



Toronto, Ont., April 18, 1918



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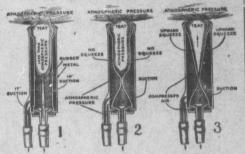
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Des

Tuberculosis of Cattle and Tuberculin Test

A Simple Explanation of the Disease and Its Detection.
Prol. D. H. Jones, B.S.A.

THE tuberculin test of carle is for the purpose of determining whether or not an anima is suffering from tuberculosis. The test, when properly employed, while not absolutely infallible, has shown itself to be reliable in minety eight per cent. of cases in many thousands of tests in Europe, the United States, Canada and other countries. It is the c-dy reliable means of determining who ther or not an animal is tubercular, unless disassed and an entire of the countries. The countries of the countr

fected. Tuberculin is a brown-colored liquid obtained by growing Bacillus tuber-cutiosis in specially prepared beef broth. After the bacilli have grown in the broth for a sufficient length of time, they are killed by the application of heat. The broth is then filtered and condensed and a pre-gravity is added. The produce so obtained is tuberculin. This tuberculin has to be tested and a proper strength be-

fore being used.
Application of the Tuberculin Test.
In oxer to tell whether or not the
temperature of an animal riese following an injection of tuberculin, it is
necessary first of all to find out what
is the normal temperature of the animal. In doing this, it is necessary to
have the cattle quiet in their stalls. If
the cattle are leverish from my cause or have just calved or are just about to calve, the test should not be made. The temperature is taken by insert-ing a clinical thermometer in the anus

or vulva, allowing it to stay there for two or three minutes, and then taking the reading. At least three tempera-tures of each cow should be taken at intervals of two hours before injecting

the tuberculin.

The tuberculin is then injected be neath the loose skin near the shoulder means of a hypodermic syringe. After about eight or nine hours from After about eight or nine hours from the time of injection, it is necessary to begin taking temperatures again. These should be taken about six times at intervals of two hours. If the animal is tubercular, there will be a gradual rise of temperature of from the oto five degrees above the highest temperature reached before the tuber-temperature reached before the tuberculin was injected, then the tempera ture will gradually fall again to nor mal. If the animal is not tubercular, the temperatures recorded after the inthe temperatures recorded after the in-jection of the thereutin will be ap-proximately the same as those re-corded before the injection. The tuberculin has no effect, either good or had, on cattle that are not tubercular. Tuberculosi is a disease that is widely apread in all civilized coun-tries. If a common in cattle grown

tries. It is common in cattle, swine, birds and human beings. The disease is usually slow in developing, so that an animal may be infected for months or even years before showing any marked symptoms of the disease.

There are three recognized strains of tubercle bacilli: the Bovine, affecting most readily cattle and swine; the Avian, affecting most readily birds, particularly domestic poultry, and the Human, affecting most readily human

It was thought at one time that the It was thought at one time that the bovine strain of the tubercle bacillus could not establish tuberculosis in human beings, and that the human strain could not affect cattle, and that the avian strain could not affect either cattle or men. It has since been cattle or men. It has since been demonstrated, however, that the bovine strain can and does readily establish strain can and does readily establish the disease in human beings, particularly in the essent infants whose diet, of course and an infants whose diet, of course and infants whose diet, of course and infants whose diet, of course and infants whose diet, of the course infants in chief in side to infection from milk that has been obtained from tubercular cattle. One reason, then, for having cattle tested for tuberculosis is that we may prevent infants from contracting the dread disease that causes so much misery in our midst. Any town or city that wishes to control its milk supply so far as tuberculosis is concerned.

can demand that those who supply it with milk shall have their cattle test-ed under government supervision and all tubercular animals excluded from

the three courses animals excited, from the there's trom which the milk is obtained. Any town or city wishing so to do should state the case to the Veterinary-General at Ottawa. Financial Loss to the Farmer. Another reason any "armers should have their cattle fested is the financial loss which the "armers should have their cattle fested is the financial loss which the "armers should have their cattle fested in the financial loss which the "armers and their should be a state of the should be a state of the should be a state of the should be should be a state of the should be a should be a state of the should be should be a should be a should be should be a should be a should be should be a should be should be a should be should velop the disease in an advanced de-gree and die or are slaughtered, when they are at once seen to be rotten with

When the tubercle bacilli get lodged in the animal's body from contaminin the animal's body from contaminated food, water or atmosphere, they begin to multiply and produce a poison which acts locally, killing the disasse where they are located and causing the development of tubercles. These tubercles may develop in any part of the body where the bacilli set located. When the are gradually destroyed the animal gets a chronic cough, and large numbers of the bacilli are cought of up into the mouth and are coughed up into the mouth and are swallowed and then either passed out with the droppings or truey : will pur-ther infection in the intestines. When there is tuberculosis of the infectines, the animal is fikely to be affected with chronic scouring, and so large num-bers of the bacilii are thus thrown of. When tuberculosis gets established in the udder, the udder will become lumpy and large numbers of tubercle immy and large numbers of tuberels bacilli will be given off in the mili. When the disease has developed to such an extent in the animal's body as to show any of the foregoing conditions, other parts of the body such as the heart, liver, stomach lymph glands, uterus and pertinenum are most likely affected, and by this tims the animal is were much of a losithe animal is very much of a losing concern, either as a producer of milk or beef. But the loss to the farmer or beef. But the loss to the former is not necessarily confined to this animal. For, long before the discase has reached this extent the animal as been a source of infection for the rest of the herd, and in all probability a number of the herd have contracted the disasse from its Gradicating the Discase. The tubercular test will indicate whether or not an animal is thereals to be before any clinical symptoms are

whether or not an animal is 130-ross long before any clinical symptoms are visible, thus enabling one to deal with such an animal before it becomes a dangerous spreader of the disease.

When an animal is shown tubercular, it should not be ello mix with the rest of the herd. disease is in an advanced stage the animal should be slaughtered. The animal should be stangered the internal organs of such an animal may be badly tubercular, but the muscle meat scarcely affected, so that the value of the animal, so far as butcher meat is concerned, could be recovered. meal is concerned, could be recovered. If the disease is not, in an advanced stage the animal should be separated from the rest of the herd and key separate. Its milk should be pasterised before use. After the cove carea, the east should be at once removed and fed milk from healthy cove, or its own mother's milk after pastering.

It has been demonstrated asis and again to be possible thus to gradually eradicate tuberculosis from a herd. Of course, it means a little more work and the exercise of care which may seem to be too much bother is some farmers. But we cannot set much good in this world without a reasonable amount of effort being set forth, and to have a herd of calle which are known to be free fest tuberculosis is most scretally well. has been demonstrated again tuberculosis is most certainly worth



VOL. XXXV

No one appre ation, for or implements situat And while generally are tall in their efforts to we farmers are quithe best use of wi in keeping up as production. In studying out occurred to me th

acre of ground wor a point past whice force yields, but Ontario which cou duce larger crops fertilizer, whether or the commercial have been loo in this connection most profitably er most profitably en strikes me that p found of interest fellow farmer, who duction off his far-one of the plans land which has a the "Illinois way".

land, but rather, I cultivate to advan

1. Use legume c manure to the soil, once in four or five acid soils, previou about two tons per plement the manure manure with rock fertilizer, the amou of manure used. Ithe application sh phosphate every for

The essential for to be lacking in soi ash and calcium. constituent of plant the yield of crops, heavily by growing taken to see that the does not become dep ures and from such Phosphate fertilize

grain crops. They or plowed under wit ing of grain crops.
of manure favors t Good results are n when applied alone. surveys have been co found most deficient made by treating the acid. This makes available for plant the price of sulphuri has made this form

Potash is essential Its presence in a so the necessary streng The Recognized Exponent of Doirying in Canada

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

VOL. XXXVII

TORONTO, ONT., APRIL 18, 1918

No. 16

Feeding the Soil That Feeds the World

We Can Make Our Labor More Effective by Keeping Our Fields Fertile-By "Oxford"

No one appreciates more fully than does the farmer the ser juanesa of the world's food situation, for on one else is so closely in touch with the labor situation, the seed situation, the farm implements situation and all the other obstances in the way of "normal", let alone "increased" production. And while the city press and governments generally are talking themselves black in the face in their efforts to urge, us, on the greater than the face generally are talking themselves black in the face in their efforts to urge, us on to greater production, we farmers are quietly studying how we have make the best use of what labor we can get on our farms in keeping up as nearly as possible to our normal

In studying out a plan for my own farm, it has In Studying out a plan for my own tarm, it has cocurred to me that the best way for me to utilize the labor at hand is not in an attempt to crop more land, but rather, by fertilizing the acres that I can cultivate to advantage, to reap a bigger yield per acre of ground worked. Of course there is doubtless acre of ground worsec. Of course there is doubtless a point past which it does not pay the farmer to force yields, but I think there are few farms in ontario which could not profitably be made to produce larger crops per acre by the judicious use of fertiliser, whether barryard manure, greez manure or the commercial commodity.

I have been looking up for my own information I have been looking up for my own information in this connection some experimental results in an endeavor to find out what type of fortilizers meet profitably employ on my own acre. Ingular tables meet the profit of the meet profitably employ on my own acre. Ingular tables meet that perhaps a digest of what I have found of interest might also be of value to more fellow farmer, who also is out for maximum one fellow farmer, who also is out for maximum of the meeting of the plans for keeping up the fertilizer. One of the plans for keeping up the fertilizers and which was appealed most strongly to me is the "Illinois way" which comprises the following:

1. Use legume crops in rotation and return the

the "Illinois way" which comprises the following:

1. Use legume crops in rotation and return the
manure to the soil, or plow under for green manure
once in four or five years. 2. Apply limestone to
acid soils, previous to seeding legumes, usually
about two tons per acre, once in four years. 3. Supplement the manure for legume crops used as green
with rock showning on seeding the previous or manure with rock phosphate or other phosphate fertilizer, the amount depending upon the quantity

manure with rock pheephate or other pheephate fertiliser, the amount depending upon the quantity of manure used. Where grain crops are removed, the application should be about 1,000 lbs. rock pheephate every fourth year.

Essential Plant Food.

The essential foods for plants which are liable to be lacking in soils are airrogen, phosphorus, poissh and calcium. Nitrogen is the most important coastituent of plant food, not only in its relation to the yield of crops, but also in the feeding value of these crops for animals. This element is used keavily by growing crops and precautions must be taken to see that the supply of nitrogen in the soil son and the sound of the sound o

when applied alone. In many sections where soil surveys have been carried on, this element has been found most deficient. Acid phosphate its a fertilizer made by treating the rock phosphate with sulphurfed. This makes the phosphorus more quickly suitable for plant food. The great increase in the price of sulphurfue acid this last couple of years has made this form of phosphate fertilizer very strength.

Potash is essential for the best growth of plants. Its presence in a soil wid give the stems of grain the necessary strength to prevent lodging. Potash

is abundant in normal soils, but is usually in an insoluble condition, so that ylants are unable to use it. In the presence of lime and decaying organic matter, the insoluble potash compounds are gradually dissolved and the potash is made available for allants. Learness measures and lime in a soil will ushly dissolved and the potset is made available for plants. Legumes, manure and line in a soil will asually bring about a supply of available poisst. This lement is practically unobtainable in the shape of commercial fertilizers at present. The potsets asits that were formerly used as fertilizer came largely from Germany. This supply, of course, is

Methods of Increasing Fertility Where grain crops are grown and sold off the farm the soil will become depleted of those elements necessary for profitable crops unless some arrange ments are made for their return. The essentia plant food elements may be applied to the soil in one plant root elements may be applied to the soli if one of three ways, by the application of live stock man-ure, through the growing of legume crops and green manures, and by the use of chemical fertilizer. Of these three plans, choice should be made in the

Live stock manure is the cheapest and most popular fertilizer used on the farm. It is the most important single source of fertilizer for the soil. It portait single source of fertilizer for the son. It is superior to other fertilizers because of its greater and more lasting benefits. Manure is one of the most efficient means at the disposal of the farmer to permanently improve his soil. No other fertilizer possesses to so great a degree, the power of restoring worn soil to productive use as does this. Legumes and Green Manure.

The most important source of supply of nitrogen to the soil is that obt fined through the growing of clovers or other legumes. These plants are peculiar in that on their roots live little colonies of bacteria in that on their roots live little colonies of bacteria which have the power to convert the nitrogen of the air into nitrates, which may be used by the plants as food. These plants not only supply a great deal of nitrogen from the roots and stubble left after a crop is taken off, but much of the nitrogen contained in the portion harvested will be returned to the land in the form of manure.

the land in the form of manure.

Some farmers practice plowing under green manure in order to keep up the supply of humus in the soil. This is usually a less economical source of supply of fertility than annure. It is usually much profit of the control of the c more profitable to feed the crops and return the manure. One drawback to green manuring is that manure. One drawback to green manuring is that manure. One drawback to green manuring is that the profitable of the green of the control of the green of the

more heat will be absorbed by a dark colored soil. Commercial Fertilizes.

Unless properly used in combination with manure and legume crops, chemical fertilizers are usually but temporary in their effects. When the crops are grown and hauled off the farm the action of the compared of t pleted. Complete feetilliers are very often bought and applied to such soils be bring them back to normal. I sually the mineral provided with the found county deficient, and it may be necessary to annly only one or two mineral foods allow with the nitrosan added by the legume rotation.

Ground limestone is being largely applied to solis the last few years. The increase in the amount of ilmestone used has doubless been to the in-crease of leaune culture. It has been found that clovers or alfalfa will not do well in an acid soil.
Lime therefore, is applied to such soils as are intended for legumes. Lime is not only valuable in tended for legume. Lime is not only valuable in sweetening the soil, but also in improving its physical condition. It is not also in improving its physical condition. It is not also in that it causes the part more friable in condition that is, it makes the clay more friable like likely to "puddle" in C: working. Ground line so likely to applied in the manure, but quick lime about any seem of the mixed with manure, aimed it causes a rapid tecomposition of the organic matter and a loss of thir see.

So much for the knowledge—now for the application. What are we going to do about it? Grain
tons, What are we going to do about it? Grain
trops are high in price, the demand for farm products was never greater. We have therefore an unparalleled opportunity to not only increase our farm
profits, but also to help out in the most humane of
all causes, the feeding-of a hungry world, if we can
increase or even maintain the production from our
farm. It would be well for each of us to give a
ittie thought to the state of fertility of the acrea
we are cultivating. Are they growing as much as
they should? If not, they should be given the necessary attinuiants to make them produce. With the
profee of labor as it is, we have no place for a "siacker" acre in our cultivated area.

The Wonderful Earth

s this to see! One what has a fine thing come who thus takes pair in hie whole process of the year comes soon to have an indevelopment of the year comes who had been dead to the process of the year of years of year of year

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Docking and Castrating the

The Neglect of These Means Money Lost A. A. MacMillan, Macdonald College, Que.

L NDOCKED and uncastrated grade lambs are the handling of sheep, and no farmer who takes an interest in his flock will neglect the performance of these operations. Both are very simple and if properly performed at the right age there is little or no danger or loss. Moreover, docking adds to the neatness, comfort and appearance of the flock, while castrating enables the farmer to hold his wether lambs for late fall sales when a heavier weight usually brings a higher average price per pound. Ram lambs become troublesome about the

weight usually brings a flight average price ber pound. Ram lambs become troublesoms about the middle of September, their gains are slower, tary have to be separated from the rest of the flock or sold their mass. Pound is below that of the flower of the separated from the rest of the flower of t and is better ected, not being so liable to injury when catch or docking. An assistant is necessary for caurating, and although he may be dispensed with for docking, his services are useful and result in a neater and more uniform dock. A good sharp knife and a basin of water to which some disinfectant has been added is all the equipment that is required for the work. The operation is best performed in the morning of a bright clear day.

Castrating. The lamb is held by the attendant at the proper height with the underside of the body outward, rump downward and the front and hind legs held together. The scrotum is grasped with the left hand of the operator and pulled outward to its full length when it is severed straight across about one inch from the body, removing one-third to one-half. The testicles will now protrude and may be removed by the teeth will now protrude and may be removed by the teeth of the operator or with small pinchers specially made for the purpose or by slitting the peritoneal covering with the knife and pulling the testicle with the finger until the cord breaks. The first method is most commonly practiced in all large sheep rais-ing countries. It is quicker and is seldom followed by compilications of any kind. Removal with pinch-ers having claws that fit around the testicle is very ers having claws that fit around the testicle is very similar to the first method except that the pluchers are substituted for the teeth. There is more danger of crushing the testicle and it is slower. Lambs which show any tendency towards rupture should not be castrated by either of the above methods as the removal of the peritoneal lining allows the intestines to protrude. The last method, namely, sitting the peritoneal lining with the kinds and pulling the testicle free is commonly practice and pulling the testicle free is commonly practised with small flocks. Care must be taken that the testicle is not crushed, otherwise the lamb will display male characteristics and will be troublesome in the fall. The pertinenal covering should be stitched in lambs that show any signs of rupture. In all three methods it is highly important that the lower part of the scrotum be removed. This permits of proper drall-age for the wound and it does not heal too quickly. In no case should the testicle be renormed and the In no case should the testicle be removed through a small still in the side of the scrotum leaving a pocket at the bottom in which the blood can accumulate, causing the wound to fester. If festering does occur the wound should be opened at once and all pus squeezed out. Lambs having abnormal testicles should not be operated upon until they become normal, otherwise there is much greater risk and danger of loss.

Docking.

The lamb is held in the same manner for docking as for castrating. A stub of one and a half to two inches in length should be left. If severed at the second joint from the body the destred length is usually obtained. The joints may be felt with the thumb of the left, hand, the kinfe being placed directly over the second joint when with one downward stroke the tall is severed from the body. When one man is docking alone the lamb is allowed to stand on its feet with its head-between the legs Docking. stand on its feet with its head-between the legs of the operator when the tail is severed with one stroke from below upwards. The practice of sever-ing the tail with a chisel is not to be recommended as the bone is very often splintered leaving a pain-ful wound that takes a long while to heal. It is very seldom that lambs bleed excessively

if docked at the right age. However, occasionally a lamb will bleed to death if not looked after. The application of pressure just over the artery for a few moments will sometimes coagulate the blood. Tincture of iron is also used, but falling this a small cord may be tied around the stub and left for twelve or twenty-four hours when it should be removed. or twenty-four hours when it should be removed, otherwise circulation is stopped and the part sloughs off. Cobwebs, puff balls, flour, etc., have been used with success, but many of these pr! tive methods, while effective in so far as stopping the bleeding is concerned, subject the lamb to danger from infec-tion. The docking of older sheep is a much more tion. The docking of older sheep is a much more serious matter than with lambs. A large, sharp knife is the best instrument to use, the tail being severed at the second joint the same as with lambs. The most effective method of stopping the bleeding The most effective method of stopping the bleeding is to sear the artery with a red hot tron. Searing is recommended by some authorities for lambs, but its use is seldom necessary and the lamb is saved much pa'n. The docking shears are more costly less practicable and have no special advantage out. the use of the knife

After operating, the flock should be turned into dry pasture field where they can be watched



Prof. Wade Toole.

Prof. Toole has recently been appointed to the chair of Animal Husbandry, at the O.A.C., Guelph. He goes to his new position after several years success as man-aging editor of the Farmer's Advocate.

during the day and any necessary attention given. during the day and any necessary attention given. There is seldom any danger after the first day, al-though it is advisable to watch the flock closely until the wounds are healed. Neither of the above operations should be performed in warm weather when the fly season is on, as maggots are almost certain to get into the wounds.

The importance of docking and castrating cannot be over emphasized. Both tend toward the production of greater profits and they go hand in hand with good practice in the management of the farm

A Fertilizer Experience A Story From a Ouebec Farm

Elizabeth Harris, Shefford Co., Que.

E have used commercial fertilizers for seven consecutive years, supplementations W. E. have used commercial retuisers for seven consecutive years, supplemented with barn-yard manures and we have raised some "bumper" ropo of corn, wheat, oats, turnips, carrots, and hay. Our potatoes are always mealy and nice, but some seasons the bugs work overtime; however, one year we raised 290 bushels from one acre collend. The next series this land was not belowed. of land. The next spring this land was not plowed; just disked with a cutaway disk harrow, and com-mercial fertilizer appli-d, disked again and seeded down to clover and timothy with nurse crop of wheat, and we won Jrst prize on wheat from the agricultural society.

Here is a list of the fertilizers used:—Albert's basic siag, acid phosphate, nitrate of soda, muriate of potash and high grade sulphate of potash. These were purchased previous to the war, and we have enough to tide us over another year, nitrate of soda excepted. On old meadow land we broadcasted the slag and muriate at the rate of 500 lbs., and 200 lbs.,

respectively, per acre. The sulphate was applied mostly by the drill to the potatoes and sugar beets. Nitrate of soda has been used sparingly with us,—just enough to give the crop a good start. It is well to bear in mind, when soving the smaller grains, which make their growth in the cool spring weather, that a little available introgen applied at time of plainting will keep the plants growing and keep down the weeds. Much, however, depends upon the quality of seeds used, the time of planting. The farning of the seed bed for the small grains, the singing out, and the cultivating of hode crops just at the right time, to leave a maximum yield.

General Principles.

Soils rary so in manurial requirements that it is difficult to find a fertilizer suited to all soils and corpy. The farmer hould study the nature and conditions of his soils, and the special needs of his erops before deciding what kind of commercial itertilizer to use.

fertilizer to use.

Home-made mixtures will supply plant food at a lower cost than the so-called special brands. The elements deficient in most soils are nitrogen, phophoric acid and potash. Therefore, in mixing a fertilizer, all three elements should be included as termizer, an three elements should be included according to the needs of the special crops. For instance grasses and all kinds of cereal grains require stance grasses and all kinds of cereal grains require more nitrogen than phosphoric acid and potash. The cabbage family should have phosphoric acid as the most dominant element, and potatoes, corn and legumes should have potash predominating. This calls for some deep thinking, as economy requires that see apply only what is needed for the special

No set rules can be laid down to follow if the No set ruies can be laid down to follow if the farmer hopes for highest success. Here in Quobec the seasons are all too short for the maturing of certain crops; however, there is one thing we do not have to worry about, and that is a cover crop; for the blanket of anow comes early and stays late.

Big Crops of Potatoes

G. A. Williams Gets Over 400 Bushels Per Acre

C. A., Williams Gets Over 400 Bushels Fer Acre

NE of the most successful potato growers in Peterboro' Co., Ont., is Mr. O. A. Williams and there are just 10 acre. and protection of the provided and provided and protection of the protection of th with New Brunswick seed, but also put in a con-siderable acreage of my own seed, grown from New Brunswick seed the year before. I found that the New Brunswick seed in the second year was no better than the old stock raised for years in Ontario better than the old stock raised for years in Ontario and my conclusion is that it will pay to sell all potatoes grown and buy New Brunswick or New Ontario seed every year. Last year, for instance, the difference in yield between the New Brunswick

the difference in yield between the New Brunswick seed and home grown seed was 137 bushels per are? "Why, that is a fair crop in itself," we interjected. "Not with us," repiled Mr. Williams. "We couldn't live on our small place unless we grew greater crops than that. This last year we had a pice of ground 300 by 42 feet in which we planted five bags of New Brunswick seed, Irish Cobbler variety. bags of New Brunswick seed, Irish Cobbler variety. The yield was at the rate of 485 bushels to the are and even then there were some misses in the stand as a part of the seed had rotted, due to the vet weather. The soil on which this crop was grown was pure black mick. The vines never mature so I believe that the crop grown on this soil will make good seed for the coming year.

4871/2 Bushels Per Acre.

487½ Bushels Per Acre.

"On our farm we ha calso sandy soil. On this soil I planted five bags of New Brunswick potates on a strip 14 rods long and 60 feet wide. The yield was it the rate of 487% bushels per acre. We have a strip rate of 487% bushels per acre. We have in bushel crates. Our main crop on the other had was grown from our own seed and it yielded at the rate of only 300 bushels to the acre."

All of these are exceptional rields. "How do yes do it?" we asked Mr. Williams.
"It is largely a case of soil fertility," declared he emphatically. "We manure heavily; 30 to 35 good big aingle horse loads to the acre. "his manure is drawn, from a slaughter hour in Peterboro' and quite a bit of it is pig manure. We have not used commercial fertilitier. We use 14 to 15 bags of Continued on page 15.

(Continued on page 15.)

The Nev

Who He

W HO is this man Bu This is a questio people as well have bee

It is a natural question From a position where known to comparatively f ers, besides those of his o ship, and a number of bre Holstein cattle, Mr. E Burnaby, of Jefferson, On-the past three months, has into a place where he is of the most prominent me ricultural circles in Canad ple, therefore, are naturall what are the qualities wb enabled him to make such enabled him to make such advance, who he is, and wh

advance, who he is, and winot he is likely to make a Mr. Burnaby's first big ji the provincial limelight to last December, when the who are shareholders in the Farmers' Cooperative Co., elected him a director of pany, and when immediate wards the directors of t pany appointed him, aith had had no previous exper dent of the company. A s by him in February, when dian Holstein-Friesian Cat at their annual meeting, el tained only after a breede Who Is

Mr. Burnaby farms on ounty. Highland Lake Fa county. Highland Lake Fa prises 170 acres. Across the aby owns another 50 acres, purchased 100 acres near to all this, he rents 450 a pasturage purposes adjoining between what he owns and

770 acres under operation.
Mr. Burnaby is one of most successful Holstein b advance, as a breeder, has thing he can do, he likes to believes that it often is earliers in the search of the search of the search operation. beneves that it often is earthings in a big way than small way. His success will point. When analyzed it is stand. The principles he easily to be understood, a ability such as Mr. Burnab

to make them succeed.
The Highland Lake Her The Highland Lake Hor-head, of which 30 are in re-head, of which 30 are in re-head of the head of the head of the Holatiens was made only to asked why he selected this characteristic: "I found," he records for milk and butter, periods, were held by Holst-fore, that that was the bree the which will be the head of the sart, he replied, "I went a the head of the best-breed



A general view of

The New President of the United Farmers' Company

Who He Is-What He Is-Why He Has Jumped Into Fame-What We May Expect From Him

W HO is this man Burnaby? HO is this man Burnaby?
This is a question s good
many farmers and other
people as well have been asking
pretty frequently of late.
It is a natural question.
From a position where he was

known to comparatively few farmers, besides those of his own township, and a nurber of breeders of Hoistein cattle, Mr. R. W. E. Burnaby, of Jefferson, Ont., within the past three months, has jumped into a place where he is now one of the most prominent men in agricultural circles in Canada. ple, therefore, are naturally asking what are the qualities which have enabled him to make such a rapid advance, who he is, and whether or

advance, who he is, and whether or not he is likely to make good. Mr. Burnaby's first big jump into the provincial limelight took place last December, when the farmers who are shareholders in the United Farmers' Cooperative Co., Limited, elected him a director of the com-pany, and when immediately afterwards the directors of the com-

pany appointed him, attnough he had had no previous experience on the board, presi-dent of the company. A second advance was made by him in February, when the members of the Cana-dian Holstein-Friesian Cattle Breeders' Association, dian Holstein-Friesian Cattle Breeders' Association, at their annual meeting, elected him as fourth vice-president of the association, a position usually obtained only after a breeder has had one or more years' experience at least on the board of directors. Who Is He?

Mr. Burnaby farms on a large scale in York county. Highland Lake Farm, his home farm, comprises 170 acres. Across the road from it Mr. Burnaby owns another 50 acres. About month ago he purchased 100 acres near Eligia Milli and this, he rents 450 acres of land, mainly for a pasturage purposes adjoining the home farm. Thus, between what he owns and what he rents, he has the acres under operation.

has now what he owns and what he rents, he has been even under operating the most extensive and most successful Holstein breeders in Canada. His advance, as a breeder, has been phenoment. He was a believes that it often is easier to succeed in deing things in a big way than doing little things in a small way. His success with Holsteins is a case in point. When analyzed it is not difficult to understand. The principles he follows are simple and easily to be understood, although only men with ability such as Mr. Burnaby possesses could hope to make them succeed.

to make them succeed.

The Highland Lake Herd comprises about 100 bead, of which 30 are in milk and the remainder breeding and young stock. Mr Burnaby's start in Holsteins was unade only three years ago. When saked why he selected this breed, his reply was characteristic: "I found," he said, "that all world's and hetter and the said. characteristic. "I found," he said, "that all world's records for milk and butter, either for short or long periods, were held by Holsteins. I decided, there-fore, that that was the breast a vanted to be iden-tified with." Asked further as to how he got his star, he replied, "I went all over Ontario visiting the herds of the heat-"becelers. I made it a point



The Type of Stock on Mr. Burnaby's Farm arge herd of Holstein Cattle, Mr. Burnaby has always almost at a

combination of good records and stong constitutions.

to pick out the cow that the man who had it didn't want to sell." The year he first started Mr. Burnaby purchased 40 animals, from such well known breeders as L. H. Lipst of Straffordville, J. A. Waliace and Mason Bros. of Simcoe, R. F. Hicks of Newtonbrook, Purtelle and Leavens of Bloomfield, and Wellington Sagor of St. George.

"In business," said Mr. Burnaby, "a man who has a good article never has any difficulty in disposing at a high price. A good article is often cheap at any price. When I we good article is often cheap at any price. When I we good article may be dear at any price. When I we good article is detected that this principle would apply intentions and the started in the second of the second o

"Our next herd sire was King Segis Pontiac "Our next herd sire was King Segis Pontiac Canada, as on of the beat proven son of the world's greatest sire, King of the Pontiace and Pride Hengerveld Lennoy, 30.12 lbs., a notes show cow and granddaughter of King Segis. Our consistence of the service is Avondale Pontiac Echo under 1se as on of May Echo Sylvia, the world's record cen for milk production and Canadian record for butter, viz., 41 lbs. in seven days. There is only one other 41-lb. bull in Canada." lb. bull in Canada.'

Some Fine Females.

With such herd sires it is not to be wondered at that Mr. Burnaby has sought to have equally good

females. In this he has largely succeeded, as anyone will see who obtains a copy of his "Book of Bulls," one of the most complete, if not the best, catalogue of aniif not the best, catalogue of an-mals that has ever been issued by a private breeder in Canada. His herd comprises, with not more than one or two exceptions, more more than one or two exceptions, more than one or two exceptions, more of the head of the head

When Mr. Burnaby's farm was visited recently by an editor of Farm and Dairy it was noted that

visited recently by an edition at Farm and Dairy it was noted that he paid careful attention to the comfort of his animals, even although, as he frankly confessed, who was a similar of the comfort of his animals, even although as he frankly confessed, as though as he frankly confessed, as he was a similar of heavy producing strains, been to select animals of heavy producing strains, both males and females of heavy producing strains, both males and females of heavy producing strains, front in my breeding operations. Gene type to the front in my breeding operations, leap type to the cross and the strain of the st

Here are some of them:

"Remember the saying—The bull is more than half the herd—one poor cow means one poor calf each year and one poor bull means all poor calves.

"The better bred sire you own the better bred and higher priced will be his offspring.

"You can always sell your bull calves if you own the right kind of sire.

"You can always sell your bull calves if you own the right kind of sire.
"You do not know how good a bull is if you do not know the official records back of him.
"Do not be satisfied with just pure breds, test them and be sure your sire is been any your females. Grade up not down, but be sure.
"Never buy a bull because he looks cheap He will probably prove very expensive, not to mention the years lost in finding it out.
"Remember it is quality that counts. Grow along outlity lines.

quality lines.

"Club with your neighbor and buy a good buil,
divide the cost and increase your profits by improving your herds, making a demand for your increase."

The Farm Buildings.

As will be seen by the accompanying illustrations.
Mr. Burnaby's home and farm buildings are attractive and commodious in character. They are situ(Continued on page 8.)



A general view of the buildings on Mr. Burnaby's farm. From left to right we have hired man's house, barns, and Mr. Burnaby's residence.

Sending Money to Soldiers



Those who have friends or relatives at the front, may wish to send money, but possibly do not know the best way to do so.

If time permits, the safest and most convenient method of making remittances abroad is the Bank Money Order or Draft, as issued by The Merchants Bank.

If, however, it is necessary to send money without delay, the Bank will arrange this by Cable Transfer.

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Deal with Farm and Dairy Advertisers

We have the first week on.

If there is any one point that is more important than another it is that perford cleanliness be preserved.



Feeding the Chicks By F. E. Ellis.

RTIFICIAL incubation is easy at least we have found it so. It for the utmost care and it is here for the utmost care and it is nore that the poultryman registers his heaviest losses. We have never fall-ed to hatch out a good percentage of chickens, but during the first season chickens, but during the hist season or two when we were getting our ex-perience with artificial brooding, we paid dearly for the knowledge gained. The method that we have found most The method that we have found most satisfactory is one recommended by Prof. W. R. Oraham at Gueiph. It is a method that calls for care, as the chicks are fed five or six times a day and every ounce of feed that they get must be weighed carefully.

The first day the chicks are in the The first day the chicks are in the brooder house they have warm water to drink and grit on the feed board. For the second day and the rest of the first week they are fed six times—at 6.45 a.m., 9.30 a.m., 11.35 a.m., and 2, 4, and 6.30 in the afternoon. The first week they get a mash mixed in the following proportions: Two bread crumbs, two cups rolled oats, the feed board once a day. The sec-ond day of this feeding, they are given ond day of this feeding, they are given one quarter of a teampoon of chick feed in the litter to 60 chicks after each feeding when they have cleaned up their mash. This amount of feed is just about right. They will go af-ter the chick feed a o energetically that they will throw the litter a foot or two and there is no surer sign that they are being overfed than when they do not take an interest in the chick feed. This first week they get no milk, but the several drinking fountains are always full of clean water.

second and third weeks the chicks have sour milk to drink in adtwo feeds a day of the same mash as the first week with the amount slightly increased, but with no chick slightly increased, but with no chick feed following, two feeds of chick feet, one and a quarter to one and one-half ounces to 60 chickens, and two feedings of a wet mash, compos-ed of 100 lbs. bran, 100 lbs. low grade flour, 100 lbs. corn meal, 100 lbs. beef scrap and 35 lbs. of bone meal. Fine scrap and 35 lbs. of bone meal. Fine white middlings may be substituted for the low grade flour, which is not now generally obtainable. At one feeding, the chicks are given all they will eat and in the third week the they get all of the mash they will eat twice a day instead of once.

The fourth week we start to hoppe feed the chickens and they have rolled oats in front of them all the time. These are not the table rolled oats, as are used in their mashes the first three weeks, but horse oats or bruised oats. At noon they get a mash crumbly wet of corn meal, roll-ed oats, middlings and beef scrap, ed oats, middings and beer scrap, equal parts of each, or where skim milk is fed, one-half part of beef scrap will be sufficient. At night they get chick feed in the litter, all they will clean up. The fifth week this same system is followed, but at six weeks and thereafter they are hopper fed, except for a wet mash at noon. It will not be long before they will be neg-lecting the wet mash and from then on they are entirely hopper fed, with a choice of rolled oats and a mixture of cracked corn and wheat. Charcoal, fine grit and fine oyster shell are kept before the chicks at all times from

throughout. The litter must be clean and free from dust. We have found excellent litter. The drinking dishes are washed and scalded regularly and the sningles on which the chicks are fed are never left on the floors longer than it is necessary for the feed to be eaten. If they have not a run of fresh green grass, they are given finely green grass, they are given finely pulped mangels or sprouted oats. They take a lot of enjoyment scratch-ing over the green sods which we cut ing over the green sods watch we cut and throw on the floor of the brooder house. And again let me say—it is absolute regularity and care in weighing rations that makes for successful

Poultry Facts and Theories By M. K. Boger.

HERE used to be a theory, and with some it is still believed, that the presence of a small, pigeon-sized egg means that that par-ticular hen has laid out her litter and ticohar hen has laid out her litter and will not beein for some time. That theory has been exploded by the aid of the trap nest. The records kept by the writer abow that on Pebruary 17 Brahma hen No. 27 laid a small, pigonesized egg; the next day she laid another small egg, but somewhat larger than the one of the day be-fore. Two days later she laid a regrelar-sized egg, and continued doing so until the 26th of the month, when she laid a double-yolked egg, which proved that both the pigeon-sized and double-yolked eggs are the pro-duct of hens that are too fat. This hen in question was very fat. Ment in some form must be fed

poultry. Fowls on free range, especially in an orobard, gather a vast amount of bugs, worms and insects that furnish them all the meat food required. But very few flocks have and as the majority of flocks are kept in confined quarters, the question of a meat supply must be carefully considered. The green bone cutter has question, but an injudicious green bone has caused troubles in other ways. It developed worms in fowls, and it produced irritableness in the stock. In young, growing stock it caused a too rapid development of the comb and wattlee. A tiously not more than an ounce for each hen, and no offener than every other day. An axcellent substitute for green boxe is the commercial meat sold by poultry supply houses. Being thoroughly cooked and dried. it is in a safe condition for feeding, and can be safely fed at the rate of 12 to 15 per cent.

While we believe in breeding up for heavy records, at the same time we would rather have our hens average 120 eggs a year, and remain in robust health, than to have their systems drained of vitality in the race to pass the 200 mark. There is a reason in all things. If we are to force our stock ahead to be champion layers, we are going to do it at the sacrifice of something else. What will become of our meat supply if we are going to put all the forces to work on eggs? When we spend our food and attention on the fowl with a view to creating an ideal carcass, do we not make the egg yield suffer? Will not this unnatural flow of eggs ted-to cripple fertility and make weak, puny chicks? Why not work for both to crapple fertility and make weak, puny chicks? Why not work for both eggs and meat? Why not have a limit? If we can gradually increase the powers of a hen so that she will average 300 eggs a year, and still maintain health and meat qualifics tions, it is advisable to go shead. But to build up the one at the ex-pense of the others will eventually produce a delicate race. We want the 200-eeg hen if we can get her within reason.

trenche nights vous strain. ing "coal be You are hi you still car to dressing depressed v that other There are Von must v

Up comes present big of manly e dressing sta home have He hands vo "In thou "it was that

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The Y.M met the he camp, then England an Often he ri trenches. from milit King!

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Will you helpfulness Canada for GENEROL

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National Ch

Vast Issues Depend Upon the Welfare of Our Boys

TRY to picture yourseif in the muddy cold trenches after exciting days and long nights of mortal danger and intense nervous strain. Rushing "whiz-bangs" and screaming "coal boxes" are no respecters of persons. You are hit! But despite shock and pain you still can face the long weary trudge back to dressing station. Weary, overwrought and depressed you are prey to wild imaginings of that other coming ordeal with the surgeon. There are other "walking wounded," tool You must wait, wait. And then—

Up comes a cheery Y.M.C.A. man, the ever present big brother to the soldier, with words of manly encouragement. Close beside the dressing station the good, generous folks at home have enabled him to set up a canteen. He hands you biscuits, and chocolate or coffee.

"In thousands of cases," writes an officer, "it was that first hot cup of coffee that dragged the man back to life and sanity!"

The tremendous helpfulness of the Y.M.C.A. as an aid to the "morale," or fighting spirit, of the soldiers is everywhere praised. No wonder the Germans make every effort to smash the Y.M.C.A. huts out of existence.



Cheer Up, and Thank God for the Y.M.C.A.!

Red Triangle Fund

\$2,250,000, May 7, 8, 9
Canada Wilde Appeal

The Y.M.C.A. is everywhere. You first met the helpful manly Y.M.C.A. worker in camp, then on train and boat, at camp in England and in France, close to the firing line. Often he risks his life to reach you in the trenches. He has won the warmest praise from military authorities, statesmen—the King!

Have you a precious boy at the front? You cannot be "over there" to guide him away from fierce temptations of camp and city. You cannot comfort him in his supreme hour of trial. Your parcels to him are necessarily few. But the Y.M.C.A., thank God, is "over there," going where you cannot go—doing the very things you long to do—doing it for you and for him.

Will you help? This vast organization of helpfulness needs at least \$2,250,000 from Canada for 1918. For your boy's sake be GENEROUS!!

Brief Survey of Y.M.C.A. Service to Soldiers

Branches in 20 Forestry Camps established last year.

Y.M.C.A. nightly under fire in many places.

300,000 letters a day written in Y.M.C.A. buildings.

Troops furnished with athletic equipment (helps morale of troops),

Entertainments, Bible classes, sing-songs, good night services and personal interviews conducted by Y.M.C.A. workers.

Y.M.C.A. Red Triangle Clubs in Toronto John, Montreal and other cities for returned soldiers and enlisted men.

Y.M.C.A. service extends from Vancouver to the firing line and then back to patients in hospitals until men are discharged.

Y.M.C.A. Secretaries accompany troop trains.

Between 400 and 500 millions of letters and cards written and posted in Y.M.C.A. tents, huts and dugouts since war began.

Splendid service to boys in Canadian Camp hospitals. Regular sing-songs and inspirational addresses with distributions of magazines, fruit, chocolates, gum, books and smokes.

National Council, Young Men's Christian Association

Headquarters: 120 Bay Street, Toronto

JOHN W. ROSS (Montreal) National Chairman of Red Triangle Fund Campaign. G. A. WARBURTON (Toronto)
National Director of Red Triangle Fund Camp ign.

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HIDES

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Tarvia Roads for Towns and Villages---

THE road problem of a small town is an awkward one. Property values as a rule cannot sustain costly types of

to Tarvia macadam every year in recognition lowered cost of maintenance and the net saving in taxation. When Tarvia roads are intropavement, whereas the traffic duced,

coming In from the surio unding coun t r ysid e may b e heavy.

roads

Made in Canada | business of 0 Preserves Roads Prevents Dust and more

towns so situated are Tarvia macadam Tarvia is a coal-tar preparation

which bonds the stone together, making a tough, slightly plastic surface which is automobileproof, dustless, and durable.

An old macadam road can be converted to Tarvia macadam at a slight cost and will thenceforth show a very low annual up-keep. In fact, hundreds of miles of macadam are being converted

goods coming in. goods coming in. Statistics invariably prove that where good roads replace por roads, the people of the community save enough in hauling expenses roads. And further, good roads will convert the most dismal, stuck-in-the-mud community into one the roads. And further, good roads will convert the most dismal, stuck-in-the-mud community into one the roads. And further, good roads will convert the most dismal, stuck-in-the-mud community into one large with the dollar, and the roads will be readed to the roads. The roads will be roads and mudles roads.

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There is a grade of Tarvia and a Tarvia method for most road prob-

Booklet on request. Address our nearest office



MONTREAL TORONTO WINNIPEG VANCOUVER ST. JOHN, N. B. HALIFAX, N. S. SYDNEY, N. S.

New President of the United Farmers' Company

(Continued from page 5.)

ated some 20 miles north of Toronto on the Metropolitan Electric Pallway. The farm derives its name from the fact that a most attractive lake of about 30 acres is located on the farm, immediately west of the house. The farm was bought three years ago. In the interval the houses and build-ings have been greatly improved.

The barns are lighted by electricity which also furnishes the power for

which also furnishes the power for open duling the separator, and other machiners used in the birn. In the machiners used in the birn. In the machiners well-arranged milk hours, splendidly, equipped and along the north side is a root cellar, 16 x 60 feet. There are two silos, 16 x 25 feet, both, of which were filled last all. Mr. Burnaby has had considerable success with his corn crop. Last year he grew some 28 acres, parts of which were over 12 feet in beight. His stables contain 22 box stalls. bast year he won second prize in the standing field crop competition for oats, this 10-acre field of oats threshing 77 bushels to the acre. Last year he grew 60 acres of Last year he grew 60 acres of

The home farm is divided into 20 acre fields, except for a two-acre paddock at the barn. For the most part, the soil on the farm is a heavy loamy clay. The principal crops grown are hay, oats, corn and roots, all of which are raixed for the purposes of the big herd of stock that is kept. Some idea of the scale on which Mr. Burnaby operates may be realized when it is stated that his sales last year of cat-tle alone exceeded \$25,400, in addition to which the income from cream sold to the Olive Farm Dalry, amounted to about \$3,000. It is not uncommon for him to receive \$600, \$800 and even and over for a single animal

Mr. Burnaby maintains four men steadily the year around, and claims to never have any trouble with his help. He has two good houses for the married men, fitted with a furnace, electric lights, 'phone connection, stationary tubs and a bath room. These houses are shown in the foreground in one of the accompanying Illustrations

Mr. Burnaby's Start.

While Mr. Burnaby is proving him-self a practical farmer and breeder, and now claims to have settled down to farming for life, his first success was really achieved in business. His progress in the business world was interesting and rapid. Born on a very small farm in Queen's county, Nova Scotia, 60 miles from a railroad, at a point that is still 32 miles distant point that is still 32 miles distant from railway connections, he lived there until 1899, when he was 17 years of age. His mother still lives there. There were seven children in the family, most of them boys, practically all of whom have made good in a big way. When 18 years of age, he took a six months' course in the business college at Belleville, after which he accollege at Belleville, after which he ac-cepted a position as book-keeper in an organ manufacturing company in Toronto, at a salary of \$8 a week. Within three years, he had become manager of the company, and was drawing a salary of \$1,500 a year.

Mr. Burnaby had outstanding ability as a salesman. He has proved this ability not only as a Holstein breeder, by obtaining the prices already mentioned for his stock and which have been a revelation to other breeders. but also by his success in selling the stock of the United Farmers' Coopera-tive Company, Limited. This quality of salesmanship manifested itself early in his business career, when after leaving the organ factory he accepted a position with the Canada cepted a position with the canada Life Insurance Company, with whom he remained as an agent for about four years. His work in this position led to his becoming manager for the Dominion Life Insurance Company, a position he held for three to four years. His next move was to the Imperial Life Insurance Company, as the manager for the city of Toronto and the county of York. For four years he was a member of the \$500,000 club, a club among insurance men which can be entered only by those agents who succeed in selling \$500,000 worth of insurance or over in a year. The fact that he was a member of this club for four years in succession is an indication of his ability. It is said that his commissions at this time amounted to over \$10,000 a year.
Having obtained a good start in the

fife insurance business, Mr. Burnaby next took up the real estate and fin-ancial business. Very Joon he had next took up the real estate and nn ancial business. Very soon he had over 50 salesmen whose salaries ranged up to as high, in the case of one man, as \$12,000 a year. After three years in this business, in which he was quite successful, he sold the hadrans for a read corporation. the business to a trust corporation

Lived in York County.

For nine years Mr. Burnaby lived near York Mills in York county, a short distance north of Toronto, where he became well acquainted with the farmers and breeders of the locality. Three years ago, having made all the money he felt any need for, he decided to take up farming and bought and moved to the farm on which he is now located.

Last summer, Mr. Burnaby attended a meeting at Markham, in York coun-tg, which was addressed by Mr. John Kennedy, vice-president of the United Grain Growers' Ltd. by Mr. J. J. Morrison of the United Farmers' Cooperative Company, Limited. He had heard a good deal about the farmers' nt in Ontario an l the west, and as more interested in it through addresses he heard that day. Later he attended other meetings, became convinced that the movement had great possibilities in Ontario and began to identify himself with it. Because of his business train-ing, his interest has naturally run largely towards the Cooperative Company. Already he has accomplished much valuable work for the farmers' movement. Realizing the absolute necessity that the company must have more money if it is to succeed, he took hold of the work and was instru-mental in selling several thousand do-lars' worth of stock at the last annual meeting of the United Farmers' Association, and of the shareholders of the company. It was his success in this work that was mainly instrumental in leading the delegates to elect him a director of the company. Since being elected president, Mr. Burnaby has sold thousands of dollars of additional stock and all without cost to the company. He has also visited Winnipeg, where he spent several days enquiring into the methods followed in business matters by the United Grain Growers', Limited.

It is yet too early to predict what the results will be of Mr. Burnaby's connection with the United Farmers' Cooperative Company, Limited. The problems that face him in his new problems that face him in his new position are different and probably more compileated and difficult than any he has ever encountered in the past. He is grappling with them earnestly, however, and freely sarificing his time and interests, without any salary return, in order that he may do so. His success, in a big way, in the things he has accomplished in the past gives reason to hope for an equal measure of success through his connection with the United Parmer's Cooperative Company, Limited Shevid connection with the United Farmers' Cooperative Company, Limited. She'dd he succeed in he'ping to pilot is company through its many initial dif-ficulties, and in establishing it on a firm basis, he will accomplish some-thing that will outshine and outlast all his achievements hitherto—H.B.C.

HORTICUL'

Seasonable Garde TRAWBERRIES may

and the plants can Small onion sets are ju large ones for growing l and there are more to the Herbs that should be den and that are easy mint, sage, and caraway Be prepared to spray this spring. Then do it If you can't do th out the orchard.

Onions that have been winter must be used as thaw out. As soon as i they begin to decay. Eat two potatoes instea

use less meat. You will and the soldiers will have A few evergreens plant home this year will soon that will protect the home Do not throw away t narcissi bulbs when they blooming, but plant them den or the flower border. Sow radish seed with or or carrot. They come up mark the row, making it

vate early. Parsnips properly cooke cellent vegetable. They grow. Get fresh seed an Cultivate well dur They are not hur

either early or late. Spiraea Van Houttei m hedge plant that does no Thunberg's barber haps better because it ca in the autumn. It is not for rust.

If your order of nursery before you are ready to I open and spread out the trench, packing the dirt w roots. It is a good plan t or two thirds of the shr that it may not dry out.

Clean-up for SI THE common garden slimy, slow-moving, mollusk of our gar mentals, and lawns, pro-

unusually serious this spr Remedial measurescare successful against it. A ge up of all trash, crop remni boards, etc., about the pr burning or destruction of nce-rows and about the fields followed by the ap air-slaked lime will do mo one practice to control sl other insect pests occur i situations and will be destr same time

If the clean-up is thorous bait, consisting of choppe of some green succulent clover, lettuce, etc.), one q one tablespoonful; and w or lead arsenate, one leve ful; thoroughly mixed, m tered in small heaps about and the borders of fields time with beneficial results

For best results with po should be fairly rich. per acre applied in the fall I have also found toes will pay good profits cial fertilizer, provided a la application is given to mal felt. I have found last y took at least 600 lbs. of a took at least 600 me. er per acre to make any i difference in the yield.

pounds, however, increases and resulted in earlier man works out at only four cer of row and a slight incre yield will easily pay for Maynard, Leamington, Ont.

HORTICULTURE

Seasonable Garden Work

TRAWBERRIES may be set out as soon as the ground works easily and the plants can be dug.

and the plants can be dug.
Small onion sets are just as good as
large ones for growing bunch onions,
and there are more to the quart.
Herbs that should be in every garden and that are easy to grow are
min, sage, and caraway.

Be prepared to spray the orchard this spring. Then do it at the right time. If you can't do this, better cut

out the orchard. Onlons that have been frozen over winter must be used as soon as they thaw out. As soon as they get soft

thaw out. As soon as they get soft hey begin to decay.

Eat two potatoes instead of one and use less meat. You will be better off and the soldiers will have more bacon. A few evergreens planted about the

ome this year will soon reach a size that will protect the home from winds. Do not throw away hyzcinth and narcissi burbs when they are through blooming, but plant them in the gar-

den or the flower border.

Sow radish seed with onion, parsnip, or carrot. They come up quickly and mark the row, making it easy to cuiti-

Parsnips properly cooked are an ex-cellent vegetable. They are easy to grow. Get fresh seed and plant them Cultivate well during the sum-They are not burt by froat, either early or late. Spiraea Van Houttei makes a good

hedge plant that does not need clip ping. Thunberg's barberry is per haps better because it carries berrie in the autumn. It is not a host plant

If your order of nursery stock comes before you are ready to plant, heel it in for a few days. Cut the bundle open and spread out the plants in a trench, packing the dirt well about the roots. It is a good plan to cover half or two thirds of the shrub in order that it may not dry out.

Clean-up for Slugs

THE common garden slug, this slimy, slow-moving, repulsive mollusk of our gardens, ornamentals, and lawns, promises to be unusually serious this spring.

Remedial measurescare only partly successful against it. A general cleansuccessful against it. A general clean-up of all trash, crop remnants, bits of boards, etc., about the premises; the burning or destruction of grass along fencerows and about the borders of fields followed by the application of air-slaked lime will do more than any one practice to control slugs. Many other insect pests occur in the same situations and will be destroyed at the same time

If the clean-up is thorough, a poison bait, consisting of chopped-up leaves of some green succulent plant (kale, clover, lettuce, etc.), one quart; sirup, one tablespoonful; and white arsenic or lead arsenate, one level teaspoon-ful; thoroughly mixed, may be scat-tered in small heaps about cold frames and the borders of fields at planting time with beneficial results.

For best results with potatoes, land should be fairly rich. I use 20 tons per acre applied in the fall and plowed dwn. I have also found that potadown. I have also found that pola-toes will pay good profits on commer-cial fertifizer, provided a large enough application is given to make its effect application is given to make its effect felt. I have found last year that it took at least 600 lbs. of a 2-10 fertiliz-er acre to make any appreciable difference in the yield. A thousand pounds, however, increased the yield at scaling in agains meturity. This pounds, nowever, increased the yield and resulted in earlier maturity. This works out at only four cents per rod of row and a slight increase in the yield will easily pay for it.—Douglas Maynard, Leamington, Ont.

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WRITE THE ALBERT DICKINSON CO. MINNEAPOLIS CHICAGO

BRINGING IN THE CASH

One way to do this is to increase your output by better methods of production—another is to conserve the feeding stuffs you now produce, making them go farther by carefully balancing the feeds. Study out this problem this winter. The one best bedwick as know on this subject is "OARPY FARMING," by Eckles & Warrel. You can secure it from our Book Department. The price is but \$1.56, neathy bound its lines.

Book Dept.

FARM and DAIRY

Peterboro

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SHEEP AND SWINE

The Cost of Pork Production HE unprecedented price of pork

for the past several months na-turally causes the consumer to question whether or not the rise is legitimately due to increased cost of production or to manipulation by the much abused middleman. The produc-er himself is frequently uncertain as to the actual cost of production when the various factors influencing costs have been accounted for. Indeed the charges against young pigs at six weeks of age, where the maintenance where no cheap by-product or refuse is available, and particularly where only one litter per year per sow is raised, is greater than many swine growers suppose.

The following figures are available from swine breeding operations at the Experimental Farm, Ottawa, and elsewhere on the Experimental Farms System and may throw some light on the question. To arrive at the cost of young pigs the feeding costs of not only the dam, but also the grand-dam are necessary. In other words the full maintenance cost of the young sow, together with her milking period charges, should be figured to arrive at the cost of the first litter. For succeeding litters a pro rata charge for each individual of the litter. should be made of feeding and breeding charges incurred while the sow was carrying and later suckling the

litters up to weaning time. Feed cost to raise a gilt to first farrowing Breeding charges, cost to feed while suckling litter 10.00

Total cost of first litter \$38.37

Cost per pig at weaning (7 in

a litter) If the cost were figured on the mar-ket value of the young sow, the cost of the litter per pig would be con-siderably higher—\$8.24.

If sold after raising one litter the \$35.00, or to nearly pay the total cost of her first venture.

retained as a brood sow, bred shortly after weaning, and subse-quently raising a second litter of seven pigs, the cost per pig would be in the vicinity of \$2.82.

The average cost per pig may be safely figured at \$3.00. Seven raised pigs per sow is a high average, numer ous individual cases to the contrary.

Costs Then and Now.

Several years ago at the Ontarlo Agricultural College, it was estimated that where all incidental feeding, maintenance and breeding charges were considered, young pigs could raised to six weeks at a cost of \$1.27 each, with an average litter of six and each, with an average litter of six and one-half pigs. Meal was charged at the rate of \$20.00 per ton; skim-milk, \$3.00 per ton; and roots, \$2.00. Pres-ent day prices would be \$50.00; \$4.00 and \$3.00 respectively at the lowest estimate and would explain the fact that the foregoing figures are so much higher than the Guelph findings, which were practically similar to those shown at the Central Experimental Farm at that time.

The cost to produce pork from these young pigs against which feeding charges at the average rate of \$3.00 each must be levied at six weeks of age, will vary widely with the methods of feeding. Figures from the Experimental Farms records methods of feeding. Figures from the Experimental Farms records would indicate that four pounds of meal, or the equivalent in other forms of food, per pound gain would be a safe basis. In the case of the bacon hog this would amount at present feed prices to \$13.00 to \$15.00 per pig. Adding to this the \$3.00 charge up to weaning time the total

feeding charge would be from \$16.00 to \$18.00. Where skim-milk and pas-ture were both available to replace meal, \$15.00 might be taken a fair feeding charge.

While the average overhead charge is relatively small in the case of the farmer who keeps but a few pigs, it is capable of wide variation, depending entirely upon the intelligent un-derstanding of the owner concern-ing the principles of swine husbandry. A range of from 20 to 60 per cent. of the feeding charges might be allowed. In most cases the lower figure might fairly be applied.

These estimates include only feed-ing and breeding charges and are exclusive of labor, depreciation, and overhead charges generally. The element of risk, much in evidence in swine raising, is also omitted.

Under proper management there is a fair profit in hogs. To the con-sumer and the prospective awine sumer grower the foregoing figures however, would indicate certainly that such profits are not excessive.

Dip Your Sheep This Year

N the face of the high cost of feeds and the ever-increasing necessity of greater production, it becomes imperative than ever before in the history of our sheep industry, that all handicaps such as the feeding of external parasites be eliminated as far as possible. It is next to impossible for sheep to make progress when covered with ticks and lice which annoy them continually. It is impossible to estimate the loss of feed and the depreciation in flesh when a flock is infested. One may be certain, how-ever, that a great portion of the feed consumed by the sheep is taken up by these parasites.

A flock free from ticks and lice is the best insurance towards the better production of wool. The continual rubbing against fences and racks, causes a loss of wool and damaged fleeces which are docked in price. Dipping should be regularly practised at least once a year, and better twice a year. The sheep should be dipped in the spring as soon after shearing as weather permits; in the fall, before the arrival of cold weather. This will not only free the flocks from ticks and lice, but also tends to keep them free from any skin disease. Even though no disease or parasites be present sheep should be dipped as a means of prevention and it stimu-lates the growth of the wool to some Small flocks can be dipped in vats or other suitable uutensils the farm, but in the case of large flocks a regulation galvapized iron or cement tank will be found much more

Community Dipping Outfit.

The initial cost of a convenient dipping outfit would be the greatest drawback to the small owner, who realizes the necessity of dipping at least once a year, but does not see his way clear to go to that expense, for a flock of from ten to twenty-five.

By the small flock owners in a dis trict combining and having a dipping tank jointly owned, it can either be placed at a convenient centre, all flocks for a radius of from two to four miles being driven to the centre and dipped on a certain day, or each theepman using the tank in turn on his own place. By the latter method it costs more for dipping fluids, as the smaller the flock dipped the greater the waste, but in either case the cost of dipping is greatly reduced.

It has been preached from the plat-It has been preached from the plat-form that the small farm, well tilled, will beat the large farm as an in-come maker. I once believed that my-self. I don't believe it now. Acreage is the prime factor in determining the size of the farmer's labor income. —A. Lettch, O. A. C., Guelph, Ont.



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THE On Thumbs

April 18, 1918,

HUMBS have not h T place in our polite litter fact they have been neglected. And like the tinpot knights who used to on quests of derring do, rold manks and barons over tocratic pates and dividing with the down trodden y am herewith coming out in

Were I a real novelist I on fingers, not thumbs. To may find in my lady's work long tapering fingers. The ally has square, honest f. At any rate they are stro-occasion they can fix them traps of steel on the thr villain. Yes, even the fingers, though they do

Oh, everyone in a story h But thumbs? Lord love you heard of thumbs in a naght we know to the con folks are a thumbless re thumbs crop out in detective order that they may leave the freshly "busted" safe or lock Holmes may deduce crook's in-turning thumbs h propensities. They are als W. C. T. U. writers as sign which employees find cirary which employees find cigare previous to denying the previous the desirable clerk these two exceptions merely rule, that thumbs are not de the anatomy of a "character But despite the slights w

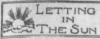
been heaped upon thumbs writers, they are tremendou appendages. I can speak w ity, not to mention feeling subject, for last week I cut on my right hand and had t in a sling. It was then the out how useless would be a farmhand. For instance, often heard people speak of a nut on to a bolt with the Try this for yourself and yo what an important part is the thumb. Try putting a nothe Ford, with your thumb a mere spectator, or try openi with your "fingers." You decide that it's not so bad finger. You have plenty of take its place while it co but a thumb is different. thumb is like the vacant ch never, etc. I will admit that is not built for style, but it handy-for it is set opposi

fingere fingers.

There's the point. It is De not imagine that I can see penting in fingers. I have the respect for them. While a lingers is not up to much thumb is out of order, on hand, you might have a doze and if you hand we have fineer fineer. and if your hand were finge would be in a sorry plight ind have their place, and their pl ite each other.

Have you ever noticed ho is felled by two chop right and one left-handed? long well because their gift posed. The same is true of ln looking over my little cir timate friends, I find that the characteristics in con find also that those character to be found in my makeup in almost every instance m are my opposites. They see tragic side of life; they thir before they speak; and, as why. Venus or Adonis have no them — while I am opposite way—and, must I confess reader, as homely as a rail f

It is not that one de



On Thumbs

HUMBS have not had a large place in our polite literature. In fact they have been shamefully neglected. And like the brave old tinpot knights who used to fare forth on quests of derring do, rapping rich old monks and barons over their aris-tocratic pates and dividing their spoils with the down trodden yeomanry, I am herewith coming out in defence of

Were I a real novelist I would write on fingers, not thumbs. They always may find in my lady's work basket has long tapering fingers. The hero usually has square, honest fingers, but even they may taper if he be artistic. At any rate they are strong, and on occasion they can fix themselves like occasion the can be a seen on the throat of the villain. Yes, even the villain has fingers, though they do twitch, to

Oh, everyone in a story has fingers.

Oh, everyone in a story has fingers.

But humbs? Lord love you, whoever heard of thumbs in a novel? For aught we know to the contrary book folks are a thumbless race. True, thumbs crop out in detective stories in thumbs crop out in detective stories in order that they may leave prints on the freshly "busted" safe or that Sher-lock Holmes may deduce from the crook's inturning thumbs his thieving ropensities. They are also used by 7. C. T. U. writers as sign boards on which employees find cigarette stains. previous to denying the prospective clerk the desirable clerkship. But these two exceptions merely prove the rule, that thumbs are not desirable in the anatomy of a "character."
But, despite the slights which have

been heaped upon thumbs by our writers, they are tremendously useful appendages. I can speak with authority, not to mention feeling on this subject, for last week I cut the thumb subject, for last week I cut the thumb on my right hand and had to carry it is a sling. It was then that I Tound out how useless would be a thumbiese farmhand. For instance, you have eften heard people speak of screwing a nut on to a bolt with their fingers. Try this for yourself and you will see what an important part is played by the humb. Try nutries a new tree. the thumb. Try putting a new tire on the Ford, with your thumb acting as a mere spectator, or try opening a sack of gluten feed, or untie a "hard knot" with your "fingers." You will likely decide that it's not so bad to cut a decide that it's not so bad to cut a finger. You have plenty of others to take its place while it convalences, but a thumb is different. An absent thumb is like the vacant chair which sever, etc. I will admit that a taumb is not built for style, but it's awfully handy—for it is set opposite to the finere.

There's the point. It is opposite. Do not imagine that I can see no good points in fingers. I have the highest respect for them. While a handful of fingers is not up to much if your thumb is out of order, on the other had, you might have a dozen thumbs and if your hand were fingeriess, you would be in a sorry plight indeed. Both have their place, and their place is opposite each other.

Have you ever noticed how quickly a tree is felled by two choppers, one right and one left-handed? They get ong well because their gifts are opposed. The same is true of friends. In looking over my little circle of in-timate friends, I find that they possess many characteristics in common. find also that those characteristics are not to be found in my makeup. In fact, net to be found in my makeup. In fact, is almost every instance my friends are my opposites. They see the more tragic side of life; they think deeply before they speak; and, as for looks, why. Venus or Adonis have nothing on them — while I am opposite in every way—and, must I confess it gentle Pader, as homely as a "sulf fence." reader, as homely as a rail fen not that one deliberately

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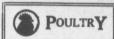
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chooses friends because of their nega tive characteristics, but that when people rub against each other, those who are temperamentally opposed, are attracted to each other in the same way as are two objects, one charged way as are two objects, one charged with positive and the other with nega-tive electricity. And it is rightly so. Two serious persons left in contact with each other would soon be in the dismals. Two jokers thrown together would soon be in the lunatic asylum. Mix these two classes and they strike a happy medium, with the serious one joyful and the cheery one depressed. The theory of opposites finds its largest acceptance in the matrimonial

FARM AND DATES

field. For instance, I am poor as a church mouse; I should, therefore, marry a wife as rich as the Queen of Sheba. It would not, however, be wise to mix temperaments that are too radi cally opposed. But a finger and thumb combination is a pretty safe bet. When two souls are starting out on such a long, long journey together, they cannot afford to become tiresome to each other. One should be able to supply the home with joy and the other with sorrow, as Blake has it,

"Joy and woe are woven fine
A clothing for the soul divine."
N.B.—And if the young couple are
opposite in makeup, both of their characters will be rounded out and they will live happily ever after-perhaps

Sam Kay

FEEDERS CORNER

Ration for Cow on Test

HAVE a cow I would like to test.
Having no roots, could you give me suitable without roots? We have good clover hay, ensilage, bran, oat chep, olicake meal, cottonseed meal, and giuten feed. What others would I need to get and what rate would I need to me and what rate would I need to me the suitable with them?

J. B., Wentworth Co., Oat. It is doubtful if the subscriber in-

quiring will be able to get the best test without roots, for not only have roots a very considerable food value, owing to their tonic effect and their influence on the digestibility of the grains, as well as the mildly laxative effect, roots are very essential in a test ration where the cow is being forced to a limit of consumption and production. To supplement the shortage of roots, I would auggest one feed daily of sugar beet pulp. This pulp could be thoroughly moistened with warm water and allowed to stand for an hour or more before feeding. Beet pulp will take up about four times its weight in water, and makes a palata-ble succulent substitute for roots, especially if a little molasses is added thereto. A very good test ration with the feeds mentioned might be composed of bran, 200 lbs.; oats, 150 lbs.; gluten feed, 150 lbs.; cottonseed meal, 150 lbs., and linseed oilcake meal, 150 This grain ration fed as required with an addition of good clover hav. ensilage and salt, should make a test ration which would be satisfactory to the average cow on test.-E. S.

Good Feeding-Small Calves

A WRITTER in a United States daily paper complains that his calves paper complains that his calves with the complete states of the complete states and the complete states and the complete states are considered by the control of the locality, its way is the control of the locality, its way is the control of the locality, its way is the control of the

cottonseed meal to cows would not influence the size or vigor of the calves at birth unless this were carried to the extreme of seriously in-jurieg the health of the cow while pregnant. Undoubtedly, cottonseed meal fed in excessive quantities to pregnant milch cows would induce the typical cottonseed poisoning so

feed with any class of stock. Howpounds for the average milch cow, or not exceeding four pounds to a large, heavy-producing fresh cow, it should have no injurious effect, providing, of course, it is properly mixed with other meals. Undoubtedly, the first injurious effect of the excessive use of cottonseed would be on the cow. Overfeeding the dairy cow with any feed stuff which would cause derange-ment of the digestive system or exessive fatness undoubtedly does affect to some extent the size and vitality of the calf at birth,-E. S. A.

Value of Annual Pasture

SMALL field of summer pasture A sown on the farm is very valuable in many ways. If the ordinary pastures are short and dried up during July and August, the piece sown to summer pasture will tide the stock over the dry pasture period. If the ordinary pasture is good, then the summer mixture can be cut for hay or allowed to ripen as a crop. It is an excellent crop with which to seed down, especially when pastured or cut early, and may be sown after the regular spring seeding is completed.

Summer pasture mixtures were sown on a number of farms last year with good results, in connection with the Illustration County work being conducted by the Commission of Con work being servation in Dundas county, Ontario On one man's farm five acres were sown as follows: one acre to oats and vetches, one acre to a mixture of wheat, oats and barley. This field en abled the farmer to save for hay another five-acre field, which gave a yield of 10 tons. The summer pas-The summer pasture grew so well that, when ready for use, it was fenced across and only half of it pastured. The two and one half acres, however, provided main pasture for 12 cows during July and most of August, and caused an increase of 35 pounds per day in milk which held up for more than a month, while other pastures were short. The other half of the field yielded six loads of mixed feed green and made into hay. The field was seeded to clover and timothy. and the onset of the winter found it in splendid condition with a good catch of grass and clover.—F. C. N.

Potatoes as a Hog Feed

S a growing or as a fattening ration potatoes alone are not an efficient hog feed. Grain should be fed with them and usually it will pay to add a protein supple ment such as milk, oilmeal, or tank-age. Grain is the standard hog feed.

Here are three such values. The Denmark station says 4 pounds of potatoes will replace 1 pound of mixed grain; the Wisconsin station says 41/2 pounds of potatoes will replace is pound of cornmeal; the Oregon sta tion reports that 5½ pounds of pota-toes are equivalent to 1 pound of barley. On the basis of the Wisconsin results, \$1.50 corn is as cheap a feed as potatoes at 35½ cents a bushel. Or a bushel of potatoes will replace 13½ pounds of corn. In a recent test by the United States Department of Agriculture at Beltsville, Md., potatoes were compared with corn. To replace were compared with corn. To replace a pound of corn 5.85 pounds of potatoes were required. Moreover, the potato ration required for each 100 pounds of pork produced 27 pounds more of protein supplement than was required on a corn ration.

Feed grain with potatoes. One plan is to mix grain and potatoes as soon as the latter are cooked, and allow it to steam until cool enough to feed. Use from one-sixth to onefourth as many pounds of grain as potatoes. Any grain is good. Add milk if possible. If not available, add one pound of oilmeal or half a pound of tankage to each fifteen pounds of grain-potato mixture.—R. C. Asby.



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Letters to the

"The One Dar DITOR, Farm and I it entirely unnecess such letters as the in a recent issue. I re not true of England, Wales, as a whole, thouse low part of some of the all my 35 years' life in E to farmers' markets and of thing-I never saw as enness as I have seen in here and I never heard ng and swearing and l More than that. These English who are to "dan Canadian boys don't take God and his son Jesus C God and his son Jesus, hips in the profane way in Canada. England, than good to judge Canada b She will look for someth and try to improve when without uncharitableness letter like that appears I subscription and as man

> "Is Thorough Cu Necessary

can.-G. L., Algoma Dist.

pleasure in adding a probation to the exce which appeared in the issue of Farm and Dairy mer I grew. I believe, to three-acre field of oats in The seed got but one se harrow after plowing. I broadcast, seven and one-of "41" oats to the three land was oat stubble and Near the end of June I hay on a five-acre field w

to be worth cutting. The a spear of timothy or co seen, only natural grass poor. On the morning o two-horse plow at this fle about half the field was in the afternoon while the were at the plowing, I at the field with oats broadco (I am an expert hand three o'clock I set the two harrowing after me with spring tooth harrow while herse team continued pl sundown all finished about I finished the sowing. horse team finished plowi acre field, and the harrow ed one scrape harrowing

ing the seed. That was all the harreself got. On Monday more 25, I rolled the field with roller, (as I also did with acre oat field spoken of al gang plow made such nice inch sod, that there was I of seed falling between th The crop grew to be an ex On October 3rd I cut the the binder. It resulted in or shocks-a fine field of sp feed-as it cured well in s

Another thing, farmers a too much seed. I only s bushels of oats on this five less than one and the bushels per acre. The seed good though, being 41 lbs. ured bushel. Two bushels eats is enough for an a Macdonald, Kings Co., P.E.

Have any of our folks ever ed a wooden windmill? A reader would like to have and a list of material for feet hight. Farm and Dairy glad to recompense any rough diagrams and des

Letters to the Editor

"The One Dark Blot"

DITOR, Farm and Dairy .- I think it entirely unnecessary to publish such letters as the one you have in a recent issue. I refer to the one actor letters as the one you have in a recent issue. I refer to the one on "England and Drunkenness." That is not true of England, So thand or Wales, as a whole, though it might be true of some low gambling den in a low part of some of the towns. But in all my 35 years life in England—going forms. to farmers' markets and all that kind of thing—I never saw as much drunk-enness as I have seen in my six years here and I never heard as much curshere and I never neare as much curr-ing and swearing and bad language. More than that. These wicked (†) English who are to "dam" your clean Canadian boys don't take the name of Ged and his son Jesus Christ on their hips in the profane way that I hear it in Canada. England, thank God, is too good to judge Canada by her worst. She will look for something to praise and try to improve where necessary without uncharitableness. If another letter like that appears I wil, stop my subscription and as many more as I ean.-G. L., Algoma Dist., Ont.

"Is Thorough Cultivation Necessary

DITOR, Farm and Dairy.-I take DITOR. Farm and Dairy.—I take pleasure in adding a word of approbation to the excellent article an cultivation by Mr. W. C. Good, which appeared in the March 28th issue of Farm and Dairy. Last summer I grew, I believe, the heaviest three-acre field of oats in these parts. The seed got but one scrape of the harrow after plowing. It was sown hardwards are to the three acres. The of "t" of sits to the three acres. The of "41" oats to the three acres. The land was oat stubble and second crop

hand was out supple and second crop.

Near the end of June I saw that the
hay on a five-acre field was not going
to be worth cutting. There was not
a spear of timothy or clover to be a spear of timothy or clover to be seen, only natural grasses and that poor. On the morning of June 23 I started a three-horse gang plow and a two-horse plow at this field. At noon about half the field was plowed and in the afternoon while U e two teams was at he alowing. I have were at the plowing, I began to sow the field with oats broadcast by hand. the sens with oats broadcast by hand (I am an expert, hand sower). At three o'clock I set the two-horse team harrowing after me with a 16-time spring tooth harrow while the three-borse team continued plowing. At sundown all finished about together. I finished the sowice team continued to the control of the sowice team of the sowice te I finished the sowing. The three-horse team finished plowing the fiveacre field, and the harrow team finished one scrape harrowing and cover ing the seed.

That was all the harrowing That was all the harrowing the field got. On Monday morning, June 35, I rolled the field with a heavy roller, (as I also did with the three-are out field spoken of above). The gas; plow made such nice work, 525 inch sod, that there was no occasion of seed failing between the furrows. The crop grew to be an excellent one On October 3rd I cut the crop with the binder. It resulted in 167 stooks or shocks—a fine field of splendid cow feed-as it cured well in stook.

Another thing, farmers are sowing too much seed. I only sowed nine bushels of oats on this five-acre field, less than one and three-quarter bushels per acre. The seed was extra good though, being 41 lbs. per measured bushel. Two bushels of good cats is enough for an acre.—J. A. Macdonald, Kings Co., P.E.I.

Have any of our folks ever constructed a wooden windmill? An Ontario reader would like to have directions and a list of material for a mill 30 feet hight. Farm and Dairy would be glad to recompense any reader for rough diagrams and description of \$2.21 Per GUARANTEED (



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The Rural Publishing Company, Ltd., PETERBORO AND TORONTO

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

Farmers and Farmers

LL over America, "agriculturists" are dividing into two classes. In the first group are those who own farm land but who do no work on it themselves, either leasing it or depending on hired labor. The other group is made up of working farmers-men who own their own farms, with or without mortgages, and who are struggling against the burden of indirect taxation and the monopolies that indirect taxation creates, to make an honest living in the most essential and honorable of all industries. They are the farmers whose children go to the district schools and who take a deep personal interest in the improvement of the neighborhood and in the maintenance of its churches.

Fortunately, the latter group of farmers still predominate in Canada. Even here, however, the proportion of tenant farmers is slowly but surely increasing, and many great landed estates have already been established. In the United States there are whole states in which tenant farmers are in the majority and corporation farming is an established institution. Just how conflicting are the interests of these two groups of farmers is well illustrated by recent developments in the State of California, where the two classes of farm land owners have come to an issue over the question of Chinese labor.

The bona fide farmers don't want Chinese for their neighbors. They know that the tenant system of farming is growing rapidly, and they know that men who have no personal interest in the neighborhood will not hesitate to lease their land to Chinese, who would soon outnumber the whites in that locality and ruin the neighborhood as a congenial home for themselves and their children. On the other hand, the land speculators, absentee owners and real estate agents are adding their clamor to that of urban employers of labor and insisting on the importation of Chinese. In self defense, California farmers of the producer class have now joined hands with the labor unions of the cities in a powerful new organization known as "The California Union of Producers and Consumers."

It may be many years before we in any part of Canada are faced with so serious a situation as has developed along with tenant farming in Californie. The

tendency, however, slow though it be, is in the same direction. Our land laws and our systems of taxation are the same as theirs. We have no special Providence watching over our destinies. If we are wise, we will learn a couple of valuable lessons from the experiences of our neighbors in the south-west. The first is the essential unity of interest between bona fide farmers and the laboring men of our cities; the farmer makes his income from his labor, rather than from his capital invested. The second lesson is the danger of a system of taxation which makes it easy for capitalists to obtain control of farm land. The logical remedy for this is a change to a system of taxation which would make it impossible to profitably hold land out of use and thereby exploit those who must work the land for a living. Such a system is the taxatice of land values recommended by all the great farme's' organizations of Canada. The real problem is summed up in this question: Do we want real farmers in Canada or are we going to develop the system of absentee land ownership which has cursed so many older lands?

The Swing to Grain

WELL read, observant dairy farmer remarked to us a day or two ago that if the war continued much longer, dairying would come on hard times. He commented on the ever increasing price of grain without compensating advances in the price of dairy products. Labor, too, he thought, had advanced out of proportion to its earning power. Both of these factors tend to induce dairy farmers on good land to reduce their herds and swing to grain. "But the swing back to dairying will be even stronger, once the war is over," he added. "I find that such is the history of agriculture in all past wars-a swing away from live stock and then a swing back." If we would add to our friend's predictions, it

would be by suggesting that it is easier to swing to grain than it is to swing back to dairying. Building a dairy herd, a profitable dairy herd, is a labor of years. Dispersing it is the matter of a few hours and the assistance of a good auctioneer. We cannot emphasize too strongly, however, that if markets follow the usual course after the war, dairy and animal products will be at a premium and the grain market will be in a state of demoralization. men who will then be in a position to profit by the greater demand for dairy products will be the man who has held on to his herd. We cannot advise dairy farmers, in view of the present labor situation and the high price of grain to increase their herds. We believe, however, that all dairymen will be well advised to "carry on" and keep their herds well up to normal. If some of the milch cows must be disposed of, then be sure that there are equally good heifers coming along to take their place.

There is one exception to this rule—the man with lots of natural pasture and whose land is not specially adapted to grain growing could find no better time than now to profitably increase his dairying operations.

The Happy Medium

66FF HARRY THAW had had to work for a living. he would probably have been a very decent,

respectable fellow.

With this telling illustration, Dr. J. G. Rutherford, "Canada's biggest farmer," announces his belief in the doctrine of work. We all agree with him: a certain amount of work is good for all, even the boys and girls in school. There is nothing like work to keep the youngsters out of mischief, and it aids in their mental and spiritual as well as their physical development. Come to think of it, the greatest curse of the city youngster is idleness; enforced idleness because there is nothing to do.

And the greatest curse of too many country children is so much work that it becomes drudgery. And drudgery, to the child, is soul-destroying. It stunts development, mentally and physically. It is a common thing for the country child, particularly the boy. to be taken out of school young; he is needed to help at home. The majority of school children in rural Canada never get so far as to write their entrance examinations. Dr. Rutherford states that eighty-five per cent. of the boys and girls who attend the agricultural schools in Alberta have not passed the third grade in the public schools. Fortunately, the more easterly provinces can make a better showing, but not by any stretch of the imagination could the show ing in any province be considered satisfactory.

Here we have the two extremes: too little work for the city youngster; too much for the country boy or There is a happy medium where manhood and womanhood reaches its strongest, sanest and best development. This happy medium is most easily at tained in the country, and we are glad that an increasing proportion of rural parents are studying the problem of child development. For the child of to-day is the citizen of to-morrow, the maker of the future destiny of the nation.

The Next Fuel Shortage

THE Dominion Fuel Controller calls attention to the advisability of laying in a stock of wood fuel for use next winter. He urges municipalities to stock up with wood wherever possible, and it is even suggested that city and town councils acquire wood lots and cut wood as a municipal enterprise. not for profit, but as a safeguard against a more serious fuel shortage next year than the one from which we suffered this past winter. Farmers who have wood lots are urged to depend on their own fuel largely, if not altogether, for the next winter's use.

Eastern Canada cannot afford to overlook the fact that a very considerable proportion of its coal supply comes from the United States. The coal shortage of that country has been officially estimated to be not less than 50,000,000 tons, and Federal and State fuel administrations have been appointed to assist in solving the very serious problems which have resulted from this great shortage in the production of coal. Authorities consider that this shortage will continue for the duration of the war, and the situation is bound to affect Canada seriously. The obvious thing for us to do, therefore, is to consider how far our great forest resources may be utilized to meet the conditions that may possibly face at least the eastern portion of the country during the next water. As individuals, we farmers can play an important part by each one of us making an effort to secure our own fuel. The Fuel Administration, however, will do well not to forget that large sections of Ontario, and of some of the other provinces as well, have practically no wood lots left, and the limitation of coal deliveries in these districts would work a serious hardship.

"Red Triangle" Fund

W HEN the war broke out, the Young Men's Christian Association was almost wholly a city organization, depending on city money for its support and on city young men for its membership. In the last three and one-half years, however, the magnitude of its war services has made the Y.M. C.A. a national asset of the first order and deserving of the hearty good will and financial support of every citizen in every community in Canada. When the first Canadian contingent transferred its training camp from Valcartier to Salisbury Plains, the Young Men's Christian Association went with them. When our boys went to France, the "Red Triangle Huts" immediately became the popular gathering places. where, amid healthy Christian surroundings, entertainment and reading matter were provided, and it was here, too, that hundreds of thousands of letters have been written to the folks back home on Y.M.C.A. writing materials. The environment of these huts has held many a boy to the path of clean living when the temptations to which all soldiers are subjected would otherwise have led him astray. And when the boys went forward into the trenches, the sign of the Red Triangle went with them, and Y.M.C.A. workers dispensed hot tea and coffee in the very front line trenches during the heaviest bombardments.

The leading men of all the Entente nations have expressed their warm admiration of the work accomplished by this association. But all of this work requires money. The Canadian Y.M.C.A. is alming to raise \$2,250,000 in the three days, May 7-8-9. They are appealing for the support of every Canadian in the raising of this fund. They are asking for the contributions of the people who live in the country as well as those who live in the city. An announcement of this campaign is given elsewhere in this issue. Look it up and consider carefully the claims of "The Red Triangle" fund on your generosity.

In U

A Million Dollar Busines NE of the best o

cessful cessful co-op farmers is fu Fraser Valley Milk F ciation. While this only been organized to has already made a ns the dairy world. In months of its existence its 848 farmer member dollars. In fact, the s received by the farmer was \$1,286, with an av \$42 per member still from the reserve. It is about four years

attempt was made to or Producers of the distri had been set by the mi very little attention pa of the producers. The was not a success. A ever, when the new or suggested, 80 to 90 pe farmers signed up cont their entire products f the association. It was share for every can of supplied; in other word age amount supplied I would run to two cans \$100 worth of stock share of this was paid ciation, and the remain taken up by deduction cheques for each month the association has, after year's operation, a paid over \$70,000. Of this \$40 ed in the milk distribu Vancouver

Large Equipm At the present time t of the association is there being \$23,484.46 inv and machinery. The dement runs to over \$4,000 invested in cans. Alto working capital is about

In addition to marketin their members, they have tensively into the coop chase of feed, and it re \$10,000 working capital This turnover is nomically, the net cost of ing about \$13,500 per makes it about four-fifth cent. butter fat. It was e the association has obta producers about 10 cent butter fat increase over have been obtained in marketing, so that the r members have been hig On this assumptio dual investing \$50 in the will receive \$3 interest for his investment. He will more for a can of milk tes cent, and \$36.50 on the or a total of \$185.00 net; \$50 investment for one covering a period of one

Will Get More Ca At the annual meeting capital will be provided to the extensions in the chandling the surplus mill purpose they are asking serve for distribution, \$36 divided, but be added to It is not difficult to stock that with such an admira little difficulty was experi signing the members duri fall on three-year instead of contract. This long period the consolidation of the fa association and its establis permanent foundation.

The new secretary of Farmers of Alberta is Mr. botham, who will succeed secretary, Mr. P. P. Wood resigned recently. Mr. Hf

In Union There is Strength

A Million Dollar Cooperative Business

NE of the best examples of suc-Ose of the cost examples of suc-cossful cooperation among farmers is furnished by the Fraser Valley Milk Producers' Asso-ciatios. While this association has only been organised twelve months, it has already made a name for itself in months of its existence it paid out to its 48 farmer members over a million dollars. In fact, the row of the concessful dollars. In fact, the average amount received by the farmers for this period was \$1,286, with an average of almost \$42 per member still to be divided from the reserve.

from the reserve.

It is about four years since the first attempt was made to organize the Milk Producers of the district. Up to that time milk prices in British Columbia. time milk prices in British Columbia had been set by the milk dealers with very little attention paid to the views of the producers. The first attempt was not a success. A year ago, however, when the new organization was suggested, 80 to 90 per cent. of the auggested, so the per cent of the farmers signed up contracts to supply their entire products for the year to the association. It was financed by each farmer agreeing to take a \$50 ahare for every can of milk which he supplied; in other words, if the average amount supplied by the farmer would run to two cans he would take \$100 worth of stock. Only \$20 per share of this was paid into the association, and the remaining stock was taken up by deduction from the milk cheques for each month. As a result, the association has, after less than a year's operation, a paid-up capital of over \$70,000. Of this \$40,000 is invested in the milk distribution plant in

Large Equipment.

At the present time the equipment is considerable, there being \$23,484.46 invested in plant and machinery. The delivery equip-ment runs to over \$4,000, and \$5.400 is invested in cans. Altogether their working capital is about \$75,000.

In addition to marketing the milk of

their members, they have also gone ex-tensively into the cooperative pur-chase of feed, and it requires about \$10,000 working capital for this one item. This turnover is handled eco nomically, the net cost of operating be nomically, the net cost of operating be-ing about \$13,500 per year, which makes it about four-fifths of one per-cent butter fat. It was estimated that the association has obtained for the producers about 10 cents per pound butter fat increase over what would have been obtained in competitive marketing, so that the results to the marketing, so that the results to the members have been highly satisfac-tory. On this assumption, an indivi-dual investing \$50 in the share capital will receive \$3 interest for one year on his investment. He will receive \$146 more for a can of milk testing four per cent., and \$36.50 on the distribution, er a total of \$185.00 net profit on the \$50 investment for one can of milk, covering a period of one year.

Will Get More Capital.

Will Get More Capital.
At the annual meeting considerable
capital will be provided to take care of
the extensions in the city and for
handling the surplue milk. For this
purpose they are asking that the reserve for distribution, \$36,270, be not
divided, but be added to the capital
stock. It is not difficult to understand
that with such an admirable showing. to the such an admirable showing little difficulty was experienced in resigning the members during the past signing the members during the past fall on three-year instead of a one-year contract. This long period will permit the consolidation of the forces of the association and its establishment on a permanent foundation

The new secretary of the United The new secretary or the United Farmers of Alberta is Mr. H. Higgin-botham, who will succeed the former secretary, Mr. P. P. Woodbridge, who resigned recently. Mr. Higginbotham

has had an excellent training for his new position. For some year, he had newspaper training in England and later in Alberta. He spent two years at the Olds School of Agriculture, Alberta, and during the last three years has had an editorial and advertising tion on the Grain Growers' Guide of Winnipeg. He is about thirty years of age. Mr. Higginbotham thoroughly understands agricultural conditions in the West, as well as the economic problems that must be solved if the welfare of farmers as a class is to be best promoted. He is acquainted with the leaders in the farmers' movement in Canada and is an energetic and tactful man. Ere long he should be one of the leaders in the farmers' movement.

Big Crop of Potatoes

(Continued from Page 4.) continues from rage s.)
seed to the acre, cutting the seed to
two eyes in two ounce pieces as near
as we can. Our large yields may be
explained in part too by close planting. We never have he rows more
than two feet apart and drop the seed
15 inches apart in the dril,
"And how about the preparation of
vour soil""

We always get the land in the very we always get the land in the very best of shape before we plant. Some-times the land is plowed and manured in the fall; usually it is plowed. This last year we manured in the spring, and it has been our experience that and it has been our experience that spring manuring does not cause scab as some authorities claim. Mr. Raynor, for instance, was fearful of scab but when he saw my potatoes in the cellar, he admitted that he had never seen a cleaner lot. We always plow in the spring and work the land thorough-

Planting Methods.

"When it comes to planting, we have a way of our own. We mark the have a way of our own. We mark the rows out with a hand-drawn marker and then put the potates in with a hoe. A man can go along chopping, out the holes in two rows at almost out the holes in two rows at almost out the holes in two rows at almost an ordinary walking pace. The seed an ordinary walking pace. an ordinary walking pace. The seed is dropped in these holes three or four inches deep and then we cover with a plank drag. We harrow frequently until the plants are up a couple of inches, or so that we can see the rows

inches, or so that we can be composed inches, or so that we dark these the rows incely. Then we start these the rows incely. Then we start the solution and cultivate every week or ten days until the crop is taken out.

"The Irish Cobbler is an early variety, and we plant it as early in the spring as possible to take advantage of the early market. Last year we planted on April 18th, and dug our fixet postates for market or the 12th rest postates for market or the 12th rest postates for market fixet week in May. We grow Irish first week in the base little advantage in growing he later varieties."

see fittle advanage in growing las later varieties."

Mr. Williams does not spray for blight. He once sprayed for three successive years, but in those two years belight. He one sprayed for the successive years, but in those two years have been been been been dead to be the same of the same of the same of the same year. He does not claim that this is the best plan, but it is necessary on his small acreage. The heavy manuring, of course, will tend to keep the soil in good physical condition, and there is no danger of the muck running short of humus. The than years which Mr. Williams wishes the muck running short of numus. The main point which Mr. Williams wishes to emphasize is the value of imma-ture seed. He intends to continue his tests with New Brunswick versus home grown seed again next year.

Disking stubble land before plowing will result in a better seed bed and a heavier crop. There are no air spaces under the furrow slices.

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for its erection



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PON'T fancy that you will lower yourself by sympathy with the lower creatures; you cannot sympathize rightly with the higher, unless you do with those.—Ruskin

The Heart of the Desert

(Continued from last week.)

THINK animals come to the spring to drink," said Rhoda.
"There were wet footmarks there when I went down to wash my face."
"Bully!" exclaimed John. "Wait now, let's watch."

The two dropped to the ground and peered over the edge of the upper terrace. The spring bubbled forth serenely, followed its shallow trough a short distance, then disappeared in-to the insatiable floor of the desert. For several moments the two lay watching until at last Rhoda grew restless. DeWitt laid a detaining hand on her arm.
"Hush!" he whispered

A pair of jack-rabbits loped up the trail, sniffed the air tentatively, then with forelegs in the water drank greedily. DeWitt's right arm stiffened, there were two puffs of smoke and the two kicking rabbits rolled into the

"I'm beginning to have a little selfrespect as the man of the party," said DeWitt, as he blew the smoke from bls Colt.

Rhoda ran down to the spring and lifted the two wet little bodies. John took them from her.

"If you'll find some place for a table. I'll bring these up in no time."

When DeWitt came up from the spring with the dressed rabbits, he spring with the dressed rappits, he found a little fire glowing between two rocks. Near by on a big flattopped stone were set forth two earthen bowls, with a brown water-iar in the center. As he stared, Rhoda came out of the building with interested face.
"Look, John! See what I found on

a little corner shelf!" She held in a little corner spen. her outstretched hand a tiny jar no ber outstretched hand a tiny jar no bigger than a wine-glass. It was of an exquitely polished black. "Not even an explorer can have been here, or nothing so perfect as this would have been left! What hands do you suppose made this!"

But DeWitt did not answer her question.

"Now, look here, Rhoda, you aren't do anything like starting a fire and lugging these heavy jars again! You're not with the Indians now. Rhoda looked at him curiously.

"But I've learned to like to do it!"

she protested. "Nobody can roast a rabbit to suit me but myself," and in spite of DeWitt's protests she spitted the rabbits and would not let him fine an art for his untrained hands In a short time the rich odor of roast-ing flesh rose on the air and John watched the pretty cook with miration mingled with perplexity.

Rhoda insisting on cooking a meal!

More than that, Rhoda evidently enjoying the job! The idea left him

An hour after Rhoda had spitted the game, John sighed with content-ment as he looked at the pile of bones beside his earthen bowl.

"And they say jacks aren't good

eating!" he said. "Why if they had been saited they would have been better than any game I ever ate!"

"You never were so hungry before," said Rhoda. "Still, they were well roasted, now weren't they?"

roasted, now weren't they?"
"Your vanity is colossal, Miss
Tuttle," laughed John, "but I will admit that I never saw better roasting." mit that I never saw better roasting. Then he said soberly, "I believe we had better not try the trail again today, Rhoda dear. We don't know where to go and we'ye no supplies. We'd better get our strength up, rest-

"Rhoda, if a white man had done this thing I would shoot him as I would a dog. What do I care for a law in a case like this! We We were should this Indian be let go when he

Rhoda looked at him keenly. "You talk as if in your heart you knew you were going to kill him because he is an Indian and were try-

ing to justify yourself for it!"

He turned on the girl a look so haunted, so miserable, yet so deter-mined, that her heart sank. For a mined, that her heart sank. For a time there was silence, each afraid to speak. At last Rhoda said coolly: "Will you get fresh water while I bank in the fire?" DeWitt's face relaxed. He smiled

a little grimly.

"I'll do anything for you but that one thing—promise not to kill the In-

"The desert has changed us both, "The desert has changed us both, John," said Rhoda. "It has taken the veneer off both of us!" "Maybe so," replied DeWitt. "I only know that that Apache must pay

for the hell you and I have lived through.

"Look at me, John!" cried Rhoda.
"Can't you realize that the good Kut-le has done me has been far greater than his affront to me? Do you see how well I am, how strong? Oh, if I

John rose and walked up and down 'the human soul appalled her. This could have shown her. It mickened her as she realized that no words of that she was trying to stay with her were as old a world-force as love itself. All her new-found strength seemed inadequate to solve this new problem

CHAPTER XIX. The Trail Again.

For a long time Rhoda sat silently For a long time Rhoda sat silently considering her problem and John watched her soberly. Finally she turned to speak. As she did so, she caught on the young man's face look so weary, so puzzled, so altosmote her. This was indeed a poor Rhoda jumped to her feet with

ner. Rhoda jumped to her teet with resolution in her eyes. "Are you too tired to explore the ruins?" she asked.

DeWitt rose languidly. Rhoda had responded at once to rest and food but John would need a month of care and quiet in which to regain his

"I'll do anything you want me toin that line!

Rhoda carefully ignored the last nhroso

"Even if we're half dead, it's too bad to miss the opportunity to exam-You couldn't find as glorious a setting for a ruin anywhere in Europe."

"Oh, yes, you could; lots of 'em," answered DeWitt. "You can't compare a ruin like this with anything in What makes European ruins appeal to us is not only their intrinsic beauty but the association of big thoughts built them and perhaps destroyed them."

"What do you call big thoughts?" asked Rhoda. "Wasn't it just as great for these Pueblo Indians to perform such terrible labor in building some old king to work thousands of slaves to death to build him a mong ment?

DeWitt laughed.

"Rhoda, you can love the desert, its Indians and its ruins all you want to, if you won't ask me to! I've had all I want of the three of them! Lord, how I hate it all!"

Rhoda looked at him wistfully. only he could understand the spiritual change in her that was even greater than the physical! If only he could see the beauty of those far lavender hazes! If only he could un-derstand how even now she was heartsick for the night trail where one looked up into the sky as into a shadowy opal! If only he knew the peace that had dwelt with her on the holiday ledge where there were tints and beauties too deep for words! And yet with the wistfulness came a strange sense of satisfaction that all this new part of her must belong forever to Kut-le.

John led the way into the dwelling All was emptiness and ruin. All that remained of the old life within its walls were wonderful bits of pottery. Only once did DeWitt give evidence of pleasure. He was examining the carefully finished walls of one of the rooms when he called:

"I say, Inoda, just look at this bit of humanness!"

Rhoda came to him quickly and he pointed low down on the adobe wall where was the perfect imprint of a baby's hand.

baby's hand.
"The little rascal got spanked, I'll
bet, for putting his hand on the 'dobs
before it was dry!" commented John
Rhoda smiled but said nothing.
These departed peoples had become very real and very pitiable to her.

(Continued next week)

The Upwa

Winning Thro RECENTLY we helpful and institled "Abide in late Rev Andrew & known missionary to It teaches the secret It teaches the secret through the power of Christ, over besettin, pose publishing extra book for some week will prove a means to the readers of Those who would in book for themselves ies through Farm as All Ye Who Have

"Come unto ma."
"Abide in me."—John "Abide in me."—John
It is to you who
hearkened to the ca
me," that this new i
"Abide in me." The from the same loving doubtless have never that His word was i partakers of the ble joy of His love. We come most hearty, His free, His love most first coming to Him,

And yet you have I of disappointment: as your expectations we: The blessings you one lost; the love and jo meeting with your Say deepening, have beco-feeble. And often you what the reason could such a Saviour, so mis ing your experience should not have been a The answer is very wandered from Him.

He bestows are all His "Come to Me," a be enjoyed in close Himself. You either understand, or did not ber, that the call me Me to stay with Me," was in very deed His pose when first He Himself. It was not for a few short hours version with the joy o to wander in sa He had destined you to fer than a short-lived be enjoyed only in ti earnestness and praye pass away, as you has those duties in which part of life has to be deed; He had prepare abiding dwelling with i your whole life and ev it might be spent, when your daily life might where all the while you loying unbroken com Himself.

And observe especial that He said, "Come to with Me," but, "Abide in tercourse was not only broken, but most intin plete. He opened His you to His bosom; He heart, to welcome you to ed up all His Divine and love, and offered to into its fellowship, to ma of meaning you cannot His words: "Abide in M

And with no less ear He had cried, "Come to plead, had you but noti in Me." By every motiv duced you to come, di

Back up the Troops by Substituting



THE FOODS WE THE FOODS THE

ing here to-day, and to-morrow start in good shape.'

Rhoda looked wistfully from the shade of the pueblo out over the des-ert. She had become very, very very, very tired of this endless fleeing.

"I wish the Newman ranch was just over beyond," she said. "John, what will you do if Kut-le comes on us

DeWitt's forehead burned a painful

"I have a shot left in my revolver,"

Rhoda walked over to John and put hand on his shoulder as he looking up at her with somber blue eves.

"John," she said, "I want you to promise me that you will fire at Kut-le only in the last extremity to keep him from carrying me off, and that you will shoot only as Porter did, to lame and not to kill."

John's jaws came together and he returned the girl's scrutiny with a steel-like glance.

Why do you plead for him?" he asked simply.

could only make you see what a different world I live in! You would have been tied to an invalid, John, if Kut-le hadn't stolen me! Think now of all I can do for you! Of the home I can make, of the work I can do!" DeWitt answered tersely.

"I'm mighty glad you're well, but only for your own sake and because I can have you longer. I don't want you to work for me. I'll do all the working that's done in our family!" I don't want

"But," protested Rhoda, "that's just keeping me lazy and selfish!"

"You couldn't be selfish if you tried. You pay your way with your beauty. When I think of that Apache devil having the joy of you all this time, watching you grow back to health, taking care of you, carrying you, it makes me feel like a cave man. could kill him with a club! heaven, the lynch law can hold in this forsaken wpot! And there isn't a man in the country but will back me up, not a jury that would find me guilty!"

Rhoda sat in utter consternation. The power of the desert to lay bare

The Upward Look

Winning Through Christ

Winning Through Christ

Pociny TLY we have read a most
helpful and inspiring book, enlate Rev. Andrew Murray, the well
known missionary to South Africa. It teaches the secret of daily victory,
through the power of the indwelling
Christ, over besetting sins. We purpose publishing extracts from this
book for some weeks and hope they
will preve a means of great blessing
to the readers of this department.
Those who would like to obtain the
book for themselves may obtain copjee through Farm and Dairy for 60
cents each—"H.M.".
All Ye Whe Have Come Te Him.
"Come unto ms."—Matt. xt. 28.
"Abdde in me."—John xv. 4.
It is to you who have theard and
hearkened to the call, "Come unto
me." That this new invitation comes,
"Abdies in me." The message comes
from the same loving Saviour. You

"Abide in me." The message comes from the same loving Saviour. You doubless have never repented having come at His call. You experienced that His word was truth; all His promises He fulfilled; He made you partakers of the blessings and the joy of His love. Was not His wel-come most hearty, His pardon full and come most hearty, His pardon full and free, His love most sweet and pre-clous? You more than once, at your first coming to Him, had reason to asy. "The half was not told me." And yet you have had to complain

And yet you have had to complain of disappointment: as time went on, your expectations were not realized. The blessings you once enjoyed were lost: the love and loy of your first meeting with your Saviour, instead of deepening, have become faint and feeble. And often you have wondered what the reason could be, that with such a Saviour, so mighty and so lov-ing, your experience of salvation should not have been a fuller one.

should not have been a fuller one.
The answer is very simple. You wandered from Him. The blessings He bestows are all connected with His "Come to Me," and are only to be enfored in close fellowship with Himself. You either did not fully understand, or did not rightly remember, that the call meant, "Come to More to Mo pose when first He called you to Himself. It was not to refresh you for a few short hours after your you for a few short hours after your you werslow with the joy of His love and deliverance, and then to send you forth to wander in andness and sin. He had destined you to something bet-fer than a short-lived blessedness, to be enjoyed only in times of special carnestness and prayer, and then to pass away, as you had to return to those duties in which far the greater part of life has to be spent. No, in-deed; He had prepared for you an abiding dwelling with Himself, where your whole life and every moment of your whole life and every moment of fi might be spent, where the work of your daily life might be done, and where all the while you might be enunbroken communion with

Himself.

And observe especially, it was not
that He said, "Come to me and abide
with Me," but, "Abide in Me." The intercourse was not only to be unbroken, but most intimate and combroken, but most intimate and complete. He opened His arms, to press you to His bosom; He opened His heart, to welcome you there; He opened His heart, to welcome you there; He opened up all His Divine fulness of life and love, and offered to take you up into its fellowship, to make you wholly one with Himself. There was a depth of meaning you cahnot yet realize in His words: "Abide in Me."

And with no less earneatness than He had cried, "Come to Me," did He plead, had you but noliced it, "Abide, in Me." By every motive that had fine shood you to come, did He beseeck



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you to abide. Was it the fear of sin and its curse that first drew you? The pardon you received on first coming could, with all the blessings and fully englysd on abiding in him. Was it the longing to know and enjoy the infinite Love that was calling you? the first coming gave but single drops to taste,—"tis only the abiding that can really satisfy the thirsty soul, and give- to drink of the rivers of pleasure that are at His right hand. Was it the weary longing to be made free from the bondage of sin, to become pure and holy, and so to find rest, the reat of God for the soul? this too can only be realized as you abide in Him,—only in the weary longing to be made free from the bondage of sin, to become pure and holy, and so to find rest, the reat of God for the soul? this too can only be realized as you abide in Him,—only it is was the hope of an averlantly, home in the presence of the full home. The first home is the presence of the constitution of the soul that the soul that we have been a to be able in Him. In very truth, there is nothing that moved you to come, that does not plead with thousandfold greater force: "Abide in Him." You did well to come; you do better to abide. Who would, after seeking the King's place, be content to stand in the door, when he is invited in to dwell in the King's presence, and share with Him in all the glory of His royal life?

And yet I fear that there are many who have indeed come to Jesus, and who yet have mournfully to confess that they know but little of this bless-od abdiding in Him. With some the reason is, that they sever fully no derstood that this was the meaning of the 6avieur's call. With though they heard the ford, they did not know that such only they did not know that such they have the followship was understood the feel of abdiding that their reach. Others will say that, though they did believe that such

a life was possible, and seek after it, they have never yet succeeded in discovering the secret of its attainment. And others, again, alsa: will confess that it is their own unfaithfulness that has kept them from the enjoyment of the blessing. When the Saviour would have kept them, they were not found ready to stay; they were not found ready to stay; they were not prepared to give up everything, and always, only, wholly to abide in Jesus.

wholly to abide in Jesuis.

I know how many, and, to the young believer, how difficult, the questions are which suggest themselves in connection with it. There is especially the question, with its various aspects, as to the possibility, in the midst of wearying work and continued distraction, of keeping up, or rather being kept in, the abiding communion. I do not undertake to remove all difficulties; this Jesus Christ Himself alone must do by His Holy Spirt. But what I would fain by the greened what I would fain by the greened what is the property of the second of the provide Master's blessed contents. The provides in Mey. until if enter the heart and find a place there, up more to be forgotten or neglected. I would fain that in the light of Holy Scripture we should mediate on its meaning, until the understanding, that gate to the heart, opens to apprehend something of what it offers and expects.

Let us set ourselves in quiet trust before Him, waiting to hear His holy voice,—the still small voice that is mightier than the storm that rends the rocks,—breathing its quickening spirit within us, as He speaks: "Abde in Me." The soul that truly hears Jesua Himself speak the word, receives with the word the power to accept and to hold the blessing He of

Another Two-in-One Invention

Another involves in the control of t

month. Here are the directions:
Use double yarn, one for each sock.
The purling for the top of the socks is
knitted separately. When one is finished, take it off with a darning needle
on to a heavy cord. When the other
is finished slip that the sock is the
ished slip that the sock of the sock is
the sock of the sock of the sock is the
other interest of the sock is the sock
of the sock that was
on the needle and ending with the last slitch
from the one on the cord. Hold the
sock toward you, purling the
stitch which is on the sock that was
on the needle and knitting the second
stitch from the one that was on the
cord; proceed with first purl, then
knit, holding the thread over the first
finger for purling and over the second
finger for knitting and you will soon
finger for knitting and you will soon

acquire a rhythm. When the heel is reached, take off as in any sook. As the heel is turned atways pur the one next to you and knit the other. To narrow take first and third stitch, purl them and slip the needle out, which leaves one stitch from the opposite sock which you slip on to your needle and narrow knitting. There is no slip and bind in this sock. When finished slip the needles out and take up your sep-

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though and usually by aude, not no do as drain, and have either three or four constant Wessen."

arate socks and bind never put your thread keep it towards you as ing back on your heel. The great advantage

April 18, 191879 /

ing back on your heel. The great advantage tals method is that bot exactly the same size considered that many in Red Cross work specified the changing toes them smooth and the satisfactory of the changing toes the same of the changing the same of the

Some Aviation E

W E have received
letter from Mr.
Peterboro boy w
ing up aviation work in

Part of his letter read.

"I have completed r
flying here and go liext
with fast machines.
bours' instruction in I
I started up alone. Las
my first day up alone
three hours required t
here. I got along fin
every minute of the tin
is splendid to feel th
alone and have full c
machine. I flew about
the three hours, comit
for more petrol and

"I am sending a pos the type of machine I



Cadet Harry Hi
This illustration is reproenap sent to us by Cadet
abows him standing by a .
is a type of the air craft

ing with here. I crash particular one shown in few days after the pictur I smashed the propeller riase and a few struts, t without a scratch myself turn on the ground when ing too fast and the u wouldn't stand the si crumpled up, the wheels through the bottom plane through the bottom plane.

"I like flying very must I do the more I want highest I have been up feet. There is the finest shie up above the cloud pour can see in every dir is a sea of milk-white for eithing on this makes a. I ture. The machine I have is not capable of more ti an hour, unless it is a when you sometimes get 65 mph. The next mach to fly will be an Avro, 90 to 100 mph. I have loop, do spinning, nose di all the rest of these I used in aerial fighting, on scouts after that as plenty of excitement as You get all the fastee though and usually fly lasse either three or. to

arate socks and bind off. In purling never put your thread over—always keep it towards you as if you are purlback on your heel.

The great advantage tals method is that both socks will be exactly the same size and when it is exactly the same size and when it is in Red Cross work spend o great deal them smooth and the same size, this Livantage is worth noting. It is said that after knitting three pairs of socks in this way, one will be as efficient as if knitting the socks singly.

Some Aviation Experiences

E have received an interesting W E have received an interesting letter from Mr. H. Hastie, a Peterboro boy who is now taking up aviation work in London, Eng. art of his letter reads as follows:

fiving here and go next to a squadron with fast machines. I had three I started up alone. Last Monday was ny first day up alone and I did the three hours required to pass out of here. I got along fine and enjoyed every minute of the time I was up. It is splendid to feel that you are up alone and have full control of the machine. I flew about 150 miles in the three hours, coming down once

"I am sending a postcard showing



Cadet Harry Hastle.

s illustration is reproduced from p sent to us by Cadet Hastie, ar we him standing by a machine whice a type of the air craft he is using.

ing with here. I crashed with the particular one shown in the picture a few days after the picture was taken. I smashed the propeller, under carriage and a few struts, but came out without a scratch myself. I tried to turn on the ground when I was taxiing too fast and the undercarriage wouldn't stand the strain so it crumpled up, the wheels coming right through the bottom plane

through the bottom plane, "I like flying very much; the more I do the more I want to do. The highest I have been up yet is 6000 feet. There is the finest scenery possible up above the clouds. As far as you can see in every direction, there is a sea of milk-white foam. The sun shining on this makes a beautiful picture. The machine I have been using is not capable of more than 50 miles an hour, unless it is a down wind, when you sometimes get up to 60 or 65 m.p.h. The next machine I expect to fly will be an Avro, speed about 50 to 100 m.p.h. I have to learn to loop, do spinning, nose dives, roll and all the rest of these fancy stunts used in aerial fighting. I am going used in aerial ngining. I am gona on scouts after that so that means plenty of excitement and fighting. You get all the fastest machines though and usually fly alone. You have either three or four machine

guns to protect you, which you handle guins to protect you, which you handle yourself as well as fly your machine Our latest scouts have a speed of 140 to 150 m.p.h., so there isn't much use of anyone chasing you unless they have a faster machine"

HOME CLUB

Men Not to be Blamed

SEE by "Aunt Greta's" recent let-ter to the Home Club that she asks the question, "Who decides what we shall eat?" and claims that the men do. Let "Aunt Greta" or any other woman get out and do a man's work at chores or following the team, work at chores or following the team, or working in the hay field as I do, and she will say that the men must have meat, eggs and all these things to keep up their strength. They need to keep up their strength. They need it as much as the men in the trenches

It as much as the men in the trenches as they work as hard for it.

It is all right for women who just have housework to do, and perhaps have the assistance of the men to do part of that, to talk of some light diet for a man, but let the woman get out and till the soil, work at the hay and so forth and I believe she will want three good hearty meals and a lunch between meals, which the mer seldom get. Then too, a woman who has no one but herself to go in and get a meal after being out in the field, has to have meat, eggs and such things which she can prepare quickly. I am a woman and do all kinds of

men's work on the farm, but I don't war overalls. I don't consider that the belong to women's apparel. We meet a great many agents and other strangers when at this work and I don't want to be asked for a chew of tobacco, so I wear aprons. I eat three good hearty meals a day and even with this ourishing food my health is giving out. Woman was not in-tended for such hard work, but the scarcity of help makes it necessary we have our farms and they have to produce or we will go under

So much is said by people who never did a hard day's work on eating and what the farmer shall have. We and what the farmer shall have. We are told that we must produce, must make maple syrup, etc., that all this work is a pleasure and that the country is a fine place in which to live. The only way the country becomes a fine place to live in is through long hours, hard work and by doing without clothes and other pleasures which townspeople enjoy. I would say, let these women who take so long in thinking up menus so that food may be saved, to get out and do some harder work. We get advice to burn and the clipping which I am enclosing voices my sentiments, so I will send

The farmer gets more good advice than any man beneath the sun; the magazines would treat him nice so tell him once, and tell him twice, how all his duties should be done. And lecturers with bulging brows in country schools lay down the law they tell him how to groom his cows and how to raise blue ribbon sows by feeding artichokes and straw. editors of weekly sheets, who never punched a span of mules, sit in their chairs with leather seats, and tell him how to raise his beets, and for his guidance lay down rules. The men pursuing other trades, we all assume, know what to do; no man the mer-chant prince upbraids, or chides the lawyer till he fades, or to the plumber hands a few. The sexton he can dig a grave, we do not stop to tell him a grave, we do not stop to tell him how, or show the barber how to shave, or tell the tightwad how to save; the dairyman can milk his cow. But every man in town believes no hus-bandman knows how to farm; and so we criticise his sheaves, and tell him how to shear his beeves, and treat the old mare for the heaves, and bore him till he has the peeves, and to his shoulders roll his sleeves, and tries to do us deadly harm."—"A Mannish Woman."





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On account of the shortage of woot, all will be featured very prominent-and dresses, and will come cheefy in dark tones we are told. The shortage of woot to much this spring and summer as it will be next tall and winter, for after all, no material hooks, quite so smart and silk is that as a rule creased drop out of it quickly which is not the case with Much hand work on the blouges is shown this season. Although we have been advised not to use any more wool high in favor. On many of the sheer theory exists the shown the season. Although we have been advised not to use any more wool high in favor. On many of the sheet the other works of the shown and every the season of the simplest old-fashioned emberddery attiches are shewn and very little expensive lines is distincted in the sheet of the simplest old-fashioned emberddery attiches are shewn and very little expensive lines in the sheet of the simplest old-fashioned emberddery attiches are shewn and very little expensive lines in the sheet of the simplest old-fashioned emberddery attiches are shewn and very little expensive lines in the sheet old-fashioned emberddery attiches are shewn and very little expensive lines are sheet with contractive of the simplest old-fashioned embeddery attiches of the sheet old-fashioned embeddery attiches are sheet when wearing a suit, e-pecially if one has a long slender neck, but the lower styles are so much more back to high collars during warms summer weather at any rate.

The blouse is guest of the simple of the sheet little dees for summer weather at the lower way of the sheet little dees for summer weather the sout measure and the skirt from 22 to 34 and 12 and 12

Here, too, the sleeves are short and full.

Here, too, the sleeves are short and full.

2439—A Good Sport's Outnit—The criddy sult is not going to be tabooed tile
year for which many of our young girls
year for which many of our young girls
comfortable and easily slipped on and
off. This style is quite simple, the poesizes: 14, 18, 18 and 29 years.

2622—Lady's Apren.—Now is the time,
if you have not already done as, to get
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the form of the supplemental of the complex gives

2446—A Popular Seasonable Siyle.—How
maker. It is one of the popular gives
this appring. It may be fashioned from
halve. It is one of the popular gives
this appring. It may be fashioned from
houses—of carrious styles. As will, be
noted there are no sleeves in this Jacket.
The shawl collect is one of the new collasupperance of this outfit. Four sizes;
small, 25-34; readium, 36-35; large, 64-4.

1420—Girl's Poress.—We are showing a

and extra large, 44-46 inches bast measures and control of the con

TAUGHT FREE





IF YOU DON'T FIND IT, WRITE US

Occasionally readers of Farm nd Dairy wish to secure the arreas of manufacturers of farm r household equipment, but are of able to locate it in our pages, and the court of the court of the first of the court of the court of the permation of this nature. Write a freshy

formation of this nature. Write us freely.
ADVERTISING DEPT.
FARM & DAIRY, PETERBORO, ONT.



Handy Scales for Farm Use

Convenience and service are

Fairbanks Farm Scales

Farm Scales
The handle at the base of the
weighing post permits of
ready transportation on its
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the farm buildings. In house
or barn or dairy it serves any
purpose up to 2000 pounds
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Scales are compact and ab-

Fairbanks Portable Farm Scales are compact and ab-solutely accurate. The plat-form is 34 x 25½ inches and has a clearance of 11 3-8 inches above the ground, Write our nearest branch for full de-

The Canadian Fairbanks-Morse



The Makers' C

Shrinkage in Creamery Prof. H. H. Dean, O.A.C.

T HE question of allow HE question of allot ehrinkage on cream and prints is an imp at the present time, owing price of butter. The manually does not wish to more weight than is necess more weight than is necess
the buyer insists on, and
receiving full weight of b
for. As much of the creame
goes into cold storage packe
boxes, where it is held for a
the weight of butter necessa in each package in order "hold out weight" when to storage, is a very important of Tests made during the

Tests made during the 1917 show that the loss popasteurized cream butter, sa per cent, with 1.45 per centinished butter, and held months at a temperature of pounds, and for three months half pound. Raw cream butt six per cent., and having 2.78 salt in the finished butter. half pound per box in two mo

These results show that lis ed butter made from pa end of three months in storage lbs. of butter are packed in when made. Heavily salted need more butter to hold their Efficiency of Machine Pa

A number of creamerymen v to the print butter trade, are n machine printers. These are ing styles. The chief advan machine printing over hand machine printing over hand are, more rapid work and neats So far as uniformity in we individual prints goes, there to be quite as much vari when the hand printer is used were made on two nine boxes cut into prints with a boxes cut into prints with a: In the first box cut, there wer prints exactly sixteen our weight. The remainder of the varied from 9-32 of an our light, to 24-32 of an ounce pound. In the other box, the tions were from 23-32 of at the little, to 20-32 of an ounce the required sixteen ounces.
box there were but five present weight. If we allow 4of an ounce as the maximum v each way, there were 49 pri mum, and 40 in the second practically 50 per cent. of the were outside the limits set. first box, 63 prints were over, were under 16 ounces in weig 12 were exactly one pound. second box, 43 were over, 4 under, and 7 were exactly

succes.

If we take the totals of the and minus prints on the first that the minus prints on the first find the plus", or weights of a scess of 16 ounces, equal prints conducted ounces, and the prints (under 16 oz.) equal 51 difference between the prints equal the minus is 434-32, or a litt hirtest ounces on minety prints and the minus and the plus sequence of 57-32, or a bout 2.7 oun this case, the plus and minus more nearly balance each oth The foregoing may be regard.

preliminary tests and much work is needed before definit clusions may be drawn. Ho it would seem as if we may considerable variation in well prints of butter made by mass

The Makers' Corner

Butter and Cheese Makers are vited to send contributions to t department, to ask questions matters relating to choose make and to suggest subjects for disc.

Shrinkage in Creamery Butter Prof. H. H. Dean, O.A.C., Guelph.

HE question of allowance for shrinkage on creamery solids and prints is an important one and prints is an important one at the present time, owing to the high circ of butter. The 'manufacturer naturally does not wish to give any more weight than is necessary, while the buyer insists on, and rightly so, receiving full weight of butter paids of the control of the creamery "solidar goes into cold storage piecked in 56 lbs. boxes, where it is held for some time, the weight of butter necessary to place in each package in order to have it

"hold out weight" when taken from storage, is a very important one. Tests made during the season of 1917 show that the loss per box on pasteurized cream butter, salted three er cent., with 1.45 per cent. in the menths at a temperature of about 35 was but one-quarter of a pounds, and for three months was one-half pound. Raw cream butter, salted half pound. Raw cream butter, salted six per cent., and having 2.78 per cent. salt in the finished butter, lost one-half pound per box in two months, and three-quarters of a pound in three

These results show that lightly salt These results show that lightly saited butter made from pasteurized cream, should hold out weight at the end of three months in storage if 56½ lbs. of butter are packed in the box when made. Heavily salted butters

Efficiency of Machine Printers.
A number of creamerymen who cater to the print butter trade, are now using to the print outer trace, are now using machine printers. These are of vary-ing styles. The chief advantages of machine printing over hand printing are, more rapid work and neater prints. So far as uniformity in weights of individual prints goes, there appears to be quite as much variation as when the hand printer is used. Tests were made on two ninety-pound boxes cut into prints with a machine. bases cut into prints with a machine. In the first box cut, there were twelve prints exactly sixteen ounces in weight. The remainder of the prints varied from 9-32 of an ounce too light, to 24-32 of an ounce over a pound. In the other-box, the variations were from 23-32 of an ounce to little, to 20-32 of an ounce over the contract of the contract o too little, to 20-32 of an ounce over the required sixteen ounces. In this box there were but five prints of exact weight. If we allow 4-32 or ½ of an ounce as the maximum variation of an onnce as the maximum variation each way, there were 49 prints out of 90 in the first box outside the maximum, and 40 in the second box, or practically 50 per cent. of the prints were outside the limits set. In the first box, 63 prints were over, and 15 were under 16 ounces in weight, and 12 were exactly one pound. Of the second bex, 43 were over, 40 were under, and 7 were exactly sixteen

If we take the totals of the plus and minus prints on the first box, we as minus prints on the first box, we as minus prints on the first box, we did the piess, or weights of prints is excess of 16 ounces, equals 516 in excess of 16 ounces, and the minus brists (under 16 ox) equal 52. The difference between the place's and the minus's is 434-32, or a little over thirtee ounces on minety prints. In the second box the plus's equal 312 cased the minus prints 226, a difference where the prints 226, a difference where the prints 226 and the minus prints 250 the cased the minus prints 250 the minus prints 250 the cased the minus prints 250 t

more nearly balance each other.

The foregoing may be regarded as rise foregoing may be regarded as preliminary tests and much more work is needed before definite conclusions may be drawn. However, it would seem as if we may expect toosiderable variation in weight of prints of butter made by machines. In the case of this particular machine, the prints along one side and on the bottom row were nearly always heavi-er than those cut in other parts of the box: This could be remedled by more even spacing of the wires used for cutting the butter.

Commission Considering Cheese Prices

The initial meeting of the Dairy Produce Commission was held April 9th, at the offices of the old Cheese Commission, in Montreal, which organization the new commission is to replace. Both the personnel and the scope of the commission have been enlarged. The members of the commission for 1918- are as follows:

The chairman of the Allied Prevision Export commission, New York, of the Export commission, New York, of the Allied Reputy, Mr. A. J. Millie, "Ar. Ja. A. Ruddlek, ander, of Montreal; Mr. J. Denaldson, president, Dairymen's Association of Western Ontario, Atwood, Ont.; and Western Ontario, Atwood, Ont.; and In 1917 the Cheese Commission representing the proposed presented the Luperial deard of Trade.



Heavy spring work takes the surplus flesh from the horse. His collar no longer fits. His necl and shoulders chale and gail. He can't do his full share of work and you lose money. Prevent these evils by using TAPATOO Pads.

A NEW AND BETTER HOOK ATTACHMENT

Consisting of wire staple, reinforced with felt washer (note where arrows point). This gives the hook a better hold and prevents pulling off. The weakest point is made strong and life of pad greatly lengthened.

Look For The Felt Washer.

SOLD BY DEALERS EVERYWHERE The American Pad & Textile Company

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When Writing Mention Farm and Dairy



EVERY man, woman and child must help make the home garden produce vegetable food this year—for food is scarce and labor scarcer. The earlier your crop is ready the better for yourself and also the nation. We have carefully considered this condition, and assembled a special collection of Rennie's Seeds—to meet it. Our "Early Collection" will give you rapid production in volume.

Early Collection

This Collection is made up Specially for those Desiring an Early Supply of Vegetables.

BEET, Early Extra Blood.
CABBAGE, Extra Early.
CARROT, Early Scarlet.
CAULIFLOWER, Snowball. CUCUMBER, Slicing, LETTUCE, Early Orlep.

ONION, Early Slicing.
ONION, Large, Bolling.
PARSLEY, Ourled.
PARSNIP, Long White.
RADISH, Early Round Red.
TOMATO, Earliest Searlet.
TURNIP, Bound, White Tak

50c Prepaid

A Word About the Stars

Referring to our 1918 catalogue. Wherever you see items marked with a border of stars similar to the surrounding this paragraph—you will find extra-inary bargains in seeds. Choose your seeds carefully and read the star marked items especially.

Flower Seed Collection

Alyssum, Sweet Asters, Mixed. Balsam, Mixed. anthus (Chinese Pinks).

50c Prepaid

WILLIAM KING & TORONTO

= 2 CHOICE SIRES ===

No. 1. 6 weeks old, aired by SIR RIVERDALE ECHO LYONS, whose 4 sisters average over 190 lbs. per day, including MAY ECHO SYLVIA, World's Champion milk producer, and 41 lbs. butter, and whose 2 sister, dam, dam's saiter and granddam have records over 760 lbs. milk in 7 days. Calfs dam haw 10 hbs. butter, 511 lbs. milk, in 7 days.

No. 2. 4 months old, sired by KING KORNDYKE JOHANNA SEGIS, whose 7 nearest dams average 20.73 lbs. His 11 nearest dams average 21.74 nand his 30 nearest tended dams average 71.75 lbs. butter in 7 days. Dam is a 33 lb. daughter of GRACE FAYNE 2nd's Sir COLANTHA, 29 R.O.M. daughters and a R.O.M. dam.

THEY ARE CHOICE ONES-PRICED RIGHT.

COUGHLIN BROTHERS, R.R. No. 9, PETERBORO, ONT.

GUARANTEED

is the ideal feed for milk production.

THE mere fact that it costs a little more than Bran, does not I mean that it is more expensive. On the contrary, it is cheaper than Bran—it is about the cheapest feed you can give. the cows-because it increases the milk yield so much.

We have a little book that tells about Edwardsburg Gluten Feed - what it does and how it makes money for you-write for a copy, free. 0 68

20 SCHOOLSED AND ASSESSED.

TORONTO

Under the new arrangement the commission represents the British Minis-try of Food through the Allied Provision Export Commission, located in New York. The Ministry of Food is prepared, through these channels, to purchase the exportable surpus of Canadian cheese, butter and condensed milk, of the crop of 1918. By an arrangement with the United States Food Administrator, it will be possible to deal with these articles in such a manner as to insure some parity of

The price of cheese for 1918 was the subject of discussion at the opening meeting. Mr. Owen Smith, chairman of the Allied Provision Export Commission, and Mr. Mills of the same commission, who were present heard what the producers' representatives and other members of the commission had to say on that point, and have cabled these views to the Ministry of cabled these views to the Ministry of Food in order to secure the necessary authority to make definite arrange-ments to purchase all the cheese for 1918. It is expected that an under-standing will be reached in the course of a few days, when further an-nouncement will be made.

Standard Feed for Live Stock

A REDGENT report issued by the sources Committee will make interesting reading for Ontario farmers who buy feed—and this includes the majority. It is as follows: "Confronted with the imperative need of securing a standard feed for hook and occurrent of the Confronted with the security of the Confronted Committee of the Confronted Commit

cultural sub-committee of the Ontario

Resources Committee yesterday endorsed certain proposals recommended by a sub-committee, which has been securing information during the been securing information during the past few weeks. The scheme, as outlined, is that a compound feed will be put in the market. It will include such conceatrates as corn, gluten, bran, mid-filings, brewers' grains, cotton seed and oil cake. This food will be compounded into two feeds, one for hogs and the other for cattle. It will be sold direct to the farmers through

be sold direct to the farmers through farmers' clubs, at a price just slichtly in excess of cost, to provide for a reasonable profit to the manufacture. "Nothing definite has been decid-ed by the committee as to the amount of feed to be secured, but the mini-of feed to be secured, but the mini-decided to be secured, but the mini-decided to be secured, but the mini-decided to be secured, but the minimum will be arranged care. Solution of the minimum will be selected at various notice. mills will be selected at various points in the province, which will undertake to manufacture this feed under Gor-ernment supervision. The inspectors provided by the Government will assure the farmers that the feed is up

"With the assistance of the Canada Food Board the committee will endeavor to locate supplies of such con-centrates in the United States, and at the same time arrange with the United States Railway Board to have them shipped into Canada. In order to do this it will be necessary to take im-mediate action and get the supplies into the country during the summer months, in order that they may be available for distribution in the fall and used to relieve the feed situation in the early winter. The committee

A RARE BARGAIN =

Registered Hoistein bull, yearling, sired by a half brother of Toitilla of Riverside, 26094 lbs. milk, 1657 lbs. butter in one year. Record of sire's dam's milk 584, butter 29.42. Dam's record milk 679, butter 23.42. Straight and well grown. Price \$100. Write, phone, or come. LANINGDALE STOCK FARM VILLA NOVA, ONT.

PLEASANT VIEW AYRSHIRES.

A. HENDERSON

as per pound gain han Caldwell's Molasses Feed. The secretis the balancing and Ling Order From Your Jiedman today. Caldwell Feed & Cereal Co. Limited DUNDAS, ONTARIO

is composed of Messrs. Assistant Deputy Ministrature; F. C. Hart, of Branch; A. Leitch of tural College; Joseph Breford, and G. A. Gillespie

Keep Wheat Scree The committee decide assistance of the Dominio agriculture in having an made into the export screenings. At present ties of what is known screenings, which includ-wheat seed, are being sh the line under permit. In shortage of feed in Ca thought that at least so roughage screenings coul-this country. The higher ings are now being sold dian farmers .

AD. TALK. A CONSTANT DROPPING

A FEW weeks ago there is column an Ad. to the column and the column and the same time has taken it has a bould be running a no include with the idea that to fer a while, it is my inter the spectruly of disillusing which leads this article, K is believe, certainly puts me and the column and which heads this article, K in believe, certainly puts may be less than a series of the less tha

This brings up the question entine live stock advepting outling the coming summer me continue live stock advepting or the coming summer me continue live stock and the coming summer me continue to the contin A Constant Advertiser Bul

C. G. McKILLICAN, Live Stock Departmen

is composed of Messrs. C. F. Bailey, Assistant Deputy Minister of Agricul-ture; F. C. Hart, of the Markets Branch; A. Leitch of the Agricul-tural College; Joseph Brethour of Bur-ford, and G. A. Gillespie of Peterboro. Keep Wheat Screenings.

The committee decided to ask the assistance of the Dominion Minister of assistance of the Dominion Minister of Agriculture in having an investigation made into the export of roughage acroenings. At present large quanti-ties of what is known as roughage screenings, which includes a lot of wheat seed, are being shipped across the line under permit. In view of the shortage of feed in Canada, it is thought that at least some of these suphare screenings could be kept in roughage screenings could be kept in this country. The higher grade screen-ings are now being sold to the Cana-

AD. TALK. A CONSTANT DROPPING WEARS THE

FEW weeks ago there appeared in a difference of these breeze and the control of t

A Constant Advertiser Builds on C. G. McKILLICAN, Live Stock Department

"An arrangement, whereby the farmers can secure seed in the spring with less difficulty, is suggested in a "An arrangement, resolution which will be forwarded to the Ottawa authorities. It urges that an interior terminal elevator be es-tablished in Ontario, preferably near Toronto, as it is the centre of the province, in order that greater facilities may be afforded for storing seed grain. This would be a great advantage to the grower. Such an elevator is located in Quebec, and it supplies that Province, as well as the Maritime Provinces, with seed in the spring.

Bad Year Ahead in Forest Fires

frains from tossing away burnt matches or tobacco in or near a wood. and if settlers in the newly-opened districts guard their land-clearing fres with the utmost care. Settlers' free continue to be the very worst source of forest configration, although campers and careless smokers are alone conventions.

are close competitors.
"The fire rangers," says the Canadian Forestry Association, "want every good citizen to regard himself as a deputy ranger from now until November first."

- MAPLE LAWN STOCK FARM-

Bulls from King Segis Alcartra Spofford, a son of the \$50,000 bull. No. 1,--11 months old, from a 28-lb. No. 1.—It months old, from a conv. 2.—It months old, from a declared from the convergence of the convergence of the convergence of the same. A few bull calves of the same write for prices and photos, or come write for prices and photos, or come and see.

Wm. H. Gough & Sons, Bloomfield. Ont.



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EVERGREEN STOCK FARM -

Registered Holsteins

CHOICE BUIL 16 months old, nicely marked, as much white as black, and ready for heavy service. The records of his dam, dam's dam, and am's dam, and great aire's dam server 31 lbs. butter 7 every way.

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Over 80 years' experience with Canadian hay crops behind it-it won't fail you.

It's a rugged, durable implement it does its work thoroughly—it will cut any crop you want to tackle. Its light draft is famous—due to its superior materials, the perfect alignment of cutter bar, our spe-cial internal gear drive and splenciai internal gear drive and splen-did roller bearings. Knives con-tinue cutting when bar is raised to clear an obstruction, saving time and trouble. They cannot wear out cutter bar. Handy levers give immediate, easy control.



As soon as the Mower starts the knives begin to cut.

Give your hay making machinery special attention, now. If you need a mower, dump or side delivery rake, a tedder, a loader or a hay press, better speak to our nearest Agent about it right way. The Frost & Wood implements have a splendid reputation from ocean to ocean and are the biggest value in Canada to-day.



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Don't think all Rakes are just alike—they're not. Frost & Wood Rakes Don't tains all takes are just affect drye not. From a wood takes are superior in design, material and workmanship—that's their reputation in the field. Teeth are of special quality, tempered steel. Self-dumping by easy pressure on foot lever. Heavy angle steel frame guarantees rugged strength and years of steady service.

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STOP! LOOK! LISTEN!

What DUTCHIAND COLANTHA SIR MONA'S DAUGHTERS are doing. Lakeview Dutohand Arts, 817,8 km milt, 34.66 lbs. butter, Canada 24.66 lbs. butter; Canada 24.66 lbs. butter; one day's milt 10.81. Lakeview Dutohand Calamity Rose, 510 lbs. milt, 31,71 lbs. butter; Canadian Champion and world's record for 2 yes, and 8 months old, We are othering for lakeview or continued to the continued of the continued

Major E. F. Osler, Prop., T. A. Dawson, Mgr.

Lakeview Farms, Brente, Ont.

= ELM LANE AYPSHIRES =

Two choice young buils six months old from RO.P. cows, one from Mid-Kelton Fleckle and, imp., No. \$475, with a two year record in 124, 1.5. bins. Inc. of the control of th

For prices come and see or write. GEC. M. RENNICK,

ELM LANE FARM.

R. R. NO. 1. VANKLEEK HILL, ONT.

SPRUCEDALE FARM Offers For Sale -

No. 1 born by the state of the service from record dams, on the state of the service from record dams, one of the service from record dams.

No. 1 born by the service from record dams.

No. 2 born March 21st, 1817; mostly white, whose dam as Jr., three-year-old gave 80 lbs. milk and over 11 Jbs. butter.

Also younger buils. These are good straight buils. Write for particulars or come to see them.

or come to see them.

Sebringville Station 1 Mile.

EZRA G. SCHWEITZER, - R. R. No. 3, - STRATFORD, ONT.

BROOKDALE STOCK FARM

PIVE RICHLY BREID HOLETEINS of Kornlyke breeding, and ared to one of the very best bulls of the bread. One cw nine years old, her daughter 4 years old. Two cattra nice three year old twening in reason of the control of the property of the property of the property of the coloring for richly bred Helsteins, young, and from the best strain on earth. I am pricing the lot of five females for #180-80, loaded at Philipsyills Station.

WM. C. STEVENS - PHILLIPSVILLE, ONT.

- HERE'S A REAL ONE -

A four months' old grandson of Pius Berk, the former Sunnydale herd sire. His dam is sired by a son of Veietra Triumph, the only bull in Canada whose dam and grand-dam have averaged over 10th, will ki non day. Dam milked promises to be a good one. Price 550.00, F.O.B. any matton in Ontario. Address all communications to

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CHOICE YORKSHIRE HOGS AT RIGHT PRICES Boars and nows, all ages, from best prize-winning steams—a few good bred sows, also younger stock. S. C. White Lephoru eggs for hatching—Ber-ron's 232-egg strain. S. S. Brown Leghoron, Barred Rocks, R. I. Reds, 23 per 15; 319 per 109. Fawn and White I. R. Duck eggs, 33 per 11. Chinese goos-eggs, 50c cash.

. . . . MILTON, ONTARIO.

R. O. P. CHAMPIONS

According to the R. O. P. reports a Jersey cow produced more butter fat during last year than any other cow of any other breed. We have now for sale Twenty Cows, fresh or springing, also Young Bulls, all ages. Some of these are closely related to the champion butter cow mentioned above. BRAMPTON, ONT. B. H. BULL & SON,

JERSEY SIRE

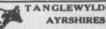
I am now ready to dispose of a young buil from Sadie Miss Polo, record 554 lbs. fat at 2 years old. He death to find the Sadie Miss Polo, record 554 lbs. fat at 2 years old. He death to find the property of the sadie of the Sadie Miss. From the Sadie Miss. From

PEACH BLOW-AYRSHIRES

Toung Stock for sale, always on hand (both sexes), from high-tasting heavy producers. Good udders and large test a special feature of my herd. Three fine young Sives ready for service. Get particulars of these if you need a aire. R. T. BRCWNLEE, Peach Blow Farm, HEMMINGFORD, Que.

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with the old reliable Fleming's Tonic Heave Remedy. Cures both old and new cases, tones up animal's whole system. Full price refunded if it ever fails. Write for Free Copy of Fleming's Vest Pocket Vet. Adviser. FLEMING BROS., CHEMISTS



The Leading R. O. P. Herd Large Cows, Large Teats, Large Re-cords, High Testers. Choice Young Bulls and Bull Calves and a few Cows for sale.

WOOSDESSE MINOS., R. R. HO. ., MOOREFIELD, ONT.

THE GREGG SALE AT INGERSOLL.

M. R. T. G. GREEGG, of Ingercell, was a happy man on the evening of Wednesday, April 10, waen he totalled up the returns from the dispersion sale of his 60 head of registered Hoisteins held on that day, and found that they netted him considerably over \$11,000, an average of nearly \$200 all told. With the

metted him considerably over \$31,000, an average of nearly \$300 all told. With the possible exception of the Allison sale and successful sale held this witter.

It is but another proof of the wisdom of laving a good foundation. When Mr. of laving a good foundation. When Mr. of the law of laving a good foundation. When Mr. of the law of laving a good foundation. When Mr. of the law of laving a good foundation. The law of laving a good foundation. The law of law

There were no poisoenemia prices, use The Series no poisoenemia prices, use H. H. Mayburry for Doris Dewdrop Wayne, one of the H. of M. cown in the M. H. Mayburry for Doris Dewdrop Wayne, one of the H. of M. cown in the M. The following is a list of the animals selling for over 1100, with buyers: Centre View Claimity Eagle 140, C. Centre View Claimity Eagle 140, J. E. Bedgood, London; Princess Posch DaKol Mayne 2nd, 1846. Calamity Wayne DeKol Bad, 2310, J. E. Bedgood, London; Princess Posch DoKol Agade, A. C. Taylor, Mightingale Fosch DoKol, 1800, J. M. Bedgood, Princess Posch DoKol, 1800, J. M. Dekoul, 1800, J. M. C. Taylor, Nightingale Fosch DoKol, 1800, J. M. C. Guelphi, Dewdrop Lanner, 1800, J. A. Tattersall; Dewdrop DoKol, 1800, J. M. C. Taylor, Nightingale Fosch Malker, 1170, J. Dickout; Inabella Meedhhilde Walker, 1800, J. T. Tattersall; Mayels Walker, 1800, M. T. Tattersall; Mayels Walker, 1800, M. T. Tattersall; Mayels Walker, 1800, M. Tattersall; Dandy Dewdrop Walker, 1800, J. M. Tattersall; Mayels Walker, 1800, M. T. Mighting Morotop Walker, 1800, M. T. Bullin, Dialy Count Collabora, Nather, 1800, M. T. Modillan, Bellington, 1800, M. T. Pullin, Dialy Yestanti Lindle, Petron, 1800, M. Miller, 1800, M. Miller,

ANOTHER CABANA RECORD.

E DITOR, Farm and Dairy,—I am advised through preliminary reports that the Holstein-Priesian cow Rag Apple Korndyke Pontiac 251934 has broken the record for fat production in the senior three-year class of the 7-day division, by producing in seven consecutive days 651.8 lbs. milk containing 33.55 tive days 651.8 hb. milk containing 33.55 hb. fail. Be freshend at the age of 5 years. 2 months, 77 days. Her nire is Juag Apple Konndyke 8th 73415 her dans 18 months of 18 m

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Germ Free

Blackleg Filtrate **Blackleg Tissue** Aggressin

The New, Safe and Efficient Agents for Protecting Calves from Blackleg.

Cutter's Blackleg Plitrate posi-tively protects against Black-leg.
Cutter's Blackleg Aggressis, made directly from animal tis-sues, afferds even gressier pro-tection and is recommended for Pure Breds.

for Fure Breds.

Neither the Filtrate nor the Aggressian can possibly produce Blackleg in even the most susceptible animals since both are germ free.

Both have given 100% protection wherever used.

tection.

Write for backlet telling what germ free vaccines are and wherein entires presented agreement after from Cutter Aggressia made from animal tissues.

While these new "germ free vac-cines" have advantages that should be known to every stockreiser, we see no reason for a guick change to them by stockraisers who have had satisfactory results from the use of

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Pricest
10 dose pige. Single pills \$1.00 10 dose pkgs. Double Pills 150 50 dose pkgs. Double Pills 150 600 Cutter's Pill Injector... 150 Insist on Cutter products. If un-obtainable, order direct. We pay shipping charges.

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with records up to date. \$1.00 a piece. including 2 extra carbon copies. Ten or more pedigrea in one order for catalogue work, including one copy only of each. 75c a piece.

\$3.00 per page, complete, including making out of pedigrees.

Orders should be sent in early. The Canadian Holstein Sales Co., Simcoe Ont.

PERTH HOLSTEIN BREEDE

THE annual meeting of the Tribute of

RECORDS AT VILLA VIEN

RECORDS AT VILLA VIEW
ARROCAST BROSS, of 1
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MORNI Breeding,

THE DAM "shown POSCH DEKOL, about 700 lbs. butter in year weeks from completi not yet issued). Top not yet issued). 3 Generatio

Her dam, JEMINA KOL, has given 86 lbs. sisters with official 1 per week. Topsy also R.O.P. record of 16,000

She Produce



PERTH HOLSTEIN BREEDERS MEET-

PERTH HOLSTEIN STREEDERS MEETING.

THE annual meeting of the Perth District Holstein Breeders' Association with the control of the perth Dismonths of the perth of the perth of the perty of the p

RECORDS AT VILLA VIEW FARM.

RECORDS AT VILLA VIEW FARM.

RIDOCAST BROSE, of Sebringville,
Out. have been doing some excellent
the work in their here at Villa View in
the work in their here at Villa View in
the work in their here at Villa View in
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"The testing season at Villa View has
the control of their records, all made since
Deember lat.—Oliva Schurling Dekol at
seen years. For sever glass, and 108 the.
Souther and \$1.48.0 lbs. of milk for 30 days.
Stages Netherland Cramby made 20.68
Fentiac Daisy at five years has \$7.55 lbs.
Souther for sever days, and 10.8 the.
Southerland Cramby 17.1 lbs. for
2 days. March 17.0 lbs. of butter for 16.8

Southerland Villa View Aste DekOu at
there years has \$2.60 of butter and \$1.54

Southerland Villa View Aste DekOu at
the years has \$2.60 of butter and \$1.54

Southerland Villa View Aste DekOu at
the sever days.

While the work of the control of the cont

His Dam and Gd-Dam

50,000 lbs. Milk

That's the great milk-record backing on the dam's side only of the great sire

DeKol Mutual Count

that we have selected from the great Brethen sale to head our big herd at Idylwilde Farm.

DeKol Mutual Count

is the only bull in Canada whose dam and is the only bull in Canada whose dam and sire's dam have a combined yearly record of nearly 50,000 lbs. of milk. His wonderful dam, DeKol Mutual Countess, as a junior three-year-old, made 20,679 lbs. of milk in R. O. P. da world's record when made). But the sire of the

His Sire traces to that great sire of 100-lb. cows, Pieterly Hengerveid Count DeKol, 13 of whose daughters have gone over 100 lbs. in a day. He is also a brother large tracking to Europeys Hengerveid, the first 10,000-lb trystar-cell and 28,20 be butter in R. O. M. Twee of Count's daughters sold at the Brethen sale for over 31,000.

DEKOL MUTUAL COUNT is a combination of the greatest 20,000-th. blood in Canada. If you desire which a combination in your herd, make your plans now to secure one of his coming crop of sons. We can also accepted to the present season. Write us about service fees or about a future size, by him from our head.

Jas. Seymour & Son, Idylwilde Farm



DeKol Mutual Count

One of his sons will put your herd in the 20,000 lb. production class.

MORNINGSIDE HOLSTEINS Study this combination of Breeding, Production and Conformation

THE DAM "shown below"—TOPSY WAYNE POSCH DEKOL, about 20,000 lbs. milk and over 700 lbs. butter in year, R.O.P., freshened again 6 weeks from completing test (inspector's report not yet issued). Topsy represents

3 Generations of Producers.

Her dam, JEMINA WAYNE PIETERTJE DE-KOL, has given 86 bb. milk in 2 milkings and has sisters with official records from 25 to 28 lb. per week. Topsy also has a daughter who has an R.O.P. record of 16,600 lbs. milk and 735 lbs. but-

She Produces and Reproduces.

I have also a few young buils, one to three months old. These one to three months old. These Butter Boy, and their graph by HILCOREST ORMSBY DE. COLL, (think of H), brother to K. P. Hillerest dispraion for \$4,400.

(Am also open to offers on "ropsy," the \$0,000-lb, cow), and two fine yearing buils by Hillcrest Ormsby Disks.



THE SIRE—HILL/REST MAY ETHO HUTTER BOY, 3 years old on March 28th. His sire, MAT BOTHO CHAMPING and adv. 41 lbs. butter in 7 days, combined milk and butter champion of the world. He is a butter champion of the world. He is a butter in 7 days, combined butter at 38; years, who sold at the Hillerest dispersion for \$6,500, and also to several others of the lop mothers at that sale.

HE IS NOW FOR SALE.

For Particulars Write or Phone

P. B. NELSON Campbellford -



Topsy Wayne Posch Dekol

Ontario

Wonderful Individuality

combined with the World's greatest milk and autter records, makes Premier Zapman Delch, No. 33996, who was bern Dec. 31, 1817, one of the greatest bengadas of the year. I guarantee him to seary way. Our herd write as once for an extended pedigree and my price on him. Markings more whits than black. Sire, Sir Lyons Faord:, whose dam and sires dam average 31.51 hb. butter with 873.5 hb. milk. By a brother to the 45.48 hbs. and Milks Sarker Channa, 54.68 hbs. Paralher Farm Maxis, 45.48 hbs. and Milks Sarker Channa, 54.68 hbs. Paralher Farm Maxis, cords over 10 hbs. SOME EMBERNING. Dam, Bear Delkol Soluting, with 18.38 hb. of butter, best days' milk 91.4 hbs. She will undoubtedly increase her record greatly at next Presidenting. One designific milked on official test as a tr. 5, 74.4 bb.

COME AND SEE HIM

W. G. Bailey, Oak Park Stock Farm, Paris, Ont.

HOLSIEINS -

One 2-year-old bull; 1 bull 18 months, out of a 231/2-lb. 3-year-old dam; 1 bull 13 months; others younger.

R. M. Holtby

R.R. No. 4

Port Perry, Oat

GET THIS ONE! HE'S A BARGAIN!

Bull calf, one mouth old, marked perfect, half and half, large, straight and square.

SRIG—SRING BORING ALCANTYLA SHOFFORD (imported by Leavens & Purtelle),

DAM—A daughter of Sir May Darkness, son of the Great May Bcho, 726 lbs. milk
and 31.32 lbs. butter in 7 days, and a brother to Lulu Keyes, 736 lbs. milk
and 35.05 lbs. butter in 7 days,
and a brother to Lulu Keyes, 736 lbs. milk
and 36.05 lbs. butter in 7 days.

Almo one yearling bull, sired by some sire as calf and from a daughter of Count Walker Segio Feicerie, 15 R.O.M. daughters, 5 of them over 30 lbs. Price \$500

delivered in Ontario.

CLARENCE MALLORY.

SLOOMFIELD, ONT.

RENNIES War Time Production Seeds

THE farmer will be well advised who makes certain of a good crop of potatoes. In selecting your seed potatoes, get Rennie's—the best. We have secured a supply of good seed potatoes absolutely free from disease; but the supply is limited and we advise you to send your order right away.

Seed Potatoes

Earliest Six Weeks—The Ohio type: very similar to potato now grown in the Northwest. Very prolific, and a first-class market sort. Bus, \$13-95 \text{ lag of 0 lbs.}, prepaid, \$4.38.

Improved Early Ohio—The carriest heavy yielding potato in the market code, It is the standard early potato. Bus, \$1.345 \text{ lag (50 lbs.}).

propal, 44-99.

Iriah Cobbler—Chunky, white-netted early potato of splendid quality. Ripers one week later than Improved Ohio. A splendid yielder, especially suited to dry climates. Bus, \$4.49 is agr (0 he.), propald, \$4.54.

Extra Early Extrables—An extra early variety producing fine large field in the second of the secon

Gold Coin—The eyes are small and there is but little waste in paring. The flesh is fine-grained, and cooks to a dry, floury whiteness. Bus., 3.88; bag (80 lbs.), prepaid, 44.54.

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Our 1918 catalogue contains infor-mation that no farmer should be without. Watch especially the par-agraphs enclosed in the star borders containing special values that cannot be beaten.

When buying from dealers insist on Rennie's Seeds.

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WILLIAM RENNIE LIMITED.
KING & MARKET STS TORONTO
ALSO AT MONTREAL WINNIPES
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VANCOUVER COMPANY

Some Advertisers who blame advertising for poor business never think of maldering their own weakness in follow up. Moral—Attend faithfully to all correspondence.

MORNINGSIDE HOLSTEINS.

MORNINGRIDE HOLSTEINS.

O 143, readers will notice the striking readers will notice the striking the striking of the striking

BACKING THE HEAD WITH 20,000 BLOOD.

The Success of Your Sale

depends largely on YOUR CHOICE OF THE RIGHT AUCTIONEER. A third of a century's experience has made us specialists in Holstein lore. Write us.

F. H. McCullough & Son Live Stock Auctioneers. EPWORTH FARM, NAVAN, ONT.

SAW-BLADES

A. R. LUNDY,

FOR MILK, BUTTER, CHEESE, VEAL

Hoistein cows stand supreme. If you try just one animal you will very soon want more. Write the HOLSTEIN PRIBEIAN ASSOCIATION, W. A. CLEMONS, Sec., St. George Ontario

-For Quick Sale-

Pure bred Holstein Bull calves, sired by a grandson of May Echo, 23,700-lb. cow and from choice dams with 100-lb. aires. Price 340. Also a few helfers. Write me if you want a bargain. JAS MOORE, R.R. 1, Almonte, Ont.



For Sale --

Jersey catt'e, bred in the purple. Imported and Canadian bred Clydesdales.

Also, two large farms, with modern buildings.

BALDWIN'S REGISTERED. Coaticook, - - Que.

YOU CAN'T CUT OUT THE ROUGH! but you can clean them off promptly with

ABSORBINE

and you work the horse same time.
Does not blister or remove ha
hair \$2.50 per bottle, delivered,
Will tell you more if you write.
Book 4 R free. ABSORBINS, Re,
the antiseptle limiment for maskind,
reduces Varicose Veins, Roptured
feeters at learners. Patered Ciest. Wes

rectuces varicose veins, repetites

Recies et Liguments, Enlarged Ginals, Wess
Cyss. Alloys pain quickly. Price 51.25 a bottle

at druggless or deliveroid.

W. F. YOUNG, P. D. F., 122 Lymans Big., Mentresi, Cat-

MARKET

TORONTO, April 15.—TT milk and dairy prod for this time of year, decen have time of year, decen have time of year, decen have time of year, and the same price which has put he winter season just past real producers have agree with the part of the

is carried right back to the accountry local value.

There is very little mov marketing of grain of any ent. The majority of far large with the move and the say with their spring week grains wheat, consequent of poverment supplies of come through as expected of the come through a company of the company of th

Coarse Grains, and the state of the state of

ing to freights.

Me Montreal.—Quotations:
dian Western, No. 3, \$1.06\(\frac{1}{2}\); No. 3 local wh

dan Westert, No. 2, \$1,000 per den Wester, 11,061, 11,000 per den Rei Hill feeds are still as not received and the seal resignation began include east resignation. Began include east resignation of the seal of the seal of the seal resignation of

w Ontario beans

hand picked, 36 Eggs and Poultres have taken a: an increased produce country. Toron g 34c to 35c at oo retail trade are 41c to 42c for ne for strictly new a cartons. There wholesable for the decision of the common of

Kerngold Emerson Burke, I service, and a good individu F. J. McCALPINE

TORDAYO, April 15.—The demand for the street of the street

is carried right back to the buying price at country policy. Wheat.

There is very 'three marketing frain of any kind at present. The majority of farmers are too bars with their spring work to is et heir and the state of the state of price of the state of price of the state of price of the state of the

Quotation on oats have advanced sightly during the week and Ontario No. 2 is quoted at 192 to 94c. Consignments of No. 2 is quoted at 192 to 194c. Consignments of No. 4 K. B. yellow corn are reported to be fairly picentiful, but the demand the high prices anked. This grade is selling at 11.5 to 31.90 dollyword Toronto. Quotations: American Corn-U. S. A. War Board Co. 2 C.W., 194c; No. 3, C.W., 194c; extra No. 1 feed, 91c; No. 1 feed, 59c; in store, Fort William. Ontario onts-No. 2 white, 32c to 94c, nominal joy-Mailing, new, \$1.66 to \$1.68, accordant to freights. ing to freights.

Montreal.—Quotations: Oats—Canadian Western, No. 3, \$1,96%; extra No. 1 feed, \$1,06%; No. 3 local white, \$1,03%.

and western, No. 3, 13, 6815; extra No. 1 feed, 11,0615; No. 3 local white, 11,0735.

Mill Feeds.
Mill Feeds.
Mill Feeds.
Mill Gred was a consensual religion of the control of the contro

bag 39 bb.
Very tew Ontario beans are coming feward, and stocks are light. Montreal gottes band picked white beans, \$8.75 to \$2. and other grades, \$8.25 to \$8.50. Toronto quotes Canadian prime, \$7.50 to \$3; (oreign hand picked, \$8.75 to \$7.

Torons quotes changes and Poultry.
Eggs and Poultry.
Egg prices have taken a sharp decline, felewing an increased production in most selection and the production of the produ

ed up at good prices. T	foronto is quoting:
	weight. Dressed.
Chickens 27c	to 00c 30c to 00c
Milk fed 30c	to 00c 22c to 00c
Hens, 31/2 lbs 26c.	
Hens, 31/4 to 5 lbs 28c.	to 00c 30c to 00c
Hens, over 5 ths 30c	to 00c 30c to 00c
	to 00c 25c to 80c
Ducklings 25c	to 00c 27c to 00c
Turkeys 30c	to 00c 35c to 00c

Dairy Produce

Dairy Produce.

Wholesale houses are paying from \$4c to \$3c at country are paying from \$45 ke to \$3c at country and are paying from \$45 ke to \$3c at country and are paying from \$45 ke to \$3c at country and \$4c at \$4c to \$3c at \$4c to \$4c at \$4c at \$4c to \$4c at \$4c to \$4c at \$4c at

Live Stock.

The outstanding feature of the live stock market at the Union yards last work of the live stock market at the Union yards last worked with the live stock was the live stock with the previous stock with the previous stock with the live stock with

Quotatlo Heavy steers, choice...\$ 12.50 to \$ 13.25 do, good 12.00 to 12.25

BRITISH COLUMBIA LEADERS.

BRITISH COLUMBIA LEADERS.

A The annual meeting of the Technical Chillium. The many Association at Chillium. The many association at Chillium. The work of the ment was made in reporting the 1917 ft. O. E. work: "The two leading clows in ment was made in reporting the 1917 ft. O. E. work: "The two leading cow in ment of pounds of birrech produced were as follows:

"Asymbire'—tot. Lansie 2rd 2 years. owned by W. B. Walker of Chilliumach, 83 lbs. (fd. 1.) and the control of t

sends owned by 18 thereon of Chillismon's owned by 18 thereon of Chillismon's control of the con

KORNGOLD FARM

Kengold Emerson Burks, No. 3335s, a son of a 31-b, dam, well grown, really for service, and a good individual. Write for Extended Pedigree and Price.

F. J. McCALPINE

R. R. No. 1

BLOOMFIELD, ONT

AVONDALE FARM OFFERS

1. A choice young buil, born Nov. 2, 1917, sired by "Woodcrest Sir Clyde." Dam, a 28-1b. daughter of "Prince Hengervoid Pietle"; ind dam, 27.8-1b.

2. Also a grand young buil born Oct. 6, 1917, lisht in color, sired by "King Echo Sylvia Johanna." This is the \$5,000 yearing son of Belle Model Johanna 2nd, the twice 37-lb. cov. Dam of call is a 16-lb. two-year-old daughter of "K. P. A. Canada"; 2nd dam, 29.96-lb.; 2rd dam, 2170-lb. A barrain. H. LYNN. Avondale Farm,

Brockville, Ont.

Four 30 lb. Cows this Winter at VILLA VIEW

We have for sale the best lot of bull caives that we have ever bee able to offer from dams with records up to 28.73; many of them goo preapeds for 30 lbs. Also one bull ready for service from a 15-lb. two war-old. Buy your next bull where 30-lb. cow; are being developed, an faster than in any other herd in Canada. Write to-day to

ARBOGAST BROTHERS . . . SEBRINGVILLE, ONT.

CHOICE BULL FIT FOR SERVICE.

CHOICE BULL FIT FOR SERVICE.

SIRB--Francy 3rd's Hartog 2nd, whose two nearest dams average 31.57 lbs. butter in 7 days, and 193 lbs. milk in 1 day.

DAM--Admie Paladin Wayne at 3 yrs. old, butter in 7 days, 25.34 lbs., milk in 1 day, 25.3 lbs.

Write for Description and Price.

STRATFORD, ONT.

R. R. No. 3, SUNNYBROOK FARM HOLSTEINS

Get them while they last! We have only 3 of our young bulls of service-able ago left. Do not miss this opportunity. You will never get finer individuals, with such official backing, so reasonable.

P. SMITH.

Jos. Kilgour - Eglinton P.O. -. North Toronto

HAVE YOU SECURED A BULL? IF NOT,=

What about one of these \$1606, vising 2 yrs, safe, sure and of Al type, \$0.00 A. Admin to the safe of Al type, \$1.00 A. Admin to the sa

GEO. W. ANDERSON,

GLENCOE STOCK FARM, .

BOX 182,

CAMPBELLFORD, ONT.

SUNNYSIDE STOCK FARM HOLSTEINS

DOUGO SINGES PATNE, our herd sire, is by a brother of the world's 50-ib, cow leeps 2 year obdann. He is a grand built in every way, and is not yet 4 years of the world of the

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

ELMCREST STOCK FARM

No. 1.—Bull 1 month old—Dam Ganos Bessie Faforit, 26419—record at 34 years, 467 lbs. milis, 276 lbs. butter. She is a daughter of the beautia son of a 30.78-lb. daughten at Jaheph Dairy Test, 1311. Signation of a 20.78-lb. daughten of the beautia son of a 30.78-lb. daughten of the beautia son of a 30.78-lb. daughten of the beautia son of a 30.78-lb. daughten of the beautibeautia son of a 30.78-lb. daughten of the beautia son of a 30.78-lb. daughten of the beautia son of a 30.78-lb. daughten of the beautibeautia son of a 30.78-lb. daughten of the beautia son of a 30.78-lb. daughter She beau

HAGERSVILLE, ONT.

CHOICE BULLS READY FOR SERVICE

By a son of MAY DCHO SYLVIA. His two nearest dams (both Canadian champions), average 35.62 lbs. butter in seven days. Price

No. 3-By a son of MAY ECHO SYLVIA. His two nearest dams (one a four-year-old), average 34.17 lbs. butter in even days. Price \$500. Some extra choice young bull calves from \$200 to \$1,000. We have sold thirty-five bulls this winter.

R. W. E. BURNABY, Highland Lake Forms (Farm at Stop 55 Yenge Street Radial) Jefferson, Ont.

THE NOTED DON HERD THE NOTED DON HERD are at present offering a few young bulls of service age and from R.O.P. dams.

Also a few females, from eight to fourteen months old.

For particulars, and prices write

D. DUNCAN & SON,

R. B. No. 1,

TODMORDEN, ONTARIO.

WWW LYNDALE OFFERINGS

No. 1.—A son of CHAMPION ECHO STLVIA PONTIAC, 12 months old—a show bull—dam a 15-th. Junior 2-year-old daughter of KING PONTIAC AITHS CANADA.

No. 2.—A 13 months old son of MAY STLVIA PONTIAC CORNUCOPIA (% brother to Champion Echo Sylvia Pontiac). Dam—PETTEI RIA—PHTEIRT IN PROPERTY OF STREET STR

\$.....

FAIRMONT FARM

offers a bull bargain born June 28th, 1817, nicely marked, straight and ready for light service. Death, not 15.46 has butter at 26 months, a good prospect for a large record at next freshens off. Write for pheto and price. We have also a few from 22 to 5 months old. R. 2, Mitchell, Ontario . SEBRINGVILLE STA.

MY SINGLE COMB WHITE LEGHORNS are exceptionally heavy layers.
Hatching eggs \$1.50 per 15. C. Martin,
BLOOMFIELD, ONT. froquests, One.



"The food wanted by mankind does not exist.

The word 'shortage' is not strong enough.

The whole world is up against a nasty thing, familiar to the people of India, called 'famine.'"

LORD RHONDDA,
Britain's Food Controller

One year ago, only the enemy was on rations.

To-day, Great Britain, France and Italy are on rations.

To-day, Germany controls the wheat lands of Roumania, Russia, Poland and Ukrania.

To-day, the shadows of hunger, famine, disease and death hang over the Allies.

Upon the 1918 crop from Canada and the United States depends the fate of the democratic peoples of the world.

If that crop is sufficient the Allies can be fed.

If that crop is not sufficient the Allies may have to accept a German peace.

We know that farmers have obstacles and difficulties to overcome...but the labour shortage this year is not as great as it was last year. If you need help to produce more food communicate with your District Representative of the Department of Agriculture, or the Public Employment Bureau in Toronto, Hamilton, London or Ottawa.

Lack of Food----threatens the Battle Line