Hengerveld and
pleately Ingraryeld Count DeKon, through Betta Lyons NetherKon, through Betta Lyons NetherKon, through Betta Lyons On and
King Segis Payne. His down and
dam of the wonderful May Echo
sjivia, and is the only cow of the
breed having four daughters each
shown 500 He. mik in f days.

Riverdale Lyons Echo Posch.
As an of King Pieter, a son of the suppose Sash. cow. Filanche Lyons Echo Posch.
As an of Sash. cow. Filanche Lyons Established Sash. cow. May Echo Yorbelle. She is, therefore, Posch from the 29-th. cow. May Echo Yorbelle. She is, therefore, who has a record of the Sylvia Work Lyons Established Sash. Company of the Sash Sash.

28 July 12 July 1

This bull's sire is from the \$50,000 bull. King Segis Alcartra. His dam is a cow of great capacity and fine breeding, by Pledge Spofford Calamity Paul, former world's champion 4-year-old 7 day butter producer, Fairmont Zerma Segis Six daughters of this buil are in the sale

Sir Lyons Segis.

The dam of this built is from the noted three times 20-lb. cow, Betta Lyon Netherland, by the great King Segia. His sire is from present the segion of the s

Some Females and their Records

orndale Pietje Abbekerk ... 650.80
agnie Hengerveld Burke 2nd 564.90
orum Hengerveld DelKol 1rd 646.20
autine Cornacopia DelKol 576.10
alsy Pearl ... 570.80 Specials-We have catalogued for this sale;

Two 100 h. cows. One 30 h. cow (record made twice).

One 25.56 h. cow One 25.50 lb. cow.

One 25.56 h. cow One 25.50 lb. cow.

Five number with butter records averaging above 20 lbs. each.

Five number with official seven day butter records averaging over 39 lbs. each.

This herd must be sold because we have decided on account of the great shortage of labor, to sell 225 acres of our 400 acre farm. This farm will be offered for sale by auction on the above-mentioned date.

TERMS OF SALE—The terms of sale will be six months' credit without interest, or three per cent. off for cash.

Riverdale Lyons Inka, Jr. 2. 324.00
Aaggte Hengerveid Segis, Jr. 2. 301.20
Beasie DeKoi Korndyke, Jr. 3. 341.40
Riverdale Forum Segis Hengerveid, Jr. 3. 330.40

Write To-day for Copy of Catalogue.

ALLISON STOCK FARM, W. P. Allison, Prop., Chesterville, Ont.



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

Parliament Buildings, TORONTO



Sir Wm. H. Hearst,

Minister of Agriculture

Dr. G. C. Creelman,

Commissioner of Agriculture

ONTARIO