RM AND DAKE, RURAL HOME,



Peterboro, Ont., April 27, 1916



Capacity

The Development of the Dairy Heifer By Prof. Barton, Macdonrid College.

The Control of Contagious Abortion Hyglenic Measures Recommended

The New Dairy Act An Outline of its Features. Luiu Keyes-Owned by D. B. Tracy, Cobourg, Ont.

Success With Alfalfa Some Practical Suggestions.

Interior Decoration Scheme For Farm and Dairy House, No. 6.

Many Practical Articles On Timely Subjects.

The "SIMPLEX" Cream Separator

herewith, is a convenient mato operate. he supply can is low down, and yet the discharge pipes are highs enough up to discharge into standard sized

The machine is easily acce ible for cleaning. It is substan-

It will pay you to know all about the "Simplex." There are exclusive features on the "Simplex" not to be had on any

In addition to the mechanical construction which is all to the good in your favor, we are sure that there is no manufacturer using a higher grade of material than we use in the "Simplex" separators. Take for instance, the bowl spindle, it is made of a special formula, furnished by one of the best metallurgists in the country. In fact, the consulting metalludgist for the leading manufacturers of American automobiles

This steel is subjected to a special heat treatment, whereby it has an elastic limit, three times as Bigh as ordinary steel. The same is true of the boot cover, and of the raddle point or pinton, that meshes with the largee spur wheel. It is made of Vanadium steel, or nicipel steel, of the same kind that is used in the transginsion gears in the best grade of same kind that is used in the transginsion gears in the best grade of same kind that is used in the transginsion gears in the best grade of sattombolies. We believe that we are the first to use these appeals alloy

The "Simplex," as far as we are able to Judge, represents a higher manufacturer's cost than any other separator on the market. The two Heas-Dright Bearings that go in every "Simplex" Hand Separator, cost more than all the bearings put together in most other cream separators. And yet on account of he large number that we import, single orders covering over 10,000 bearings at a time, we are able to furnish them as extras at a reasonable price, so that the cost of repli

We believe that "the proof of the pudding is in the eating." We allow you to try out the "SIMPLEX" on your own farm.

Write us to-day for free illustrated literature about the "Simplex." Arrange to have a "Simplex" Cream Separator on your farm. Then you will make sure that the "Simplex" is the best cream separator for you.

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The favorite everywhere it goes Note its beauty and heavy compar-construction, with low-down, had supply can only 3½ ft. from the flee

Milk Fever and Its Treatment Irving M. Avery, in H. F. Register

disease was pretty generally con-sidered fatal, and the unfortunate dairyman took his loss resignedly and sald "Kismet," or perhaps other words said Alsmet, or perhaps other words to the same effect. To-day, however, the situation is changed and authorities claim that less than five percent, or one out of every twenty only, of the animals afflicted die of this disease; and so this dread malady, which in the past has been the cause of heavy losses in the dairy herds of this and ther countries, because of the wonderful efficacy of the so-called sterilized air treatment, and the in-creasing familiarity of dairymen with its every-day use, no longer has the power of inspiring the fear in the mind of the average man that it once

one may understand I will try to call attention to this comparatively new treatment and to consider the dis-ease, its causes and effects. It is almost impossible in a short article of this kind to write anything of any particular interest to experienced breeders or anything that has not already been said, in some form or other, many times before. That is not the idea, but, rather, to outline my own experience as clearly and simply as possible for the benefit of the lay-

average man reads "parturient paresis," or a "plethora of blood plasma containing an excessive percentage of glycogen" and he is apt to become discouraged, and no Well, all this is only a very wonder. Weni, all this is only a very high-sounding and rather difficult way of saying just plain "milk fever," al-though to be exact, the disease is not really a fever at all, but anemia or lack of sufficient blood in the brain, brought on (or as a technical treatise might say "superinduced") at the time of parturition, or calving, by excess of blood in the excess of blood in the udder with a consequent uneven distribution throughout the circulator; system, re-sulting in anemia of the brain and a form of apoplexy

The Theory of Treatment.

The theory of successful treatment is so simple as to be readily under-stood by every dairyman once a clear comprehensive and thorough explana-tion has been made him. It consists merely of the proper inflation and distention of the udder by pumping in sterilized atmospheric air, thus relieving congestion and bringing about return to normal distribution ood throughout the body. So far as know, no animals other than mileh cows are subject to this disease and usually attacks only those in the best condition and the heaviest milk It rarely makes its appearance until the animal is at her best, usual ly from about five to seven years of age, and cows having had one attack are predisposed to the disease and more liable to affliction than in the of those that have never suffered from it. Heifers with first second calves are almost entirely free from it and I believe it is rarely manifested in cows over eight or nine years old whose milk yield has com-menced to decrease somewhat.

menced to decrease somewhat.
The symptoms are lucklily very well defined and easy to recognize once one becomes thoroughly familiar with them. The animal is constipated, because of the approaching paralysis of the bayels; is extremely restless; looks wild and staring from the eyes and stamp. Later on the will stagger and stamp. Later on the will stagger and stamp, Later on the will stagger and stamp. The paralysis of the paraly

O'T so many years ago the words invariably dropping upon the right "milk fever" and "total loss," side, with the head drawn around to were almost synonymous. This the left and admost touching the disease was pretty generally considered tatal, and the unfortunate paralysis by this time having become distyman took his loss resignedly and general and if the attack is severe add "kilment" or perhaps other words. and far enough advanced, she appears to all intents and purposes unconscious and may be handled at will. The eyes are observed to be fixed and glassy, and the body apparently insensible to any pain. The limbs may be placed in any position desired without the least resistance and the victim appears to the inexperienced very close to death. Right here it would be advisable to send an S. O. S. call for a veterinarian unless you are familiar with the handling of such cows and have at hand the necessary appliances and help, in which event expert assistance may hardly be

First Stage of Treatment.

If a competent veterinarian is sum-moned the proceedings on his arrival will be somewhat as follows: He will first of all order plenty of clean bedding and have the animal propped up from underneath the right side by means of bags filled with straw or some such contrivance, so that she may rest as nearly as possible upon the breastbone, the object being to take the weight off the right lung and thus relieve her respiratory action Next he will carefully wash the udder with antiseptic soap, placing a clean bag or cloth underneath to keep the parts clean; after which he horoughly disinfect the parts with a four or five per cent solution of ly ol, pure carbolic or other equally good

The apparatus used for ipjecting air into the udder is very simple and consists of a rubber bulb to be comcomes an air chamber or reservoir of about the same size to regulate the pressure, and then comes several feet of ordinary rubber pipe or tubing halfway of the length of which is inhalfway of the length of which is in-cluded a small metal eyilinder filled with carbolized co'ton through which the air passes, and on the extreme end of the rubber pipe is fixed an ordinary miking tube. The utmost care should be taken during the oper-ation to avoid all danger of infection and thus prevent ighammation of the udder or caked bag, with the possible loss of one or more quarters later on noint cannot be too emphatically emphasized. The milk tube should be boiled for at least ten minutes before use and then placed in a jar containing a five per cent, solution of the antiseptic solution at hand and allowed to remain for several minutes prior to insertion in the teat.

Be certain to avoid drawing any milk whatever from the udder before commencing operations. In fact, at Auray Farms, we make it a rule never at any time, whether sick or well, to milk a cow completely out until at least twenty-four hours after she has dropped her calf. The resulting complete distention of the udder has son what the same effect as the artificial distention by the air treatment and acts as an excellent preventive against an attack of milk fever. In the event of a very large and badly swollen udder a little milk may be taken if the cow seems all right, but only enough to afford relief and she is

never milked out clean the first day.

The Pumping Process.

When all the parts, including the operator's hands and the apparatus itself, have been thoroughly sterilized, carefully introduce the milk tube into one of the teats and commence pumping air into the quarter, meanting tapping and gently massaging to

(Continued on page 6.)



An Apple Lost at Every Tick

Every tick of your watch from now tall the end of June records the loss of valuable apples. This enormous waste can be prevented, and it is a duty every farmer owes to himself and to his country to prevent it

The Empire Needs This Fruit. Now is the time to act. A thorough spraying now with

> 11/2 lbs. to 40 gallons of water and ARSENATE OF LEAD.

> Write to us to-day about Sprays and Pumps. Tell us your problems —we will advise you fully.

After the leaves and buds come it use SOLUBLE SULPHUR, 1-BURLINGTON, ONT.

NIAGARA BRAND SPRAY CO. EVERYTHING FOR SPRAYING—Soluble Sulphur, Lime Sulphur, Arzenate of Lead, Dust Sprays and Dusters, Hand and Power Pumps and Accessories.

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PETERBORO, ONT., APRIL 27, 1916

No. 16

The Development of the Dairy Heifer

Poor Development May Account For Low Production From Well Bred Steck

WE Canadian stockmen have not made the most of our opportunities. This is emphasized by the low production of much of our really good stock. We are not thorough enough as compared with the Old Countryman. I like to look upon ourselves as past the point where we need be told that the pure-bred sire is the one economical road to progress. I like to believe that even pure-bred is not now good enough. We are reaching the point where we must have more live stock, and it must be better live stock. Our margin is smaller. The old cow will eat her head, off quicker than ever before. The right kind of stock involves development as well as breeding and it is on development that I will dwell.

I want to start developing before the calf arrives. Ten months of work, two months' rest, with the cow calving in good vital condition, gets us a "ood, vigorous calf. When the calf arrives we should be ready for it. Many a stunted calf and three-quartered cow can be traced to carelessness at this time. Every stable should have disinfectant handy for use at this period.

Fall Calves Advised.

Where a man can raise fall calves I advise him to do so. I have seen many cases where fall calves have overtaken calves dropped the previ-

ous spring and passed them Flies, heat and oftentimes neglect, retard the growth of the spring calf. In feeding the calves, whether fall or spring, they must first have their mother's milk. There is a great tendency to try and feed the calves more milk than is good for them, when great development is desired. The , calf is a very willing victim to this over-feeding, especially if he has been starved a while. I should say that the maximum amount of whole milk to be fed to a big calf should be 10 lbs. a day. When selling whole milk, there is a tendency to skimp the calf's allowance. Two weeks should be the minimum length of feeding on straight whole milk. Then we would change to skim milk if we have it, and again I would advise-don't over-feed. The maximum amount here is 20 lbs. of skim milk a day, or to an unusually large calf, 24 lbs. Where there is no skim milk we must feed some whole milk. Five months is the minimum period of milk feeding and six,

PROF. H. BARTON, MACDONALD COLLEGE, QUE.

seven or eight months is still better. Rolled oats may be fed along with the milk. And it is always the last month of feeding that counts in getting superior development.

I favor oats as the basal grain feed. Smaller quantities of other grans may be added. Patent calf feeds are no necessary. Grass for calves is often abused. A calf should be well developed to make good use of grass. I would advise a nice fresh grass paddock near the buildings, with shade or shelter; access to the barn is the ideal arrangement. I would not depend on grass altogether at any time, and would wean the calves to it gradually. Whole oats are splendid at this

Winter Development.

When it comes to wintering a heifer, many come out in the spring, poorer than they went in in the fall. The winter ought to afford us our best chance for development. At least at Ste. Anne's we look for greater winter development than summer development. For this purpose the cheap feeds are the best. Silage comes first and has no equal as a general stock food. Turnips and ensilage make an ideal combination. I have

induced many stock men to go into roots, and they now realize their value.

Clover and alfalfa are ideal for dry roughage, but sometimes we haven't got it. We are in that position at Ste. Anne's. Growing peas and oats, however, let us out. We haven't fed a pound of clover hay to a calf, bull or cow this past winter. Our sowing mixture is two bushels of oats to one of peas. We cut in the milk stage and cure, Care must be taken to get it cured well. Some of ours got too far along, but in feeding we soaked it with molasses solution and got on fine. This is the force of feed molasses.

I would not advise going to the extreme in housing and forcing. Even a spring calf should get a run on fall pasture. I don't like the roung, tidy appearance of exclusively stall-fed calves,

Age of Breeding.

Many give all of these attentions to the development of their heifer calves, but the cows don't turn out as well as they should. Why? I believe in many cases it is due to the owner being in too great a hurry to get the heifers in milk. I wouldn't have a heifer bred to drop a calf before she was 30 months of age, and most of them come a little late. There is a little risk at the other extreme in deferring freshening to taree

I was speaking on this subject at a meeting in a dairying district in Quebec. After the meeting I accepted the invitation of one of the audience to go home with him for the night. As is usual we first went out to the stable to look over the stock. First we looked over Laura. She was a big fine cow. Beside her was another, small and pinched. I was surprised to hear that she was Laura's daughter. Laura first freshened at 35 months, her daughter a little over two Vears

I want to see the helfer freshening for the first time. get a good chance. She should come in in good condition. Heavy feeds must be avoided, and she should have lots of exercise. Preferably she should freshen in a box stall. For feeding previous to calving I would advocate a little bran and oats, and perhaps brewers' grains and a little oil cake. A dose of Dpsom salts, one and one-half pounds at least.

-Synopsis of an address.

Cow Testing as a Road to Herd Improvement BY C. F. WHITLEY, OTTAWA

Some Sample Increases in Three Years' Cow Testing, Both in Number of Cows and Yields of Milk

	Last Year. No. of Average Cows. Lb. Milk.		Three Years Ago. No. of Average Cows. Lb. Milk		Increase per Cow	Percentage		
Herd. A	9 14 8 11 7 16	7,225 7,574 6,404 7,255 4,844 7,258 10,935	5 8 5 8 2 12 5	6,287 5,894 4,704 5,266 2,811 4,572 7,689	*	Lb. MIIK, 938 1,680 1,700 1,989 2,033 2,687 3,246	Lb. Milk. 14% 28% 36% 38% 72% 58% 42%	No. of Cows. 80% 75% 60% 37% 350% 60%
Average .	73	7,392	45	5,405		1,987	36%	62%

TOTAL YIELDS, 296,459 lbs. MIIK MORE. 122% INCREASE.

Your attention is particularly invited to the fact that cow testing makes for better and bigger things, as evidenced by these seven Ontario herds, samples of very many

others.

After three years of application of this simple tally system, cow testing, we see these herds increasing in the yield of milk per cow from 2,800 lbs., to 4,800 lbs., from 4,500 to 7,000, from 7,000 to 10,000 lbs. Here are gains of from 14 to 72%. The man with 5 cows three years ago now keeps 8, sach one better; the owner of 8 now has 14.

As these figures show, the general average increase is 1,887 lbs. of milk per cow, or 360%; while in place of 60 cows these men now own 73, or 80% more. So much better is the —seral average of the cows kept that the total milk yfeld is increased by 206,450

nds, 125g.
May I submit that better proof, not simply of possibilities, but the actualities of or ling bould not reasonably be demanded.

Knowledge Essential To Success With Alfalfa

BY TOM ALFALFA

THE first essential to success with alfalfa is a knowledge of the crop and its requirements. Lack of knowledge accounts for more failures than adverse climatic conditions or unauttable soils. I was fairly jumped upon recently by a man who, lacking experience, had spent his good money on affalfa seed and hadn't gotten a crop. He expected me to shoulder the full responsibility for his failure, as it seems my advocacy of alfalfa growing had had something to do with his attempt to grow the crop.

I enquired as to the soil on which this experiment had been made, and found that it was suitable—a nice loam, naturally well drained. I then asked a question which I always put first, and which usually reveals the source of error, what variety he had sown. He assured me that he had made no mistake. He had secured "northern

grown seed."

Northern grown seed in 99 cases out of 100, means nothing more than grown in the northern hemisphere, anywhere north of the equator. An examination of a map of the world will reveal that seed grown in the hottest paris of South American might be northern grown seed under this definition. There are thousands of farmers in Canada whe have been taken in by this designation of "northern grown," and I would warn all who are planning to seed to airfail in the spring of 1916 to leave northern grown seed strictly alone. The two varieties that will prove successful are The Canadian Variegated and the Grimm airfails, and of the two, the Grimm is to bespreferred, although the seed is rather high in price for general aswing.

The man whose experience I am relating, had inoculated neither his seed nor his soil. He assured me that he took no stock in such nonsense. His lack of knowledge was remarkable. He did not know that all clovers, which include alfalfa, feed on the nitrogen of the air through the medium of nodules which grow on their roots, and that these nodules will not grow unless the soil is first inoculated with nitrifying bacteria. There is one class of bacteria which acts on red clover and another which acts on both alfalfa and sweet clover. There are two ways of inoculating the alfalfa -by spreading a few hundred pounds of earth to the acre from an old field on which alfalfa has been successfully grown, or inoculating the seed with the laboratory culture securedfrom our agricultural college. Inoculated soil or inoculated seed, should be sown on a cloudy day and harrowed in immediately. This inoculation one of the pivotal points on which success in alfalfa growing swings.

He Did Not Lime.

Another mistake made by the friend of this story was in the matter of liming. His soil, I should judge, is not particularly sour, but at the same time the district in which he lives is off the limestone belt. As red clover and sweet clover grow well, the chances are there is plenty of lime in the soil and alfalfa would succeed. I have found, however, that alfalfa requires more lime than either of these hay crops, and there are comparatively few sections in Ontario, or in any of the other easterly provinces, where liming will not pay. Very finely ground limestone, where it can be had, is to be preferred to quick lime, as it is milder in its action and does not tend to burn up rapidly the humus of the soil. The rate of application usually recommended is about five tons of limestone to the acre. Where burned lime is applied, an application of 1,500 lbs. to the acre will usually be sufficient. If all the other points have been observed without success in growing alfalfa, try liming.

The final point that I mentioned to my unsuc-

cessful alfalfa grower was the rate of seeding. Most farms in the east have their fair share of weeds, and alfalfa in the early stages of its, growth cannot compete with the weeds. In particularly weedy land, I would recommend summer fallowing right up to the first of July, in order to kill the weeds, and then seeding at the rate of 20 lbs, of good seed to the acre. If a nurse crop must be used, try three pecks of barley to the acre. A heavy seeding of alfalfa tends to keep down the weeds and give the crop a chance. For fertilizer, I would recommend basic slag. It has the fertilizing element most needed, phosphorus, in good quantity, and it also has a good content of lime. The constituents of basic slag are only moderately available, and to get best results it should be applied the previous fall.

Eradication of Twitch Grass Norman Ballantyne, Perth Co., Ont.

RADICATION of twitch grass is a problem we expect to solve by a new implement which we have come to appreciate, the Smith cultivator. This is one of the newest additions to our farm equipment, and so far it has done excellent work. It cuts seven feet wide and its

not enough clearness for such work. Last year we had such a wet summer and late harwest that we did not do much after harvest cultivation.

Keeping the Cows Off the Grass Jos. Irwin, Dufferin Co., Ont.

NE of the quickest ways I know of to run a herd of cows down, both in flesh and in milk production, is to let them chase all over the farm in the early spring, looking for grass. A cow may be coming along fine and be as contented with her winter fare, as if she had never seen a green field in her life, but just let her get nosing along a fence or a roadside looking for fresh vegetation and she becomes like a thing possessed. What with the taste of the new shoots of grass, the smell of the fresh earth, and perhaps the stirring up of recollections of the luxury of good pastures, nothing but a stake and rider fence will keep her from explering every corner of the farm, and perhaps the farms of the neighbors. If she is allowed to roam at will over the sod field while the soil is still soft, she cuts it up and does not end the damage. When finally she is turned into her stable for the night, which is always under protest, she is as gaunt as a greyhound. Her taste for her winter feed is all gone and she is so pernickety about what she eats that nothing but roots or silage will tempt her. If the farmer has none of these, as the majority have



The roller pulvarizes as well as firms the soil. It should always be followed by the harrow to restore the loose surface much which prevents exportation—Proto on the farm of A. W. Wright, Seaforth, Ont.

unusual feature is its depth. The various rows of teeth are separated so far that they absolutely will not clog. We expect to use this cultivate mostly for after harvest cultivation, as it is at this time that we can fight twitch most effectively.

In the past we have been growing buckwheat and endeavoring to smother this weed. This method was fairly effectual, but it gave us a bad crop to handle. We would fallow the land until the end-of June and then the buckwheat would be so lage that it would be hard to cure. With our Smith cultivator, and after harvest cultivation, we will do away with buckwheat altogether. We have found that the teeth of this cultivator will stay right in the ground under almost any conditions and pull the twitch out. The ordinary stiff tooth cultivator has only two rows of teeth

not at this time of year, she goes decidedly of her feed. Her contentment all vanishes, and as it vanishes, the milk flow shrinks in proportion.

This is what happened to our cows every spring until a few years ago, when I came to the conclusion that it didn't pay. I like to let my cows out in the sun and the warm spring air, but I take good care that their liberty is confined to the barnyard. I am always particular to see that the fences and gates surrounding the yard are kept in the best of repair, and that the gates are kept in the best of repair, and that the gates are kept closed. These gates in the tence paid for themselves the first apring after I put them up. My cows now never get a taste of grass until well on in May. I take particular care to keep them contented during the early spring, as I have found from experionce that it is only 'he contented cow that will all the milk pail.

THOS ing per reasonable mize the ent, since We address our infect and thus the cow loor sooner her a the lathering

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Before d the calf, w tail, thigh and douch according ecommend birth. The first disinf and should ized pail. from each discarded. washing o tail, thigh immediately milking. vaginal de until all dis the vulva h

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Contagious Abortion, Its Spread and Control

Hygienic Measures are Effective If Faithfully Carried Out BY PROFESSOR W. L. WILLIAMS, CORNELL UNIVERSITY, N.Y.

HOSE dairguen and breeders who are willing to undertake and faithfully carry out permanent hygienic measures may with reasonable security expect to control and minimize the disease, but the work must be permanent, sincere and intelligent

We advise, first, that the newborn calf be cared for in such a manner as to insure it against serious infection from abortion and other organisms and thus to guard its health and vigor. When the cow has reached her 270th day of pregnancy, or sooner if earlier calving seems probable, give her a thorough bath with warm water and soap, lathering the skin repeatedly until thoroughly clean. Rinse off the soap and water with a 2 per cent, solution of carbolic acid or cresol compound. Place the cow in a clean, disinfected stall. After the bathing, wash the tail, vulva, thighs and udder daily with warm one and a half to two per cent. solution of bacterol, cresol, lysol, carbolic acid, or other similar disinfectant, and douche the vagina daily with a 0.25 per cent. Lugol's solution. Augol's solution, or compound solution of iodine, consists of 6 Troy dram of iodine crystals and 11/2 Troy ounces of potassium iodide dissolved in 1 pint of water.)

Preserving the Calf from Infection.

When the calf is born, rub it dry and disinfect the stump of the navel cord. Do not tie it. Do not touch the navel stump with the hands. Fill a goblet or glass to the brim with 1-1000 corrosive sublimate solution, and, having the calf held on its feet, push the goblet against the navel region so as to submerge the navel stump completely, and keed it submerged for 15 minutes (Corrosive sublimate tablets can be purchased of a size that one to one pint equals 1-1000). Then dust the navel stump over heavily with a powder composed of equal parts of powdered alum and boric acid, and repeat every 30 minutes until the navel stump is dry. Place the calf in a clean, dry, comfortable stall, and keep it alone until two or three months old. Do not permit the calf to suck.

In feeding the newbora calf, select the milk of a healthy cow which has calved promptly and naturally in thirty minutes or less, has expelled her afterbirth quickly and naturally within two hours, and has no discharge from the uterus. Milk from cows which have calved slowly or had inflammation of the uterus, with discharges, and especially with retained afterbirth, is dangerous.

Before drawing milk from the cow to feed to the calf, wash her vulva, tail, thighs and udder and douche the vagina according to the plan ecommended prior to birth. The milker should first disinfect his hands and should use a sterilized pail. The first milk from each teat should be discarded. Repeat the washing of the vulva, tail, thighs and udder immediately before each milking. Repeat the vaginal douches daily until all discharges from the vulva have ceased.

The first milk, or colostrum, is not necessary for the calf.

Ideally, it would be best to feed caives upon boiled or sterilized milk. The process is yet in the experimental stage. Some calves grow thriftily upon boiled milk from the first; others die. In the meantime, calves grown under the conditions recommended are reasonably safe, and at eight to ten days of age may be placed with safety upon milk boiled in a water bath. The milk which is boiled may be drawn from any economic source, mixed milk from the dairy, milk from tubercular cows, skimmed milk, or whey from creameries or cheese factories.

These recommendations have a triple purpose:

(1) We minimize the infection of the new-born calf with abortion bacilli and thus obtain the greatest security at present available against abortion, inflammation of the uterus and retained afterbirth two years later in first pregnancy.

(2) Combined with reasonable cleanliness of calf stalls and prudence in feeding, they have proven in extensive trials largely to eliminate white scours.

(3) Their application eliminates largely that very extensive and destructive group of cases of mammitis (garget) immediately following calving. The infection of the udder is apparently due thiefly to discharges coming from the uterus and oozing down the thighs, tail and udder. The infection thus reaches the orifices, chiefly of the hind teats, and, passing up the canal, establishes the mammitis.

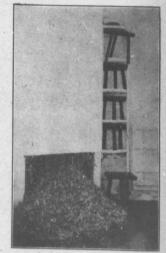
When all discharges after calving have disappeared, decrease the douchings of cows in the dairy to three times a week, though it, would be profitable to continue the external washing of vulva, tail and udder daily in the interests of clean milk, as well as of the health of the cow.

When ready to breed a helfer or a dry cow, douche the vagina three times a week with 0.25 per cent. Lugol's solution (one oince Lugol's solution to three gallons and one pine of water) for 21 days, or one heat interval, and then breed. Continue the douching for another three weeks, when, if the animal appears to be safely in calf, the douching may be decreased to once a week until time for calving approaches, when the care above outlined for the cow at that period should again be applied.

When abortion or retained afterbirth occurs, each case should be handled individually by a skilled veterinarian and the genital organs should be restored to health as promptly as possible.

Treating Valuable Breeding Herds.

In valuable breeding herds, according to our researches, if the breeder desires the most efficient



A Corner in a Well Kept Stable.
Shavings or cut straw for bedding is delivered right behind the cows through the shoot with the minimum of dust. Shelves are provided for the milking stools.

practical control, it can be obtained reliably only by regarding each breeding animal as a suspect and introducing, as a permanent practice in breeding hygiene, a course of uterine douches of, say, two per cent. Lugol's solution once a wek for three or four weeks just prior to breeding, in conjunction with the other measures above advised. Such cows then usually breed safely and carry their calves well.

It is imprudent to sell cows that have aborted They are just as safe to breed, after proper handling, as are other cows. The popular rule of holding an aborter for three months or for six months after aborting or for a period of three months after aborting or for a period of three months after the date when she should have calved is imprudent and illogical. The cow which has aborted should be bred when her genital organs have been brought back to health. This may be in one month, it may be never, and the time elapsing after the disaster has nothing whatever to do with it. If a cow aborts during the first four months.

of pregnancy, the membranes usually come away with the fetus, there is no afterbirth. and no notable discharge follows. If left to herself the cow may be in good condition to breed in fifty or sixty days, or if her uterus is carefully disinfected three or four times she may be in excellent condition for breeding in thirty days. If the cow has suffered from retained afterbirth and hean neglected or even given the best possible attention, she may never again be fit to breed.

When sterility occurs, an expert veterinarian should be called early to examine the genital (Concluded on page 13.)



Hog Raising is the Dairyman's Most Profitable Sideline.

With quotations as high as 311 at country points, those who have stayed with the hog in less prosperon seesons are now results of the contract of Course, the bloom hog is the one desired, and slow ring standard in Canada have changed to make the standard in 2 are 3 Berkshires and similar breads are concerned.

The ones here illustrated are between the fat type and the ment desirable bacon type.

(6)



Fencing? Yes, but what kind?

The farmer who thoroughly examines the relative merits of the various brands of wire fences offered to him will not have any difficulty about deeding upon the one he ought to have. Let him decide by that most unerring of all tests—weight. Why Judie by weightf Because weight means attength, and strength means durability and long life. Of the different makes of wire fences, there must naturally be one that will weigh heavier than

The heavy-weight among fences is the "Ideal"

The reason is that all the wires are full gauge No. 9 hard steel wire; every wire is full of life and strength, and heavily gal-

vanized to properly protect and preserve that strength. You therefore get longer service from "Ideal"-most for your money in strength, durability and all-

Ideal Fence

a copy of our catalogue; a postal will bring it

The McGregor-Banwell Fence Co., Limited Walkerville, Ontario, Canada.



Own a McCormick

FOLLOW a McCormick manure spreader at work in the field, and you will say that no device, human or mechanical, does better work in the proper and even fertilizing of the soil.

the proper and even fertilizing of the soil.

This year all McCormick spreaders can be had equipped with a most efficient wide-spread attachment. This will spread smoothly and evenly to a width of 8 feet, or more, as desired. Yet it has a narrow box, convenient to handle in stable, yard and field.

McCornick spreaders are strong and durable, correctly designed, simple in beater and apron mechanism, with good traction, light draft simple in beater and apron mechanism, with good traction, light draft simple in beater and apron mechanism, with good traction, light draft simple in beater and apron mechanism, with good traction, light draft line. We will send you a copy of our booklet, "Why You had the will be a supplementation of the supplementation of

International Harvester Company of Canada, Ltd. Az Brandon, Calenty, Edmonton, Estevan, Hamilton, Lethbridge London, Montreal, N. Bettleford, Chuwe, Quebec, Regins, Saskaton, S. John, Winnisce, Yorkton

Milk Fever and Its Treatment

may become distended. When all the air possible has been injected, withdraw the tube gently, being careful to pinch the teat immediately upon its removal so as to prevent any out-flow of air. Then carefully tle the test about in the middle with a piece of hard tape—tie it hard so that no air can leak out. Again disinfect the milk tube by immersion in the antiseptic solution and repeat the upon the remaining quarters.

One good feature (and so far as I know the only one) of the disease is this: The afflicted animal either succumbs or completely recovers in a comparatively short quick action and are not kept long in suspense and there is no tedious convalescence. I have known cas where a cow survived a severe attack and was up and eating hay, apparent-ly none the worse, a few hours after treatment. A great deal depends upon promptness in recognizing symptoms and combatting the disease. For this reason every progressive farmer should equip himself with a milk fever outfit and thoroughly familiarize him self with the theory and practical method of treatment, because it is frequently impossible to secure the services of a competent veterinarian at short notice. Outfits may be obtained at a very small cost, some, believe, as low as \$3, from any reliable dairy supply house.

Second Treatment Sometimes Necessary.

Sometimes in aggravated cases if the air becomes absorbed and no improvement is apparent after three or four hours a second treatment identical with the first is necessary. Generally, however, if the case has not been neglected too long before beginning she will get on her feet in a few hours after treatment. The tapes should not be removed at once but allowed to remain in position for an hour or so after recovery, after which time the contracting muscles at the extremity of the teats will retain the balance of the injected air. When satisfied that the patient has completely recovered, and under no pletely recovered, and under no circumstances until after about 24 hours have elapsed, gradual milking may commence. It will probably be several days before satisfactory reseveral days before satisfactory re-sults are obtained in the way of milk production—however, it is surprising how quickly cows will sometimes re-cover under careful handling and ome up to their proper milk flow. have had a cow survive a bad case of milk fever and later go on A. R. O. test, afterwards making a satisfactory record, less than three weeks from the time of being attacked. It is somewhat difficult for a pro-

gressive dairyman to wholly avoid milk fever. If a cow is to do her level best at the pail she must certainly be well fed up to the time of calving and in tip top condition. This, of course, increases the chances of contracting the disease. On the other hand, by taking away all feed and practically starving a cow for a considerable period before parturition, the chances of milk fever are materially lessened, but at the expense of decreased effi-ciency; because the milk flow will undoubtedly be somewhat reduced consequence and it becomes doubtful if the animal, for that year at least, will ever attain her maximum production.

Precautions in a Producing Herd.
In the case of purebred animals intended for A. R. O. work and expected to go on test it is of prime importance that they be in the very best possible physical condition. order to do their utmost in the matter of performance. Therefore, at Auray Farms, we feel justified in run-ning all chances of milk fever for the sake of attaining maximum production; but at the same time we take every precaution to prevent, and, if week before calving all grain feeds exlatter is given in the form of a mash with plenty of salt added. In addition cooling laxative feeds are givengreen grass, green oats or green corn, if possible, but if not available we feed a liberal supply of cut beets or beet pulp, etc., and a 'aira or clover hay ad libitum. Also once daily a handful of oil meal, which we consider very beneficial. Immediately after parturition we give a drench of 1½ Pbs. Epsom salts with one ounce of creolin added which restores the normal movement of the bowels and prevents any fermentation. No feed offered for six or eight hours and then only a bran mash with oats and

The following day, if the animal seems all right, we commence with about two pounds at a feeting of a mixture of equal parts of bran, dried brewery grains and crushed oats; and later on as she begins to come to her full flow we substitute our regular ration, a little at a time, until finally, after about a week, she is taking 10 to 12 pounds daily of her regular feed mixture. If she continues to increase as she should the feed is gradually increased to correspond—generally about one pound of feed for every four pounds of milk. We have never lost a cow because of milk fever, although we have had several severe c do not particularly fear it, but we certainly do not welcome it.

Milk Fever Don'ts.

In conclusion, I might add a few "don'ts" which I trust will meet the approval of all those experienced in handling milk fever cases and which, I hope, may be of some use to those as yet unfamiliar with the disease and its treatment:

 Don't forget to act promptly if you intend handling the cow your-self—send for help p. d. q. in case you do not. Delays are danger-

2. Don't attempt to milk out the cow in order to relieve her—it will help a great deal if you resist the temptation.

3. Don't try to give a drench after the cow is down—the muscles of the throat are by then probably paralyzed and some of the dose may enter the lungs with disstrous results.

4. Don't neglect a single precaution in the way of cleanliness and disinfection—a lost quarter or a spoiled udder is too great a price to pay for a little carelessness.

Don't think of leaving the calf with the dam after the first symptoms appear—both are bet-ter off away from each other any-

Don't be in any hurry to mence milking and feeding after the cow recovers-give nature

Don't forget to remember next year that she had milk fever the year before—"an ounce of pre-vention," etc.

Black Leg or Black Quarter MONG the many things our On-

A tario farmers have to contend with is the apparently all too common and spreading disease known as Black Leg. Like most of the bad diseases affecting live stock its pro-vention is simple. All that is neces-

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GASOL Stationary



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More than six million dellars worth of assets and a
record for sound management fa your guarantee of
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415 Water St., Peterborough E. A. Peck F. D. Korr V. J. McElderry

GASOLINE ENGINES Stationary Mounted and Traction



WINDMILLS Grain Grinders, Water Boxes, Steel Saw Frames, Pumps, Tanks, Etc. GOOLD, SHAPLEY & MUIR CO., LIB sary to permanently guard against the on hay bran, chop and roots. If she heald hence do not worr because disease is a knowledge of its work samps and the measures necessary to one pint raw lineed oil.

The following are severed it in the control of the mouth for remarkstation.

Rumination

Rumination

should know regarding the disease;
It is caused by bacteria, and the
only way that infection can take
place is through abrasions of the
skin, as wounds caused by barbed skin, as wounds caused by based, wire, thorns, awns of grains, or teeth-ing trouble in young an mais. Ane low-lying lands are particularly like-ly to be infected, and infected areas remain so indefinitely pasturing on, or being fed on fodder from these lands, are liable to intection, though horses and older cattle are to a great extent immune. The development of the disease is quick,

and it is practically always fatal.

The symptoms are very noticeable. The symptoms are very noticesble. There is a lameness, with the presence of a tumor or swelling, usually upon one quarter of the animal. These tumors are characterized by the fact that when they are touched, or when the hand is rubbed over them, a peculiar cracking sound is produced. Loss of appelite and general content of the content and weaker, the extremities get cold, and death results in from 6 to 48

There is practically no effective treatment. Preventive inoculation, which is simple and inexpensive, is the best and surest method. It consists of inoculating all the young aniaists of inoculating all the young ani-mals in the infected area with a vac-cine prepared for the purpose. This can be done with a hypoderulic syrings, or by the use of a specially-prepared needle and inoculated threads. The latter method is very simple. It can be performed by al-most anyone and is quite effective. The needle and threads can be not.

most anyone and is quite encourse.

The needle and threads can be purchased from the Veterinary Director
General at Ottawa, who will send
with them full directions for performing the operation. The cost is so
small that no stockman can afford to
needles his animals and run the will neglect his animals and run the risk

Veterinary Department

Pigs Cough

HAVIS several pigs that, after eating, will stand and cough. Can you tell me what is the causet—G. W. W. Hastings Co., Chri.

Hadings Co., Cort.

The symptoms indicate that they cat too greedily and practically choke.
Feed out of a trough with a large bottom, so that the food will not be deep enough for them to get large mouth-

Abnormal Appetite

WFOULD like to know what me come they found his to know what me come they lately they have taken to retica, his or feminesk imper and any bits of leather they can find.—It S. Durcham Ca. Ont. Allow free account and give each two drams of calcium phosphase three times daily und han and give each two drams of calcium phosphase three times daily und han habit cases.

Uterine Discharge

HAVE a young cow about four year old that slipped her calf at which two weeks ago. Since the sear losing a great deal of him years and the same state of the search of the

Flush out the womb once delig with about a gallon of a warm one per cent. solution of greedin. Give one ounce tincture of iron in a pint of cold water as a drench twice daily until blood ceases to pass. Feed well

HAVE a pure bred cow that I have never seen chewing her cud. She ap-pears to be in good health. In there such a thing as cows loaing their cud? What treatment should aim receive?— W. F. C., Parry Sound Dist., Out.

Your cow certainty ruminates or causes—carelessness chews her cud. You say she is in good Both are remediable.

As a rule sick cows do not ruminate, but there is no disease or condition known as "losing the cud."

A large proportion of fatalities among dairy cows are due to two causes—carelessness of tr.norance.



This Book Helped Me Improve My Farm

It is the most valuable book I own and it cost me nothing.

It has saved me time, labor and money and I've got better looking, more durable and more serviceable buildings than I ever had before.

The first cost of concrete farm improvements is also the last cost. There's no after expense for paint or repairsno danger from fire, rot or rust-no trouble of any kind. Besides concrete lowers the insurance rate.

If you haven't a copy of "What the Farmer can do with Concrete", send for one to-day. There's more than 180 pages of valuable building information, 52 practical plans, illustrated by diagrams and photographs, and dozens of other interesting farm facts.

A copy will be sent to you free of charge, immediately

Canada Cement Company Limited Herald Building, MONTREAL

CUT OUT AND MAIL CARADA CEMENT COMPANY LIMITED, Herald Building, MONTREAL.

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Dear Sirs. I am writing a testimonial 's 3b' the strength of your Feerless Junior Chicken Fencing. Mine is four feet high. It turned two horses, each weighing 1400 pounds. They ran full tilt finto the fencing about 2 rods from each other at the same time. The result was that they turned a somerault over the fence, alighting on their heads and necks, exertsching them up some, but the fence remained intact. Yours truly,

Joe Boothword, Surrey Center, B. C.

Think of it! A dead weight of nearly a ton

Our PEERLESS Junior Poultry Fencing Held

hat greater test can you ask? We build it stronger than is necessary as. We build it of Open Hearth atcel wire with all the impurities the and toughness left in. Well galvanized. Every intersection is such as the continue and the second of the second process of th







Every Tuesday, March to October "All Rail"

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are out on the prairies where last year Canada's Greatest rop was produced there is a helms waiting for you. The

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will take you there, give you all the information about the best

Particulars from any Canadian Pacific Ticket Agent, or write W. B. Howard, District Passenger Agent, Toronto.

HORTICULTURE

The Growing of Cabbage A. W. Cook, Norfolk Co., Ont.

HE cabbage plant is a rank The cabbage plant is a rank feeder, requiring large quantities of nitrogen and moisture. Frequent cultivation is essential. Cabbage is planted in rows wide enough apart for horse cultivation, enough apart for norse contivation, the distances varying according to the nature of the plants' growth, but generally about 18 inches. There is, probably no plant that will give as much in return for cultivation as the cabbage.

The profit varies according to the coll. The cost per ton of production about five dollars per ton, and is about five collars per ton, and under an average season one can expect a crop of about 15 tons. Allowing \$10 per ton, this will leave a profit of \$75 an acre. This is a very good profit when one is growing it on a large scale, but where one grows an acre or so where he can do nearly all the work himself, the profit will be seemingly somewhat higher or if one is going to dispose of Lis crop upon a local market at so much per head, the profit increases. Cabbage grow-ing is a profitable branch of garden-ing under average conditions. It is an industry which will stand expansion.

Potatoes and Their Culture W. T. Macoun, Dominion Horticul-

turist. ERMANY affords us a wonderful

child any affords us a wonderful object lesson on the value of potatoes. To-day that country is depending to a large extent on its potato crop. She produces 1,250,000,000 bushels a year. If we could describe the country of the potatoes and potatoe ducts in Germany, the war would determine the country of t

shortly.

We, too, can afford to grow potatoes; taken one year with another they will pay as well as any crop on the farm. pay as well as any crop on the farm.
The average crop of potatoos in Ontario is 125 bushels per acre. Mr. Carman, editor of the Rural New Yorker,
once offered a prize for the highest
yield from a one-twentleth acre plot.

once offered, a prize for the highest yield from a cheworleth acre plot. Two contestants are wat the rate of over 1,000 to make a constant and the result of the contestant and the result of the contestant and the contestan ground stems.

At Ottawa we plant in rows two and one-half feet apart with the sets 12 inches to 14 inches apart in the row. We use seed potatoes of good size, cutting each tuber in four parts, one cut lengthwise and one crosswise. We believe the grower is well repaid

*Synopsis of a portion of an address by Mr. Macoun at a Patriotism and Pro-

TOP DRESS all your Crops with Nitrate of Soda alone, no matter what other fertilizers you may have used. 100 pounds to the acre for seeded, and 200 pounds to the acre for cultivated crops will do the work. The increase will yield large profits over the cost.

> Write on post card for our money making books .

WILLIAM S. MYERS, Director 25 Madison Avenue, New York

RIDER AGENTS WANTED a sample 1916 Hystop 10 DAY'S TRIAL.

10 DAYS TERLA. Hereogy is of several processing of the processing

Pure Bred Barrod Rock Eggs For Slea Splendid Utility Pen. Thirteen for \$1.00. Five Pens show stock. Strain, B. B. Thompson, Wells, Miles, etc. Extra value, \$2.00 to H. TEESTAIN, Bothwell, Ont.

Single Comb White Lerhorns Single Comb White Leghorns,
"Roseheath Strain," of beauty and
utility, bred to lay Bega, onefity per fitteen, \$7 per hundred.
Chicks, \$15.00 per hundred. Fertility and live chicks guaranteed. Rescheath Poultry Farm, Rickmend Hill, Out

White Wyandottes

White wyshicottes
Handy, farm raised, bred to lay
stock founded on three of the best
stock founded on three of the best
pages and the second of the second o J. M. Brickley & Son, Marysville, Out.

-WHITE WYANDOTTES First class laying strain. Send 3.00, get a setting of 13 eggs, and have pullets to lay next winter. NORMAN POOLE, Perth, Ont.

Double Your Poultry Profits Joshbe Ioss Fositry Freitts
sext your by in cetting a few dol
are now in 2ggs for hatching froe
are extra howey laying strains o
and Buff Legisorms. Fifteen year
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SPECIALLY MADE FARM FOOTWEAR DELIVERED TO YOU \$325 Here is a light weight, durable and comfortable working shoe specially untable for farmers, woodsmen, mili-men, trackmon, laborers—all who re-quire extra strong, easy footwar for working in. We anake them of the plendid oil-tanned Skowhegan water-rroofed leather that has made

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CANADIAN NORTHERN

in using 20 busticls of seed to the

The selection of variety is very in portant. At Ottawa we have had dif-ferences in yield of 500 bushels per acre between the best variety and the acre between the best variety and the poperest variety in plots grown side by side. The variety to be grown will be determined somewhat by the market. On some markets white potatoes are worth 10 to 15 ets. more than red potatoes. It is well, too, to grow one type of potato in one district. The Green Mountain, Gold Coin and Carman No. I are all of the best type and all fine yielders.

and all fine yielders.

The conditions under which the seed is grown also affect yield. The later potatoes grow in the fall the better will they be for seed. Many large gardeners, who specialize on early potatoes, plant their seed glots late in the season, say, towards the end of June. New Brunswick potatoes are generally better for seed than Ortario potatoes; this is because the tops contained to the contrained of the con yielded four times as heavily as seed of the same variety grown at Ottawa. Similar results were obtained from seed from the Maritime Provinces. Some times when we have a cool fall, as for instance last season, we grow good seed in Ontario



A Woman's Extensive Poultry Ranch

Ranch

The one were to visit a certain New York village in the early, apring they might see a long line of young men and yomen making their way out to a small farm in the suburbs. If you were to ask what it all meant you would be informed this was the annual visit to the poultry ranch of Mrs. Hooker by the students was the annual visit to the poultry ranch of Mrs. Hooker by the students of The Country Issue of The Country New York, was purchased in March, 1907. by Mrs. Aurela Hooker, for the sum of \$2.000. The buildings consisted of a fairly countral bloom of a small, poor barn.

Day-Old Chicks For a Start

Day-Old Chicks For a Start

Day-Old Chicks For a Start

"Mrs. Hooker had decided to engage in the poultry business. Some brooder houses were built and a start was made by obtaining 1,000 day-old chicks of a New Jersey strain. Egg production was the object at lead at and, though especial efforts have been the strain by selection and breading meritary to the strain by selection and breading meritary to the strain by selection and breading meritary to the selection and breading meritary to the selection and breading to the selection and breading to the selection and breading the selection and breading the selection and the select

Feeds Are Purchased

"At the present time the whole number of birds on the fiven is 2,000. At one time the layers were disposed of after the second season, but close observation has proved that they often do quite as well the third year. From 1,200 to 1,500 eggs are gathered



Order Your Day Old Chicks Now We have the best strain of Bred-to-Lay S. C. White Leghorns on the market. They will fill the egg basket next winter. UTILITY POULTRY FARM

THOS. G. DELAMERE, Prop. STRATFORD, ONTARIO

Write TO DAY for FREE BOOK on 'SILO CONSTRUCTION



(10)

EVERYTHING NEW FRESH-PURE RELIABLE Ask your dealer or write RENNIE'S - TORONTO MONTREAL WINNIPER VANCOUVER

roduction and

To win the war with the declaiveness which will ensure lasting peace, the Empire will require to put forth its full collective power in men and in money. From this viewpoint its our true policy to augment our financial strength by multiplying our productive exertions and by exercising rigid economy, which reduces to the public to make good the loss caused by the withdrawal of so many of our workers from industrial activities, repair the wastage of the war, and find the funds for its continuance. It cannot be too frequently or too carnestly impressed upon our people that the heaviest burdens of the conflict still lie before us, and that industry and thrift are, for those who remain at home, supreme particlic duties upon whose faithful fulfilment our success, and consequently our national safety, may ultimately depend."—SIR THOMAS WHITE, Minister of Finance.

PRODUCE MORE, SAVE MORE. MAKE LABOUR EFFICIENT. SAVE MATERIALS FROM WASTE SPEND MONEY WISELY.

LET US PRODUCE AND SAVE-

The war is now turning on a contest of all forces and resources—men, munitions, food, money. The call to all is to produce more and more. It may be necessary to work harder. The place of those who enlist must be taken by those at home, men and women, old and young. The more we can save. Produce more on the farms and in the gardens. Save more and help to win the war.

LET US NOT WASTE OUR LABOUR-

In this war-time all labour should be directly productive or should be assisting in production. Make it riskin as efficient as possible. If your labour is on something that can be postposed, put it off till after the war and an immake your labour tell now. Making war is the first business of all Canadians. Efficiency in labour is as important as efficiency in fighting.

THE DEPARTMENT OF AGRICULTURE

LET US NOT WASTE MATERIALS-

Begin at home. The larger portion of salaries and wages is spent on the home—food, fuel, light, clothing. Are any of these things being wasted? \$20.00 a year saved from waste in every home in Canada will more than pay the interest on a war debt of \$500,000,000.

LET US SPEND OUR MONEY WISELY-

Are you spending your money to the best advan-tage? What do you think of extrawagance in war time? Tens of thousands of Canadiar: are daily risking their lives for us at home. Is it not our duty to be careful and economical? Canadian dollars are an important part of the war equipment. Make them sai important part of the war equipment. Buy a War

THE GOVERNMENT OF CANADA

THE DEPARTMENT OF FINANCE

every day. Strict regularity is ch-served in feeding and watering and in the cleaning of droppings boards and floor litter; in fact, every detail of the business is carefully looked af-ter and promptly attended to. Mrs. Hooker personally oversees every-thing.

thing.
"About 1,000 bushels of wheat are "About 1,000 bushels of wheat are bought annually generally direct from the farmers. Cern, bran and mid-dings are purchased in large quanti-ties, as there is ample storage capa-city in overhead bins. From these bins the grain is drawn through sponts below and is distributed brough the long building to the through the long through the long through the day made in the hoppers at all

The Water System

specified.

specified.

"The droppings are cleaned out every day and carried through the building in a car operated on the anne track as the feed carrier. Most of the bones and scrap feed are cut on the place, the material being obtained from the town markets. A small gasoline engine is used for this work, as well as to chop the alfalfa and crack the corn and wheat for the chicks. phicks.

chicks.

"A part of the land is planted to corn each year, in which the young chicks and pullets are allowed to run. This arrangement answers three purposes: It keeps down the weeds and provides a considerable amount of grain, gives the chicks needed shade, and prevents depredatines by hawks.

improving the Stock
GAs the husiness is based on egg.

"As the business is based on egg production, great care is taken in weeding out the weaklings. In this way the vigor of the stock has been greatly improved. The effect of this greaty improved. The effect of this breeding up and weeding out shows in the size and the color of the eggs. As the product is marketed where pure white eggs are in demand particular attention is given to this festure. If attention is given to this feature. If there occur any lapses in the regular and systematic feeding and watering, a reduction in size of the eggs in no-ticed. All eggs as gathered are grad-ed to a two-cunce standard—though they overrun this, usually weighing about twenty-six ounces to the doson—and are wiped perfectly clean in a manner that does not destroy the manner that does not destroy the

natural luster of the shells.

"A contract is entered into with a dealer whereby he takes the eggs at the farm each day meeting all express charges and paying for the eggs a certain percentage above the general market price at that season. This eral market price at that season. This siding scale of prices seems to give the best general satisfaction. The culls and ill-shaped or off-color eggs find a ready market in local stores as strictly fresh-laid eggs.

Three Acres of Alfalfa

"Three acres bridering on the street are devoted to affair. From this, after using all that the peutry need, hay is sold some years to the amount of \$100. Part of this land sloping to the east was too west for best results from affairs. Last fail this was thoroughly underdrained and

this was thoroughly underdrained and plowed for recoeding.

"This business is so managed that the not proceeds from each ben aver-age from a dollar and a half to two dollars, according to price conditions for grain and egos. At certain sec-retain second of the condition of the lang purposes are received for hatch-ing purposes are received in the can possibly be filled. These excess orders

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are returned with the money, as it is the rule of the farm never to substitute from other ficeks. Some seasons a great many day-oft-hick are noted. Five 300-egg incubators are used, while a 1,200-egg size machine has just been installed. Gasoline heat is used in all sibe brooders to be the substitute of the substitute of the substitute of the substitute of crops which brings a part of the land under the plow annually, so that necessary alfalfa can be grown and some corn. In this way the soil is kept sweet and free from disease germs. The returns from such fruits as peaches, plums and cherries help out running expenses.

A Sound Proof Wall

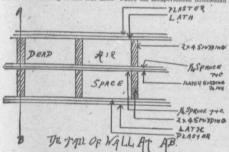
An installage an up-docte water eystem along with all modern conveniences to a superior along with all modern conveniences errord me how to construct as superior wall to surround the bathroom on two sidest—Peel Co. Ont.

The diagram herewith explains the control of the diagram was a superior of a sound-proof all better than words could do. As will be seen starting at one side there

I find that men who have hitherto looked with scorn and indifference on this department in some cases fairly good farmers, are beginning to see that it is something which means a great deal to them after all. We find them at the school fair, the most enhusiastic on the crounds, and tak-husiastic on the crowd fair, with the control of the

In North Gower, we have all noticed a great improvement in our fields where registered seed is sown.—Member, North Gower Banner Oats Centre.

There is no business in Ontario where the inexperienced middleman is



Construction of Sound Proof Wall for Bathroom A desirable addition to bathreem is a sound-proof wall around it. This diagram, prepared by the Architectural Department of the Loudem Machinery Co. of Chebia, shows how such a wall may be constructed.

is plaster, lath, two by four, studding doing mere harm than in the wool busiis plaster, lath, two by four, studding doing mere harm than in the wool busiwith a dead air space, one-quarter ness. The farmers should draid directly
inch spruce, building paper, then anwith the consumer or large wool merspruce, studding and air space and
again lath and plaster. This is a
style of sound-proof wall that is
popular with architects and successful in practice.

School Fairs and Rural Uplifts

"I am very pleased to tell you that our school fairs are a great improve-ment over last year, and from the interest manifested in them this year interest manifested in them this year upon the part of pupils, teachers and parents, it omens well for another rear. Words cansot express my gratification over the way in which the four fairs passed off. The quality of exhibits has been excellent, and the manner in which the children have been putting up their exhibits shows that great pains have been taken in welecting and preparing them for the that great pains have been taken in selecting and preparing them for the fair. I am firmly convinced that the time and energy spent by this department visiting plots and schools encouraging the children practically all summer, has been well spent and will have its desired effect as time goes on. Too much time cannot be spent in making school fairs the success they should be, as there is no work in the country that will do more to accourage progressiveness among our eastern farmers. First of all, the most vital question of the hour is to keep the boy on the farm and the school fair, when properly conducted, is one means which will assist.

Roof with Paroid WHAT looks like a saving in first cost, may in a few years prove a bigexin a few years prove angest-pense. Paroid Roofing is so care-fully made of tested materials, you avoid the repair bills that add heavily pense. Paroid Roofing is so carefully made of tested materials, you to the cost of a cheap roof. The first Paroid Roofslaid 18 years ago are still in good condition. ROOFING can be laid by yourself and your farm help so that in the wildest gale, the heaviest rain or anow atorm, or while fire is raging, you need know no anxiety for your Parold Roofs. Parold is the roofing that will save you money. Made in Red, Grey and Green. Look for the Paxeld real, by it you will know one of the 100 Neponset desires in Canada.

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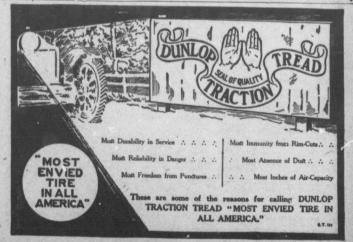
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"Read not to contradict and to confute, nor to believe and take for granted, but to weigh and con-sider."—Bacon.

More Silos Needed

HE gradual decrease in the acreage devoted to root crops, and the rapid increase in the amount of land used for fodder corn production, shows that farmers generally follow the line of least registance and apply their labor where it will bring them the greatest returns. The necessity of succulent feed for winter is recognized, the only question being, whether corn or roots, the two main sources of such feeds, will supply the greatest amount of it for the least labor. It is now generally recognized that corn silage is the most economical source of succulence. Although roots have a place and will always be grown to a considerable extent, still it is practically certain that the acreage devoted to corn will continue to rapidly increase.

The scarcity of labor that prevails at the present time is a strong inducement for swinging over still further to corn production. The men who already have ample silo capacity are in the best possible position to get along with a minimum of labor. Those who have not yet built siles could probably not put their time to better advantage than to build one this summer, as there is no prospect of relief in the labor situation for some time to come. To increase or ever maintain production of food stuffs, every known labor-saving device will have to be utilized. Away up near the top of the list of labor-saving devices is the silo. We in Canada are only beginning to realize the value of silos, and there is urgent need that their numbers be increased as rapidly as possible.

A Field for Public Service

NE of the benefits of direct legislation is that it gives an opportunity for public minded citizens to interest themselves in the initiation of progressive legislation, and to devote some of their time to public welfare, Under our system of so-called representative gov-

ernment, law making is left entirely in the hands of the members of legislative bodies. That these men hold a monopoly of law making ability no one, not even they themselves, would have the hardihood to claim. There are amongst the great body of private citizens men eminently capable of taking a leading part in devising and promoting beneficial measures. Amongst these are many who for business reasons are unable to devote so large a part of their time to public work as is necessary for men engaged in public life. Under the representative system, these are debarred from taking an active part in the shaping of legislative policies.

That there is a field in which the ability of these men can be utilized for public good, was amply illustrated in the recent temperance propaganda in Ontario. The Committee of One Hundred was composed of public minded private citizens. So thorough and business-like was the propaganda they conducted that the signatures of over 85 per cent. of the voters of the province were secured to the petition for prohibitory liquor legislation. In the campaign was utilized the ability and only the ability, of men who, under ordinary circumstances would have no active part in influencing legislation. Under a liberal measure of direct legislation, however, the field would be continually open for the public spirited activities of such men. There would always be an opportunity for them to give their time for public welfare.

The Farmer and the War

Now that the rush of spring work has begun in earnest, and with so many of the sons and hired men that we had to help us this last year, now in training or on the firing line, the temptation is greater than ever to reduce the work put on the land. Even in years when labor was, comparatively speaking, plentiful, the manner in which we did our general spring cultivation was not what it should have been. This year, with the pressure of work greater than ever, there is a grave danger that much of the crop will be sown in a poorly prepared seed bed, and that the result of this lack of cultivation will be reflected in the yields of harvest time.

Though it might be neither wise nor possible to put as much mork on the land as is advocated by some intensive farming exthusiasts, still it is easy to err on the other side and to make insufficient preparation for the seeds. Perhaps no farming operation pays greater dividends than an extra stroke of the harrow or disk. Any increased effort at this time will increase the yield without adding much to the work that will be required at any other time during the season. The reward of such effort, both from the extra returns received and from the sense of duty well done, will be great. It should greatly encourage the farmer to know that every ounce of increased effort that he expends in making provision for greater crops will ultimately be registered on the firing line, and that the disk, the harrow and the grain drill are just as effective in a war of exhaustion as the howitzer and the machine gun.

Sisal Monopoly and Twine Prices VERY indication points to the probability

that farmers will have to pay a high price for their twine this year. The price of sisal, the raw material from which most of our twine is made, is now well over seven cents a pound, or about equal to the wholesale price of the manufactured twine five years ago. As is usual in such cases, these high prices are the result of a monopoly. It appears that a series of circumstances, including the Spanish-American war, the subsequent revolutions in the Philippines, as well as a severe drought in those islands last year, has so interfered with the supply of sisal from that source, that reliance is now made almost altogether on the province of Yucatan in Mexico for the supply of raw fibre. The exportation of sisal from that province is a government monopoly. and is financed by American capital. Representing this combination is a regulating committee which practically controls the world's output of fibre, and can set any price it pleases on the product. As a result, prices have advanced rapidly, every advance of one cent per pound, representing an additional \$2,500,000 that the monopoly can extract from the pockets of Canadian and United States farmers.

Since the province of Yucatan is not subject to the government of either Canada or the United States, these countries are helpless in controlling the monopoly, and it is not likely that the monopolists are losing any sleep over the loss they are imposing on our farmers. They are more likely to be planning how to still further increase the price. The only consolation to be found is that the growing of fibre will be stimulated in other parts of the world by the high prices now ruling, with the result that competition and reasonable prices may eventually be restored.

A Successful Experiment in Taxation

HESE are the days of experiments in taxation The demand for money to meet the large expenditures due to the war has caused Canadian politicians to vie with one another in discovering new methods of raising revenue. Some of the methods devised, however, are far from being above criticism. They are purely expedient, making no pretense of being founded upon scientific principles, their chief characteristic being that they tend to check industry and to place a premium upon dishonesty.

There is, however, at least one exception. Alberta, along with older methods, has been experimenting with land value taxation, and with very gratifying results. In one year that province has collected \$700,000 by means of a tax levied on wild lands. The Calgary Herald, the leading Conservative organ in the province, has recently commented favorably upon this method of raising public revenue, and has strongly urged the extension of the principle of taxing land held from productive use by speculators. The tax has had a double effect, both of which will be looked on with favor by the real producers of wealth, in the sunny province. Not only has \$700,000 been raised without imposing any additional burden on those who are using the land, but it has also had the effect of inducing those who hold wild lands to let go at reasonable prices.

Around all our large cities and in all our new districts are large tracts of land and other valuable resources held from legitimate use for speculative purposes. Our government should not be slow to see that here is a source from which taxes can be raised without checking industry, and that such taxes cannot be evaded or passed on to the productive worker. The success that has attended Alberta's experiment in taxing unused land corroborates the contention of those who believe that the land-hog should not escape the tax collector.

The well-being of a people is like a tree; agriculture is its root; manufacture and commerce are its branches and its leaves; if the root is injured the leaves fall, the branches break away, and the tree dies .- Chinese Philosopher,

Once the corn is off to a good start, we cultivate very shallow. One year we had the crop on the side hill. There was much rain, and all surface earth between the rows washed off. Then there lay exposed a perfect net work of corn roots. They could not have been more than two or three inches below the surface. Anyone who has had such an object lesson as this can easily see the folly of deep cultivation of the corn crop.-Norman Ballantyne, Perth Co., Ont.

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Ontario's New Dairy Legislation

THE Dairy Standards Act, which has been placed on the statute book by the Ontario Legislature is one of site most radical pieces of dairy legislation ever introduced in the province. The feeling that milk and cream should be paid for on a quality basis is one of long standing. Time and time again the question has come up at datrymen's conventions, and though it was usually agreed that said the description of the violation thereof, and body it was usually agreed that said the demands of the violation thereof, and such regulations shall have the same full the demands were allowed to drift, and it was long the recommendation of the violation thereof, and course the construction of the violation thereof, and such regulations shall have the same full the demands were allowed herein.

8. Nothing in this Act shall apply to wished.

9. The penaltities imposed by or under visited.

latery adopt whatever system they will also however, new influences have been brought to been on the darrymen of the province read that the darrymen of the darrymen of the darryment on a quality basis in other provinces, especially in Western Canada. The rapid improvement in the quality of dairy products consequent upon the introduction of the improved methods, wherever adopted, has been forcibly brought to the attention of Ontario, the control of the darrymen of late. The fact that no corresponding improvement has taken place in the dairy product of Ontario, the darrymen of the darrymen

sembly of the Province of Ontario, en-acts as follows;—

1. This Act may be cited as "The Dairy Standards Act,"

2. In this Act—
(a) "Factory" shall mean and include a cheese factory or butter manu-factory, condensed milk factory, creamery, milk powder factory, milk or cream buying or receiv-ment of the condition of the condi-tion of the condition of the condition of the condi-tion of the condition of the condition of the condi-tion of the condition of the condition of the condi-tion of the condition of the condition of the condi-tion of the condition of the condition of the condition of the condi-tion of the condition of th for sale or shipment or manufac-

ture; (b) "Patron" shall mean one who habitually sells milk or cream at a

to) Pacton coar areas one such abitually sells milk or ream at a factory, 2.—(1) All milk and cream received at a factory, shall be paid for—(a) on the basis of its fat content as determined by Babcock test; or (b) on the basis of its fat content as determined by the Babcock test, plus the factor 2.

(b) in determining the fat content of the factor 2.

(c) in determining the fat content of the factor 2.

(d) in determining the fat content of cream supplied to a factory, the fat content of cream supplied to a factory, the fat content of cream supplied to a fat content of cream supplied to a fat content of cream supplied to 9 or 18 grams.

4.—(1) For the purpose of determining standards of grades of cream for the supplied to fat content grant grantandard of grades of cream for the patternsking purposes at a factory, the hasts of gradies of cream for the part of gradies of cream for the content for the part of gradies of cream for the patternsking purposes at a factory, the hasts of gradies of cream for the patternsking purposes at a factory, the hasts of gradies of the patternsking purposes.

ing standards or grades of cream for buttermaking purposes at a factory, the basis of grading shall be— (a) first grade cream to consist of cream suitable for making first

cream suitable for making first quality butter; (b) woond grade cream to consist of all other cream accepted by the huttermaker for making butter; and payment for the cream shall be based on the proportion of these two classes.

classes.

(2) This section shall come into effect upon proclamation of the Lieutenant-Governor in Council, and the Lieutenant-Governor in Council may establish additional grados.

5. Any person who over-read's or
under-reads the Bubbook test shall,
and remain conviction thereof, be
nor more than 35° of not less than 310 or more than 35° of not less than 310 or more than 35° of the property of the stable of the st

milk sold or offered for sale for human consumption.

9. The penalties imposed by or under the authority of this Act shall be recoverable under "The Ontario Summary Convictions Act."

10. This Act shall come into force on the convictions and the convictions are also as the conviction of the conviction and the conviction and the conviction and the conviction are convicted to the conviction and the conviction are convicted in the conviction and the conviction an to be used has been left optional. The reason for leaving the reason so indefinite for the reason success to the reason is leaved to the reason is leaved by the reason is gathered in large case, of cream is gathered in large case, of cream is gathered in large case, or cream is gathered in large ca gathered in large cans, each containing several patrons' cream, the grading is several patrons' crown, the grading is not so easy. A small sample might not eather and carried to the central station, but this sample might not cream the control of the control of

The Two Methods Compared.

The Two Methods Compared.

Seen by a reporeentative of Farm and Dairy, G. A. Gillespie, M.L.A., of West Peterboro, a former president of The Eastern Ontario Dairymer's Association, and a dairy farmer and factory owner of wide experience, gave the following figures, which were presented in the Legislature when the Dill was under discussion:

100 lbs. milk, testing 3.0% yields 3.0 lbs. butter fat; 100 lbs. milk testing 1.5% yields 2.5 lbs. butter fat; 104 lbs. butter fat; 104 lbs. butter fat; 105 lbs. thier fat; 106 lbs. milk testing 4.0% yields 4.0 lbs. butter fat; 104 lbs. butter fat; 105 lbs. thier fat; 106 lbs. butter fat; 106 lbs. butter fat; 106 lbs. dilles cheese.

2.6 lbs. cheese. 2.6 lbs. cheese.

100 lbs. milk testing 3.0 % would make 7.8 lbs. cheese; 100 lbs. milk testing 3.5 % would make 9.1 lbs. cheese; 100 lbs. milk testing 4.6 % would make 10.4 lbs. cheese. Total, 27.3 lbs. cheese.

27.3 lbs. choese, 27.3 lbs. choese at 10 cents a lb. (net to patron) is worth \$27.30. Milk containing 10.5 lbs. fat is worth \$27.30 for choese mailing purposes; milk containing 3.0 lbs. fat is worth 78 cts.; milk containing 3.5 lbs. fat is worth 91 cts.; milk containing 4.0 lbs. fat fat worth 51 cts.; milk containing 4.0 lbs.

weerin 91 cb.; milk containing 4.0 lbs. Tak is weerin 91 cb.; milk containing 4.0 lbs. Calculated on a fat plus 2 basis.

Galculated on a fat plus 2 basis.

100 lbs. milk testing 2.0 plus 2 equals 5.0 lbs. fat and caselin. 100 lbs. milk testing 3.5 plus 2 equals 5.5 lbs. fat and caselin. 100 lbs. milk testing 4.0 plus 2 equals 6.0 lbs. fat and caselin. Total. 16.5 lbs. fat and caselin. Total. 16.5 lbs. fat and caselin are worth 2.1 lbs. fat and caselin are worth 3.6 lbs. fat and caselin are worth 9.1 cbs. (a bs. fat and caselin are worth 9.1 cbs. 1.0 lbs. fat and caselin are worth 9.0 cbs. 100 lbs. milk paid for on the pooling system at above price is worth 90 cbs. The above figures abow that either

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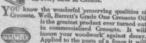
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PICTORIES that are easy are cheap. Those only are worth having which come as a result of hard fighting. - Beecher

God's Country and the Woman (Continued from last week.)

SHE was not looking at him, but not tell you what my trouble is. You beyond him. In her face he saw will never know. And when it is again the strange light of hope that had illumined it at the pool.

"If I could believe," she still looking beyond him. she whispered, im. "If I could trust you, as I have read that the maidens of old trusted their knights. But-it seems impossible. In those days, centuries and centuries ago, guess, womanhood was next to-God. Men fought for it, and died for it, to keep it pure and holy. It you had come to me then you would have levelled your lance and fought for me without asking a question, without demanding a reward, without reasoning whether I was right or wrong-and all because I was a woman. Now and an occase I was a woman. Now it is different. You are a part of civilization, and if you should do all that I might ask of you it would be because you have a price in view. I know. I have looked into you. I un-She looked at him now, her breast throbbing, almost a sob in her quiver-

ing voice, defying him to deny the truth of her words. "You have struck home," he said. and his voice sounded strange to him-self. "And I am not sorry. I am glad that you have seen—and understand.
It seems almost indecent for me to
tell you this, when I have known you for such a short time. But I have known you for years—in my hope and dreams. For you I would go to the end of the world. And I can do what other men have done, centuries ago. They called them knights. call me a man!"

At his words she rose from where she had been sitting. She faced the radiant walls of the forests that rolled billow upon billow in the distance, and billow upon billow in the distance, and the sun lighted up her crown of hair in a glory. One hand still clung to her breast. She was breathing even more quickly, and the flush had deep-ened in her cheek until it was like the tender strain of the crushed baix-neesh. Phillip rose and stood beside her. His shoulders were back. ite-looked where she looked, and us he gazed upon the red and gold billows of forest that melted away against the distant sky he felt a new and glorious fire throbbing in his veins. From the forests their eyes turned—and met. He held out his hand. And slowly her own hand fluttered at her breast, and was given to him.

"I am quite sure that I understand ou now," he said, and his voice was you now. the low, steady, fighting voice of the man new-born. "I will be your knight, as you have read of the knights of old. I will urge no reward that a not far. will urge no reward that is not freely given. Now—will you let me help

For a moment she allowed him to For a moment sne allowed him to hold her hand. Then she cently with-drew it and stepped back from him. "You must first understand before you offer yourself," she said. "I can-

will never know. And when it is over, when you have helped me across the abyss, then will come the greatest trial of all for you. I believe—when I tell you that last thing which you must do—that you will regard me you must do—that you will regard me as a monster, and draw back. But it is necessary. If you fight for ree, it nusts be in the dark. You will not know why you are doing the things I ask you to do. You may guess, but you would not guess the truth if you lived a thousand years. Your one read will be the knowledge that you have fought for a woman, and that you have fought for a woman, and that you

knowledge that in living this knight-hood for me you have won what I can never give to any man. The world can hold only one such man for a wo-The world man. For your faith must be immeas urable, your love as pure as the with urable, your love as pure as the windered violets out there among the rocks if you live up to the tests ahead of you. You will think me mad when I have finished. But I am sane. Off there, in the Snowbird Lake country, is my home. I am alone. No other white man or woman is with me. As my knight, the one hope of salvation that I cling to now, you will return with me to that place—as my hus-band. To all but ourselves we shalf be man and wife. I will bear your name-or the one by which you must be known. And at the very end of all, in that hour of triumph when you know hat you have borne me safely over to tabyss at the brink of which I am hovering now, you will go off into the forest, and—"
She approached him, and laid a hand

You will not come back," she fin-

"You will not come back," she fin-ished, so sently that he scarcely heard her words. "You will dle—for me— for all who have known you." "Good God!" he breathed, and he stared over her head to where the red and gold billows of the forests seemed to melt away into the skies.

CHAPTER IV. Thus they stood for many seconds. Never for an instant did. her eyes leave his face, and Philip looked straight over her head into that dis-tent radiance of the forest mountains. It was she whose emotions revealed

The Town of Sir se in the heart of the fruit district.

help me?'
"I can't understand," he gasped -yes-I would still accept the inevitable. I have promised you that I evitable. I have promised you that I will do as you have dreamed that knights of old have done. To leave you now would be"—he turned his head with a gesture of hopelessness— "an empty world forever. I have told you now. But you could not under-stand and believe unless I did. I love

He spoke so quietly and with as lit-He spoke so quiety and win as it-tle passion in his voice as if he were speaking the words from a book. But their very quietness made them con-vincing. She started, and the color left her face. Then it returned, flood-

ng her cheeks with a feverish glow "In that is the danger," she said quickly. "But you have spoken the words as I would have had you speak them. It is this danger that must be them. It is this danger that must be buried—deep—deep. And you will bury it. You will urge no questions that I do not wish to answer. You will fight for me, blindly, knowing only that what I ask you to do is not sinful nor wrong. And in the end—"

She hesitated. Her face had grown as tense as his own.
"And in the end," she whispered,

have saved her. Now, do you want to themselves now. The blood came and help me?"

Went in her cheeks. The soft lace at vent in her cheeks. The soft lace at her eyes and face there was a thing which she had not dared to reveal to him before—a prayerful, pleading anxiety that was almost ready fo break into tears.

At last she had come to see and believe in the strength and wonder of this man who had come to her from out of the North, and now he stared over her head with that strange white look, as if the things she had said had raised a mountain between them. She could feel the throb of his arm on which her hand All at once her calm had de-her. She had never known a rested. serted her. man like this, had never expected to know one; and in her face there shone the gentle loveliness of a woman whose soul and not her voice was pleading a great cause. It was pleading for herself. And then he looked down.

looked down.
"You want to go—now," she whispered. "I knew that you would."
"Yes, I want to go," he replied, and his two hands took her, and held them close to his breast, so that she felt the excited throbbing of his heart. "I want to go—wherever you go. Perwant to go—wherever you go. Per

your greatest reward can be only the haps in those years of centuries there lived women like you to and die for. I no longer wond wonder at and die lot. I no longer wonder at men fighting for them as they have sung their stories in books. I have nothing down in that world which you have called civilization—nothing exhave catted civilization—nothing ex-cept the husks of murdered hopes, am-bitions, and things that were once joys. Here I have you to love, to fight for. For you cannot tell me that I must not love you, even though I swear to live up to your laws of chivalry. Unless I loved you as I do there

alry. Unless I loved you as I to there would not be those laws."
"Then you will do all this for me—even to the end—when you must sacrifice all of that for which you have struggled, and which you have saved "Yes."

If that is so, then I trust you with my life and my honor. It is all in your keeping—all." Her voice broke in a sob. She snatched her hands from him, and

with that sob still quivering on her lips she turned and ran swiftly to the little tent. She did not look back she disappeared into it, and Ph turned like one in a dream and went to the summit of the bare rock ridge, from which he could look over the quiet surface of the lake and a hundred square miles of the unpeo-pled world which had now become so pled world which had now become so strangely his own. An hour—a little more than that—had changed the course of his life as completely as the master-strokes of a painter might have changed the tones of a canvas epic. It did not take reason or thought to impinge this fact upon him. It was to impinge this fact upon him. It was a knowledge that engulfed him overwhelmingly. So short a time ago that even now he could not quite comprehend it all, he was alone out lake, thinking of the story of the First Woman that Jasper had told him down at Fond du Lac. Since then he had passed through a lifetime. What had happened might well have covered the space of months—or of years. He had met a woman, and like the warm sunshine she had become instantly a part of his soul, flooding him with those emotions which make life beau-tiful. That he had told her of this love as calmly as if she had known of it slumbering within his breast for years seemed to him to be neither upreal nor remarkable.

He turned his face back to the tent, but there was no movement there. He knew that there—alone—the girl was recovering from the tremendous strain under which she had been fighting. the sat down, facing the lake. Fur the first time his mental faculties be gan to adjust themselves and his gan to adjust themselves and his blood to flow less heatedly through his veins. For the first time, too, the magnitude of his promise—of what he had undertaken—began to impress itself upon him. He had thought that 'n asking him to fight for her she ast spoken with the physical definition of spoken with the physical definition of the had plunged him into mysery, it she had plunged him into mysery, it she had agked him to draw the auisshe had asked him to draw the auto-matic at his side and leap into battle with a dozen of his kind he would not have been surprised. He had expected something like that. But this other her first demand upon him! could it mean? Shrouded in mystery, bound by his oath of honor to make no effort to uncover her secret, he was to accompany her back to her home as her husband! And after that—at the end—he was to go out into the forest, and die—for her, for all who had known him. He wondered if she had meant these words literally, ton He smiled, and slowly his eyes scar-He smiled, and slowly his eyes sca-ned the lake. He was already beginning to reason, to guess at the my-tery which she had told him he could not unveil if he lived a thousand years. But he could at least work about the

edges of it. (Continued next week.)

A well planned day is a successful day. A convenient memo pad will help in planning the work.

E.W. GILL

April 27

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7, 1916.

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CW MORRIS, MANAGER 1900 WASHER COMPANY 357 YONGE STREET, TORONTO

The Upward Look

Travel Thoughts-No. 29

Aims in Life.

Aims in Life.

HEREFORE do ye spend
with the second of th

At sixngway we left the ship to take the Alaska-Tukon Railway to Lake Bennet. The scenary all the way was so grandly thrilling that the impres-aion it made upon me was that for the first time I had difficulty in taking a full breath.

Most of the way we could follow the old trail, taken by the gold seek-ers. One could not but think of the thousands tramping it night and day, thousands tramping it hight and day, each with his load, hurrying, hastering to stake the claim, the earliest pos-sible, for the gold that perisheth. We talked with a woman that had mushtalked with a woman that had mush-ed it with two hundred strange men, three hundred and fifty miles into the interior, for the sake of this gold. We heard of two other women that did the same. When they had to return, having lost all, they attempted to take a shorter trail whety miles long. They went without foot and have seen They went without food and blankets. shooting same by day and sleeping between fires at right. They had atmost made it when they reached a great glacier which they had nearly crossed, when they came upon a deep crevasse with a raging glacier stream at the bottom. Over this they could not go, so were forced to return those long, weary miles in addition to the no one could have recognized them, they were so black and gaunt and spent; all for this gold!

One old prospector had dug for years in vain, but was confident that years in vain, but was connect that then unexplored land must con-tain gold. But at last, discouraged with his fruitbess quest, he started back over the mountains. When he reached the summit and looked down into the valley, with a groan, he sank down on the ground. The thought, the long loneliness and disappoint-ment must have afflicted his reason, because where he had expected to find solitude, were hundreds of tents and shacks and men. Gold had been dis-covered and these were the seekers.

covered and meas were the seekers.

As these people had staked all in
this, their search for gold, how many
are doing this all the time the ward
over! Gold is necessary to a certain
extent, but never when the possession
of it is the main chapet, in life, for the
mere material things it will purchase.

One of the saddest of modern trends is that in choosing their life work our youth and their parcuts decide upon that which brings in the most money, not upon that which brings the truest happiness or that by means of which one can do the most good. The great question in life which is asked so often is. "How much is he worth?" Our Creator asks not. "What has he?" but "What is he?"

What each must ask himself more often is not "What have 1?" but "What am 1?"—I. H. N.

Light on Scriptural Prophecy

The Lord's Return

If the Lord is going to return to the earth again what should our attitude to that event be?

to that event be? We should earnestly desire it. 2 Peter 3, 1243; 2 Timothy 4, 8. We should pray for it. Rev. 22, 20. We should be ready for it. Math. 24, 44; Luke 21, 34-64; Math. 25, 13-9; 1 John 2, 28. We should be watching for it. Luke 12, 36-37; Heb. 9, 28; Math. 24, 42-44. Math 25, 12.

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Does God Bless the Righteous

M OST Christians seem to hold the belief that if they walk according to God's will He will bless them in worldly matters as well as spiritually. What foundation is there for this belief?

We are assured in Math. 7:11, that

God is willing to give good things to them that ask Him, but we are also told in Math. 6:19-21, not to lay up treasures on earth, but in heaven, for where our treasure is there our heart will be also. The people of Israel, before Christ came, while they were still under the law, were promised blessings on earth, nationally and as individuals, if they served God with their whole heart according to the law. In this manner they were to be the means of revealing to the nations around them the blessings that followed from serving the one true God. They sinned and later refused to accept Christ as their Messiah. Therefore, they have been east off temporarily, but are to be stored to favor again. (Acts 15:14-17.) When the Jews were cast off the age or dispensation of law ended, and the age or dispensation of grace was ushered in. We are living in this last age. The rewards promised to us are spiritual rather than earthly. They are better in every way than those given to the Jews. (Hebrews 8:6). "As believers born again, we have a new nature and belong no longer to the earth, but we belong to heaven." "If, therefore, ye have been raised with the Christ, seek the things which are above, where Christ is sitting at the right hand of God: have your mind on the things which are above, not on the things that are on the earth." (Col. 3:1). "In the world ye shall have tribula-tion." (John 16:33). "Let your conversation be without the love of money. satisfied with your present circum-stances." (Heb. 13:5). "For here have we no continuing city, but we seek one to come." (Heb. 13:14). God delights to bless His children on earth, but be cause He wants us to occupy our minds with Him and with thoughts of how with Him and with thoughts of how best we may serve Him on earth, the emphasis now is not on earthly, but on heavenly rewards. "The natural man lives for the earthly things, and strives for the things which are seen. His de-light is in treasures which are here below, and connected with this life is care, worry, anxiety and at last the loss of that which was cherished." Note Lake 12:15 to El.

Lessening Housecleaning Terrors
By "Aunt Fanny," Peterboro Co., Ont.

64 NCE upon a time, housecleaning days were the maddest
and the saddest days of the
year. 'No, that survising someone
isn't one of my own invention. but I read it some place not long ago and
it appealed to me as being very expressive. In the days of our mothers
and grandmothers, the advent of the
spring season was the signal to commence turning everything toppy-turry
from garret to ceilar, and there tougle
be such a siege of white-mashing
papering and painting, that the house
would be in a state of confusion for
probably weeks at a time.

We don't clean house that way now adays though, for which we should be truly thankful. 1 for one, however, have not yet worked out a plan to follow when house cleaning, so satisfactory that it cannot be improved on, and I imagine there are plenty of others the same. I am srading along a few of my ideas or the subject, however, with the hope that other readers of this department will follow

My first raid this spring was made on the attic. It is one part of the house that I don't like particularly to clean, as there are always a number of articles which have accumulated during the year to dispose of in some way. I plucked up courage one bright, cump day last week though and set to work. Really it wasn't such a big job after all. The things which required airing were taken down and hung on the clothening, while I swept up, washed windows, sorted the articles of clothing and put them in their proper places, or discarded those no longer useful. I also went through the summer clothing and arranged it so that I can iny my hands on the various articles articles articles when the warder the control of the course of

To-day i cleaned the ceiling. It may seem rather rideulous to do the attic, then the cellar, but i like to get, the worst Jobs done first, and the get, the worst Jobs done first, and the get, the worst Jobs done first, and the get, the seem of the like of the like weather is cooleand west. Some housewises might object to cleaning the cellar before the furnace fire is out. I don't consider, however, that much dist and dirt will accumulate from now on as far as the furnace is coocerned. Our furnace is in a small room in the cellar separated from everything sie, so that dirt and dus is reduced to a minimum at all times. Any vegetables and applies atill in the cellar were picked over and all decayed matter removed, nielves were washed off and as a fulshing touch I gave the floor, which is the cellar floor slopes slightly to one ed. so that the water runs off into the drain. My cellar smells sweet and clean again and I am exceedingly thankfoli that I have some of my house cleaning out of the way at least.

If nothing intervenes, I intended the cleaning the pantry to-morrow. One has to put in so much time cleaning the pantry and kilchen without gotting showy results, that I don't like leaving them till the last. But then, I have talked iong enough and must get a good rest to-night, so that I will be "feeling fit" for to-morrow's duties.

Peanut Omelet: Soak a slice of bread in half a cup of freak mis. Best two eggs, whitea and yolks separately, and turn on the milk and bread, to gether with a half oup prepared penuts and a little salt and pepper. Pour in buttered pan and cook ag usual. WHITE DOTTES, Michael H

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THE CHADLE FAMILE GOOK BOOK

After orits or acticable at do no maive in ok requer this recommendations.

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7, 1916. Terrors Co., Ont maddest without 3 sentence Mother on ago and very exmothers at of the d to com-psy-turvy ere would washing, the house GARDiner's alf Meal fusion for

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r this reasen, it is commended By Our Household Editor.

contains \$60 pages with recipes propuring scrips, fish and meat, see candles, between and the sick, dollet preparations, with blank pages for written with the control of the control of a complete set of tables.

It is BOUNDS IN OILCOTH on the state of the CIRCULATION DEPARTMENT.

Blue Jay

HE blue jay is a conspicuous mem ber of our bird population east of the Plains, especially in au-tumn, when his brilliant plumage conrasts vividly with the brown follage. Even in winter he stays with us, though at this time he is less common along our northern border. In spring along our northern border. In spring and summer, while by no means un-common, the blue lay is not so often noticed, as the rediring disposition which he assumed during the breed-ing season assists in protecting him from ensures. This also allows him to carry on with considerable impun-ty that inglorious practice of nest y that inglorious practice of mea-ting the considerable impun-ty that inglorious practice of nest provided that the considerable impun-ty that inglorious practice of nest provided that the considerable impun-ty that inglorious practice.

been rightfully accused. Examination of 530 stomachs collected at all times of the year in 30 of our Eastern States and Canada, of our Passtern States and Canada, shows that insects or apprise about 22 per cent of the 'early sustenance, About three-fourths of the remainder being sustenance, about the control of the injurious, the remainder being sustenance or benedical. Of the injurious little grashioppers form the largest portion; in August nearly a fifth of the food, Caterpillars are conspicuous in July



and August and at this time average about a tenth of the stomach contents. In the consideration of the vertebrate food of the blue jay we are confronted with the problem of the de-struction of wild birds and their eggs. Special search was made for every pos-Special search was made for every pos-sible trace of such material in the stomachs, and in 6 of the 539 were cound the remains of wild birds or their eage. As this trait of the jay appears to be most pronounced during its own breeding season, it is quite possible for many birds which have suffered from his boldness early in the season to raise another brood un-molested.

Complaints that the jay is the course of considerable damage to corn in the fall has been verified to a cert in the fall has been verified to a cert. in the fall has been verified to a cer-tain degree by stomach examination. This grain is taken in every mosth of the year, but in greater quantities during winter and early spring, when much of it is necessarily waste, and it forms about 18 per cent of the yearly food. Cultivated fruits of yearly food. Cultivated fruits of yearly food. Cultivated fruits of various kinds are eaten from June to the end of the year, and the 16 per cent. taken in July apparently fustines complaints against the bird of this score. The favorte bird registrole food of the blue jay is mass of various that the complaints against the second production of various transfer of the complaints of various birds. ous kinds, acorns predominating, but be schnuts, chestnuts, chinquapins, and hazlenuts also are relished. Wild

and herlenets also are relished. Wild fruits are eaten during the summer and fall and constitute about 7 per cent, of the yearly sustemance. The blue jay probably renders its best services to man in destroying grasslooppers late in the season and in feeding on hibernating insects and their eggs, as they do in the case of the tent caterpillar and brown-tall moth.

The blue jay's vegetable food, with the exception of some cultivated fruit and corn in the fall, is largely neutral. The severest criticism against the species is the destruction of other birds and their eggs.

Horseradish roots should be planted Horseradian roots enough on planted as early in the spring as possible. Small straight roots the size of a lead pencil and six inches long may be used. Set them twelve to eighteen Ontario's New Dairy Legislation

(Continued from page 13.)
tests and start complaints. At first hewas out and out opposed to the Act until he heard that they had the option of adopting the fat plus 2 basis. The page 15 basis of the page 15 basis. The page 15 basis had been payment on a quality basis had been payment of a quality basis had been payment of a page 15 basis had been payment of a page 15 basis had been payment of the page 15 basis had been payment of the page 15 basis had been payment of the payment of the page 15 basis had been payment of the page 15 basis had been on each occasion. Makera might be so rushed with the regular work that the teeting would be left to assistants, with the result that suspense that the teeting would be left to assistants, with the result that suspense the page 15 basis of the page 15 basi (Continued from page 13.)

so hard to secure.

The Act does not come into force unThe Act does not come into force until March 31, 1917. This is to allow
makers ample time to qualify themselves for making the test and to educate the public regarding the proposed
to the public regarding the proposed
to the public regarding the public to the
this point factory instruction will be given by
did not anticipate the stated that he
did not anticipate the under the
maker of them were
already proficent in the use of the
Babcock test, and any man with sufficient intelligence to secure his diploma. cient intelligence to secure his diplor as a cheese maker should have little difficulty in qualifying under the Act.

Pure Seed Raises Yields and Profits

By P. E. Miller.

PURE-BRED seed grain adapted to the conditions under which it is growing will increase crop yields very materially over common yields very materially over common or unimproved seed. Any farmer can improve his grain seed at little coat. A few dollars spent for public seed proved seed grain will be sufficient to grow enough seed to plant several acres the following year. This improved seed should be put in a plot by itself or at one end of the regular field. Care should be taken in his-restling to see that it is kept separate from the regular field. Care should be targain. If the form the regular field with the second that grain is the field of the regular field of the regula vesting to see that it is kept separate from the refet of the grain. If the main field is growing a different variety, it is well to put this seed in a plot by fuelt. The seed bed should be a properly and clean. When he well shocked and espeath should be well shocked and espeath grain story the vestical property of the property of t ermination.

sermination.

The next year the seed produced on this pure-bred seed plot may be used in the seen-affelds, and in two seasons' time the farmer can be growing pure-bred grain. This kind of grain, thoroughly cleaned, treated for smut and grown on clean land, will enlarge the yield and improve the quality of the small sprain cron, end as the small sprain cron, end set the small sprain cron, end set. the small-grain crop, and a larger crop will be obtained at little increase in the cost of production. the cost of production. The sale of pure-bred grain for seed will make

pure-ored grain for seed will make a profitable side line, too.

This spring is a good time to begin making the change that will put the farm upon a pure-seed basis.

Dairy Notes

Daily Protes
ThE time to feed dpiry cows liberally is when "ey are milking
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Pure, freah the twa: twa:
Event fall the twa:
Successful dairying is a three-sidde dafair, breef, feed, weed. Upon
close application to these three principles, depends the success or failure
of amateurs and professional alike.



A handy book on home decoration (With furnished rooms in colors)

Think of the time saved in worry and experimenting. Think of the possibility of avoiding serious mistakes. Some of the sub-neadings show just how practical this book its: "The Influence of Color": "Harmony in Colors—How to get the Right Effect": "Value of Comessional Designs": "Plain Tomoresional Designs"

Alabastine

Sanitary Wall Tints If you are going to decorate a room or your whole home, enclose 15 cents in coin or stamps and get a copy of "Homes Healthful and Beaucolu." It gives many a useful hint for the treatment of bedroom, living-room, dining-room, hills, parlor, including even the kitchen.

THE ALABASTINE COMPANY LIMITED 89 Willow Street Paris, Ontario

CLOVER SEEDS

Government Standard Per Bus No. 1 Red Clover, \$16.00 2 Red Clover ... 15.50
2 Alsike ... 12.50
2 Alsike ... 11.00
1 Alfalfa (Northern

Terms-Cash with order. Bags extra at 25c. each. On all orders East of Manitoba of \$25.00 or over we pay the freight.

We Guarantee Seeds to Satisfy or ship back at our expense, Ask for Samples if necessary.

Todd & Cook

Seed Merchants STOUFFVILLE

ATTRACTIVE DINING CAR SER

Probably nothing helps more to make a railway journey really enjoy-able than a visual property of the "Dining Car," especially if it be "Dining Car," especially if it be of the property of t

Independent of Hired Men



That is the happy position of the Dairy Farmer who has an

MECHANICAL MILKER

"Empire" outfit consisting of one double unit. One man oan operatwo double units. This makes milking a "snap".

two GOUDDE URIES. This makes milking a "Brimpte" you can keep more come -milk bear a state of the control of th We have an interesting Booklet illustrating describing the "Empire" mechanical milket ch we will send you on request. Write

The Empire Cream Separator Co. of Canada, Limited

MONTREAL, TORONTO, WINNIPEG.



SEEDS 1916 1866 We pay railway freight on all orders in Cuterio and Quebec over \$25.00. Write for our Complete Price List. It is free. Seed Corn (Bags free). Bus Gov't. Standard 70 lbs

Gev't Standard Sun Standard Sun Standard Standar Alfalfa. Per Bus.

Ontario Variegated No. 25.00

Mangel Seed. Prizetaker, Słudstrup and Leviathan.

Levisition.

b. packagea, postpasid, for the, express or freight test, 23e int in bisk, it that or more ordered of variety. So the package of Potatoes. per bag.

Cobbler, Description of Green \$2.75

\$1,80 1.75 1.75 1.75 1.75 1.90 1.90 Wisconsin N Golden Glow Batley Learning White Cup Longfellow N. Dakota Comptons O.A.C. No. 72 Outs, un-registered ... 85c and 1.00 O.A.C. No. 3 Outs ... 2.30

A merica n Banner (Reg.) 1.25 (In sealed bags of 2% bus.) A merica n Bunner (Unreg.) 83

O.A.C. No. 1.10
Marquis Spring Wheat.
Bus. 1.65
Rod Fyfe 1.65
Golden Vine Peas
Canadian Beauty Peas.
2.15 and 2.50
2.50

Early Britain Peas 2.50 Prussian Blue 2.25 Black-Eye Marrowfat .. 2.15 Spring Rye
Rape (Dwarf Essex) lb.
Thousand headed Kale,
per lb. 99 Sorghum, per 100 lbs. Dutch Sets, per 100 lbs.

GEO.KEITH & SONS

124 KING ST. E TORONTO

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 DARRY.

Contagious Abortion: Its Spread Better Butterand Control

(Continued from page 5.) organs—vagina, uterus, oviducts, and ovaries—and learn the character of the disease. If it is curable, the neces-sary treatment should be applied; if incurable, the animal should be sent to the butcher.

When mammitis, of "garget", of the When manmitts, of "garger", or the above described type occurs, each case should be handled by a competent veterinarian. The dairyman should always bear in mind the dauger of this infection being transferred from the diseased quarter to the healthy quarters of the same cow, and to the healthy uddors of other cows, through error on the next of the milker. A error on the part of the milker. A diseased udder should be the last in the stable to be milked, and the discased quarters should be milked last. The diseased milk should be drawn into a pail partly filled with a strong antiseptic solution and safely disposed of, and the udder, as well as the bands of the vilker, carefully washed and disinfected.

. Treatment for Bull.

It is essential, in carrying out any plan of sexual bygiene, to include the bull. His sheath and penis should re-ceive the same care as the vagina and vulva of the cow. In general, the sheath of the bull should be douched two or three times a week throughout the year when not in active use. At the time of breeding, the parts should be douched shortly before and immediately after each service

The most practical method for carry-ing out the douching of the vaginae of cows and the sheath of the bull and washing the vulva, tail, thighs and udder, from the standpoint of effi-

udder, from the standpoint of effi-ciency and economy, is as follows: For the irrigation of the genital organs and the tail, vulva, thighs and udder of the cow, we recommend a udder of the oow, we recommend a gravity apparatus consisting of an ordinary galvanised pail of about aix gallons capacity (for large herds), fitted with a stopoock. To this stop-cock attach a pure guin horse stomach tube. Having filed the pail with the decired solution, elevate the apparatus nestred southed, sector the apparatus to about three feet above the cow, thus securing sufficient gravity pressure to cause the solution to flow freely. This is most conveniently accomplished by is most conveniently accomplished by running the pail on a manure track or special track constructed for the pur-pose. The end of the stomach tabe is inserted into the vagina and the solution allowed to flow into it by gravity until it is completely filled. Any timer can make the pail to order. The stomach tube may be obtained from any dealer in veterinary instru-ments.

The tube recommended for cows too large to enter the sheath of the buil freely. Instead, one should use a pure gum horse catheter. Since the catheter is too short to afford the decatheter is too short to amord the de-sired gravity pressure, its length-should be increased by the addition of a piece, of ordinary rubber tubing of about the same size. The pall recommended for cown is unneces-sarily large for bulls, and should be re-valed by a years of one sallow. sarily large to rouns, and should be splaced by a vessel of one gallon capacity. In douching the bull, the tube in first to be filled with the fluid, the end of the catheter introduced well inside the sheath, and the sheath opening compressed by the hand until the skenth is completely distended.

"The pig that is being grown and fattened for market," says the In-diana Farmer, "should have between diana Farmer, "should have between six-tenths and seven-tenths of a pound of digestible protein daily, per 100 lbs. of live weight and this should be fed during the growing period. During the catesings period about half of this amount is sufficient. The reduction, however, chould be made gradually and extended during a period of lour weeks time."



If you wish your butter to be smooth and uniform, uso the

"BRITISH" Butter Worker

Adopted by the best dairies in Gt. Britain and Canada. Makes the butter firm even-consistent all through. Results in botter butter and bigger profits!

Sold by dealers sussymbers.
Three cases - 14 m., 17 61.
and 20 in wide.
MAXWELLS LTD. - 50. Mary's, Out. 4



WILLIAM DAVIES COMPANY Established 1854. TORONTO, ONT.



winner



THE CANADIAN SALT CO. LIMITED



BOOK ON DOG DISEASES

ny Address by H. Clay Glover, V.S. 118 West 3let St., N.Y.



April 21

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Ma ORONTO.

pleasing feati hand is that if the dangerous damage. The inges in trifle strong

The wheat z tie during the supplies of wh in the United taken into c would appear rather than a No. 1 Norther \$1.13%; No. Onlario wheat \$1.02; No. 2, 9 feed wheat, 85 CO

The coarse and prices has pecially on 1 to Oats, C.W. No 44%c; Ontario commercial, 485c; Canadian, \$1.50; barley, feed, 58c to 6 Fye, No. I co of the export; jected, 86e to 8 of the export .
mand from for Western oats, is being done is States poets, quoted 54½c; 65½c; local .
American, 86c to 77c; feed, 58

Dealers Build hay, bes grade, \$14 to \$1 At Montreal, No.

Quotations a middlings, \$26; to \$1.70. At Ma shorts, \$26; mid \$30 to \$35. Potatoes are as last week: I store; Delaware

With Labor Scarce This Year the Standard is a Real Necessity

The searcity of farm labor is a very pressing problem. Every means must be taken to save both time and labor, because there are fewer to do the work on the farms this year.

Certainly, the old-style gravity method of separating cream should be replaced by the labor and time-saving modern method. It only takes 15 minutes to skim the milk (if you buy the right size)



Standard, Made in Canada Cream Separator

and only a few minutes to wash the separator thoroughly; a mere fraction of the time taken by tedious

gravity method.

The Standard will save you more time than an ordinary cream separator. It is an exceedingly light running machine, and a person therefore does not require frequent rests during the climing. Its handle is placed exactly at the right bediening. Its handle is placed exactly at the right bediening. Its handle is placed exactly at the right bediening. Its handle place is placed exactly at the right place in the place is placed exactly at the right place in the place is placed exactly at the right place in the place is placed by the placed by

every two months. Just think of what such a machine would mean to you this busy year.

would meah to you tase busy year.

Think, too, how much extra money it would make for you. Government Dairy School Tests show that it sakins down of 10 per cent., which means that it loses but one-tenth of a pound of butter fat, or 2½ cents worth of cream (at 25c a 1b.), in every 1,000 lbs. of milk akinmed. You lose about \$12 per cow per year by using gravity methods instead of the Standard cream

separator,

Don't delay your purchase. Now is the time to get a
Standard. These are prosperous times on the farm,
and almost every farmer can afford to own a high-class



separator. In fact, from a dollar and cents standpoint no dairy farmer can afford not to own a Standard

Write for our separator catalog showing Government tests, skimming tables, etc. It's well worth having, and is free.

The Renfrew Machinery Co., Limited, Renfrew, Ontario Agencies almost everywhere in Canada

Market Review and Forecast

WHEAT.

The wheat market has changed but little during the week. When the encernous appoins of wheat that are now being held and are taken into consideration in Canada are taken into consideration in Canada are taken into consideration. Quitations on which when an advance, Quitations on the barn an advance, Quitations on the lifts, No. 3, 11.15; No.

GREENFIELD HOLSTEINS

Offers a fine show bull, 18 mos. old, weight 1,300 hss. Darn, Lady Colan-thus De Kol. 23 lbs. in 7 days. Sire, Riverdale Walker Segis, whose dam ande 23.79 hs. in 7 days. Price cheap for quick sale. Apply to JOHN STEINACKER, R. R. S.

HIGH LAWN HOLSTEINS Only 2 bull onlyes left. They are sired by a son of "May Echo," and are fine individuals. Write us, JOSEPH O'REILLY, R. R. 9.



ckers offered \$11.40 to \$11.65 off cars logs; fed and watered, \$11 to \$11.25; ry points, \$10.65 to \$10.90; sows,

A PRINTER'S ERROR.

N our issue of April 13, the addr-of Mr. J. H. Montle, Stanstead, Qu was given as Stanstead, Ont. Breed-writing Mr. Montle regarding t e stock he is offering, kindly note rect address in his advertisement als

THE AVONDALE FARM SALE.

HIGHLAND VIEW OFFERINGS.



WELL DRILLING WELL

Own a machine of your own. Cash or easy terms. Many styles and sizes for all purposes. Write for Circular. WILLIAMS BROS., 444 W. State St., Ithacs, N.Y.

- Cream Wanted -

Our service to farmers is the very best experience can produce.

Drop a line for particulars to the Toronto Creamery Co. Limited Toronto

Cotton Seed Meal Linseed Meal and Flax Seed H. FRALEIGH, Box 3, Forest. Out

Cure Your Cows of Caked Udders

Egyptian Liniment 8 APPLICATIONS GUARANTEED

For Sale Everywhere.

Douglas & Co., Mfs. Neparte

POR SALE AND WANT ADVERTISING

THREE CENTS A WORD, CASH WITH ORDER OR SALE—No. 25 De Lavai Steam. In perfect der. Dunrobin Farms, Beaver

What does a bevel gear cost? The Ford owner saves \$12 that the other fellow has to pay for one

\$16.00-Average cost of the bevel gear of cars priced around \$1000 and less.

\$ 4.00-Cost of Ford bevel gear. \$12.00-This stays in the Ford owner's pocket book.

Other Ford spare parts are just as low priced in proportion—the 26 most called for parts altogether cost only \$8.04.

And less than a dollar a year as a total expense for spare parts is not at all an uncommon experience of Ford owners.



FORD, ONTARIO

April 27,

THE MET

AS. BENNIN

THE KETTLE DISPERSION SALE.

DENNING'S DISPERSION BALE.
CIRCICE lot of Ayreshive cown, bestree and bulls faced the bleders, at
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JAS. BENNING'S DISPERSION SALE.

VONDALE FARM'S SECOND PUBLIC SALE

BROCKVILLE, ONT., MAY 17th, at 10.30 a.m.

This notice just marks a few of the high points. Our newest Herd bull is CHAMPION MAY SYLVIA PONTIAC, a son of May Eche Sylvia and Spring Farm Pontiac Cornucopia, Francis M. Jones' son of the great 44.18 pound cow, K. P. Pontiac Lass.

Note that May Echo Sylvia (still in test) already has over 41 pounds butter in seven days

Note that May Eche Sylvia (still in test) air eady has over all pounds butter in seven days and 554 lbs. of milk, the best day so far 148, being a record in the breed.

We shall offer May Eche Sylvia's year old grandson from her daughter by King Pontiac Artis Canada and sired by the great 44.18 lb. bull of F. M. Jones; the only bull in America having both granddams with over 40 lbs. Average 42.60.

We shall offer 30 daughters of KING PONTIAC ARTIS

UANADA from 6 mos. to 3 yrs-all milking, have records

DARADA From v mas.

16 to 21 lbs. as 2-yr-olds.

Six (at least) daughters of WOODCREST SIR CLYDE

—all youngsters of surpassing quality.

—all youngsters of surpassing quality.

ALICE TENSEN, with record of 29.12 and 117 pounds in 7 and 30 days, and over 100 lb. milk in 1 day, will be offered; she is bred to "CHAMPION." Several others with records from 25 to 28 lbs.

Remember, that King Pontiac Artis Canada has now 32 tested daughters—the most in Canada—among them 2 with

over 23 lbs., 5 others over 21 lbs. and 8 from 19 to 21 lbs.—all as 2-yr-olds, and 2 of the 21 lb.

and 8 rows 19 to 21 lbs.—all as 2-yr-olds, and 2 of the 21 lb.

Many are bred to May Echo Sylvia's son "OHAMPION," for whose single services we have refused \$500.00. Several others bred to her other son, Avondale Pontiac Echo, sold last year for \$5,000.00 to Dr. Harwood, of Vaudreuill

We shall also offer several young bulls with dams from 18 lbs. to 32 lbs.—all with extended backing, and good individuals. This is an all day's sale—from 10.30. Lunch at Farm.

A. C. HARDY, Proprietor

BROCKVILLE, ONT.

THE METTLE DISPERSION SALE.

N this mass notice is given of the complete Dispersion filled of pure bed Edd-actions, the property of C. C. Kettle, and the control of the co Gall Cure will cure that Saddl or Collar Gall whethe the horse is idle or a t dealers, 25c, 30c an

WINGATE CHEMICAL CO.

Offere a few yearling Holstein heifers—Korndyke breed. Will sell right for quick sale. Apply to ALBERT MITTLEFEHLDT, Port Davison Stn., T.H.B., Wellandport, Ont.

HOLSTEIN BULLS FOR SALE

'NATIONAL" Separator Owners NOTICE!

S SUCCESSORS of the Raymond Manufacturing Company, Limited, of Guelph, Ont., it is abso-lutely necessary for us to revise the list of names and addresses of all owners of "National" Separators. This will cashle us to give prempt service and atdresses of all owners of "National" separator—a mackine that in the last twenty years has given remarkable satisfaction. We are anxious that the change of ownership should ensure full protection of the interest of every Owner of a "NATIONAL" SEPARATOR.

It is in your own interests, then, that we ask you to mail the coupon, properly filled out, TO-DAY. We will gladly send you the new book on "Superior" Separator facts, showing the improve-ments we have made in the new machine we now offer under the name of

"Superior" Separators

The ball-and-socket spindle, ensuring an absolutely self-balancing bowl, is but one of the new and exclusive features which place the "SUPERIOR" in the very front rank of cream separators. Even if you are not a "National" owner, mail the coupon to-day for the booklet

The Ontario Machine Co., Limited

18 Bloor Street East TORONTO

re to the Raymond Manufacturing Company Limited, of Guelph, Ontario

Agente wanted for unrepresented territor

Please Mail This Coupon TODAY. The ONTARIO MACHINE COMPANY, Limited

18 Bloor Street East, Toronto I'own a National Separator, Number I disposed of my National Separator to

NAME ADDRESS

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Write for our catalogue of farm books. It's yours for the asking. Drop us a postal to-: ::

(22)

Book Dept., Farm & Dairy PETERBORO

Fairmont Holsteins

ent offering a fine young bull, ready for service, sired by Ourvilla Sir Teake Colantha; dam, Bessie Banks Mercena, 16.23 lbs butter at 2 years. Write to-day. butter at 2 years. Peter S. Arbogast, R.R. No. 2, Mitchell, Out



HOLSTEIN SALE OF D. A. MCPHEE.

Menn II is expected site will be further heard from.

HOLSTEIN SALE OF D. A. McPHEE.

The color heard of pure bred Holsteins belouging to D. A. McPhee, Crystal Springs Farm, Vaskidek Hill, with A. McChee, Crystal Springs, Farm, Vaskidek Hill, with A. McChee, Crystal B. McChee, C. L. McChee, C. McChee, C.

WM. C. STEVENS' DISPERSION SALE.

HE labor problem and other condtions have forced Mr. Stevens is
more than the condition of 50 head for
more than whole head of 50 head for
This herd was extablished 11 years an
by the present counce, who has, by carrie
and money, brought it to its present size
of high efficiency.

Solid like used was for
Alta Pouch Beets, the sire of Pet Pouch
De Kol. who has a record of 33 is a
butter in 7 days. This great cow sus
breat and developed on the farm of 10.

LAKESIDE AYRSHIRES

SELWOOD AYRSHIRES Young bulls from R. O. P. dams. One fit for service, two December res. All from dams with sound udders and good teats. Write for breed-

A select lot of young bulls, all ages, sired by Auchenbrain Sea Foam (Imp.) 788(585), Grand Champion at both Quebec and Sherbrooke, from Record of verformance Dams. Write for estalogue.

Proprietor: GEO. H. MONTGOMERY, Inlain Express Bidg., Mentreal.

Manager: D. McARTHUR, Phillipsburg, Que.

STRAFFORDVILLE, ONT.

BEACHVILLE, ONT.

-18 HOLSTEIN BULLS

Grandsons of "King Segis Pontiac," "Rag Apple Korndyke 8th," and others.

Dams have milked from 100 lbs. a day down. Aged from 18 months to a few days. Write us to-day if you want a bull. R. M. HOLTSY R. R. N. 6. 4

PORT PERRY, ONT. PORT PERRY, ONT.

SIRES RELATED TO JEAN ARMOUR
We have several fine Pure Bred Ayrabire bulls from one to eighteen
aths, closely related to Jean Ayrabur, the Ex-World's Champion, and to
present World's Champion, Garchurgh May Michael. the present Work (Oxford County),

Buy the Best Blood by Being

DISPERSION SALE

Head PURE HOLSTEINS

Wilsonville, Ont., May 2, 1916

Here is an opportunity to secure some of the best Holstein blood from the herd of C. C. Kettle, of Wilsonville, who is having a dispersion sale of his entire herd of show ring and high producing Holsteins on May 2.

Included in this offering are several first prize winners at London Fair, 1915, and several that have been prize winners at Toronto Exhibition. The cattle offered are all young, bred in the purple, and in the pink of condition. An opportunity that does not occur often is here presented of securing some good prize winning animals at reasonable prices. This herd contains the blood of such noted sires at Starlight Schuiling DeKol, Grace Fayne 2nd, Sir Mercena Fairview, Mercedes Korndyke, and Ourvilla Colantha Sir Abberkerk. Make a point of being at the sale. Trains will be met on day of sale at Vanessa station, T. H. & B. Connections with M. C. R. at Waterford; G. T. R. at Brantford. Catalogues will be ready on April 20. Write for one to the proprietor.

C. C. KETTLE, Prop. L. H. LIPSIT. Sales Manager.

Wilsonville, Ont.

COL. WELBY ALMAS, Auctioneer.

PRODUCI

April 2

FAI

MONTAGU ery bad wes late spring snow and i great scan

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calc, in for service, will gladden some. The five daughters of Pieth Korndyke Queen, that seed a Mr. A. C. Hardy's and a year that seed a Mr. A. C. Hardy's and a year that seed a Mr. A. C. Hardy's and a year out to see the seed of the control of the seed of the control of the seed of the control of the seed of the se

PRODUCING ABILITY IN A NEW STRAIN.

PRODUCING ABILITY IN A NEW STRAIN.

THERE are many unique experiences of experiences and experiences of experiences are selecting from the control of experiences and experiences are selected from the control of the c

FARMERS' CLUB

Correspondence Invited.

P.E.I. KINGS CO., P.E.I.

MONTAGUE, April S.—We are having way had weather, everything pointing to any the desired property of the second pr

ONTARIO

HASTINGS CO., ONT.

MARTINGS CU, UNI.

TWEED, APII 14.—Many of our farmers are busy making manie syrup, which finds ready she at 1.15 a gridon. Cheese in the control of the con

WELLAND CO., ONT.

RINIGEBRURG. April 14.—We are having cod weather and all 14.—We are having cod weather and all 14.—We are have in code weather and all 14.—We are have in code of the read to the cod atmosphere, due to the read to deal wind from the lake, the ground does do with from the lake, the ground does not succeed the read of the re

AYR, April 17.—At a meeting of the Ayr Farmers' Chob on April 13, we had a splendid address by Mr. Halbert, of the U.F.O., on cooperation and the need of the

From a Women's Point of View

F you can let your foot-free friends surr you can let your foot-free friends sur-prise you When all your household wheels are out of gear, If you can get a meal when all about

you Are piled about you things there wasn't time to clear.
If you can sorre them simple things serency,
Without a word about the plight you're

The while you say in your soul. "Be seemly,"

And, in the bosom fight that follows.

If you can love your child with all that's in you.
Yet firmly say the word that must be said,
Pace toarful eyes and nover jet them

Face tearful eyes and nover jet them
daunt you.
And in the din that follows keep your
head;
If you have life, yet trust your children
Because you see that God who made
Recause you see that God who made
you vanquish sin gave unto men the Shirth
Just as to fight head winds He gave
the sail.

If you can win respect from those who And run your home, and not let it run

And run your home, and not let it run you:

Your home he details nor let them dwarf you,
And keep your outlook broad, you visAnd keep your outlook broad, you visIf lon 'true;
If lon 'true;
If lon 'true;
If lon 'true;
I hat your sands of time run
daily
linto a bendlong stream of endless tasks,
And the long the long the long tasks,
I had your long the long the long tasks,
I had your long the long tasks,
I had your long the long tasks,
I had your long tasks and the long Love
asks.—

If you can do, without the dust of doing, And tolling keep your soul and body

And tolling heep your soul and body fine.
If you can right the words and deeds you're rules, you so the sound a rule of the sound and the sound sound the so

OLD ORCHARD FARM

Offers a young bull, ready for service, sired by our senior Sire, Prin Office a young bus, reasy for hervice, used by our senior fire, Prince Pontica Artist Weslefor, whose sire is King Pontica Artist Canada, and dam, Lady Waldorf DeKol, 38.50 lib. in seven days ht. 13 years old. She is also dam of Lady Waldorf Pietle, 23 lbs. at three years old.—Canadian Champion. The dam of the young bulk officed is Eurkeyjs Keyne Hengerveld, over 30 he milk in a days have been seven to the principle of the control of the policy of the principle of the control of the policy of the principle of the policy of the principle of the policy of th lbs. milk in one day; also some young bulls from high producing dams and our King Segis Alcartra Spofford.

ED. B. PURTELLE

BLOOMFIELD, ONT.

-AVONDALE HOLSTEIN BULLS-

KISL BULLS S to 12 months from high record dams and streed by our KING PONTIAC and PIETLE (13.40 lb. dam) bulls. We are officing hersing the control of the

H. LYNN, Avondale Farm, R.R. No. 3, BROCKVILLE, Ont.

LAKEVIEW STOCK FARM, BRONTE, ONI. Breeders of high offer for sale Choice Young Bulls of various ages, all soms or Grand-selecting Holls testing Holls testing 1991b. cows. One is out of a 34.64-lb. or 27 m old daughter of Lakeview Rather the Change of the T. A. DAWSON, Manager

TWO CHOICE HOLSTEIN BULL CALVES

One is from May Echo Ken Highland View Farm.

One is from May Echo Ken Highland View Farm.

daughter of May Echo Verbeile. The charts in the 90-5 has, a daughter of the above cow with a junior two year old record of 16.97 like adaughter of the above cow with a junior two year old record of 16.97 like Segis Walker with five slutters and also. The after of the calves is Fontiac Particulars see notes or write, creasing 150 has milk a day. For turther particulars see notes or write, creasing 150 has milk a day. For turther

M. E. MAYBEE,

TRENTON, ONT.

RIVERSIDE HOLSTEINS For Sale, Choice Young Bulls, sired by grandson of Pontine. Korndyke, and a brother of Pontine Lady Korndyke, as to be so days—world's record when made. Also females bred to "King." Is so days—world's record when made. Also females bred to "King." A. W. RICHARDSON, - CALEDONIA, ONLY

- KORNGOLD STOCK AND DAIRY FARM

J. McCALPIN, Korngold Stock Farm, GANANOQUE, ONT.



Remember the Date, May 3

Complete Dispersion Sale HEAD Brookdale Holsteins

26 Two-year-old Heifers

Eleven of these sired by Sir Pet Posch DeKol, with ten more sired by Sir Quora DeKol. Eight young bulls, fit for seryoung bulls, fit for service, from high testing dams of excellent breeding. The dam of one of these has 7 day record of 30.51 bbs butter. Any one of these young bulls is worthy to head your herd. They are backed by the best Holstein blood, and best Holstein blood, and the service of the producting stock that will help you stock that will help you roll up the records. roll up the records.

Philipsville, Ont., May 3 The greatest chance of a lifetime to so-cure some of the high testing blood of Pet cure some of the night testing blood of Pet Posch Dekkol at your own price. Every animal in the herd will be sold absolutely without reserve. The females are nearly all tested, and their records range 18.78 lbs. butter to 30.61 lbs. in seven days. Gypsy Queen Rhods, the 30.61 lb. cow in this sale is a appendid individual, and her bull calf ten months old, sired by a grand-son of Pletje Korndyke Lad, is a dandy-you will like him.

Another nice young bull is sired by a son of Rag Apple Korndyke 8th and out of a 25 lb. three-year-old daughter of Pietje Korndyke Lad. Every female in this herd, except eight, is under six years. Twentysix are two years old this spring.



30 COWS IN MILK

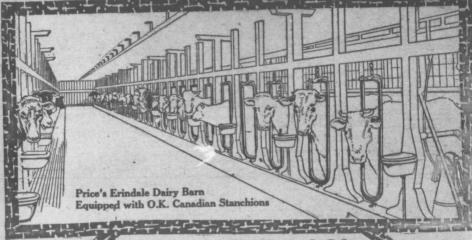
Many with official records, ranging from 17 lbs. but-ter in seven days as twoyear-olds to 30 lbs. butter year-olds to 30 Ms. butter in seven days for mature cows All except eight under six years. Secure some of these fine cows for your herd. You will find in them an invest-ment that will pay you big dividends many times



TERMS OF SALE-Four months' credit on approved notes at 6 per cent. All trains met at Brockville Junction and Philipsville station on day of sale and evening before.

W. C. STEVENS - -Proprietor PHILIPSVILLE, ONT.

H. W. IMERSON, Auctioneer



Barn to Be Proud Of

T surely is a dandy! One of the finest and biggest in the country! Yet, why shouldn't you be equally proud of your barn? It's a mighty big source of profit to you, and well worth careful attention. Up-to-date equipment means more efficiency in handling the cattle, and, consequently, more profit for you. Every Dairy Barn in the country should be equipped with O.K. Coundian Stalls and Stanchions. Because results have proven them to be the most satisfactory barn equipment from every standpoint.

CANADIAN

Make Profits Sure

O.K. Equipment keeps your cows healthy and contented, thus increasing both the quality and quantity of your milk supply, and, consequently, your profits. Gives the cows plenty of room and freedom to shift around. Puts no weight on their necks. Does not tug or jerk their heads. Big knees or bruised shoulders are unknown with this equipment.

Some Stanchions have a weak lock, but the O.K. combination gravity and spring lock is certainly a dandy. It is wide at the mouth, and tapers in towards the notch. This makes it casy to insert fine swingsbar. The catch is very strong and secure, but simple to operate. Yet so cow can open it, once it's fastement.

The swing-bar on the O.K. Stanchion is hinged high, making it impossible for the bar to sag. The small clevis at the hinge prevents the swing-bar from falling to the floor when open. Experience has proven that the most serviceable way of attaching the Stanchion to the Stall is by electrically welded steel chains. This is the method used with O.K. Equipment. It gives the cows more freedom and wears much longer

U-Bar Stanchions and Stalls

O.K. Stanchions are made of the very best steel, in the U-BAR shape, which is the most rigid construction possible. This ensures great strength and long service.

Save Money, Space, Time and Labor

O.K. Stalls are made of s-such steel tubing with patented "T' clamp
of malleable iron. This clamp is also used at all main joints. Only a
bolts are needed to fasten it. This save time by putting up stalls and
makes a rigid joint. All parts are for came bern if you change up stall and
wooden stalls to O.K. Equipment. Yet each cow will have the same
amount of room as before. This often saves the expense of building a
new barn.

O.K. Equipment gives you a choice of 8 different designs.

C.A. Equipment gives you's choice on 8 distrects designs. Four can choose any design according to the amount you with to spend.

Then, too, O.K. Stalls and Stanchions mean a big saving in the time, and labor necessary to keep the stable clean. Their open construction makes it easy to finsh out the stalls and bed them down. They keep the cove lined up over the gutter, keeping the manure out of the hedding. This means a big saving in the amount of bedding used. It also does away with the constant scrubbing of the cows' fanks and udders. In this way, much valuable time is saved for other, and more important, work.

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493 Stone Road, GALT

And Here's the Proof

Owah seam.

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We have between 350 and find them
to be all they are cracked up to be.
Yours truly.

(Signed) J. H. McCorkindale.
Agent.

St. Thomas, Ont., June 27, 1918. Dear Sir,---I should have written to yo

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