


## What we have done for others we can also do for you!

HNDREDS of our machines are being used oy the dairy farmers of Canada, at a saving to thep, of time and cents. Are you separating your milk with a hard-to-run, hard-to-elean, out of date separator. If so a

## Opinions Differ on Dairy Legislation <br> Many Dairymen Anticipate Some Dificulty in Putting the New Regulations

 Into Operation. Much Educational Work NeededTH1S Dairy Standards Aot, which the maker Work Neeced during the last few weeks has oc- short of help, and the paten rushed and cupied aueh a prominent. Dlace ly those who think they are always be conthues to be the Farm and Lairy, Ing beaten, if there were an official discuses to be the most thoroughly dalryman eubjeet amongst Ontarlo daliymen. Faotory owners, patrons ind makers are all keenty interested In the manaer in whleh the new legischlef wifficulty antieinated seas. The chief difficulty anticipated seems to familiar with the many of them unlamiliar with the teat fifd most of seft tims, wil their limit at the present time, will not be in a position to aanume the extra work whleh the enforcement of the legialction will in. Yolve. Some think that the best
method would be to bave method would be to have the testing
done by a apecia) done by a apecial set of offlelals; al. though tha eost of keeping up a staff of men for the purpose, might be ob jected to by the patrons.

See ivtary Thempson's Views.
A. Thomy and, Beceretary of the Dairy. A. Thoms mon, Beeretary of the Dairy.
men's Aadochation of Kastern Ontario, expreseses timself as follows:
"With the arading of the cream and Ily agres, 1 am the whey I heartcompelling 1 am of the opinton that compelilig olieese factorles to pay for milk by butter fat test will be very uin. popular in Eastern Onterlo. It is hard to perauade the arerage patron that It is Important to send richer milik to the factory when sueh a large percentage of the fat thi the milk is not belng ineorporated in the cheese. The factorles that have put In separators
and are masufecturint and are matiufceturing whey butter are paying good dividends.
preachlag fory experts have preachlag for years that if the been was delivered at the factories in milk per condition and the cheeses in pro competent inilien the cheese made by fat of any commerclal value in the whey and that it would not pay to suade patrons of ehease fact to per suade patrons of cheese factories tha it is liecessary, to sead richer mill While many of our factaries are realising from $\$ 1,200$ to $\$ 1.800$ annually trom he sale of whey butter.
If the fat that is being sent to the factories at the present time were incorporated in the cheese there would be no cry of "lean cheese," nor would there be any aecessity to legislate In the matter,
Views of a Hastings County Maker. Mr. Chas, A. Tompson, of Hastings cial testers, but fears that of offl. might not approve of the plat patrots thus staten hili vlews: "Re the Dairy standar
say that bome of our patrons wave been agitating for paying by test for some thme. I do not thisk there will be any opporition to the Act, as all be any opporition to the Act, as all
have to admit that no one has any have to admit that no one has any
right to the other fatlows money. The only questlon seems to be how to get the teating accurately done. It-is just possible that the gatner would be a osers if there was another set of off: cials to keep up. I know of some first flass cheesemakers who, Judefing from the manner in which they keep thein milksooks, I would not considep care-
 ing in a satlofactory manner.
"I do not know how often the test month would do 1 don't ane twice a present Inipectors could see why the work. In our syndicate on not do the ate enough to have a clas of makert who do not require very much gula. ance from oti fairpoctor, lind if he could only rot around to the factorles often enough he could take on a little extra work without bursting a blood
vessel. vessel.
"I belleve it would be better for both
tester who did his work an officia However, farmers feel that under' oath enough white shirts thept there are fobough white shirts kept up on the job as it is and that matters should be of officials appointed."

A Workable PIan
Workable Plan Needed First
Joseph MeGrath, 2nd Vice-preaident of the E.O.D.A., belleves that some practicable plan should be worked out before renorting to compulsion. He "I donst follows:
"I don't think there will be much tion until after the new legislaharmers are not organized in arce, way wereby their opiaions can be given think there will be great dissatisfac ion among patrons of factortes the 'pay by test' is In operation. they are so mistrustful of che makers in weighing their mill chees will they be about cheesemal, wha anybody else 'testing it,' someth which is as latin to the ordinary fan, mer. At least 75 per cent of the far mers weigh their per cent. of the fa to keep tab on the cheesemalker, agaln who can say but what asemaker, an fied in dolng th's, not they are just been much need of it but there ha the only way in of It, but that it I that they are being fairly can know But how are being fairly>dealt with are being used in the testing of are b
ailk. 4 Fior
esting is going to be done, or thow golng to do It satisfactorily. The Act provides a penalty for any one convieted of under-reading or over-reading a test, but that doesn't amount much. If a cheese maker wishes favor or discriminate against anyon water to sample, add some cream Wher testing. the cheeso matter who does have to take the sampo maker custodian of them samples and be the custodian of them. Also the takit He will have must be carefully don He will have to take a sample very draft of milk as a man may ten in filling up the cans empty cream in to one can and the milk at the bottom of the can in other. The farmer will be able to that the cheese maker does this, b he cennot 'keep tab' any further the farmers of Ontarlo sze amyinin Iike they are in thls county they went be satisfied with the testing. keep close watch of the welthe The their pork, poultry, ete., and every thing else they soll.
"I am not opposed to paying by test, as it is certainly the fair thing and the man with the low tenting heri has really no grlevance-let him get A better herd, but under existing condil tons I can't see how. it is going to be put in practice successfully. could be done in case suspicion should arise regariling the accuracy of the lest as made by the maker? That's a aticker. The only way to deal with that will be for every farmer to buy a Babcock teater, and learn to operat ft , and protect himself the same as he does now with his scales.

I think the man who is testing the amples should not be in a position o know who ta the owner of any of them, and of course, the cheese maker Would know them all. I have had Babcock tester in my factory for the iast twenty years, but I could never get a eheene maker to une it, wished to have the mille tested I had to do It myself. I thlnk some plan of testing that would be practicable
(Oontinued on page 6.)

Dtrang time to t spring to the Bedford d tarms I have Dairy. The su
erles, is Elm E. Ford-or D riy of Mr . an vork together pertains to th hat 1 will ren ourteous peop? sides of the hot ciated with the Ford, for instas the farm he no

The milking ho farm altogether The farm could but it is Mr. For pose to breed al own cows and ke those that are and good.pre Particular emph laid on the health herd, and fts imp has been learn hard experience. farm in 1900, a mediately started tablish his here 1007 all of his were slaughtered count of tubere Need I say that M was almost disco or the time, but I he made another and the herd has lly grown to its p proportions.

## A Visit To Elm Cottage Farm

## A Nice Herd of Jerseys Is the Main Source of Revenue.-By F. E. Ellis, B.S.A. URING the past few months 1 have from

Dtime to time made reference to my visitt last spring to several representative farmers in the Bedford district of Quebec. Several of these tarms I have already described in Farm and Dairy. The subfject of this sketch, the last of the series, is Elm Cottage Farm, the property of Geo. F. Ford-or perhaps I had better say, the prop-
erty of Mr. and Mrs. Ford, for in all things they erty of Mr. and Mrs. Ford, for in all things they erty of Mr. and Mrs. Ford, for in all things they
work together and are equal partners in all that pertains to the farm. I have made fow visits that I will remember with so much appreciation as the afternoon that I spent with these kindly, courteous people, whose family traditions on both siles of the house have been so long closely associated with the distriet in which they live; Mr. Ford, for instance, is the fourth of the name on
the farm he now own. the farm he now owns.
first heard of Mr. Ford as a breeder of pure bred Jerseys, and it was primarily to see his herd that I visited Elm Cettage Farm. I found he had some good ones. The herd bull, purchased at Maridale, N.Y., co mes from a herd the cowss of which run from 500 to 700 lbs of butter, with a
test of six per cent. right through the ehtire herd. test of six per cent. right through the ehtire herd.
His grand-dam whis old Gadte O His granddam whs old Sadie Queen of Vetnor, a famous cow in her day. The sire used previouth to this one came from the herd of Mr. Bullings, of
Woodstock, Vermont, and he improved fhe herd Woodstock, Vermont, and he improved the herd
to a yery satisfactory extent.

## A Serious Setback,

The milking herd consists of 17 cowe. On the farm altogether there were 40 registered Jerseys. The farm could readily support 35 milking cows, but it is Mr. Ford's purpose to breed all of his own cows and keep only those that are bealthy and good-producers. Particular emphasis is laid on the health of the herd, and its importance has been learned by bard experience. Mr. Ford took over the old farm in 1900, and fm mediately started to es. tablish his herd. In 1907 all of his cattle were slaughtered on account of tabereuloais. Need I say that Mr. Ford was almost discouraged for the time, but in 1910 he made another start, and the berd has gradually grown to fts present proportions. They are all tuberculin tested, and


Striking the High Spots in Quebec. On the farm of Cee. Rl. Ford, Cowansville, Que. there has not been a single reactioh in the last
three years.

A Jersey cow that will produce milk at a profit
is the cow that Mr. Ford aims at, and his will average a pound to a pound and a quarter of butter a day all through the winter months. The cows freshen in the fall whenever possible. Ensilage and roots with, of course, clover hay are the basis of the winter ration. From 2,500 to 3,000 bushels of roots aré grown each year, and on the value of these Mr. Ford lays great stress, as he finds that they keep the cows in "great shape." Grain is not heavily fed, never more than from three to four quarts'a day. Mainly it is bran, with cotton seed once a day and ofl cake once a day. Little grain is grown on the farm. The hay is largely pure clover, the seeding being at the rate of 16 to 18 lbs . Mammoth Red to the acre. In recent years no timothy seed has been included.

Dairy Butter the Specialty.
The creazi is made into butter at home and shipped to Montreal, where best prices are realized.
The farm itself is broken and frregular, the soll generally belng a gravelly loam. The total area is 312 acres, with about 150 acres under crop. The nature of the farm makes it almost ldeal for sheep, and Mr. Ford expects the flock to pay for the last 100 acres added to the farm.
Although Mr. Ford and his wife have not aceumulated great wealth, nor achleved all of thelr Ideals for the farm proper, they have four.a the time and the money to improve their home and afd to the old house all modern conveniénces: Thus in their home thoy have combined the permanence of the older bulldors with the conventences and comforts of the modern. The home has a beautiful situation onty a few mitten from the town of Cowansville.

In the rush of seeding, especially when the season to as late is it la this year, there may be a temptation to work the fand when it is too wet. This is bat for almost all soils, but on heavy solls it may do incalculable damage Any one who has had to do with clay that has been puddled and eun baked realizes the difficalty of getting the soll back to proper tilth.
A few" hours delay may save much work later on.

## All Around The Farm

## Some of Our Folks Opinions ma Seed Time Topics

## Deep and Shallow Cultivation <br> s. B. Conn, Renfrew Co., Ont

IAMM to do no apring powing My land to a sandy loam of good depth, but with a gravel subsoll, so that it is furnished with good natural drainage. This makes it comparatively easy to work up in the spring by means of a disk harrow.- The plowing is all done af the fall, and Iffid it much easter to get it finished now slince threshing machines with biower attachments have been tatroduced into our neighborhood. It only takes about onehaif as many men to sun the machine, with the result that II do not have to go to every threshing within a mille each way from my gate as I used to do. This saving in time makes it possible to get the fall work done in good time, so that I have everything ready to make the most speed with the apring work by using only wide implements.
Atthough 1 do not spring plow, I am a firm believer in deep spring cultivation. 1 aim, to stir the land up just as deep as the diak harrow will stir it. For this purpose I use the double cutaway disk, which I find specially adapted for making a deed seed bed. The number of strokes depends upon the condition of the soil. After a mild winter or a wet spring the soil seems to bre calked pretty solid and needs altivation than when the winter aud spring have been dry. In a field that has been plowed out of a atilf sod there are so many roots in the soil that it makes it more dim. cult to work, so that the only rule that can be laid down is to continue disking until the soil le stirred to a good depth.
The objeet of this deep culturation ts to provide a larger feeding ground for the young plants. It is surprising and interesting to see how a plant will reapond to good soll conditions. Most farmers are familiar with the way animale will respond to good feed and care. When they put one up to fatten, they generally expect to see a differ ence in a tew days. It is just the same with a plant. Thes should be
fed with the object of fatteming them. Although 1 cannot see the food that these plants make use of I know that so tong as 1 provide lots of well pulverized soil for them to forage in they will and the food and make the most of it. I also know that if I only provide a shallow seed bed they will have more diffeulty in finding sumelent foods with the reealt that they will be half starved out.
After disking I aim to give the land two or three strokes with the drag harrow. Besides providing a fine dust miulch for the top, the action of the harrows and the tramping of the horses belps to firm the soil and to bring it in cloge contact with the subsoll, so that molature can readily pans up fito the foeding ground of the plant. Atter the grain is - beginning to shoit through, and especially it wet weather has loft a crust on the top of the soll, I go over my field with the land roller. This destroys the crust and helps to further 1 rim the soll, beatdes crugbing any lumps that may be on top: Last year, finstead of rolling. 1 tried runnlag a harrow over a field of oats the saime way as it was drilled, and this restored the solt mulch without hurting the oate as far as I could see. The object of all this cultivation is $t 5$ provide a deep, fine, Arm seed bed, with a loose mulch on top.
Enclosed you will ind twe diagrams showing


Showing the Effect of Thorough Tillage on Crope.
At the left the rets have no chance to mpread end cannot get st the nouriaimert in
the soil The plants are starving and stunted-a poor harvent, of none at all will the soil. The plants are starving and stunted-a poor harvert, or none at all, will re-
sult. At the right the soil ts woil tilled, the roots can roe food. The planta are flouriabing and large, and will give War aptendid and garvest.
the advantage of giving the roots of plants lote of soll room to work in. The actual results in the field are quite na striking as those mhowi in the diagrams.

## My Idea of Root Growing

J. O. Maedonald, Carieton $\mathrm{Co}_{0}$, Ont.

THem best practice tis to sballow plow a sod-
elover sod preferredelover sod preterred, soon after haying, or early in the fall; harrow and roll to rot the sod, and also harrow and cultivate once or twice later in the season. Late in the fall, before frees. ing weather, the land is again plowed, this time quite deep, and is left rough all winter.
In the spring barnyard manure, about 20 tons to the acre, is well worked into the ground, and the land kept cultivated from time to time until ready for seeding. The drills are made with an ordinary plow, about 28 inches apart, and on these freshly made drills turnip seed- or mangels as the case may be-is sown with a drill or by hand on the freshly turned earth, and when lightly covered, is rolled with an ordinary land roller.
seed so theckly as to ohoke the ears to about halt their natural shes. If, on the other hand, his aitm Was to produee srain, with stover secondary, should plant the sped emtins at abech distan from one another sa would allow each individu corn plant to produce one or more full sized ears No rule could be given which is applicable in a cases for culdance as to the amount of seed be planted per acre, becaune this is lergely termined by local conditioni.
The point was emphasised that whereas w most fodder plants the crude fibre increases ver rapidly as maturity advatoes, thun reducing percentage of other constituents, fin the plant the opposite to the caise. The valuable carbohydrates therease at such a rate towari maturity that the percentage of other sirbstances decrease. Conseguently, corm should be pretty well matured to got the maximam amount digestible food. It should not be planted thickly as to retard maturity to too great an extent
Prof, Zavits, in dealing with the matter, stated that experiments had shown that the crowding of corn together had the effeet, of retarding maturity. For this and other reasons, early maturing varleties should be chosen and the crowding not overdone. They should be sown in drills 80 as to allow thrm to mature well, and should be well on to maturity. An elaborate experiment had been conducted at the college for five years in succes. nlon in growing an early, a medtum
and a late variety of corn in rows 20, and a late variety of corn in rows 20 , 36 and 43 Inches apart and with platiss four, eight and 12 inches apart In the rows. The largest yleld per
acre was attained from the thickent aere was attainet from the thickest planting in the eultivated rows.
I miny say that my expertence growing corn under field conditions conifms what was matd regarding the planting of corn fairly thick in rows. Not only are marimum yteld secured when the corn is sown in thls way, but the labor, both planting and summer cultivation, greatly reduced.

## Busines Methods in Farming ${ }^{\circ}$ E. S. Arehibald, B.A., B.S.A., Ottawa

THE present is an opportune time for putting the tive steck in dustry on a moce bualness-like

It no fall preparation in working of the root ground has been made, the best thing to do is to plow down a heary dretsitng of barnyard manure, seven fnches deep, and harrow and cultivate, preferably the disk harrow, every week untll ready to seed. The plowing should be done as early as possible in the spring.

## Thick and Thin Seeding of Corn <br> d. A. Macdonald, Carieton Co., Ont.

rT will soon be time to dectae whether to sow
coril thits ar thin this year corn thith or thin this year. Referring to the notes that I took while attending the last meeting of the Ontario Experimental Union, of which I am a member, I find that it was pretiy well agreed that fairly thick sowing is the bent. Ont of the mpeakers referred to resalfs of experiments conducted some rears ago in Illipols, showing that with bilek, planting the largent amount of digestible nutrients per acre was obtaised. The largest yield of ear corn was secured by plantlig the herinels about 12 inches. apart, In rows 40 inches apart, while if fodder and not grain was desired, it was bent to plant only four inches apart in the rows. Dean Henry, of "Feeds and Feeding" fame, was quoted as saying that when the atockman wfihed to secure the greatest amount of autriente poselble he should plant the
basis. I do not thiok that any one would deny that there is room' for great improve ment along this line. Even on the best of our farms there te a constant whata. Our endeavor should be to plug the leaks. The only secret of improvement in thie regard is the application of more busineselike methods. The present tims, when the demands upon our tarmers are so great, seems to me to be a very opportune one for improvement in farm management and for introducing more effelent methods lato our farm practice.
The fixed charges on a tarm are the same whether it ta run at a proftt or a lons. The intereat on the capital inveated in farm, buildings and equipment is a constant charge agninit the business. Thene overhead or fixed charges cannot be cut down, but their relatuve amennt can be very materially lowered by inereaslag the volume of business and cutting down losses. By keeping better cown and feeding them better, and by growing more and better teedstufts from the aame
ground, the volume of the basinees ean be ground, the volume of the basinees ean be increased. Reasonable cooperation in buying and selling and in geseral community work in breedIng wilt greatiy inerense the income of the indl-
vidual farmer without increasing the overhead vidual farmer without increasiag the overhead

[^0]May 11, 11

How Fo

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vicinity by the a the packing 1 sion to two b them was su still he stoo Which they el dredweight. begrudged the the truth.
A few of us could be done decided to see a farmer, to have a very agreed to bus pay for same of the average on hand the on-the-spot. couple of ahipr What was hap packing compe man. Most o with the highe money, but "penay wise, business. The off the market the company's for us. They and no doubt a about how the Secon A year passec no longer, so this time a chat had begun in $\mathbf{D}$ Through the and their organ four Dranches within a radius work we were regarding the talted the matl ing of the Pres and our previou was held at the full of ginger, de the matter out committee was When the comm read, with a

## FARM AND DAIRY.

charges he has to meet. This increased incorve directly tends, therefore, to increase the profita en his business.

## Successful Call-Raising

Nell Bangster, Chateauguay Co.,-Que.

MORE attention should be pald to the babyhood of the cow. Many cows are ruined by belng stunted when in the calf period through lack of proper feed and eare which hinder their development. This is in evidence in many parts of our country. The undeveloped cow is more subject to disease, and from this class we get the great number of "boarders." The calf should be well fed, new mith at flrst, gradually turning to skim af about three weeka oid. The calf should be kept in a growing con dition so that full development at maturity may be insured. The feeder should watch carefully and see that the calf will not take scours, the
bane of the dairy cattle raiser. This is usually eaused by overfeeding. Milk s.oould be fed to the young calf three times a day. As the calf grows the skim milk ration should be increased, and after each feed of milk a small portion of meal should be given. Whan the helfer fis sis or seven months old the task becomes easler, as she then can handle and assir:-ie coarser foods as the digestive organs develop. From this time on she should be kept thrifty, but not fat. When the helfer should drop the frrst calt depends on her breed, size and development. Some claim that early breeding develops the milking propensities of the helfer. Where such is practised from 18 to 20 months should elapse before the second lactation perlod to allow for growth and development. The cow making a large amount of millk works as hard as any horse and must be well fed and cared for. The rearing of the calf under these conditions, along with skillful feeding and good care, will imnorove a very medtocre herd into a fine herd of producers.

## Cooperative Marketing of Hogs

## How Four Branches of the U.F.O. Combined Their Forces and Solved the Problem

## L. SCHNURR, CREY CO, ONT.

FOR a number of years the farmers in our vicinity consudered themselves overcharged by the drovers who were handiling ! gs for the packing hooses. We were paying a commission to two buyers at our shipping polnt. One of them was supposed to recelve a stated salary, still he stood in for his share of commission, which they clatmed was only ten cents per hundredweight. This fee the farmers would not have begrudged them had they stuck a tittle clocer to the truth.
A few of us got together to find out if anything could be done and talked the matter over. We decided to see some of the farmers and get a man, a farmer, to do the buying for us. - We didn't have a very long search to find our man, who agreed to buy all our hogs and when welghed pay for same within 10 cents per hundred welght of the average, f.o.b. prtce. So he agreed to be on hand the next shipping day and was Johnny. on-the-epot. Everything worked fine the flrst couple of ahipmests. When the other fellows saw what was happening they got busy with the pork packing company at thelr back and outbid our man. Most of the farmers flocked to the men with the higher price, thinking they were making money, but thoughtlensly following the old "penay wise, pound foolish" system of doing business. The result was our man whs forced off the market and we were again in the hands' of the company's buyers, who did not care a smap for us. They got back the extra monex they pald and no doubt a little interest tesldes, and laughed about how they had put it over the poor dupes. Second Effort More Succesaful. A year passed away. We could stand the fleecing no longer, so thought we would try it again. By this time a change had taken place. Organization had begun in December, 1914.
Through the United Farmerg' Co-operative Co. and their organizer, Mr. J. J. Morrison, we have four branches of the United Farmers' of Ontarlo, within a radius of ten miles. As a restit of this work we were in a position to govern the terms regarding the sale of our hogs. A few of us talked the matter over and decided to call a meeting of the President and Secretary of each club and our previounly defeated bayer. The meeting was held at the most central place. We all met full of ginger, determined to $w i n$, and we threshed the matter out thoroughly. After the debate, a committee was appointed to dyaft an agreement, When the commilttee reported and an agreement was read, with a few minor changes it was
unanimously carried. A copy was handed to all the officers of the different clubs to sign up all members and as many outaiders as we could get. We were not long in retting all the members and many outsiders as $\quad$ all, thus Increasing the membership of the clubs. When our organizing was complete our man appeared on the market and bought 85 hogs for the first shipment. The opposing buyera secured only 14 and would have fallen short of this number had they not been previously promised.

After this, keen competition started and the old saying was ased that the farmers would not stick together and that they would soon break up the organlzation. They immediately got busy with the telephone, horse and rig, and scoured the country with the intention of buying up all the hogs at the farmers' stables and offering higher prices, which they knew our man coutd not pay. They even offered as a bribe $\$ 2.00$ a hundred more when at the market, But the farmers would not bite; they remembered their first experience
(5)
and the after affects and promptly refused to sell, thanks to their good judgment and loyalty. The result was our man has pought all the hogs ever since, in spite of those who have been doing all they could against us. What we have done can be accomplished by others.
In order to make the detalls of our scheme clear I will tell just how the buyer handles the business. In the first place he has an agreement with our members as follows:

Copy of Agreement.
It is hereby agreed between the undersigned (hereinafter called the seller) and- (name) farmer, of the township of - (hereinafter called the Luyer), as follows;
The seller agrees to sell the buyer all his marketable hogs and to deliver said hogs to the buyer in (name of place) on shipping days.
The buyer agrees to pay the seller the f.o.b. prices for hogs at time of shipment, less ten cents per hundred pounds, said hogs to be shipped from (name of place) every two weeks.
The buyer agrees to commence shlppligg on Monday, 191 -

The Buyer Handles the Business.
Our buyer does not travel around to find the possible number of hogs that will likely be marketed, but the owners of the hogs inform the bayer how many they have. In this way our buyer knows whether he will have to foln in with the buyer at the next shipping point to malre a full load, or fill up with cattle at the home station. Usually he does not accompany the shlpment to Toronto, as the hogs are consigned direct to the packer. Our buyer gets quotations from the packer that can be seen by any member upon request. So far our hogs have been paid for on the fo.b. basis and the sellers are paid cash for their hogs at time of marketing.
Our shipping experience is not of long standing and the system may be changed and improved on as circumstances necessitate a change.

The farm is a permanent investment. The most of us who buy a farm do so with intention of making farming our life work, usually of that farm. Why, then, not make all of our improvements of a permanent nature. Use permanent materials, such as cement or masonry, where possible. Plan permanent fences and build good ones. It pays to Agure on future use rather than present cheapness.-Henry King, Halton Co., Ont.


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## A Few Questions For "Everyman"

## \section*{How old are you?} <br> How much do you earn?

How much have you saved? Are you a married man ? How many children have you?
Are they self-supporting or dependent?
Have you seved enough to matntain your family Or would your home in that case be broken up ? Would your children be reared by relativen?
Is there a mortgage upon your house, gour stere
or farm?
Could your wife "lift" that mortgage if you were
Do any of these questions suggest life insuranee
Does life insurance not bring to your mind Canada/s grand old Mutual Company that protecte 50,000 Canadian homest ?
Is there a Mutual Policy is your home ?

## The Mutual Life

Assurance Company of Canada Waterloo, Ontario

You'll Find the Advertisers lid varm and mainy advertising reliable goods, They want to know are rous; also want to toy are Where you saw the Ad. When writing them don't forget to tell them
you saw the Ad. in FARM AND DAIRy you haw the Ad. in FARM AND DAIRY.


## Hints on Concrete Construction

$D$URING the courae of an inus. Stewart, Aylesworth, Stillwell, Petars,
trated leeture relating to con. Delamore trated leeture relating to con. Delamore, Higeine, Zlegler (*18),
crote conatruction on the farm, Minelly the speaker was asked what pro- Minore ( 18 ( 12 ), Jones ( ${ }^{\circ} 11$ ), Orews portion of flarm Work of thls Wadsworth, Patterson, Becord, F. N. character resulted in fallure. He re plif 1 that failures were exceedingly few, and that if farmara were instructed as to the use of proper aggregntes, fattures woutd become prac
tically unknown. tically unknown.
The following brief instractions concerning the essentials of good concrete have been prepared for the information of farmera, whe will find them convenfent as reterence data. If strictly observed, they will finsure satisfactory results,
Aggregates to be Used in Conorete Construction.
The sand, stone, and gravel usually found upon the farms of the United States are generaily sultable for conerete construetioa, provided the forlowing precautions are taken:

1. These aggregates must be free from vegetable matter, dirt, or other toreign subetances.
2. When using bank-run gravel, the sand must be separated from the stone or pebbles by screening flurough 14 -inch mereen.
3. In small concrete struetures, such A drain tile, fence posts, ete, the travel) should range in rock or W fneh to $1 / /$ inch. For larger from such as allos, barn floors, ordinary moundations, etc., comrse agrregate AFould range from $1 \%$ inchies to 14 finch.
4. The sand naed ahould be conras. hari, and clean, and graded from $1 / 4$ fnch to fine, with the larger size predominating. Use great care in hand mbxing. It is economical to buy a small minchine mixer if the farmer intends to luse concrete in large guantities.

## Hand Mbing.

Proper methods when concrete Is mixed by hand, using a two-bag batch of 1:2:4 proportions, are as followa: 1. 8ine of measuring box for sand should be two feet nquare by one foot high, thus containing four cuble feet. 2. Load sand in wheelbarrows and wheel an to mixing board.
3. Fill sand-measuring box, lith box, and spread sand four taches thick over board.
4. Take two hags of cement, place contents as evenly as poselble over sand.
5. Turn the sand and cement over until thororgtily mixed, so that no streaks of cement or sand appear.
6. Spread the misture of sand an cement out carefully, place measuring box benide tt , and fili twice with stone or gravel, then empty on to sand and cement mixture and mix thoroughiy. 7. Add threequarters of requirod amount of water slowly and eventy. at same time mixing the masa.
8. Continue mixing, adding balane of water when dry apots appear, inttl Whole mass has been turned over, three or four thmes. This should be surfi elent, After final turning, shovel into compact-mas ready for wheelling to place.

## O.A.C.Examination Results

Tthis remalts of the Arst, second and Ontario Agricultural College for 1916-18 are as follows:
First year:- Pass standing in order, except in cases marked with s, the numbers denoting the subjects in lise below on which pase standing was not Brained:- Shales, Campbell, Hart, Fhatt, Grant, Muggrave, Odell, Murroe, Gum, Gowland, Barber, Kimball, Ollver, Matheson, Steokle. Hardy, Bategot, Hodging, W. C. Caldwell, Humter (112), Mason, Shiteld, Burgenor, MeGoudte (*11), Way, Pearsall, R. Atkis.

Karn (*13), Rutterson, Becord, F. N. (*9), Andress (*12), Jackson, Contogue ( Tice ( 41,12 ), Raymond ( 88,13 ), MeLean, Diff $(* 1,12)$, Wood ( $* 3,10$ ), ( 110,19 ), Duff $\left({ }^{\circ} 1,12\right)$, Wood ( $\bullet 8,10$ ), MoDonald

what of aubjects- ing. iterature Tookkeeplag, soll physics, manuaj
training, ehiomistr, trainingi chemistry, geology, botany zoology, horticulture, vet, materia medica.
Second year: ("E") Indicates lesm than 60 per cent. ta Engrisint er, Logan, Bremner, Brown, E. S. Sny der, Helmpel, Ferguson, Arnold, James, Pattertion, Andrew, Melliwan, Malyon, Wuson, Sullivan, A. W. Any: der, Newton, Lowell, Jakes, DaI Ay C. V. Walker, Dodding, Parfitt, Robis son, MoCulloch, Nelson, Munnoe ( $* 18$ ) Michael, Malsey ( ${ }^{*} 223$ ), Shoroey ( ${ }^{(292) \text {, }}$ Moteod, Hoard. (E) Smith, Hamilton Knowles, MfoBeath, Wallice, Bcot! ( ${ }^{\circ}$ ) , J. I. Walier ( ${ }^{(18) \text { ), Hawley, }}$ Pinch, Iambert, Lavis, Richardis, (E) Moore ( 222 ), (E) Shaw.
List of aubjeots:- Wiectrleliy, phy. botany, princlples of breed.
Third Year: White, Auatin, Mason, Slack, Dvans, Daver, Bchurman, Guild, Wlgieins, Murdock, Sutton, Manton, Vanievery, Selwyn, Mekillien, Clark; Martin, Neff, Waterman, stokes, Red. mond Marritt, Pleming, Honter, MeConkey, Skinner, Merkley. MoCurry (except in meteorology and quantitio tive oliemistry.)

## Opiaions Differ on Dairy Legislation

(Continued from parc 2)
Ehould have been worked out betore making it coupulsory.
"The Aet almo compels the pasteurlgation of whey when it ir drawn in the millk cans. That is another thing that is very hard to put in practice.
"To pasteurise properly it must bs heated to a temperature between 165 and 160 degrees, any lower or ligher temperatures would do more harm than good. How can a factory owner see that the maker does thls properly? In no way that 1 know of. I tried onee and it proved a fallure.
theory it soems ofine, bat in practice is altogether differont.
"I have studied the
Ing by teat for years, and I don of payIng by test for years, and I don't mow of any case in which it would give natliptaotion. 1 am loolting for lots of trouble when the Aot goes into force."

## Paying by Test in the states.

It may be of laterest to dairyme to kriow what is being done in some of the States regardigr payment by tost at factories. We are in receipl of the following from the Dairy Dept Wiscomsin:
${ }^{1}$ do not know of any state that empuires the use of the Bubcock test in paying for milk recelved at obeese factory. A large percentage of the Oheddar cheese factories in W/s the Oheddar checse factoriss in Wis
conalis are ustng the Babcock test as anmin are using the Babcock test as a means of oralculating the amount
due the patrons of the fiotory for milik, but the teat is very liftle used for this purpose at the swises, Brick and Limburger cheese faotories of Wisconnin.
In New York, another great dairy state, payment by test ts left optioual, as will be seen by this extract from a letter recelved from the Experimental Station, Geneva, N.Y.:
"There is no law in this State whioh mintres it compuleory for cheease factorles to pay on the quality basia. Bome factories pay on that banis, and creamerios practically an pay on that

The 16 . $\mathrm{K}_{\substack{\mathrm{L} \\ \text { beot } \\ \text { wonk }}}$ NDM: exp
and ex
this bp
rinc, by he Acoom Is taken from till entitied,
operative Pro carcanes may half provides and eight elfe bers indicate
are to go tos are to go tos
of the beef is of the beef is
the cuts beling the cuts beling
The member The member
the week, ge share of iteal to supply for cuta No. 16.
bers are each Tris are each
The weeks in members are are arranged of slips from lhing is lert to ber gets a squ more conventi may rearrang instance, if a ready in time,

Dlagram 8 ments with an down the Hst ready that mig if held until he
son. The exeh tuaily advantas

Eversion
By A. S. A

$\square$, VERSRION Lhe most paning to lua and one th pulsion of the puision of the
or "easting the sometimes term fused with a
everalon of the everalon of
this womb
The afterblit) where the acelts close upon calv taken place twe the accident. when diseovered thg down and lacerated or bru No time shoul rig treatment. essen the sever poses operation, in a quart of wa hould be buekle ody just in frot siot In the same elp to lessen th the cow, which a to make reductlo imposetbility, Aft noroughily with. sasistants do 4

The 16-Share Beef Ring


 a. In, n , York Co., Ont fo taken from a Saskatehramp, which tin entitied, "Sugrested Linan of Co tin entited, "Sugrested Lines of Cooperacive Production," khowe how a half provides elght bofls, elestit rouch and elght alloes of steak, The numb bers indicate the boils and moets numare to go together. The othor hat of the beef is eut ib in the other hay the cuts beling numbered from 9 to 16 . The member supplying the anlmal for The member suppiying the animal for shere of mteak, while the one who is to supply for the following week gots outa Na. 16. Fioch week the mem. bers are each advanoed orte numberThe weeka in which the different members are to supply the anfmals, are arranged by drawing a number of slips from a hath so that every. thing is left to chance and each member gets a square deal. Should memmore conventent for members, they natanee, if a man whe draws. For ticket has not an animal that will be ready in time, he may make will be
must be wabhed in a werm two per cent solution of en effective disin. tpctant.

## Thughening the Womb.

As the womb has now become triable, tender and readily tern, it is now imporiant to use as a waih some sev.rton that will toughen it and at tho same time prove healing and antlseptle. For this purpose we dave found nothing so good se a molution of pane ounce of sugar of lead and two exuces of tincture of oplum in a quart of water. Use thls freely to pathe the protruded mass and it to batho found that it congulates the surface and renders it tougher, so surface dilng does not so reudily rupture the tisones and thus caase puptare the The washed womb thouly now theme. pheed in a cleam sheet held aw be piaced of the coan sheet held at ench by this means rnined to the ruity and Now commences the the vulva.
or the massences the difficult work, for the mase is very much larger than ifflieult to reduce it or it is moot entranes. One assistant ahlileve its the mase wie assistant shyuld grasp vulva and commence soneesing the gently and commente squeesing it seeling and forcing it toward the body, seeling to tuele its edges lito the
Vaginal pasange. Little by little por-


Diagram showing How to Cut a Carcase for a $\mathbf{1 6 - 5 h a r e}$ Beefring.
ments with another member further tions disappear and the mase-is grid-
down the Hitt who has an down the unt who has an minimit ually presped inward. If held until his turn later to theavy son. The exchange therefore is matu
gity tuaity advantageotis.

## Eversion of the Womb

By A. S. Alexander, M, D. C.

$E$Viarsion of the womb ts one of the moat serinus accideuts happeaing to the cow or other anlwiai and one that is always difrieult pulsion of the eversion we mean ex pusion of the womb from the body, or "easting the withers"" as farmers fused with it it is often confused with a simpler aceldent, vis., evereion of
The afterbirch is usualiy attached Where the aneptitent has sually attached close upon calving, but is absent in a majority of cases where calving has When it has been possible to make ast the large part of the mass near est the body disappear, then the shut ptteit to the ar masiatant is next ap pliedthent from the portion of the womi farthest from the body, pressing stead other aselatants patientry shile the other aselstants patiently squeeze preas and manipuinte the mase, It may endienly telescope upon flseif and disappear within the body. Fok how it with the arm into. the abdomin. fforts to counteract expulgive mies upon the part of the cow, and Wion die becomes more quiet the gonld must be smoothed out as fur as womb and the two fioms of the woulr atraightened out and got into their proper position in the pelvis.
akken place twenty-four hours before
This done, a mase of freeh, unsalted the accident. In many instances eand of th if possible, be worked tate When discovered the cow has been 1 F . act as an antlioptio and left there to ing down and fotting up again so detritus of the wo melt and colleo that the womb has become fouled, lacerated or bruined.
No time should be lost in commeneng treacment. To quiet the cow and lessen the severe straining which onposes operation, the cow may be given aneounce dose of chloral hydrate in a quart of warm water, A sursingle should be buckled tightly around the body just in front of the udder to ate slat is the same way, and an assistielp to lessen the expulat she she Jolns, the operation le an easy one way, out

 mposalidily. moroughly lhoroughly wih roap, and having the drives out the blood and reduces the asslotants do the same, the womb womb. Farm Journal.

## Why You fhould Molndist on Getting <br> O. K. EQUIPMENT <br> can be casily seen if you will study thiese

great biectures for a minutute. They show thre
Just notice the construction of the lock
easy to insert the swing bar. The catel is wide mouth makes Made of the best malleable iron and constructed simple yet secure. spring and gravity plan. This ensures periect on the combination years of use-one of the main reasons for the serviec, even after

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it the hinge holds it O.K Stabchions are Cop and bottom. by eltectiched to the stailk at


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 cal How many sowa?
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 When will you bulld or re-

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 chave Tirshigh made equip. for Fhie is inc Catague,
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anakeoper to oerve fo parlor,
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## 

 NintionSot ins inione
G. L, Giffith \& $S_{0}$ stratoren, OOO

## KILL THEM BOTH

 foite and thitro Brand Arsenate of Lead, The apote moab needs fun-
ARSNATE of LEAD and SOLUBLE SULPHUR Ahe wrum of Soluble gubthur, weifotit 100 Spriws $\hat{1}$



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## Beautifying the Home

 Chils. Howson, Peterbero' Co, OmL. $T$ His tarm home may be beartified owner's likes and sisiliges to the idee is, trat the and dislikes. The be made so the surroundlogs ahould appeal to the ege at flrat chey will Was a very proper answer to him it it aeked why any man ahould be delight. ed whith beauty, that, "It was as openttlon that none but a bllad mas pould ask."One way of beautifying the farm home is to plant trees along the rondtould Before planting the trees would recommend that the fences be intende condition and ones that are menaed to remain permanently. The reason for this is that the growth of年 groug trees whll not be hindered the pulifing down or buildlag of Young
Young maples are the most sutabsy trees for this purpose. These ging around the it the woods by digcircle with a thee with a spade, a As circle with a radlus of about one foot, As much earth as poseible should be tree and on the roots of the young tree and planied with it. These trees should be planted about $\$ 6$ or 40 feet apart and on the inside of the fence, to prevent any cattle pasturing on the highway from browaing and breatr ing them down.
Before the trees are planted, most of the limbs should be cut off and the remaining ones cut back. Aboat hirty years is required for the maple to give much appearance of beauty. The lawa may be improved in ap pearance by planting a hedge around and spruce trees or some kind of shrubbery in such places where they will show to advantage. These individual trees must be arranged in such positions that they will give n they will show to the eye, otharwise The sprien The spruce trees used for this pur pose should be thitok and branehing o the groand.
asie cedar is pe aapa the most sult able for thedges. The roots of the young trees should be mulched with strawy manure and planted about 10 inches apart. These should about 10 ed during the dry spells for the first summer. Thls witi fncrease thelr growth, and decrease the danger of their dying. There is a lapse of about three years before much trimming is required, other than the cutting of the stretched along the line should be the hedge and the hedge and sides of the hedge and the hedge trimmed to it. ance of the add greatly to the appearFlower the lawn if property arranged. Plower beds, etcher raised or on the levet, may be dog in sultable places, and then suitable flowers planted in these. A little border plant placed around the edge of the bed helps to produce the destred effect, if the collor of the flower is du harmony with the other flowers in the bed.
Hanging bapiteta, old ohurns, ote. palnted and mled with vines and howers also ald in beautifying the firprovements not hars many other wdil make the farm home very attrac will
HIRING HRLP BY THE MONTH-IE hiring help by the month, are $\%$ work to dete. for fnimanios month or from dato -A. A., Altermont Ob, Ont.
A calendar month is considered to be the time in contrmplation of the month. Your help was therefore hired from the 10 th of August to the 10th of September.

Mctr. Howwon, the writer of this ar Dairy, int Good Fiarme Cormpatition.
 the oompetition.



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 by ordering egse for hatchuig from
our heavy winter haying atrain of 1 Barred Rooke. Beest pen yet arter
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Keeping the Poultry House Clean w. a. Eentley, Welliington Co., Ont W $V^{\text {E }}$ always try to keep our henhouse clear, with as few lice and mites fafecting the birde Imes of the year in whiche certain ames of the year in whichywe think apeciai cleaning is necessary. The warm has dried un, seems to ne to be ne of the bsat umes for givitis overy. one of ine bast umes for givias gvery. overhaullag. We begin
Of Utter and every speck out every blt of (ittor and every speck of dust and broom. We aiso remove everything broom. We aiso remove evarything
that is removable. We then treal all that is removable. We then treat all twe cracks, chinky and joints where mites or lice can find a lodging with some thoroughgoing dieinfectakt. Some of the disinfectants have been influenced by the war and the prices have gone up out of sight. Others, howeves, are still obtainable at the
old prices. We generally use zenoold prices. We generally use zeno-
leum, which we heard recommended leum, which we heard recommended
by Prof. Graham of the O.A. ., and by Prof. Graham of the $0, \triangle . \mathrm{C}$., and
find it to be satisfactory. When we find it to be satisfactory. When we are sure that every insect and germ
has keen killed by the disinfectant, has keen killed by the disinfectant,
we replace the rooets and feeding We replace the rooets and feeding
troushs and put in new litter. The troughs and put in new litter. The hens seem to understand what has been done and to be trore attached to their home than ever.

## Diarrhoea in Poultry

W ${ }^{\text {HAT }}$ and whito 1 do for hene whith yellow laytne pernecty heathy and are fenerally deya they die sonee timem the in a fem
aro the the unonoked white of en
 but a tringy, yellow mubotance nothing They
generally keop red in comb and watles
 cookerel affected now, the frit matore bird


- Diarrhoea is a symptom in ao many diseases that it is imposofble to state the exact trouble with your corremay indleate cholera, but if thls were the direase all the whole flock would have gone before this instead of one or two a year. It may also indicate tuberculosis, but without a post. mortem examination it is imposkible to tell. It may be nothing but simple diarrhoea. I therefore suggest that a alek bird be sent br express, collect, 10 Dr. Chas. H. Huggins, Dominion, Pathologist, Fxperimenta! Form Ot Pathologist experimeat Farm, ot Cawa, and have your correspondent
write a letter at the same time giv. Write a letter at the same time givIng all the details of the disease. frect thi meroughly the clean and disinfect tioroughly the poultry houses,
isolate any birde thet may Isolate any birde that may be not in the very best of health, and gtee to all in the trinking water muriatic acld at the rate of one teaspoonful to
two gallons of water. two galions of water.-5. C. Eaford, Dominton Poultry Husbardm;n.

Handling Young CYicks HIOKS need no food nom two to three days after hatehhivg. They the first week the temperature oburing the arst week the temperature ebo tha d
not fall below 95 degs., and during tha not fall below 96 degs, and during tha second week it should be held up to 90 degg. When they crowd under the hover of the brooder it is a sign that they are cold. Fifty chleks is enough for one brooder. When too many are put together the sometimes plle on top of cich other and some smother,
Triben the chicks are 48 to 60 hours
 practice 250 . soc, 500 , 00 . $\$ 1.50$, catringe pald. $1 \mathrm{gal} .(31.50)$ makes 80 galh . dip ZENNER DISINFECTANT CO, Sandwich St., Windsor, Ont.

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We have thi best strain* of Bred-to-Lay S. C. White Leghorns on the market. They will fill the egg basket next winter.

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When You Write---Mertion Farm and Dairy
old feed them equal parte of bresd middilings and rolled oats to which crumbs and oatmeal to whleh add a add 10 per cant. of meat seraps.
little chlcken grit. Weod four or five When the chlcks are six weeks ol
times a day and only what they will times a day and only what they will ground oate may be used in place of ear us in a fow ininutes. After the the rolled oats. At this age the ohiek feed. Sprinkle it in the litter, which parts of be tiscontinued and equal
forl feed Sprinkle It in the litter, which parts of wheat and cracked corn fed should be made up of a thtn layer of in fts place. Keep the mash before short cut alfalfa or fine cut straw. A them in hopper home made chick feed can be made as followa: Oraeked wheat, 25
pounds; fine noreened ernelked com pounds; fine sereened eracked corn,
20 pounde; pinhead oatmeal, 10 pounids; crushed peas, three pounds: millett seed, two poundis, and fine chamooal, three pounds, Keep grtt, charcoal and water before them all the time.
Afier the first week begin giving beef aerapn in amall quantity. Feed eparingly at flrst, one ounce for 40 or 50 a day. Provide green food, sprouted oats are best. Mangels, green elower and lottuce are also good. When on open range the grass will answer. After the chicks are two weeks old a mixture of equal parta of wheat bran and beef noraps
may be lwopt before them all the time. When four before them all the time. When four weeka old the following
mash mixture can be fed in hopper: equal parts of bran, cornmeal, wheat county. growing industry in this

## HORTICULTURE

## Advantage of Large Seeds

COOD seed, hetter seed, and the best seed are terms of prime imThe best seed, in plant production. The best seed, according to investigations recently conducted at the Vermont Agricultural Experiment Station, is large seed. The results obtained With seed corting of sundry plants are of asisistance, in the explanation of several points relating to the differ ence in nfaturity, lack of uniformity, In size, Beason and quality of produetion.
Mr. M. B. Cummings. who Mir. M, B. Cummings, who conduoted the investigation, summarizes his re-
sults as follows: sults as follows:
The advantages which adcrue from the use of large and heavy sweet pea total number of blossoms, sind a larger number of blossoms of good and a larger number of blossoms of good quality, as Indicated by the size of bloom and
length of stem. Hiants srown fromm length of stem. Mants grown from
large seed ars heaviar and bear more large seed ars heavier and bear more
and longer fateral brahehes, Hubbard squash and sweet
reepond well to soed seleotion pumpkin reepond well to seed seleotion. Plants

## Production and Ihrift

## CANADA'S CALL FOR SERVICE AT HOME

## Produce More and Save More

The Empire needs food. If you are not in the fighting line you may be in the producing line. Labour is limited-all the more reason to do more than ever before. Grow food for the men who are fighting for you. The Allies need all the food that you can produce. Every little helps. You are responsible for your own work, If you cannot produce as much as you would like, produce all you can. Work with the right spirit. Put fighting energy into your effort and produce now when it counts. The more you produce the more you can save. Producing and saving are war-service.

## Make Your Lahour Effcient

In war-time do not waste time and energy on unimportant and unprofitable work. Economise labour. Put off unproductive work till after the war, and, if ponaible, help in producing something needed now. Let us not waste labour. Canada needs it all. If possible help to feed the Allies. Melke your beckyard at productive garden. Cultivatef it with a will. Make your labour count for as much as possible.

## Do Not Waste Materials

There should be no waste in war-time. Canade could pay the annual intereat on her war expenditure out of what we waste on our farms, in our factories, in our homes. Every pound of food saved from waste is as good as a pound of increased production. The way for a nntion to snve is for every individual to save. France is strong to-day because of thrift in time of peace. The men and women of Great Britain are not only "doing " but are learning to "do without."

## Spend Your Money Wisely

Practise economy in the home by eliminating luxuries. Wasting, our dollars here wealcens our strength finance the war. Save your money for the next Dominion War issue. There can be no better inveatment.

## THE GOVERNMENT OF CANADA

number and a $\begin{gathered}\text { rreater total welght }\end{gathered}$ frult, but were, however, markedly ferior with respect to nutmber Weight of ripe frult, Special precat
tions were found to tionsy Were found to be neceasary order to avold a mixed heritage

## - A Benefft to Lettuce.

The merite of large meed in lettuc culture are shown in the produetion larger soedlings, an increased welgh played better heading-tip, which dis played better heading-up capabilitieearliness and uniformity in filimg th beads: in short, augmented earliness and quality.
Heavy spinach seed outelasses Ught seed in welght of plants, width an number of leaves, height of maln stall and general earliness.
Parsley, a blennial herb whleh auick ly renews its top when cut back, gives not merely larger and etrltar follag but shows greater recuperatis powers when the larger seed la used Radiehes, one of the shortest short-term crops, show good gains favor of large seeds. Sorting the sizs from the same parent gives as great contrast as sorting composite sample showing that gains may be made irte spective of the riature of the parent plants. Fiftge secds glve a more illt form erop ready for use about one week in advance of small seed.

> Large 8eed-Earlier Beans.

Trials with beans resulted in of the large seeds. The advantage ar truing from the eerliness of the pro duet grown from t.'e large seed is somewhint offeet by its later germination.
In a stngte irial, garden peas made ilttle or no response to size selection of seed, although a alight gain was recorded for plants from lerge weed allowed to mature: but no observed when harveeted na Bras peas.
The welghts and sizes of compared at different stares of plants whow that a contthnolis and permament advantage exists in favor of permanent Plants grown from large send po hare leaves of grester seed poinrface ind hance have greater surface area, powers.
The place origin of small seeds pods of different plants show a chaotic were found to In beans, 49 per cent while is per cent. occur in the inal and of the pod. Garden neas follow middile regular distribution, for the a more reguiar distribution, for the small seeds are almost always found at the
ends of the pods, with one end as pre lifle as the other,

## How We Grow Potatoes Alexander Lamont, Middlesex Co Ont.

0UR solt is a sandy foam. variety of potatoes that tre Th is the Dooley, As a genar rule we follow potatoes after whent, or clover. We plow after atubble after harvest and the whea acubble after harveat and give lots of
cultivation. We anply the directly from the stapls, 20 to manure to the acrem and work directly 25 loads to the acre and work directly into the
soll. We harrow frearently soll. We harrow frequently during the spring and seed about May 24.

We use good, sound seed of in Ium sire, and have each seed plece the alre of a hen's egg. Our method of planting is to plow the ground and seed every third furrow, running the farrowe five fnches đeep. We spray With Bordentur mixture to control blight, and expect extra bushely of yleld for every extra cultivation wo stre the crop.
We: regrand seed selootion a imporiant in keenine on ylelds ion fore the general flemeng we so. Bethe field and turn out the moot likely looking hills and seleet seed fuber trom the hest of these. We take abtrom the hest of these. We take ho-
tfee of the plants; eome are stockier tiee of the plants; eotne are stockier
and bumhler thas others. These are and, bushior thas others. These are
preferred, sis we, betteve. that such prerperca, tis we belteve that such
plants resilit diseese beit and they plants a resis disease beet


CLOVER SEEDS

## Government standard



RIDER AGENTS WANTED



 Hit iving con plete imed





## The Farm Office

F ARMING is a business and the manager of one is, or should be, business man has an office because it has proven an asset to hls business A few farmers have also tried it and proven tis efficiency.
should have a bushenes every tarmer if it is no more than a space, even tioned off in the tool house are alifollows:

1. Bulletins adapted to every phase of the farming busineas are now available, and unless these are filed
away, they are never to be found why, they are
2. He often has business callers who teel averse to walking iato the house and talking freely before the women members of the family, but Who are at ease when alone with the farmer. An office fitted up cozily withe to stove and chairs is a fituing
piace to take them, especially in cola piace to
weather.
3. The time is fast approaching when the succenstul farmer will know something of solence, and an office
or den ls a good phice to make his or den is a good place to make his
experiments on solls or other maexperiments on solls or other ma-
terials, or to keep his samples of fencing, solls or seeds.
4. There is no farmer but keeps some accounts, more or less correct according to the business ability of the man. He should have a place to keep these account books, Neatly printed farm stationery, and a typewriter in his offace will help the farmor to find a better market for his prodnots.
The cost of fitting a farm office can depend upon the inclinations of the man. It shoutd contain a desk, preferably roll top on account of its many drawers and pigeon holes, an extension of the 'phone from the house; shelves or cablnet for fling his books, pamphlets and samples; a stove and a tabis for his experiments, Other equipment may be added as is needed.

The Dog and the Cows
Jat. smith, Peel Co., Ont. 6 . TEY! there Jim, time to bring he cows in."
That call was the morning terror of my life all through my boyhood deys. It meant crawling out of a sice warm bed and hiking out throngh the cold wet grass after the cows. Our farm whs Jarge and as was the habit in thoso days all the land near the buildings was devoted to hay, grain and corn. The cows were pastured on the atump land away at the baek of the farm. Hence the long run for the coms. Hence the at at day break, in bare foet throngh cold grase was never plensant.
I had always agitated for a cow dog that would go and bring those cows for me. But father was - op poeed to the idea. He did not believe in dogging the cowe. As soon, however, as I got big enough to make
my influence felt areund the far ny influence felt around the farm, and as labor Was high enough to make Daddy think sosiously before eptirely over-riding my suggestions, I got the dog. I got him well train: ed and all I had to do was sit on the top of the fence and watch the cows come in on the run. True, they were shivering with exoitement and for the eowe to hold up their milk was a constant source of sinoyanoe. The cows did not give a great deal of milk anyway so we still kept to tho

Cown That Did Milk.
And then came our Arsit pure bred Jereegs. We bought five. The firet nighte milling whe a surprise. Bome of them had been milking for 10 monthe but they gave ang for mill montho but they gave to mineoh milk
ond of two months. And it looked richer too. The young follow that with is cattle offered to stay give us a ferr pointers on managing them, and although we did not think was neceessary we agreed.
What a change the next morning The new arrivals came in on the rum along with the rest of the herd. Not milk readily and scales give down her ed to show the scales were not need ed to show the decrease. We almost we purchased the breeder from whom we purchased the Jerseys was worls half milked thom that he had only them away, in order that he sent them away, in order that wo would milking. The faverably with the first the cows, The follow who brought the cows, however, was of a different
opinion. pinion.
"Say FURE bards Not yor ALI,
"Say," said he, "you fellows had more your style than thes. They are

Why, how is that ${ }^{\text {" }}$ " we inguired.
Well, anyone who knows anything about good dairy oows, knows that they have to carry too much milk in their udders to come into the barn with a dog at their heels. Theee cows have dropped five to 10 lbs . from their nsual milking this morning and if you do not take the dog off they will soon be dry.?
We had invested enough money in those Jerseys to want to make them do right. So the dog was taken off The milk flow was restored ind anf has run amoothly ever since.
Why am 1 writing this little dob story Pecause recently we sold is disappointed that a man who was so disappointed that he wanted us to ake them back. We went to investifing the heifera. Pere too was dogging the heifera. Perhaps there are haps this little experience will show them their mistake.


Washing the separator once a day Is not all that it is cracked up to be The separator should be wash agents. The separator should be washed twice a day and scalded thoroughly at least


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nedium of these columns but
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## Mail Order Competition a Help

AFEW weeks ago the publishere of farm papers in some of the central states toured their largest eities holding conferences with bushness men with the view of impressing them with the buying powers of the farming public and with the dealrablity of the Farm Prese as an advertising medium. Among the addresses given was one by an enterprising merchant of a small coun try town. Dealing with mall-order houses, he fneleted that far from being the enemy of the country merchant, they are in reality a help. He is cuoted as followe:
"Whenever I see a farmer taking home a cataIogue from one of the big mall-order houses I know that he will sit up under the lamp looking through the pages, finding out about the things he never knew existed-things that would make his work aasler and give hime more comfort' and luxury. Thas his needs and wants are intreased. He becomes a bigger customer. I will take my chance of selling him against the matl-order house."

## There is a kreat deal of truth in what this mer-

 chant sald. The catalogue tends to stimulate buying, but the inereased demand for goods that results will not all be met by the catalogue houses. The live country merchant will get his share of the increased business. Tis finterests are best served, not by antagonism to the mailorder business, but-by taking advantage of the greater demand for the goods that he offers for sale.Preparing for the Dairy Regulations HI
at cheose factorles on a quality basis will mark a dfetinct forward step in Ontario dairying. The manifest infustice of ignoring, in a product so variable in quality as mills, the faotors on which its quallity depends, muit eventu-
ally lead to the fintroduction of nome moheme by which milk will be paid tor socording to valua But dairymen, confesed by the disagreements of authorities af to which was the most dentrable basis for payment, bave been slow to take up payment by tent. This naturally lod many lead ing datrymen to conclude that some method of promoting thits reform was necessary. The result is the Dairy Standards Act, which regulres the payment secording to teet from the begtining of next seanon.
Although this legistation is a diatinot step for ward, the fact should not be overlooked that it is a very long sten. In fact, it is the most rationt plece of datry legislation every introduced tin the proviace. According to the statement of the Miniater of Agriculture in preeconting the bill for its accond reading, tinety per cent. of ntll the milk dellivered at the 1,000 cheese factorien in Ontario is paid for on the pooling basis. Sinee payment on a quality basis has been taken up voluntarily by such a small percentage of our Gairymen, it is apparant that there must be iftrons reasons for the lack of progress in the past, and that a large amount of apathy, as well as coneflerable oppoaition, must be overcome before the new legistation is put into operation. If is evident that betweon now and Aprit 1 of heoxt year much educational work will have to be done If the régulations are to be introduced without frietion, and also, that ateps must be taken to remove what have proved dimicultiee in the past,

## Paving the Way

$I^{N}$N undertaling a campaign of education to prepare makers and patrons for the adoption of the new regulations, the Arst eseontial it a futt understanding of the diflculties, real or Imaglaary, that eland in the way. Hor arriving at such an understanding a free discussion of the whole matter 'should be of greet nesteratice. For thif reason Farm and Datry has apened Its columna to such a-discuestion. We belleve that dairymen should have a full opportunity of diseusthy in their recognized dairy organ a subject so ntal to their interesta. In this Atsemsiton the ditticettiles can be pointed out aie well as the methods by which they may be overe3me. The result ahould be that thone concernei, in introducing the new regulations will be aseleted in bringing the tintter to a supcessful lisue.
In the meantime we wish to define our atitude. We are in favor of the step the goverament bas taken, providing the great dificultion that many factory owners, makers and patrens will fact ftr meeting the demands of the new legislation are recognived and provided tor,' We belleve that the time has arrived when it is necessary to put the payment for milk at the factories of the province on a quality basis of more or lese unitormity.- We belteve this can be dones Ten per eent. of the factories have adopted payment by teat voluntarily. What cas be done at one fhetory can be done at another. The question is aimply that of accepting the slfuation and Aotng our toent to meet the new demand. If we all do this, and the legisiation goes into effeet without further delay, the result will be that great good will acerue to the dairy induetry of Ontarlo.

## Attractive Home Grounds

MUCH that is written on beautifying the home surnoundings is applicable only to town-lot conditions:- Striving after color sehemet and mass effects may be all right on a plece of land twentyfive feet aquare to which the owner can devote an hour or two each evening, but on the average farm a simpler plan must be followed or the land around the house given over to neglect. The farmer is too buny a man to have much time for attendiag to tlowers, eepecially in the apring, whea they demand extre attention,

The matter is nsuilly teft to the farm women Who, auxtous though they may be to have everg. thing atituetive, outside as well an inside the house, have only timitted time for sartentrig. The first enseatial in any plan for laying out the home grounds on the farm is that it require the minimum of lebor.
The other day we visited a farm home, the surrounainem of Thich noemed slmost ideal from work whe neoded to toen it in olnt. Scarcely any work wae neoled to keep it in order. The tences and gates were in good repair, the poste were all standing up atraight, and not a trace of weede or rubblah wha in aight. This in itself was enough to lead an atr of attractiveness to the place. The lawn was large-nearly a quarter of an acre in exteat-and had never known a lawn-mower. When the grues gets too high it is simply trimmed With is sharp soythe. Around the edge of this open space wan a row of trees that need no atteetion. A couple of lilac buahes at the front corners of the house rellevgd the struight lines, and a narrow border along the verandah, in whieh feer handy perenhitats, backed in summer by some nastartiums that climb up the lattice work, campleted the arrangemient. The total time required to keep the grounds in order for a whole summer would not totat half a day, but the genaral effect Was quite an pleasing as it the most complifated
plan had been followed.

## Fluctuations in Hog Prices

was than a year and a halt ago Prot. Geo. I Day, in an addreess at the Guelph Winter
Fair, made-a atrong plect with the farmers Fair, made a atrong plet with the farmera of the province aot to rush out of the hog rairligg
buminean With prices around seven dollars a hundred and graln selling at highi digures the prospecte were not encouraging, As is usually the case when prices are low, the impression soemed to be abroad that hogs woald never pay of breeding stock. Prof may were selling whort of breeding stock. Prof. Day saw better things
ahead, however, and atrongly raallied the farmerg
not not to take advantage of the ease with which then oould get out of hog rafsing, bot to keep fully atecked up with brood sews untll the market
rishted itselt.
With prices now hovering around twelve dol lars a hundred Ave felsht, the Profomor's fasch has been amply fusflifed. The plecing of exten-
nive war oidera for meat on this continent nive war ohders for meat on this continent hag undoubtedly had much to do with carrying prices to auch unheard-of levels, but $t t$ is sate to say that even under normal conaltions the market would have rallies, and that at the present time hoge would have beed selling well. Those who stayed with the game are now reaplag thetr
rewand Thar
It would be well, however, not to be induced by prenent prices to swing over too far to hog raia-
ink. The close of the war will witnese a falling ing. The close of the war will witnese a falling off, perhape a great falling off, in prices. Thers Is atways an element of apeculation in the hog
market. As a result of the raplattr with which ples multiply and the shortness of the tithe which ples multiply and the shortness of the time which
they take to reach miaturity, the stock through. they take to reneh maturity, the stock through-
out the cotintry may bi gulckly increaeed or de pleted. Variations in the supply are reflected in wide price fluctuations, and the diffeulty of deftr. ttely forecasting the market allows a speculative
frotor to enter, accompanied by an element of frotor to enter, accompanied by an element risk. The man who plays safe, keeps lafs breeding stock faitry constant, and takes hitgh and lo pricee as they came, Is the man who usually
makee the most out of his hogn. Suoh a man will makes the mont out of his hogn. Suoh a man will
hot be caught overatocked in a tumbling markect

The arerage value of the milch cows of the
 prevtouk yeas. A total value of \$104, ind, 000 whe siven to the country's cowe lapt year, an fncrense
of ton and a half mililon over 1918 . sohool. Thit thare are in present. Ha Ontarlo heve ren attend
than ten. (8) Ten,

Educational Authorities Favor Consolidation

## Advantages of the System Emphasized Before the Ontario Educational

Cwas a lite tople at the convention reforrect The Canadian Teacher, who of the Ontario Bducational As- made in the movement the had been sociation, held in Toronto during the Whenever consolidationt in Mantioba. weak endthg April a9. The princlpal en a falr trial it was a suocess, giveld Rlichard Caees, aubject was Inspeoter Mr, Parkinson, who regretted the lack whose articles on of Peterboro', of progresp in the matter so vevident Fhase and Dairy on fave attracted suoth in Ontarlo and the oldes provinces. wide attention. The lending atront side tin the syatem erire surg advant
by Mr. Tiees as followa summarized (1) Groatly fincrowsed
both in enrolment and in the porinoe, both in enrolment and in the percent(g) the pemrolled
(8) The possibility of the develop. ment of tae spirit of cooperation and ommunfty laterest through the shoool This is not poselble where there are only a few chilldren, a there are in many rural sohools present. Halr the rural achools of Ontarlo beve tees than twenty chlld ren attendthy, and many hapc less than ten,
(8) The country schpol comes to possess all the advantages that fol low from the establishment of sraded
clases, properly equipped taborator clasess, properly equipped laboratorqualified teachers, of under property as agrieutture, domestic sele ice and manual tralining.
(4) The puplis of the coundy have, like the children fin town, Pae privit eges of a hich sehen? without golng away from home.
(6) The school comes to be an inlopalty and pride of the people the becomes a centre for the aotivities of the commenity.
(6) Teachers cease to the Isolated units and are prought together in croups where mutaal help and coopersalion are possible, thus making it easier to seoure and retain the serv,
ices of better teachers under more invorable condititons.

School a Community Centre.
J. K. Putnam, faspector of sehoots at Ottawa, strongly champloned consolldation, and condemned "the myt tom that entalls so much waste in educatlon." He claimed that Consolida: tlon sehools would make poosible the teaching of nowing, cooking and do mostic art for country sirls and leasen the deslre that many of them have to live in towns or cittien $A$ four or a wixvoom school whitive sores of land around it and a comfortable rosidence for a male Princlpal would make posalble a setiool which would be a source of sweetnese and lletht for the whole of sweetness and leaty for the whole would bo poserble, IAlterature, fils tory and elementary selence, thoae eubjecte which have a satistying content for adolescent boys and girls, could be so presented that the elild ren would think it worth while to re-
maln at school as long as possithle. main at school as long as posshble.
County School l Boand Sungested.
County Schoof Board Suggented.
Dealing with the multiplicity of sechool authorities, Mr. Putnam sald that this was a detriment to the fm provement of rural sehools.
"The reaponalbility for the schools In any connty In Ontarlo is resting on too many ahomiders," he continued,
We have carried loand control to We have carried looal control to a ridiculous farce in some cases, and th other cases ari atifing, it where it oucht to be atrengthened." To offeet thls Mr. Potnam mosiested that a lected by the people or and women elected by the people or appolisted by
the County Coinail to manage the the County Coinecll to manage the is the would to fuat as comocrutle is the prosant aymem and wortld mateo progress much easler, The naural corollary to chls would be a unk Corm eounty rate.
Coosolidation Wee also strongly
 Mathew Parkchuson, forevt

## Close Skimming ALL the time

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# Average first year depreciation of the Ford car is \$125 as against \$250 to $\$ 400$ for practically any of the lower priced cars 

It is difficult to set any definite figure for the depreciation of an automobile. So much depends on the condition of the individual car at the end of the season.
The average price paid for used cars in the $\$ 1000$-or-less class at any time dufing the first year is about $\$ 250$ to $\$ 400$ less than the first cost. But the average used Ford sells very quickly for $\$ 125$ less than the purchase price.
Compare the Ford depreciation, cost of about $\$ 10$ a month with the probable $\$ 30$ or more a month that the other kind will cost you. Which is the better investment?


## OUR FARM HOMES


(1) ${ }^{\circ}$ appreciate the noble is a gain which can never be torn from us. -Goethe.

## God's Country and the Woman <br> (Continued from last week.)

THE two men gripped hands. There him. The knowledge that she, was to
was something about Jean that In. be with him was something about Jean that inhe returned the half-breed's greeting his eyes looked for a moment over the other's shoulder and rested on Jose-
phine. He was astonished at - the change in her. Evidently Jean the change in her. Evidently Jean had
mot brought her bad news. She held the pages of -an open letter in her hand, and as she caught Philipts look she smiled at him with a gladness which he had not seen in her face before. She came forward quickly, and placed a hand on his arm.
Jean's coming was a surprise," she explained. "I did not expect him for a number of days, and I dreaded what letter mit have to tell me. But this thankfulness, though fresh cause for you a little longer to your vows of lnighthood. We start for home this afternoon. Are you ready?
ald, have a little packing to do," he satd, looking after Jean, who was movlog towards the tent. "Twenty-seven prunes and
"Me," laughed Josephine. "Is it not Héceasary that you make room in your canoe for me?
Philip's face flushed with pleasure. "Ot course it is," he cried. "Everything has seemed so wonderfully unreal to me that for a moment I forgot that you were my-my wife. But how about Jean? He called me M'sleur Weyman."
"He is the one other person in the world who knows what you and know," she explained. "That, too, was necesaary. Will you go and arrange your canoe now t Jean will bring down my things and exchange them for some of your dunnage." She left him to rup Into the tent, reappearing Aulekly with a thick rabbit-skln blanket and two canoenplllows.
"These make my nest-when I'm not working," she sald, thrusting them into Philip's arms. "I have a paddle, too. Jean says that $t$ am as pood as an Indlan woman with it."
"Better, M'sleur," exclalmed Jean, makes youm work harder to tent, "Tt She is-what you call it-gwan-auchewin -so eplendidt Out of the Oree you cannot speak it."
A tender glow filled Josephine's eyes as Jean began pulling up the pegs of the tent.
A little later I will tell you about Jean," she whitpered. "But now, go to your canoe. We will follow you in few minutes.
He left her, knowing that she had other things to say to Jean which she did not wish him to hear. As he turnshe still the coulee he notced that fund. There was not much for him to do when he reached hifs canoe. He threw out his sleeping bag and tent, aillows so that she would sitt facing
be with him, that they were jolned in a pact which would make her his constant companion, filled him with joy ous visions and anticipations, He did not stop to ask himself how long this mysterious assoclation might last, how soon it might come to the tragic end to which she had foredoomed is with the spirit of the adventurer who had more than once faced death with a bridges ahead of blilieve in burning phine. To hlm this love loved Joseit had come to Tristan and Isolde, to


A Comfortable and Attracti,

## Home in Now Ontario.

Paola and Francesca-sudden and tr- volce, but in his eyes was the thins as breathed of the world which he reached out and sripped the balfher, that she lind not even revealed oreed's hand. For as finstant they her, that she had not even revealed her full name to him, did not affee the depth or sincerity of his emotlon. Nor had her trank avowal that he could expect no reward destroyed hls hope. The one big thought that ran through hils brain now, as he arranged the canoe, wan that there was room for rope, and that she had been free to accept the words he had spoken to her without dishonor to herself. It she belonged to some other man, if would not have asked him to play the part of a husband. Her freedom and his right to fight for her was the one consuming fact of significance to him just now. Beside that all others were drop of blood in hls velng and every drop of blood in his velas was atirred He found himself wh.
He found himself whistling agnin as he refolded hls blankets and straightened out his tent. When he had finfshed this last task he turned to find
Jean standing elone behind him, his tood, their faces close, looking fnto each other's eyes. And as men see men where the fires of the earth burn low, so they read each other's souls, and their fingers tightened in s clasp of understanding.

What that part is to be I cannot guess," sald Philip, then. "But 1 will play it, and it is not fear that will hold why-kill me!"
-kill me!!
That is the North," breathed Jean, and in hts votce whs the thankfulness
Without another word he stooped and pleked up the tent and blankets, Phillp was about to stop him, to speak further with him, when he saw Josephine climbing oyer the bulwark of roeks between them and the trall. He hur ried to meet her. Her anms were foll and she allowed htin to take a part of her load. With what Jean had proushat this was all that was to go in Phillg's
dark eyes watching him closely, As canoe, and the balf breed remained lie greeted the half-breed, Phillp look- help them off.
ed for Josephine.
"I am alone, Mrsieur," said Jean, lake," he sald to Phitip across coming close to Philip. "I tricked her paide "he sald to Philip. finto stayling behlnd until I could see you for a moment as we are, alons, man to man. Why it is that our Josephine has come to trust you as she does?"
His volce was low-it was almost soft as a woman's, but deep fin his eyed Philip saw the glow of a strange, slumbering fire.

Why is $\mathrm{It}^{\prime \prime}$ he persisted.
God only knows," exclaimed Philip, the significance of the question burst ing upon him for the first time. has happened so quickly, so strangely, has happened so quickly, so strangely,
that there are many things I haven't that there are many things 1 haven't
thought of. It must be because-she thought of. It must
thinks I'm a man!
hinks I'm a man!"
"That it is, M'sleur
is quietly as before, replied Jean, cause you have core. That, and beIn the North have been there. I Irnow that it breeds men. And our Josephine knows. could swear that there is not one man In a million she would trust as she has put falth in you. Into your hands she has given hersolf, and what you do means for her life or death. And for
$\qquad$
The fires in his eyes were nearer the surface now.
"What?" asked Phillp tensely.
"Death-unless you play your part as a man," answered Jean. There was
neither threat nor excitement in his

I will eatch up w
Phulp seated himself near the s faclng Josephine, and Jean gave th like a swallow on the smoth skimming of the take. For the smooth surfa of the lake. For a moment Phillp
not dip hils paddle. He lonked not dip his paddle. He lonked girl who sat so r-ar to him, her
bent over in pretence of seeing bent over in pretence of seeing
all was right, the suin all was right, the sun melting aw into rich colors in the thick colls her hatr. There flled him an whelming desire to reach over touch the shining braids, thrill of their warmth and sw and something of this desire ths face when she looked up a a look of gentle thankfulness distur hif a little by anxiety in her eyes had not noticed fully how wonderfity blue her eyes. ware until now, soft and tender they were when fre of the excitement of fear and 1 fre strain. They were more than erintal the wild wood violets, flecked with those same little brown spots whith had made him think sometimes then the flowers were full of laughter. Then was something of wistfulness, thought for him in her eyes now. in pure joy he laughed.
"Why do you laugh?" she asked. nd sent the am happy," he repi and sent the canoe ahead with a firy
deep stroke, "I have never pler in my ine have never been liap
ft was posstble to foet as I do.
"And I am just begtanilag to leel my selishness," she sald. "You have thought only of me. You are makive a wonderfut sacrifice tor me. You have nothing to galn, nothing to expect bet the things that make me shudder. A I have thought of myselt alone, sif I have thought of myselt alone, sel
fishily, unreasonably. It is not fair, and yet this is the only way that it c nothing much to sacrifice, nothing much to saerifice, except my sett:"
She leaned forward, with her chite in the oup of her hands, and looked at fim ateadily.

Toe have people?
"None who cares for me. My mothen was the last. She died before I cart North." ers?"
"No

## "None living."

For a moment she was sllent. Thes she iaid gently, looking into his ejer!
"I wish I had known-that I hat guessed-before I let you come thit
far. I am sorry now-sorry didn't send sorry way You are difen ent from other men I have knownyou have had your suffering. now- f must hurt your again wouldn't be so bad if you dide't 1 for me. I don't want to hurt you-lo cause-I belleve In you."
"And is that all-because you bellen me?"
She did not answer. Her hands clasped at her breast, she looked be. yong.
"You must leave me," she sull then, and her voice was as lifeless is his had been. "I am beginning to me aow. it all happened so suddenty that I could not think. But if you love me you hust not go inpossble, I would rather own fate than have you do that wif we reach the other thare you leave me"
she was struggling to keep bid her emotlon, fighting to hold it willit der own breast.
"You must go back," she repeatel ataring into hls set face don't, you will be hurt terribly, tel rjbiyi"
(Continued next week.)

## The

## Travel

"ITHE IL 1
there
the there see the nio? lone that se strength to fault that, by are not stron liere a area tire from
All fear, el for those who ous, know th lave to face child trustfui her hand ints har father, so in our Heave
hile in A1 Illustration of was a strange (inaous nolse made it very Inveatigation were loading
whip from the ulip from the
ui on the f ranged the api freight was ra this leight, th into the bold. most forefbly the deek wits was raising an rous loads. Bo ours is in and strain an cause all the n Universe is Gor bese upon us, ear and endu

And though th
be weak
bear an
To bear an u But only com

Are We T
With the

$61^{\prime 2}$VIE worked
img, Joha ing, Joha.
out every oid bureaus in
that a nice star that

Tohn did took right dear," he that you would rubbish away. "John S-, whi sider the thlings blsh? Why I ha up for years! $T$ tor all the world hat of things vill use them, will use them, How many of rullty ${ }^{\text {² }}$ of the off woman is charge as have a tendent Wieh we cannot of, making ourtel are econcenienl pend a consldern apring and tall so articies of apparel to put them. Wot

## The Upward Look

Travel Thoughts-No. 31 Our Helpor.
66 THE Lord will hold thy right hand, anying unto thee, Fear not: 1 will help thee"-Isa. xvi. 18. Is there some great sorrow in our ufe that seems at times must over-
whelm uis? is there some task to be whelm us? is there some tapk to be done that seems too hand for human strength to undertake? is there a fault that, by our own will power, we are not strong enough to master? Is there a dread foreboding of the futire from which the whole belng sbrinks?
All fear, ehrinking, dread, are not for those who strong, brave, courageous, know that never alone do they have to face these Just as a little child truatfuily ind fearlesoly puts her hand into the big strong one of her fathet, so we must put our trust in our Heavenly Father, and go on without a fear.
While in Alaska I had a wonderful flluetration of this One night there was a strange, lond, and almost continaous noise on shiptooard, which made ft very diffeult to steep. On investigation we found that they were loading the frelght on to the ship from the Skagway wharl. Way ship from the skagway whart. Way
up on the hurricane deck was arup on the hurricane deck was ar-
ranged the apparatus by which heavy ranged the apparatus by which heavy
frelght was ralied from the wharf to freight was raiaed from the wharf to
this height, then lowered away down this heigat, then lowered away down
into the hold. What impreseed mie into the hold. What impreseed me
most forcibly was that one man on most foreibly was that one man on
the deck was directing, and by a turn the deck was directing and by a turn
of a crank in that great maeblinery was ralaing and lowering these pondrous loads.
So ours is never alone the burden and strain and anxiety-bearing, because all the might and power of the Universe in God's, and as \#ie has laid these upon us, so He will give us the necessary strength and courage to bear and endure. As Whittier says:

## And thoush the heart and strength

 be weakTo bear an untried pain.
The bruled reed He will not break, But only comfort and suatain.
I. H. N.

Are We Too Economical?
With the Household Editor.
66 'Ve worked so hard this morning, Johin. Actually, I cleaned oid bureaus in the storeroom. Ina that a nice start towards houseclean${ }^{\mathrm{log}^{2}}{ }^{\text {? }}$
John did look appreointive. "That's right dear," he reeponded heartily. the been wishing for a long time that you would throw all that old rubbish away. Dld you burn it?"
Jon think for whe do you mean? Do sider the thlngs in mose that I consider the things in those bureaus rubb
bish? Why I have been bish? Why 1 have been asving them up for yearat Thaty just ilke a man for all the world! There's heape and heaps of things in those old bureaus, that while I don't know fust how I will use them, they will be sure to ome in usetul some day."
How many of 14 can plead "Not guilty" of the offense with which this woman is chargedt The majorlty of us have a tendency to hoard up things which we cannot at present make use of, mikling ouncives belleve that we are economienl and thrifty, becaune "they may be useful some day.". Wo apend a considermble amount of time ejpring and fall sorting over thete of articles of apparel, and probably have difticuity in finding a place tin whita to put them. Wonld it not be a much
better plan to resolve to give away the artiles walch are still good, but around aut of fashion, to the aeedy around us? There are always needy beople, who could make good use of clothing for which we have no fulther use. It won't hurt us very much either, to give something away oecasionelly that is still as good as new. providing we are sure it is going to cerry comfort to one who is needy. Instead of being too thrifty by sav. Ing up all the old articles and endeavoring to make them over, let us buy, some new thing once in a while. New clothes help to keep us bright and young. Housecleaning time is mont applicable for trylng out this acheme of discarding the old things. A good place for some of them would be the rag-bag.

## HOME CLUB

Trying Out Artistic Skill

HOW, brightly the aun shines and how it reveals the lingering flecks of cuat. Shakespeare said: IIn the upring, a young man's favey LIghtly turns to thoughts of love, Be that as it may, I well know ahways turns to elo a moman's fancy ahways turns to eleaning house.
Draperies of varions kilnds form a problem for the housekeoper, eapect formd tin coivintonciling ourtit a enent help Ope solving this troublasome problem. using obuaia very pretty effects by actimes stmilar deefgns and color runners in cuntalns, cushlons and rondy-hement busy housewne can buy excellent material for stencilled curbins. Natural linen stencllled with a simple dealkn, makes as oundion or rummer which is at once artistlo on servicaable. In pane mome Hotic and members may ha Home Home Club work, I wrll proened te tive -in the formation, meat of which The some infrom expertence Which tave gatned
Matenials for stencining, pafnts, chased for a stemolline, may be purchased for a small sum. The stenell if yous are rather more expenilve. own deelare, however, to make your owa deelzns, you may do so by drawing or unacing the desired pattern on a pleoe of thin cardboard, and cutting


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eifoefling, Wall Board ond floofing Polse

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Aed. In

4t out with so sharp penknife. Thil and are the largest item in nearly that thean be costed with sheliee so every morth No honeybees wer The motual work of stencilitng is ldeathove. in their season grasehopample. The material to be patnted of various forms many flles of spenps is gitretohed over a aheet of blotting that annoy cattle, and a few bugs and
paper, which aboorte sume moleture. The aboorbs superfteoure 'apldars are almo saten a few bugs and securely troked ovencil pattern is then evident that is pair of phoehes it is over the material with squeezed from the paint ahould be to a creamy conaiatency with stened ine. Care must be taken not to fet the paint too thin or it will run. A wiee plan is to try it on an old eloth to The paint ts and consistency,
brush, care belng taken with a rettr colors well into the fabric, It is neces.
colen the sary when ohanging the poeition of the pattern, to remove the stencil carafully from the goods, lest a bit of paint on placing the stencil work. + Before re. placing the stencil, it should be cleaned with turpentine. Brushes, too,
must be carefully must be carefully eleaned when changing colors. When the pattern lowed to stand the work should be al. lowed to stand an hour or so to dry. After thle, lay over it a plece of brown paper and press with a moderntely hot dron.
deaired painta may be boupht in the deaired colors, or mixed by the worker as desired. The same rules for combinations of colors are uned as in ordinary art work. Almost all min. terials lend themeelves to this worts, and one can produce, with small habor, an artietile pattern in aberolutely fast colors
I do not hold an agency for Eellins interested in the mork, but I am quite Home Club members try out the any
Homen this epring, I whish them the very bent of smocees,-"Aunt Harrlet."

## The Phoches

 MONG the caity spring arrivals to their northera homes nono is common- phoebs than the phoebe. out the United States breeds through. Great Plains and winters from the South Atlantic and Gulf Btates mouth ward. Its western relative, the blathphoebe is found from Texas went to the Pacifle coast, which it ooeuples as thr north as Washlngton, replacing mon or eastern form reglon the com Though naturallyunder an overhanging elifig its neet earth, or in the mouth of a rock or reference of the eastern a cave, the the viclnity of farm buildings is for marical that in the more thlokly setseldom seen the country the bird is from seen at any great distance iridge a farmhouse, exeept where a oridge spanning a stream afforts a seoure spot for a nest. Its conflding aisposition renders it a grent favorlte, and consequently it is seldom disturb-/
The phoebe subsists almost exclusively upon inseots, most of which spe caught upon the wing. An examina89 per cent. of the yeared that over siste of insects and spiders, food contruit consiltutes the remainder wild insects belong ehiefly to noxions. The les, and Include many cliek pentlosMay beetles, and wany click beetles, beetles, betonising to weevils Other beetles, betonising to 21 families that cent. They appear to up 10.65 per cent. They appear to be eaten very most are in every month, but the most are taken in spring and Aarly summer. May is the month of maximum consumption, with 20.48 per cent. Beetles altogether amount to 15.3 per cent, whlch places them to ond in rank of the Items of inimal
lasects phoobe's diet hymenopterous case whit moet of the flycatel the They are saten with great regularity
evident that as palr of phoebes must materially reduce the number of inseots near a garden or fleld, \&s the birds often, If not always, ralse two broods in year, and ench brood numbers from four to six young.
There is hardly a more useful speoIss about the farm than the phoebe, and it ehould recelve every encouragement. To furnish nesting boxes is helpful, but not neceseary, as it usual-


Iy prefers a mure upen situation, ilke a ahed or a nook under the eaves, but it should be proteeted from oats and other martuderm.

A Room that is Valued Highly Mr. P. M, McCann, Ozford Co., Ont.
F there was any way of finding out, I would just like to know how Fany readers of this department of Farm and Dairy have a sewing room in their home, You know, a sewing room is quite the common thing $I 1$ city houses nowadays, but. I have seen very few in the country. More often we find the sewing machine in corner of the kitchen. on which is piled the week's mending, probably nome loose sewing that the housewife has on hand, and quite often this mathine is a convenient catchall for many articles and parcels that accumulate during the week.
It seems to me that on the farm above all places, a sewing room is one of the necessities of the home. I have proved this out to my own sat infaction too, as we now have a room in our house specially designated as the sewing room. In it we haved as machine, a conveniently sized table, a comfortable couch, a sized table, and two or three chairs. While case room is intended, chairs. While this fog. it alio makes a good mor sewug. it alio makes a good den or
reading room. The foor is covered with linoleum as it is so much easier to keep clean than a-carpet when oner to keep clean than a-carpet when one
is sewing. on
 and is all the more convenient on old fashioned and we used a room that had been formerly used as a bedsisters who would advise all country disters who are planning to have a sewing room, to have if downstairs fithes posible as elimbing stairs is whier trenome. If it were imposstble to have such a room on the ground foor, however, I certain$y$ would have one upstairs in preference to none at all. One of theiergent advantages that I see in my sewing room is that I can. see in my worls at a moment's notice if my calls me elsewhere and then when have al opportunity to sew again, I can immediately plek up the garment and commance w. rk.

Afier fowi of any lind is eleaned the inslde should be rubbed thorourh. ly with a slece of temon betore the drenaiag is pui la.


## THIS WASHER MUST PAY FOR ITSELF

$I^{N}$
outlining a tor moat hou maln living roon upon the color s the light.
In house No. 6 thouse in a direct tous hring an ab into the liviog ro case we will be
cool, rather somt walls; a fawn Walls; is a quiet, $r$ never obtrude th tion, and mintes t- otter shades.
tais room should this room should
ist or filver grey, Ing the wiole floc sreen, black and of a very quatet waich may easily enting, if it is not ing very sever

reguire much enlive lected for the ove zools pattern it wis any, white roses example. There is matter of tact, thous a wild dream, and
fif witi groy, It pause here to warn undertaking this co bright and cheertul result will be hope In addititon to the er tifrolous materials cubtions in plasin and malogany,red, The furniture for be darik miswion, wh
bought quite reason chlitz covered cumht big easy chatra. orange shade, and ored bowl on the ralety to the roon thg, a bookease, full their gay bladings prosperous dish of b the charm of this eolo

Grouping the Now a word as to of the furaiture $A$ A
no protem of this no problem of this
lion of the varlous pi y declded by the
doors and windows, uoral and windowe
unally room for only a large room can loo

## Color Scheme for Living Room

號
$T^{N}$ outlining a scheme of decoration for most houses it is necessary to
assume a certain exposure for the assume a certain exposure for the maln living room in order to decide
upon the color scheme in relation to upon the
the light.
In house No. 6 this is not necessary, as it would be impossible to face this thouse in a direction which would not still hring an abundance of sunlight into the living room. This beling the case we will be safe in choosing a cool, rather sombre color for the walls; a fawn grey would be good. Grey is a gulet, restful color that will never obtrude fiself upon the atten. tion, and makes a perfect background foo otter shades. The woodwork in this room should be elther black flemish or Eilver grey, with a carpet coverkreen, black and orange are blended. All of which makes the barebones of a very gulet and digniffed room, of a very guret man easily be dull and unlater. exting, if it is not wisely handled. Being very severe and colorless it will


Designs for Fire Places.
require much enllvening with draper- perly grouped. In thifs living room lected a very gay chints should be se- it would be well to place the buffet, if geous pattern in whitch orange, maliog- glad to send anyone their catall be any, white roses with green maing. are splashed over a black ground for are splashed over a black ground, for matter of fact, though it may sound like a rild dream, and it looks very splendid with grey. It may be as well to pause here to wara the reader against pause here to warn che reader against
undertaking thls color scheme unless the is prepared to use some very bright and cheerful draperles, or the result will be hopelessly depressing. In adartion to the curtalas the couch might well be covered with the same trivolous materials and heaped with culthons in plain orange and green and mahogany, red.
The furniture for this room should be dark mission, which can often be bought quite reasonably now, with a chintr covered cushiton or two in the big easy chatrs. A lamp with a bronze colored bowl and a bright orange slade, and an orange colored bowl on the mantel will add galety to the room. If the owners of the house are fond of read. ligg, a bookcase, full of books, with their gay bindings showing, and a prosperous dish of bulbs or a geranfum in full bloom will greatly increase the charm of this color scheme.

## Grouping the Furnitures.

Now a word as to the arrangement
of the furniture of the furniture. A small room offers no problem of this kind, as the postly decided by thans pleces is practically decided by the arrangement of
doors and windows, doors and windows, and there is usually room for only one group, but late indeed it the furniture is not pro-
and ased, agaiant the kitchen wall the tro diniag rable between it and grouped door, with the dining chaira srey ed about it. A centre plece of chintz appliqued flowers cut from the pretty to use on this table wetween meals. The other end of between affords space for two groups the Arst would be made up of a couch in the corner faeing the fireplace, with a comfortably large table beside it sup. porting a reading lamp and a few books. The second group would be composed of the book cases placed between the windows and the stairway, and two or three easy chairs before
the fireplace.

The Correct Pictures.
For a grey room there is nothing more pleasing than good blask and white prints framed with plain black wood trames, Large, beautiful prints, reproductions of famous patntings, can be procured from The Perry Plcture Co, at the small cost of seventyfive cents each. Thetr address is Mal- inne and anyone their catalogue. may be built of of the fireplace, it mortar, or of red brick, with black mortar, or of grey stone; but, howvery slmple and the mantel ahould be very simple and dignified. There is for the in the house of good taste for the mantel all fussed up with tiny cupboards and gimeracks.
As a small house is made to seem larger loy the use of one color for all the rooms on one floor, and an econwall is effected in the buylag of the room finish, the kdichen and washsame in this house should have the woodwork walls, and black or grey curtains and gay flowering plan net the windows, Upatairs plants in throughout should betairs the walls cream mahogany or painted woodwork and mahogany or painted furniture. Furniture painted a very pale dull green rooms be pretty in one of these white and black in another, and white in the third, ayd as the house. wife can do this hurselt, the rooms can be furnished quite liexpensively.
Several makers of flat wall finlihes have had clever artists desiga beautiful rooms for them in colors and in these they show the whole color scheme worked the whole most perfeet taste. if with the. dealer has one of these your local and he should of these portfoliosand to should have one-he will be giad to lot you look through it for home. The outstandinating of your these. The outstanding feature of these rooms is the quiet simplielty of practically every one and the freedom from foolish ornament.

## 2aty

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Metallic Roofing $\mathrm{Co}_{0}$ Limited, Manafaterers. Torence ta farm butiainge

## Mr. Burke Gets a Pound More Butter Per Week <br> $F^{\text {OR some years we have been laying en phasis on the }}$

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great akimming records of the Standard Cream separator at Government Dairy Sehools and on the farm. We have printed many of these records. We intend to keep on printing them, because they prove the superiority of the Standard beyond any question.
In Nova Scotia, for example, the Standard Cream separator has achieved great fame for clate stimming. A letter on our files from H. D. Burke, of Prince Albert,
N. S., dated October 2nd, 1915, N. S., dated October 2nd, 1915 ,
ehows what a Standard has done shows what a Standard has done for him. He says:-
"I am very ploased to say that the Standard cream separator, aize 4, that I have been using since the
Int of Soptember, is giving me per 1st of September, is giving me per fect satisfaction. We have used can truly say that weparators and a week with the Standard than a pound more butter others, We will be pleased to correspond with intending separator buyers."
Another man, this time from Sprucedale, Ontario,
writes: separator. We made pleasel whih the Standard cream year with the separator more butter of four cows last without the separator. The we did in 1912 off six cown wis ones milked in 1912 and 1913. (Signed) Thos, J. Smith."

skimming records of the Standard eream aeparator, and we are sending larger numbers of this Canadian-made machine across the line every year. Last year we shipped 47 per cent, more separators to the United States than the previous year. This is merely mentioned to show you that the Standard cream separstor can successfully compete with foreign machines right in their own field. Besides being the closest of skimmers-the standard cream separator is of the most modern construction, has the moet thorough self-olling system, and it does not drip oil on to the floor or over the macline. It has interchangeable capacity -y years ahead of other separators In this respect. The capacity of a at any time by merety changling
the sive of the bowl. You do not the sive of the bowl. You do not have to buy an entrely now machine if you should happen to increase the size of your herd any time.
Compared with other machines, the Standard given you the utmost dollar for dolinr value. You cannot find a machine constructed of befter materials, or more accurately built, or more up-to-date. You cannot find one that will make more money for youl. In fact, the Standand owes its succesin to its muperiority as a cream getter and morey earnen. If it ha MoRIS oream profitu


## Made in Canada

Hive you read the latent standard cream separator entaloguet the tres.


When You Write---Mention Farm and Dairy

## The Makers' Corner

> Dutter and Cheese Makers are inv
vited to seind contributions to this departionent, to asil quenstions on matters releting to cherse matione on and to suggest subjects for diosuis-
slon.

## Iced Buter Car Service

THE C.P.R announce that commencisg Tuesday, May 9, and until further notice, an leed refrigerator car service will be estab. lished for the carriage of butter only to Toronto and Monireal, also shif. ments for axpert forwardet vin Maipreal or Quebec: the intention being to have the car arrive at Outremont (Montreal) Friday, no that the cent tents may be delivered Friday effernoon or Siturday mornfigi
The service will be four cars week, as follows:
(1) From Windeor, loed car every Ttindity on "Way-Freight Extra." Thls car will leave London by "Way. Freight Fxtra" Wednesday a.m., and Toronto by No. 910 Thursdey night, Shipments from futermediate milis lins stations west of Toronto will be loaded in thls car, shipments from Port Burwell, Ingersoll and 8t. Marya Subdivishess ahould be way-tretghted to Woodstock for tranehtpment to toed car from WIndaor.
(2) From Goderich (service from which commences May 31) feed car every, Wetnesday on "Way-Freight sxira,
Shipments from Llatowel Subdivialon should be way-freighted to LinFood Junction for tranehipment to leed ear from Godertel.
(3) From Owen Sound iced car every Wednisudny on "Way-Freight Extra" for West Toronto, to be tranaferred at Toronto, whenever poesible, to ear from Windnor Shipmente every Tueeday on "Wayprelght ins.
tra" to be consolidated at Owen
gound. ound
8blpments from Mhuskoike Subdivision whould be whyfrelghted to Toronto for traniabipment.
(4) Prom Teeswater, dced car every Wednesday on "Way-Freight Extra" running via Orangeville and Etreetsville Junetion for conmection at Toronto, whenever poasible with car
from windenr. roatos wheneve
Prom Windrar.
Note-if cars from Owon Sound in Toronto in time to all. to arrive fer of butter to ear an th of transfer of butter to car on tin. No. 910
from Toronto, they may be conall from Toronta, they may be consols Inated, and sanit enat from Torento in Srat through frolght train.
ratear will annly withourload raten will apply without any charge
for ielng. for leing. Thla narvise will be oper nted for the treiliderstation of butter ahipmente only. Cnecisi and other dalry produch will not be accepied for shipment on the leed cars.

## Cow Poz

"C
Otis have pox, and would tike to torn of thein. They oome in to fet rid

Holate the dismaned and be carefal not to carry the Infection to others on the hands of milkers or other ways Cot an ointment made of four drams boracie aeld, twenty drops carbolie acld, iwo os, vaseline Dresis three timee dally until cured.

## Victim of the Habit

## "H

Ave a pow that digea not appear to sinually trying to liok the in cos.
 gat chop, about of enginge, ont straw,
 montha in mink end is geving in to so ins
 diting Co., Onh.
We see no ocens
We aee no occasion for alarm. She apparently mas a good appetite and yields a fair quantity of millic. The Hicking of the ether cow tis stmply a

# BUTTE <br> <br> DYER 

 <br> <br> DYER} Fence a
Whit
DYER, ,THE 47E East Wellingt HOMESEEKERS VIA "GREAT EAOH WI Homeseeker Canadian Pacifle, sire, take advant
Lakes. Tripo" The Steamahif which Flomesselk honorved, on paym tlonal to cover me trom Owen Soun Sualt Sta. Marle, Fort WILIam, cont point for Wianipeg point The atons "All Rall" H Eions are in effect Ootober 31st incha
Porticulars from Trekset Agents or triet Puesenger Af

## Cream Warted

We have boen in the Creamery W) Our aervice to farmiere io the vary
best experiencs can produces. Wo supply eans, both smait and larap.and do ill that ayy other
reatabe firm can do-and then
some. some.
Drop a Hine for particufars to the
Toronto Creamery Co. Limited Toronto

## Cure Your Cows of Caked Udders

## Egyptian Liniment

8 APPLICATIONS GUARANTEED
For Sule Eyervehere Douglas \& Co., Mfs. Notsence

## Bairymen Attention CREAM WANTED

Testing sa per cent. from certified dairy herd.
GEO. COLES Ltd.,
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SHIP Your BUTTER \& EGGS to ws We ere not eom- maston marchante pay not prices and remit т쓴 DAVIES company<br>Enablibed isse. TORONTO, ONT.

## DMER at it again Get his special pricen on Fence and Gates Write DYER, "THE FENCE MAN" 47 E East Wellingten St. Toronto, Ont.

"HOMESEEKERS EXCURSIONS" VIA "GREAT LAKES ROUTE," EAGH WEDNESDAY.
Homeseeker Excuralons, Canadian Paelfic, may, if they to desire, take advantage of the "Oreat
The Steamably "Mrittoba" on
which Homesaekerg, " iskels which Homessekers" tickels will be honored, on payment of $\$ 9.00$ addlHonal to cover meals and berth, salls droming seenenn sound each Wedneaday Suring season navigation, calling at saut 8te Marle, Port Arthur, and
Fort William, connecting at the latter point for Wiannpeg and Weatern Canadi. The
The "All Rall" Homeseekers' Excuralons are in effect each Tuopday until Ootpher 31 net inclualve.
Porticulars from Canadian Pacide Triet Phesenger A W. B. Howard, Die trief Pussenger Agsat, Toronta.
 4
hablt, and the only means we kncw of checking it is to the her so that she cannot reach them.
 You state that the water bag was intact after the calf was born and later on state that she expetted the aftercalled the "wating the night. What is called the "water $\mathrm{bag}^{\text {" }}$ io a portion of the afterbirth, which is a complete sac enclosing the foetus. Hence the only poasible way in wnich birth can take place without rupture of the "water bag" is when the afterbirth is expelled with the foetus and thoroughly enclosing it. This occasionnever known in mares, but we have never known it in cows, it certainly Was the water bag that burat and the fluid was what is called "amniotic flutd." The decompased matter that you mention was portions of the exterbirth that were retained. In such cases disinfection is good practioe. It consista , in introdueing a Warm dialnfectant into the womb by an injection pump, a syringe with a
long nozzle, or rubber tube and funlong
nel.

## Holding Up Milk

AN you tell the why cown that are slvhigood care and not roughly handed helfers, at now as they fremen, comy-

 and hold back their milk umil they dry (rrant tows onoh your, and would like to Bheword Co., Que.
Cows cannot voluntarily hold thelr milk. The muscles that control this are not voluntary ones, henoe not under control of the will. The condiKion is due to fear or nervousness. Kind treatment and attrueting the attention of the animal during milking io all that can be done. This can be done as you suggest, vis, by giviag he heifer or cow something to ent du,ing milking. Some clalim that playing a sack of warm zalt over the diys has the deffred effect, Avoid reltement of any kind, spenk gently and handle sently, and the trouble should cease.

## Ringworm

4I HAVE a two-year-old halfer that tere. When rubbed, on they bleed himd Kuar: eorphinen what ithon they what ireatment to usa" $-D_{2} Q_{1} A$., Hastinga Ca, Ont.
The symptoms indicate ringworm, which is very coatagious, Isolate the heifer and be carctul not to carry the infection (which is a vegetable parasite) on hands, clothes or other ways, With sweet oil remove then the scales With sweet oil, remove them, and then dress twice daily, untli cured, with thoture of lodine.

## Milk of an Aborted Cow

Have a two-year-old helfer that
iont her call about one month aso Her uddor whi so mointont that hud to milk her theve born EytuI for
milke to the fios. and would like to
it if it io thor haman would like to kowow We. Que her so dryTM-T, Q. Y., Pontiad

The abortion had no injurious of-

## Feed the Young Foal

 By C. S. Anderaon.ARE you giving that young foal se proper care? To become matured the foal must he well when ished and given every advantave noursible, and given every advantage pos. sible.
At this time of the year mares and colts are allowed to spend at ture a part of the time in the pascare, The foal should be tausht to feed box from which By placing the her grain low whe the the dam eats her grain low, the foal, at about two with the mothe, will begin nibbling waise a mother and will soon acquise a taste for the grain.
field made bigh one corner of the mare ont and allow the to keep the tuder will make it pone colt to pass the foal wake it possible to feed the foal grain with very little diffclosure Ninow the mare in the enand it will soon foal for a few times. Keep it will soon learn to go in itself. ably vats and bran, and perhaps some cracked corn, in the feed box. To indece the dam to loiter about with the colt, have the nen near a shade tree or the salt box.
By wall
become weaning thoroughly the foal will have ins erain and will weastomed to eat ing grain and will wean very easily. result of being in better condition as a Try of this additional feed.
will be surprised to find year and you well-grown colt at weaning time.


## Inseparable!

## Windsor <br> chese THE CAMADIAN SALT CO, LIMITEO

HOMESEEKERS EXCURSIONS TO THE LAND OF WHEAT
Homeseoters excurslons to Westera Canada at low fares via Canadian Preide. each Tuesday, March 7th to Ootober 81st inclusive. Particulars from any Canadlan Paoflic Agent, or W, H. Howard, Distriel Passenger Agant, Toronto.

## They use Maxwell's Ghurns in Denmark-

Fancy $!$ Denmark the great butter-producing country of the world - send all the way to Canada for Maxwe I's Churns1 thits, of the excellence of these wellthoown churnis. Best of all ts proof,

"EAVORITE" CHURN (with Bow Lever) Notion the elfuistable handlo churs low lere. No other churs has this. Handle cas bo mored to centre of either wemien for driving. MAXWEL, Limited


You can buy the "Fiverite" Gis eght tiven Stroopet and bett made chum on the mast Let. Eny to wook, Cires spleadidid reuilta. Ask your

תت. marrs, ominamo


## Market Review and Forecast

TOARONTO, May 8.-The late needing thla apring would ordinarily have a atimulating effect upon grain piftien, but with ocean freights higher than ever and with grain rushing to the aeaboard, Where but fow ships are avallable for ocean tranuport, and with the Untted stme unsettied by war rumons, the mense fleete of ships are beling used for srmy transportation are being used for a vailable for moving grain until whent stooks in the old country are sumfientiy mmediately macessary, it is expected. however, that before the oummexpected, all our surplus wheat will be needed. that more wheat and corn are beling sown than last year. The dateness of the spring has iargely interfered with wheat nowing in Mantoba and eaptern wan and Allbenta, however, seeding is tairly well advanced. Authorities alree that the total acreage under crop this
year in Western Canada will be much yoar in Western Canada will be much
below Jait Year. and that of the grain
sown s ruych sown a much larger proportion will be aats, barley and flax than is the wase in
normal year. normal years.

WHEAT.
Shipments of wheat from Fort Williem
have been hoavy throughout the have been heavy throughout the wrek. one day, over helf of them deraring in
Bufralo. Quotations at Fort willed tor Bufralo. Quotations at Fort William are




## CoAres COARSE GRAINs.

boiding the eraina were Arm, the marke Weoks The folsht advaines reported last








There is MILL FEEDS.
marke for millio noew to report in the as ootule mot out to gramand falling off all lines are none too plentirut, and as demand is fainty gocd, prioes ramain it ieady were made st asis shoptis, $\$ 86$; midding of ins to b30) feed flour bay, 81,60 to $\$ 1.70$ : Mropete meal, 836.60 : witen feed, $\$ 30$, arontheal quoten bran, int, ahoma, \$26: HAY AND STAAW.
at The market, for baled bay romaina flrm at lat weok's advance in prices All All offers are promptly taiton up. Dealera grade, tro to as followa: low srade, hay, beat biled ntraw, 16.60 to 17 srade, 115 to 188 : from 111 to kaj , according to quallity, for Thers POTATOES AND BEANB. potatoes, ouring to the proyalence sood sided
 Boane mare nocording to quality, $q u$, primen, 8f. quoted, hand-pleked, 14.60:

EGOS AND POULTMY,
Apeofat eanimod new.
 peartons, ase to 2hc, Live.
pont fowl, Chich fowl, pound Chickens
Milk-ted 180 to 20
180 SEEDS.
Wholemalers are aelling to the country


## DAIRY PRODUCE.

Pricen in England for cheese and buth ter are both very hish, but the and buth oost of tranapotiation and inaurance uncream off the high prices. some of the
tities of oft Cmall guancrean off the high prices, Small quanthe Enstish market recently sold an high
as 108 s per cwt as 1088 per ewt.
Creamior prints, freah made,
quoted on this marition quoted on this markit. 50 c to 32 c : 3 , aridi bakerit, 25o to 2te. printu, 24 e to 28 c : $19 \mathrm{Cheese}, \mathrm{c}$ hew large, are quoted 1914 e to
 LIVE STOCK.
The feature of the week's Hive ntock market wan that hogm week's. live ntock
$\$ 12$ level. The run of anched the and the qually pood. Odd fine anlarge sold ai hish ths sivi0, but the bulh were food to choloe butchora and ehanged
 were finly Mberal atia the demand for
consumption was larige. A round lot of



Price $\$ 1,420$, F.O.B. Oshawa.

## HOW MANY MILES

## Are There in a Gallon of Gasoline?

When you buy a "McLaughlin" Six Cylinder Valve-in-Head Motor Car you not only get the last word in comfort, style, power and speed, but ve guarantee that you get an automobile which will

It is an admitted fact that the McLaughlin "Valve-in-Head" Motor does give $15 \%$ more power than any other type of gasoline motor which means $15 \%$ more mileage per gallon of gasoline. This is not a theory but a fixed engineering principle resulting from the perHundreds of users of "McLAUGHLIN "Valve-in-Head, 45 Horse-Power cars give evidence daily that they are getting 22 miles or more per gallon of gasomiles per gallon.

## Remember-cost of operation is a part of the cost of your car.

With the price of gasoline going up, the proven economy of the "McLAUGHLIN" Valve-inHead car should make it the preference.
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CANADIAN NORTHERN

## Cannery

The dewand for
the bulk of the of Chelee forought 376 S60 to $575 ;$ spming
tun of calves who poing at 88 to 510 ;
in: bob calves $\$ 2$ Sheep and lambs prisg , embo, each to 110.60 ; heavs
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11150 to 112 : fod i1. Abis oountry po tob: heevy and AN AVONDALE WV BLLAND Cot W Holitein jise Ont purchnaed tro
centity a mon of 0 on cown, Fride Henn cow whe firat in th ind wou heoond at mide 22.63 libion, of The itre of of tere mingy of them corfds in the some-
 foture net ho wrif

## All Aboard for Brockville, May 18 <br> Brockville Breeders 3rd Annual Holstein Sale 60 HEAD OF RICHLY BRED HOLSTEINS

Many with 100 lbs. blood behind them will be sold at A. Latham's Sale Stable, John St. Nearly all stock of milking age are officially tested. This is the district where big records are made. We have the foundation stock and best bred sires of the breed


## Look Up Their Records

 Thr/a, of hin stiters with an average of over Hie, are has it A.R.O. delughtees One with

23,78 iths milik ho her credle in one yenr. | His Crand the hea is A.ROV, in one yenr, |
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| The SARA JEWEL HENGERVELD |

WOODCREST SIR CLYDE IS o

 Sale starts 1 ocelopk, Antomels may be inepeoted the day before the sa le at A Ladhermer a foandation cow of thits breeding. We tive in the home
logues to Cila G.A. GILROY Sor fary Glen Buell, Ont.

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## 20 <br> Head

## PURE HOLSTEINS

AT EMERY, MAY 31, 1916
The entire herd of high testing R.O.M. and R.O.P. Holsteins, the property of $\mathrm{W}_{\mathrm{m}}$. Sharkey, will be sold at public anetion on the above date. Plan to be there. Write a postal to the proprietor for a catalogue and note the breeding of the herd.

Wm. SHARKEY, Prop. R.R. 2 Weston, Ont.<br>J. K. MeKEWEN, Auctioneer

$$
\begin{aligned}
& 6 \text { FOR SALE-HOLSTEIN BULL CALF }
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COBOURG, ONT.
LAKEVIEW STOCK FARM, BRONTE, ONT.



T. A. DAWson, Manager.


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KORNGOLD STOCK AND DAIRY FARM



RIVERSIDE HOLSTEINS For Sole, Choleo Youns Bulla, sired by
 w. RICHARDSON,

> ra when made Alito CALEDNIA, ONT.

Prince Pontiac Waldort, is
cent of heifers
Arts chaidary in the A. 'tape and color. Ho, wo kind, sure and a large per



leavens a purtelle,
aLOOMFIELD, ONT.

## Seventh Annual Show

of the Live Stock Breeders' Association of the District of Beauharnois, Ltd., will beheld at Ormstown, Que., on June 7, 8, 9, 1916 $\$ 8,000.00$ IN PRIZES Open to the Dominion of Canada and Franklin County, N. Y
 N.Y., and intermediate statiman, Ont., Swamton, V.I., Maseena Spring:
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NEIL. SANGSTER,
President
W. G. McGERRIGLE,

Secretary-Treasurer
 MAY 17-THE AVONDALE SACE.
F wiw public miem Canala offec to



 dentally holpeat to for 7 dapalabind and inol a tis such worik ount thank of producers. Syivin and work on that of Mayy Eisers. we to Canninde initend of of buying poubAmouly the initead of vice Veraa. whi be 80 Sphandid offerings of May ontine Artid Couted daughterss of May

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griesit estre, Woodren. buin. From anctred


 glven you the füf or a catalogue I the ringritle on fut offeringhat and be at
10.70 am . Lanoh it noon. Sate starta at at

SALE DATES CLAIMED,
Ammual anle of Halatesios at Avondale
Brock, Browicunte, Bhay 17 .
 Disperation ary.
owned by Wm, Sherkey, Divery, Ont., on
Mag 31 ge. of 3 fin Strader will hold an auption anfe Fuinido Stook Firvi et Brineton, Ont. ive

BROCKVILLE OLUB SALE NOTES.
B Rown mans af itan ont mben
 to wo mo mitnin hil heo daughtors and one is, Theme jnelude five, our prevent herd atre, whicese King Urua,
 Whose peconda evernge over 31 dowethers veldis, hous it Alire. Riny of the Hepeor:


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odid. putine helifer of King Urma thet we are


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Jownel Heogrvend and B, who has

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> The Fillst Farm Book To Secure is WIRREN'S FIRM MAWASEMEMI


When the highoet prleed for manager in Coneda firat read this that he took so trto troused with it Cornell to his tre a all the way to author. Why wis ho so the pressed! Because he realived that
to run a farm acoesfully th a buaniness proposition, and that the a puntined, becaupe tim book ever PARMING AS A BUsiness Is it to work out fine- in farming? Is it to work out fine-apun theorfins or ocomake your farm a buaninesa businest if it is to make it a WARE furm bookse, but be will heed that MENT is the PIRST MANAG DO YOU WANT TO KHOW how to choose a farm, what alse
of a faren fir moot prohtable, how
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are loalng it? Then sond you new subscripera to Tand us
Dulry at 11.00 each and thm
will be It answers fo you free of charge fioms and miny more these ques. CIRCULATION DEPARTMENT Peterbore, $\mathrm{O}_{\mathrm{nt}}$.

Both by Dutchland Colanthe DoKol (10848), Backed by the



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## BRO

This will BLOOD. MaI dam-170.65 II A FEW C One with 21.6 year-old daug ter of Pletje 1 Many others

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 male meonntly hoold. He state that he adverthed in He states
Dalry, and his male of and imptements on 100 acres amock and to $35,945,58$. Did it pay him? He
thinkh mos. it will pay you as well.
Try fth

## Avondale Farm 2nd Annual Sale BROCKVILLE, ONT, WEDNESDAY, MAY 17th, at 10.30 <br> MOD Many of the females bred to her son, "Champion Eid in Canada. THE ONLY CHANCE TO GET DIRECT MAY ECHO SYLVIA

 BLOOD.dam-170.65 lbs.

A FEW OF THE OFFERINGS; 30 daughters of King Pontiac Artis Canada, all with offclal records or with record dams and grand-dams, One with 21.66 lbs . as Jr. two-year-old and with a $22-\mathrm{lb}$. dam. Three full slasters from a $29-\mathrm{lb}$. year-old daughter of a 29.90 four-year-old daughter of Countess Segls, a 31.70 daughter of King Segie sfster has 20.20 at 25 mos . A ine twoer of pietje Korndyke Queen, 26.70 , sold at our last sale for $\$ 670$. She has a full sistek with 23.37 as a two-year-old, and is bred to "Champions"
Many others with records up to 20 lbs , and having dams and grand-dams 6025 and 28 lbs ,


A sample daughter of King Pontlac. Artio Canada Plete. Korndyke
Quebi 2nd. whose record at 26 mas. is 23.17 libs.
We are keeping 35 of K. P. A. Canada's daughtere permanently our herd.
Seven beautiful daughters of Wooderest Sir Clyde, a son of Pletje 23nds Woodcrest Lad and Alma Clyde (33.06), all from tested dams. Two grand two-year-old daughters of Pletje Korndyle Lad-saow cow-one in test atready has 21 lbs as a funior
The fine show cow, Alliee Tensen-show ring winner- 29.12 in 7 and - 117 in 30 days-over 100 lbs. milk 1 day, and safe in calf to "Champion."
Two extra good daughters of King Segis Pontiac Duplicate-twoOne has a 29 lb . A tine 28.60 cow sides.
exceptional blood lines all the great 44 , bull from a daughter of May Echo Sylvia and sired by with over 40 lbs . Average, 42.60 in 7 days, 170.65 in 30 days.


May selina Pontiac Cornucopla at 10 mos. Hia sire, sping Farm
Pontiac Cornucopla, is a son of K . P. Pontlac Liss, 44,18 Ibs.
A fine bill calf from Countess Segis, a $31.76-1 \mathrm{~b}$, deughter of King
agis. -
Several young bulls from high record daughters of Prince Henger 20 ibs .-sired by herd sires.

Remember that King Pontue Artis Canada hds 32 tested daugh tere and we are keeping over 30 to make records. He has two over
23 lbs 9 over 26 lbs ,
-
69.70 in 30 days, with 1005 Sylvia has 41 Ibs . butter in 7 days and in America. "Champlon," her son, is in a class of hisord all by itself ethe only chance to get his stock is his services are an. This will Sale at 10.30 sharp. Lunch on grounds. Come and see our herd.

## Terms cash, or approved 4 months' notes at 3 per cent. per annum. <br> A. C, HARDY, Prop. s.amotoct Brockville, Ontario

## FARMERS' CLUB <br> Correspondences Invited.

## ontario.

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WATERLOO CO., ONT.
 de but heavy uhowery lasit nigsit stop.
so operations ngaln. Moot of ui were

 Willy. Hog she til to sil.t5 no now
of syrup wail hade in this divetrict. The
proctico of clippisis work horaes in spring have beoming more general. The roads have bech in a very boc condition this
g.ins. Clower and foll wheat look well. ANOTHER SPLENDID RECORD.


 mom R.O.P. In any can thus it tobarred
rrealtable. ereditable record for io it youns ant an
intmal.

BROCKVILLE BALE,
$M^{\text {R. }}$ Cinhabris A. Olirof, olen Buell.







 ing into the shother three-yeer-old, trac:
 Count Dor Del Plotortio Peom, enal hevthy a $\$ 0-\mathrm{lb}$. sioter; and another liecfor, antwi

## Year-abd out of and $100-1 \mathrm{~b}$. dam, the hetior bo inculuded con sirtuan and, a dandy, will Poutrac Ario Hands one your oid, ared

$\qquad$ Consignment of Brown Bros. 1 breodiale. They over an animals to this Four intested up by officini receords. thae Artis Canada wili be offered Ponliss, in that have rocords of frome 24 to 26 roomy, square days, They are all large will make protable buying. Pearl Lity Dale and Wyrona Pauline
De Kol, with recorda of 20 and 22 tos,
rempeotively, are two cows of bis rempectively, are two cows of big cas,
paitity worthy of note. Clood breeding
 dewecndiant of the firat $20-1 \mathrm{~b}$. cow in
Canada, and her dam has a record of 25.17 lbi in neven days, She has a sis-
ter pow in tent, running at the rate 28 bow. Wlith a very high at the rate of
Four dawe teat, buil, King Urma, and from temioted stack,
milie another ane young bull, ilred by King Urma very
from Beauty Heart 2nd A, Uhat has recond of 23 lba, is an anlmal ft to head
any herd. He posaesses food subistance, Ane quality, and in at for service, buying young bull that will make good
from a da from a dam sired by Prince A. Cangerveld
 ty and exoellent brepaing lo sird by King
P. A. Canada out of Sara Jewel lenger-

Yeld 2 and $A$, whose recond is given above
AH of theo animals will stand inspection, and should be booked over before buy'ng:

Otfering of W. J. stewart.
 ter reoord, and sioted to reach 20 for. but. tive Duplicate G , dam Natose Dogis Poin. butter in 7 tays tind 2.087 lbs , mille,
Retha Dokol Malda, another beautiful
fow that has a reoord of 23.03 ibo butter. fol lose milk, with 110 ibs. as best days nink, expected to reach 30 making betore the
An
bull exceptionally zood offering of young headens. Three of them are aired by Mr.
A. Hardora bull, Woodereat sir clyde. The dam of one is Natoye DeFol th.
 daughten of the famoun Reangple Korn.
dyke sth His dam, LuAy Korndyke, ti dyke sth, His dam, Ludy Korndyke, In
now under teat, siving T5 lis a day, and

 Pleterte, the oufly $30-$-ib. two-year-old in
the worla. Prompective buyers in note theiee potnt and look carefully over


 sire's enm have each a record of over
100 the mik in in day she is a promith


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Iocal agront before you buy, don't fall to call on the McCormick local agont before you buy, and see the McCormick mowers, in MoCormick haying machines that loaders. There are features in mocormick haying machines that save work and make money loaders are two of them. Don't fail to see them ateel-frame hay Don't take ohancess. with imitation see them.
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[^1]:    By increasing the
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