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May Echo Syivia, One of t'ie Greatest of Her Breed.
This great Canadian cow has now made world's records as a four, six and neven-year-old. Her recent 7 -day record of 854.7 ibs , milk and 41 lbs . of butter makes form for similar work in the future at Avondale Farm, Broekville, Ont.

## Features of Interest on a Waterloo Co. Farm

FEW things give us more pleasure ent paving next the barn. Lastly
than a chat with a live, progres. than a chat with a live, progres- there is a big monolithic conerete
sive farmer. Such a man is Irvin silo. "I was pessing C. Hallman, of Waterloo Con is Irvin silo. "I was pessimistic ahout the C. Hallman, of Waterloo Co., Ont. Al- silo at first," remarked Mr. Hallman,, though our conversation during our "and farmed for ten years without one, visit with Mr. Hallman was limited But pshaw! it would have pald me to power, we did find a look through the buildings minutes to right at the start off. I couldn't be note of a couple of others and make gin to feed all of my stock now with. the Hallman farm.
One plece o! apparatus on which Mr. Hallman places much value, and Which is not generally found on the farm, is a set of live stook scales. These scales with a five-ton capacity are used chiefly for weighing cattle, of which Mr. Hallman fattens a car load or more each year.
"We weigh the cattle that we are feeding every month." sald Mr. Hallman. "It makes the feeding operation more interesting and at the same time more intelligent. It doesn't take us three or four months to find out that we are feeding at a loss when We have scales on hand to show us our mistake. The use of the scales is also a great satisfaction in selling. Many people are always harboring the bellef that they are being held up by the dealers. We can't be cheated, however, when our eyes are open. And the scale doesn't represent much of an investment. I got it second hand for $\mathbf{8 8 0}$.

## Coment Construction Favored.

Another feature of the Hallman farm that is sure to attract the attentlon of the visitor is the large use that has been made of cement in the building operations. As we left the house, we walked to the barns on a cement sidewall, whtch never gets muddy and is valued particularly by Mrs. Hallman. At the end of a drive shed is a ofreular milk and well house, looking the a saried off sflo. In it the milk is cooled by cold running water.
In the basement of the blg barn, 80 feet square, not a blt of woodwork reaches to within several feet of the floor. The partitions between the cattle and the mangers are of the same material as the floor-cement. Even the continuous water trough, Which runs in front of all the cattle, is of relnforced conarete. Outside in
the barnyard there is a strip of cem-

Mr. Irvin Hallman, unlike his brotafr. A. C. Hallman, who lives several miles away at Breslau, is not a datry. man. He is more of a dairyman, however, than he was a few years ago. When we visited him he was milking 12 cows whioh averaged $\$ 125$ a month the year round. The millman comes right to the farm and pays 15 cents a gallon as a flat rate for the year. Mr. Haliman is ready o admit that the dairy pari of his business is profitable, though it con. cributes but a amall part to the inome of the blg 212-acre farm.


A Conerete Milk House.
"Built like a sllo," is the milk house on the farm of Irvin Hallman, Waterloe Co., Ont. Even the roof is of eement Mr. Hallman appears in the illustration. - Photo by an Fifitor of Farm and Dairy.

# At Home With A Veteran Institute Lecturer 

## Ws．C．Shearer of Oxford County Practices As He Preaches <br> \section*{F．E，ELLIS，B，S．A．，Editor}

W．C．shearer has boen telling ontario farmers how to feed cows，raise plgs and krow crops for so many years that he has almost lost track of tho number himsoif． He was one of the ploneer lecturers of the Ontario Farmers＇Insttute，and he is still in the haraess． He iff still one of the most popular men on the Institute list；not an orator or classic speaker， understand，but a practical appearing man with E very practical story．He has a way of talking about crop rotations，balanced rations，and so on and so forth，that gives his hearers the impression that he actually does just those things at home and has done them so successfully that he can alford to talk about it．I often wondered if he did．I had followed one partcularly impressive and forcible Institute speaker right to his own farm，in that same good county of Oxford，and found him a very indifferent farmer as compared with some of hils nelghbors who never made aay pretensions to superiority and never，niver＂talked out in meetn：＂Perhaps this man Shearer comes in the same class， 1 thought．
Then came the first Prize Fanu Competition， conducted by Farm and Dairy．W．C．Shearer was one of the first to enter his 100 acres．That looked as if he at least thought that he had a good form at home．Then came the placing of awarda．Sprace Lodge，as Mr．Shearer calls his place，dida＇t get Arst placing，but the Judges re－ ported that they had found a good farm and a good tarmer．Eariy last spring ：went up to Bright to aee Spruce Lodge for mysalf，and have ${ }^{a}$ chat wilt－its proprietor．As a result of my visit， 1 stand prepared to endorse Mr．Shearer as one of the best farmers of the good old county of Oxtord，and an Inalitute speaker who practices at． he preqchea．

## Diversified Farming Followed．

The subject of this sketch is moat generally known as a dairyman．Really he is a bellever in diversification and praotices as he believes．There is too much of the ahrewd Seotehman in Mr． Shearer to allow htm to pet all his eggs in one baket，even when that hasket represents such a dependable line as dairying．Cows，swine，hens and cash cropa，all contribute to the income，bat the greatest of theee is dairying．It has been the main line from the day that Mr．Shearor assumed the management of the farm over 30 years ago．
The herd originally purchased by Mr．Shearer Was mostly Durham grades，about the only class of catlle that could be gotten in Oxford county st that time．They were given a short trial，bet did not come up to expectations，and Mr．Shearer started out to find another breed that would an－ swer a little better as millking machines．Dairy butter was thoir specialty at that time and the Jensey breed was Anally selected．A journey was made to Brampton and some grade females and a
purebred Jersey bull selectivd．Some of the
original Durhams were retained in the herd，but soon all were of the Jersey color．In fact，some of the half－bred Jergey and Durham cown proved themselves the most proftable producers in the herd．For twelve years Mrs．Sheares made Jer－ sey cream into Jersey butter，but the work prov－ ing to arduous，Mr．Shearer decided to ship the milk to the nearby cheese factory．A sale was


## The Boy With the Hoe

The boy with the hoe Is all freckles and tan， Yet eager and willing To do what he can． At dawn of the day He is up and astir， No play is too tempting His work ts defer； And gaily he whiat＇rs A rolli．king tune And deems time is precious
THI womee the glat noon．
The boy with the hoe
Is the friend of the soil， No comrade can tempt him

His record to spell． A prince though in patches， His scepter the hoe， Each nill he is doing But shortens the row． He laughe though aweary And reckons the fun That he will be sharing When duties are done．

## The boy with the hee

Has a will to endúre， His heart is so kind And his thoughts are all pure， For him the birde warble
And flowere sweetly bleom， While breezes are wafting To him their perfume： The axure of heaven
Bends ofer him above，
The bey wish the hoe
Is the boy that we love．
－Ruth Raymond．
called and the Jerseys Hisposed of at an averag6 price of $\$ 60$ ，a high figure for those daya．
Mr．Shearer then entered on his second lap as a dairyman．He purchased a herd of Holstein cows at $\$ 50$ to $\$ 55$ each，and，of course，a pure－ bred Holstein bull．The last sire that he owned was a son of Sir Admiral Ormsty．From this well bred animal there is now a splendod lot of heifers at Spruce Lodge．
Mr．Shearer has now entered on his third tap as a datryman．In order to give his Sir－Admural Ormsby stoek full swing on the farm，he calied a sale last February and sold off 17 of his eows for $\$ 1,700$ ．At the tims of my visil，therefores， only a few cows were being milked，but in a few months the stables will again be full of miteh cows，and the best bred herd that Mr．ashearer has yet had．Some of the dams of the present milic herd have zone over 70 lbs，of milk a day．The
18 to 20 cows that were milked last year，includ－ 18 to 20 cows that were milked last year，includ－
ing the two－year－olds，averaged $\$ 70$ each in ：nut ing the two－year－olds，averaged $\$ 70$ each in ind cheese factory season．
It is notable that searcely a female has been
purchased for this herd since the original start purchased for this herd since the original atart
was made in Holsteins over 15 years ago．Fiml was made in Holsteins over 15 years ago．Firsi－ class pure－bred sires have been depeuded upon to steadily improve the milk making qualities of the
females．Mr．Shearer regards this as the safe females．Mr．Shearer regards this as the safe and sane path for the man who wants milk aad
does not intend to mak does not intend to mak stock breeding a speci－
alty．In fact，one strain 4 ．Mr．Shearer＇s herd has alty．In fact，one strain $\mathrm{m} . \mathrm{Mr}$ ．Shearer＇s herd has
been in the family for 66 years．These animals been in the family for 66 years．These animals
are descended from his mother＇s marriage cow， 4 common wedding gift among the old Scotch peo－
ple．＂I will keep at least a few of that strain as ple．＂I will keep at least a few of that strain as
long as I Tarm，＂remarked Mr．Sheerer long as I Tarm，＂remarked Mr．Shearer．

## Feeding the Herd．

The feeding methods followed at Spruce Lodge are as safe and sane and capable of as－wide appll－
eation as are the breeding methods．Mr．Shearer is not a heavy feeder，but hethods．Mr．Shearer is not a heavy feeder，but he is a good feeder． The roughage consists of ensilage principally，
with hay at woon．The grain feed is－largely With hay at Loon．The grain feed is largely home－grown chop with a small mixture of mid－ dlings，oll cake and cotton seed．Cotton seed wan fed for the first time two winters ago，because of its exceptionally low price at that time，as com－ pared with other feeding stuffs，and Mr．Shearer found it vary satiafactory for making milk．One
pound of the mixture to every four or five pounds pound of the mixture to every tour or five pounds
of milk produced is the rule．＂We feed mangets， of mill produced is the rule．＂We feed mangets， one pail twice a day，＂Mr．Shearer told me．＂I believe it well to teed some roots even when one
bas ensilage．They seem to keep the cows in ex－ has ensilage They seem to keep the cows in ex－
cellent condition．＂ cellent condition．＂
Sllage is fed for 11 months in the year．＇Mr， Shearer does not nee the logic of working hard
during the summer months in order that during the summer months in order that the cattle riay be liberally fed during the winter， while during those same summer moaths the
cows may be alinost starving on dry paeture juat


Grade Holstein Profit Makers in the istable of w. c. Shearer, Oxford Co., Ont.
over the fence. The summer allo has solved the summer feeding problem. This silo is $12 \times 26$ constructed of staves, and has been up 16 years. When Ite dasefuluess is over, Mr. Bhearer is planning to make even greater provision tor summer feeding by erecting a silo nitue to 10 teet in diameton, and 35 to 40 feet high. The winter silo, Hike most of the sllos erected when the sllo was a naw thing in this country, is built inside the barn, $9 \times 18$ feet on the floor, and 28 feet high. It is double boarded with hemilock and tar paper between. This sillo has been up 23 years. Last year Mr. Shearer had it lathel and plastered taside and now it tooks good for another 23 years.

Summer sito 15 Years.
"I have heis feeding summer altage for 15 years," sald Mr. Shearer. "We fll the smaller sllo in half a day with 60 tons of ensilage. The next day we fill the inaide silo with 115 to 120 tons. We plan to grow enough corn to have 15 or 20 -sheoks left over for fall feeding. We do not let the cows run out until late in the fall, when the freazing of the ground compels.stabling. They are never out after the middle of November, and we belleve that the manure saved will pay for the labor of extra choring.
"It was at one time our practice to pasture the cows too early in the spring." continued Mr. Shearer. "This year they did not go out until the corn was done in the big aflo, about the first of Jume,"

I will mention the Apruce Lodge atables only brietly. On the day of my wisit, with will the cattle ratill in the stable, troth the suable and the cows weid ans dtean as ft Mr. Strearer were endeavoring to proiluce certifled milk, Instend of cheese factory millk. For instarce, the floors were covered with land plaster to kreep down odors and inoldentally Improve the manure. Litter carriers faclltuted the cleaning operition. There were individual water bowls in fronit of eath cow. As a resuilt of these preceutions and hts breeding and feeding methods, Mr. Bhearer has a herd, as i menttoned before, that in 5914, Incluting a considerable uumber of tworyerrolds, averaged 770 in a cheese frictory peason of nine months, in addition "to which we must stdd the moner recetvet for cream during the remaining three months and young btoek that will sell 'for the 'highost prices pafil tor grades.

Spruce Zodge Fnrm ts a square huntred of what Mr. Sheaver trutlifully descrities was "the beat "land out-of-doors," that 'ts, it is a good stroug
(Concluded on page 18.)

# The Steel Ram--Is it Economical ? 

## A Farmer and Breeder Who Built One Last Summer Sayz Thatith Is---By R. D. Colquette

HAS the time arrived whep \&hent ateel and ircueturail iron can suceesilhily compete with timber, lumier and shingles in the construction of barns and istables? That is the guestion that many farmors, who are faced with the problem of butading sew barns in the near tature, are anking themielves. It is the queation that Cims. 王. Moore, of Peterhoro ICo., Ont., was asking himse't at this time last year. He decided in Faver of the iron 7am, with the result that he had one buit: and has now had a wincer's exporience with it.
It was with the ldea of dibeovering Mr. Moore's optnton of lite new barn after susing it for one winter, that I drove out to his farm e few days sgo. As moon as I turned in the gate, I saw evidences that I was on the farm of a progressive and enterpzising tarmer. A place in the lane where a threshing congine had broken through pretty badly late last fill, had alrendy been repatred thle spring. When I drove up to the bam I found that the owner was busily engaged getting up his summer's wrod nupply. Just then he was back in the bush for a load, and auring hir sabsenco I proceeded to investigate the new bam and to contrast it with the "post and girt" structure that we used to build when 4 was apprenticed to a bara farmer in Grey county some years ago. But I had not been investigating very long when Mr. Moore returned, and 1 at once begaat to bombard him wth questions regarding lis vonture.
"Why did I build a steel barn in preference to a timbēr one?" said he. "Well, one reason was that I thought by building a steel barn I could avold some of the flve risk. Taking into account the danger from lightning, from threshing and allo filling and from the possibility of the bam eatching from other burning buildings, or the chimney, 1 thought that the extre immunity given by the tron-ctad harn was worth considering. Then the iprice of timber, lumber, ahingles and all buitding material is now so high that I am convineed ithat the iron burn is quite as eemmomieal to construet üs the oll-fashioned kind. There to almo ia graat economy of labor from the farmer's istandpoint. The company who built this harn supplied everything connected with the superstructure, an well as the labor to put it up. The contract included doors, windows, ventilating ahafte, and ceverything complete except the stables, and all we had to do was to board the men. This is a great economy of time for the busy farmer. Amothor coundderation was the advantage that the steel ham has in that there are no timbers in the way. Come up wtth me inte the hay mow and isee for yourself." A survey of the lbroed, open expense with ne obstructions whetever, to interfere with the work at harvest time or during threshing, was ato convineing that I deternined to get a photograph of the interior and so climbed up to the plate at the nerth-west corner and seeured \& phate, ibut is it not good enough for reproduction.

Material fo $m$ did Barns Utilhed,
(Coming vutsitfe to more carefully observe the general appearance of the barn, I noticed the remains st an seld stoundation and also ia meat plie of
old hare timbers. Upon aalking whet these meant 1 was inforqed that near the site at the ineve barn there were formerly two old ones, ope $30 \times 50$ feet on a foundation, and another $28 \times 80$ feet, which aat on the surface of the ground, the two coming together in the form of an "L." "The old barns were all right in their day," said Mr. Moore. "but we needcd better ones, and we also needed more and better stabling. Besides, the old yard was low, wet and muddy, and the ittibles were dark and unsanitary. The company used a great deat of the material from the old hams in bullding the new one. All the rough lumber for intertor sheeting, and also ath sths and sleepers reguired, came from the old harn. They didn't like the idea of using this old material, preferring to use new stuff, probably because the more they would have to supply, the greater their profit woutd be, and also because new jolst woutd look much neater than this old timber for sleepers. I insisted, however, that they use them up, and they are quite as gerviceable, If not quite so good in appearance, as new planking. The company used up practically all of the material in the old


Steel Clad and Steel Trussed, and Proving Batisfactory,
The barn illustrated above was bullt a year ago by Mr. C. E. Moore, Paterbors
 $\rightarrow$ This up-te-date strueture.
barns that was in good condition, and whatever they left will he used for firewood."

A Barn Without a Rasement.
The new barn, which is $44 \times 70$.feet, has no basement. The ground slopes about three feet in the width of the building, and to get a level foundation for the superstructure, a cement wall was built that is about a foot above the ground at the high corner and wbout four teet high at the Iowest corner. One unique feature about the statiting is that each diviston is ion a a tevel of tis own. For instaniee, the flloor of the ibox istall at the corner where the ground level is the lowest is about three sand a hatf feet below the top of the wall. "The flloor of the other Inrge ibox stall is about a foot and a hatt higher than this, while the floer of the matn stable is alout on a level with the threshing and granary flloor. No cexcavatting was done in preparing the foundation, but instead the floors were llevelled up by iputing in stone. The stabling thas not been completed as get. "Laft year was a very baoliward one tor bufldtug," explamet Mr: Moore, "aut operations were ddayed constherably, so that I atd not get the stabling fliished last 'fall. However, it took adrantage of 'the-slack winter meason to put these stomes fm , wifh the renutt that reverything is now levelled - up ready "for the cenvent:"
Sinee there if no 'basoment, the general tevel of the the ceiling of the stables its whout reight
(Concluted on page 15:)


These old buildings, with good repairs and a liberal use of white paint with green frimmings, have been made attractive and distinctive.

## Two Gallons of Paint

## And What Two Women Did for a Man and a Farm By A.E. HASWELL in Kimbalf: Daig Fume

HIGH in the ragged old cottonwood by the gate, a locust shrilled his endless trenzy of sound. The gate Itself swayed on its single hinge with a maddening irregularity of rusty complaint, The windmill, unolled for months, creaked dolefully over the dilapidated well-bouse.
Along the weedy fences the grase-hoppers, seemingiy by millions, trilled that peculiar undertone which cne hears only in the late summer. Over dusty roads the mhimmering heat waves fought cevery inatane with a dawdligg, light, hot wind.
On the stoop of a fine old house, gone neglected, sat two women, the one old the other young The older woman rocked back and forth, back and forth, and the kickory bark chair protested at every move for the lady was more molidly conatructed than the chair.
"Mother!" shrieked the younger woman, "stop it! I shall go crasy if 3 ou den't stop at once!" The older womaa stopped-at onco-and with a very satural surprise. She stralyhtened up, pulled the old apres down to the bridge of her nose tnd with considerable exasperation glared through the lenses to see whar on earth so sud. denly ailed her faughterfn-law.
"Mother, I'r: so:ry, but the locust, the windmill, the grasshoppers, and even the gate are all so discouraging, and the one sound more of that squeaky old rocker was more than I could stand. It seems to me that everything on the place goes wrong nowadays with me"
Rather with an air of relief the older woman, reliet of the late Joel Greenway, raplled, "Well daughter, I did think you had gone crazy-you poor thing, it must be the hest"-and resumed her rocking.
The time was eome two years ago. The house was that belonging to young Sam Greenway, farming his father's neglected acres in his father's way. Farming under protest because he hadn't thought it ou: properly; farming a losing game because of a real disconragement that oven his young wife could hardly understand. Sam wakn't lany. He wesn't without good schootlng, but things sure were going wrong.
"Now, mother, you must stop and listen," resumed young Sam's wife, who was Janet Semple, born with all the Semple love of order and neatness. "What this farm needs is paint!"
Old Mrs, Greenway added look to her stop and listen, and the look sald plain as words, "She has

## gone crazy."

"Ne, I've not," satd Janet in direct answer to the look, "not one bit. But the whole farm looks dis couraging from house to hen coop. No wonder Sam's golng back every month. What he needs is a coat of paint."
Sbe broke merrily into laughter at the old woman's look of utter lack of understanding. And with the laugh every sound on the place seemed to change from its discouragement to a cheeriness, like the Cricket on the Hearth.
"Janet Semple, if you haven't lost your wits, I have," and the rocker, too, ceased its squeaking as again the old lady stiffened fa her chair to lend dignity to the giare from her keen, oid, blue eyes. "Now, mother, don't get excited. I mean just this: You know how Sam feels in ehurch with that old suit of his-well, that's just how this farm feels. And overy one of us feels the ame way becanse the farm does. You and I are golng to bry this farm a new suit of clothes."

Abby Greenway wasn't slow if she was going on 62 and, then, her mother's second cousin was a Semple. But she had lapsed into the slack ways of Joel Greenway, and for years had scarcely
uttered a protest-Semple though she might be. But she had the idea-got it at once, and visions of a monster housecleaning brightened the tired old eyes behind the specs.
"Sam'll never spend the money," she sald, and the light in the eyes dimmed. "Yes be will, mother. We'll make him-and he won't know it either."
This time it was old Mrs. Greenway's laugh that fairly startled the creaking windmill. There was a time when Abby Greenway was the merriest girl of them all and years of discouragement and widowhood hadn't made her entirely forget how to laugh.
"We'll put one over on Sammy, daughter."
"Why, mother! where did you get that awful slang? I didn't thinik it of you." And another breese of langhter-this time a duet-floated out over the dusty front yard.
Long they sat planning how with their own very limited resources they might do the great thing afedfal.
But all we are permitted to hear is this remark of Janet's: "Anyhow those chickens are mine and 1 suppose the chicken house goes with them," and this of Mrs. Greenway, senior, "Good land, it's most supper timen and not a thing started."
If Sam Greenway hat an eapectally good supper that night it may or may not have had any con(Continued on page 8.)


A Quebec farm home that owes much to a couple of coate of white paint.

## Why Not 'a Windbreak Around Farm Buildings?

## Some Suggestions as to Varieties for Planting and Their Arrangement

YEars ago 1 visited an old friend of mine. By "old," 1 mean that our friendkhip was of long standing. He was young and progressive. At the time of my visit there was a windoreak three rows deep on the north and. weat side of the farm bulldings, which had made a considerable growth, but had not then attained its maximum usefulness. I now have a letter from Jack, writ. ten Just afier ne of the revervest storms of the ${ }^{\text {stormy month of March. }}$ Here la a paragraph from his letter:
Well, old top, do you remember that bunch of Norway spruce that spread their protecting wings around a couple of sides of our buildings? You may remember that you thought it took up too much good ground. If 1 recollect your remarks aright, you approved of dad's windbreak icea, but thought one row of trees would have been enough Well, you've got another guess coming, ole boy. That plantation has now reached masturity. It is a rense, almost impenctrable mass of perennially green foliage. Last might we had the areatest storst this winter. The roads are all blocked, the phone lines down, and it is atill storming like a good one. I visited the Kellys next toor this moraing: had to go on znowahoes, and had a hard time to got there at that. But say, oid man, it's a conifort to live maside our vindbrcak. Why. we hardly knew there was a storm blowing. We were as warm and snuk as bugs in a rug. We go around doing chores between bouse, stable, hen houses and piggery, without any particulac discurifort. Waste of land! Why, we have iad dividends on the land occupied by that windbreak several times over in this month alon2."
That's a pretty emphatic paragro 2 h , and Jack made his point clear enough. I myself have lived in the country the most of my natural life, and I know that any rural district is a cold bleak place in the vrinter time. We can't control the bleakness of country roeds, but we can make provisfon for comfort around cur own buildings, and many "Jacks" all over the country have done so. A good windbreal not only mrans more comfort outside at chore time, but warmer buildings, less fuel consumed, proper protection for the stock when exercising, and very, very decidedly more beautiful farm homes. I made a mistake just above. It was Jaci's father that planted the windbreak, and Jack is reaping the benefit. I sometimes feel that the men of the pasaing generation were greater tree planters than we are.

## Tree Planting on the Prairies.

The need of windbreaks on the treeless prairies fs univerally recognized, and I believe that in time, surrounding belts and strips across the farm from north to south will come to be largely used in Southern Alberta and Western Saskatchewan. Besides affording protection from soil drift, and beautifying the homes, they will help to retain the snow on the ground in winter and also to preveat the excessive drain on the moisture in summer, resulting from the blowing of the hot Chinook winds. Such plantations will not take up an enormous amount of land. A strip four rods wide around all sides of a quarter section, takes up only 16 acres, and three strips, of equal width, one on the extreme west side, and others at
equal distances apart, will amount to only 42 acres. Not a great percentage to be under trees and only about enough to supply thinninzs sufficeent to provide for the needs of the farm for Its firewood, posts and poles. And what a difference it would make in those prairie homes. I am never able to think of a ecuntry house as a home until it has trees around
While I am talsing about tree planting on the prairies, 1 might pass on some nuggestions which I have gotten from the Forestry Bratich of the Deparifient of the Interior. The experts in connection with this Branch advise strongiy against trying to grow single trees or single rows in the most of the prainie sections. Rainfall is deflelent as com-
pared with Ontario and the Fast, and the young pared with Ontario and the East, and the young trees have to be given cultivation to conserve moisture. Farmers cannot afford to spend so much time on work so unproductive, and belts of 20 yards and upwards are far easier to maintain, afford a much better shelter, and in course of time the thinnings will furnish a better quality of firewood. For the finst three or four years these belts may coat a little more for cultivation because of their larger area, but the ultimate
results will be much better than those obtained from narrower stripa.

## Varieties for Eastern Windbreaks.

Here in the East trees will grow in spite of our efforts to klll them, and the growing of a windbreak is an easy ruatter. It is simply a case of planting the trees carefully to give them a start, and then keeping the stock away. The first windbreak that I belped to plant fhen I was a very small boy consisted of just one row of trees, and while to-day it does not make the most efficient windbreak, it is still a wonderful protection. We went to the bush and dug out small spruce trees and set them to the west of the bulldings. We took spruce becaiaise evergreen trees are always to be preferred to declduous trees in making a windbreak. Deciduous trees are perhaps more beautiful in summer, but for all the year service the evergreen is in a class by itself. Among the evergreens that I have seen in use as windbreaks are the Norway spruce, white spruce, red spruce, white cedar and white Scotch and Jack pine. These trees are recommended by Mr. R. H. Campbell, of the Forestry Branch, and he discusses their merits in a ifcent letter as follows:
"The Norway spruce, a native of Europe, is probably one of tho best trees for windbreak pur poses. It is hardy, adapts itself readily to all conditions, rapid in growth, and has many numerous, pendulous branchlets and dense follage which give protection summer and winter. It can be sheared and srown as a foliage if desired. The white and red spruces are also good trees for shelter belts, but slower in growth and not so graceful in form.
"The white pine is a more rapid grower than the other pines, avd, on account of its denser foliage, a better tree for the shelter belt than the Scotch or Jack pines. The two latter trees, Liowever, are better suited to conrme, dry sandy
(Concluded on page 14.)

## A New Home From the Old One <br> A Little Money and Much logenuity Made the Transformation-Ey "Jean

Tfarm years ago we moved on to the old farm and John's parents moved into the litthe home with its half-acre of garden and lawn a mile or so nearer the village; an ideal place for the old veople to retire to. And we were up against a problem: Should we go into debt to build a new home or repait the old one? The old home was good in its way. It had a commodious cellar underneath and the foundation walls were heavy and substantial. John said that the frame was built to last forever, of big square timbers securely morticed and braced. I was prepared to admit that, as in the case of many old homes, the general lines of the house were good. Better, in fact, than the lines of most of the new houses that are being built in the country. It wes low and brosd in the ground
and just seemed to fit into its surroundings.

And there the rood points of the old home ended. It had been built some 60 years before, and had never received so much as a coat of paint. The weather boarding hat dried out and cracked, and in many places was falling off. On the roof there were at least three layers of smingling, and it leaked badly. The verandah had rotted out at the foundations, and there was a siek looking sag to its root. In-
side, the, old house was hapeside, the old house was hope-
less, or seemingly so, I am sure that no woman had a say in its layout. Small windows and few of them made the inside dark and gloomy. For heating there were no less than four coal stoves. A Hard Looking Prospect.
The layout was the worst of the old house. will not tell all about its drawbacks, but just mention one point. To get from the kitchen to the pump, one had a choice of golng out the kitchen door and walking all around the house to the pump, or of carrying the water through the front door, and the front living rooms on the more direct route to the pump. The plas. ter was coming down all over, due to the leaks in the roof, and there was not even a sink, in the kitchen. To add to all Its other diaabilities, the house was, to quote John, "as cold as a barn." To make such a bouse into the hoine that John and I had always dreamed of, keemed impossible, At one time we had drave sketches of our ldeal home, and we now looked over them longingly. Surely we could nevor make the old home look like our ideal. We would have to build anew. Then the question of cost always came to the fore. The question of where we would live while bullatig a new home on the same site as the old one, was also a factor in deciding us in favor of reno-
vating the old bouse. Now we


Floor Plan.
A conventent amall home on one floor.
are glad of gue deoinion. While we "camped" tnside the house, Jehn lackled the outside with sigor: A good carpenter was hired by the day, and John worked with him miost of the time. Finst, the old sbingles were scaied off tha roof, incidentelly giving us an excelleat supply of kinding for the rest of our natural life, the sheeting underneath was natted down solidly where the originat natturg had rusted sway, and the roof covered with building paper, lapped half. Then came British Columbla cedar shingles, which had been dipped to statn them a nice moss green.
The sides had been arisinntly covered with weather boarding half an fach thick, each board bapping one inch over the board beneath it. This old boarding was all sealed of, and then nalled
on again flat. Over thls came building papir again lapped half, and on top of this new milled हlaling, drep-9f out of timber cut in our own woods. Great care was taken to cariy the buildling paper around every corner without a brealk, light in to every window and door, and to connect it in properly at the eaves, so that no wind conld ger in rnywhere. Before the siding was put on, big new windows, three nections wide, were put on the front and west siden of the hrouse, and in the other rooms downstaire, the windows that had been removed from the front house were set up alongside the windowa that were aiready there, doubling the lighting spece. A big wide colonial verandah made on plaia, simple tives, and wit out a single hit of expensive mill work in it, was
added to the front of the house, and a amall porch at the back. The foundations and floorl of both of these verandans are of cement; this for economy wher than zppearance. I mentloned that the roof was a moss green. The siding was painted white with the window and door trim, base board and eaves a rich green. The whole effect is tieh and pleasing.

## The Interior Renovated.

1 aid the planning for the inside of the home and onve the rough earpentertug wis finlahed, most of the work. In the. frant of the old house a small perlor and a small sitting room were combined into one large pleasant liviag room, running right across the front of the houso (Concluded on pago 12.)

## How <br> We Have Used Cement In Our Farm Improvements

## Its Permanency Makes It Economical For All Building Operations -

Ware living in what can truly be ealled a cement age, ulthough concrete work on the ferm is practically in' ite infunog. Cement has so many usen awalting it that one searcely knows where to start first.
One important use is ta the conatruction of basement barns. We have on our farm both the solid concrete walls and those built of the hellow concrete brick, made with the conerete brick moulds that are advertised in the different agricultural papera: They both have their advantages. We give our experience for the benelt of Farm and Dairy readers who can then Judge for tammelvan, The solid conerrte makes by fur the atronger wall. lte construction metuiron nothtus but shovels, a level, plenty ef bacik muanle and a little common sense. It is not, however, ar dry a wall as the hollow brick. The brick aro weaker than the solld wall becavee of having to be mitxed dry so that they will stand fiene when taten from the mould. They make a riee looking wall when put up with red mortar and for a horee barn we would ndvise using them in preference to the rolld walt. As to material required, we de not think there is much difference, With the brick, the coarse gravel has to be sffted out and tha part that is left made richer with cement. When the brickis are made, however, they are more cantly pht up than the solid wall, as they do mo: require the plank and scantliar forms. A poipt we might mention in constructing a wall is to place a numlet of rings bere and there, both inside and outsile the barn. They tre very handy for tying, because, where everytbing is concrete, the josts are scarce.
The Concrete silo. Another very important wee of cement is the luifding of stlas. We have had cement silos or the past 17 years, and can thorousthly reeomthend them if propery built We puilt the firat salo in this part of the country. The firat was square wis beyel eor ners, but the last one, waich is the best. Is round. It is much easier te bullo, and takey a lot less material than to the equare ones. it woule not pay anyone to buy the eteel rings juat to build one silo. In this locality, for Instance, there are men who have thens ind sake a bual-


In all Our Building Operations Cement has Played a Part.
sive it a good foundation. It should be down to good, solid ground, and then have a foundation two feet thick. It shouid also be zehtoreed with iron rods. We place a sod in the centre of the wall it the top and bottom of every door, A aflo built in this way makes cement a very useful material on the farm for the presercution of the eota crop.

## The Conorete Barnyard.

We apprechute very tuuch the use of eoment in the maling of a concrete barnyard. The land around our huildings is level, hesion our stock was always in the mud for a while durlag the spring. Formerly, when we cleanel out the yard, we never knew when we reached bottom, but since we put in the concrete it is very different, The stock always have a solid footigg, and when we now cleas ous the yard it is a kreat satisfaetion to have : good solid bottom.

We built the yard in nections five feet square, so that it it heaves with the front, it will not crack, We mixed the concrete seven parts aravel to one part cement, and gave it a rough finlah, ao that the stock does not stip on it. We think the manure we save will zoon pay for the autlay. We built our yand with a slope towarids one cornex, so in the spring, when the auow ls melting, we keep the outrides of the yard clean and the water rums off. Any conerete fiser neelis a Joundation around the outside deep enemsh ito, movart wint Jrom yeitlias a entart umder it.

## Conerete Walke.

We have concrete wailen to all the bulldfagn, se wo can go from the house to any of them wathout geting in the mud. no matter how tad The weather may be. This is a ennventence anyone can have, as it toem't cort much. The walks are made in seetions to prevent the froat from oracking them,
The main thing in constructing eonerete work of any klad is to mix it theroughly. After it is in Hace, the more it in tampeat the better will loo the job. Where a drivewhy oroasus a wal: the walk is bevniled down in the ground on the sides to provent tho entees chitpins cff . We now have conerese wnlks and floots under tevesy outbulldin? (Conctuded on page 16.)

## Two Gallons of Paint



## Get All Your Hay Profit

rakes, side delivery rake prepare for haying. Are your mowers, ready to grt in the whole crop and make money for you in the hay fields? If not, what does your equipment need to make it ready-repairs or new machtues?
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## 

## It's service, not surface, that counts in Wire Fencing

Fenoes made of aof wire may look all right, but they
are liable to act all wrong when it comes to teepare liable to act all wrong when it comes to keeping atrong, heaithy, active live etock within bounds.

THERE is, however, one fense that you can count on for antisfactory
service year in and year out, and that is "ldeel " service year in and year out, and that is "Ideal" " Made of large
gauge No .9 hard steel wire, heavily galvanized, wth the verticals and horizone No. 9 hard steel wire, heavily galvanized, with the verticals and horizontals clamped together with a patent lock that cannot slip.
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## Ideal Fence

The quality of the wire from top to bottom in "Ideal" Fence is all the same gauge, hard drawn steel wire, tough, live, springy, heavy wire that will be standing up doing splendid service years from now. This is a point you have to watch mighty carefully. Some fences have 9 -gange horizontals, but softer, weaker wire for the stays and locka Naturally this takes something off the price, and it takes something off the atrength and durability too, far more than the difference in price. You are going to fence for a lifetime, then fence with "Ideal" and get a lifetime's service.

## We make a fence for every purpose. Write for a copy of our catalogue which describes them all

The MoGregor-Banwell Fence Co., Limited, Wallerville, Ontario.

## (Continued from page 5.)

nectlon with his wie's requesi that Belkap's maples, the brushes were The thke her into town next day. But tafd aside and two happy whimen with at any rate it was so arranged, and aching arms and shining eyea, fnapect she insisted that Abby Greenway, who ed ther afternoon's work and called used to laugh and hadn't forgocten it good.
Low, go also. "Sammy." who was If Sam Greenway's supper that
dibout to have one "put over on him." hight seemed to him especially about to have one "put over on him." night seemed to him especially
assented and the three left in assented and the three left in the sketchy and somewhat reminiscent of cuol of the moraing for a brief trip
to town.
o town.
Sam ha
sam had nothing special to attend to and it was very easy for him to
drift into conversation with the group drift into conversation with the group
in front of the store and easier stil in front of the store and easler still steal away without his notice.
A couple of good sized baskets of and the last we saw of them was when they went through a store front whish carried the words, "Drugs, Pain ts and The"
The baskets and the two conspirators came out of the door. The eggs do not again appear in this story. In the barkets reposed two gallon pails of mixed paint and a small package of brushes pleked out after anxion debate with the clerk in the store. The game was on-soon it would be 'put over on Sammy," as his mother had said with a slang so worthy of er had said with a slang

Sam was detached from his cronies at the store and was so busily engaged in convarsation that he nearly reached home before he thought of asking what they had bought in town.
"Oh, some yards of drees goods," his mother sald and the son entirely missed the twinkle that shot by him Into the eye of his wife.
"Chicken yards of dress goods," she
said softly to herself and the twinlcle flitted bsek from browis eyes to blue agaln. But Bam never heard. An
he found that he had had $a$ bett he found that he had had a bett
time that morning than for a lcat time th
whifte.
"Seems to me a trip to town ses you and Mother-a lot of sald.
And the woman who
gotten how to laugh, replied, fismmy you don't know how much good it has done"-and proved it by a real laugh in which Janet heartlly and Sammy eventually Jofned, thoush Sam not In the least knew what the joke was. It Was enough for him that his dear women folke were happy
Jist as Sam was getting up from the dinner table the two shorts and two longs of the telephone bell called him to answer and he found that his cows had broken through the fence more haste than patience, was calling for help.
As Sam grabbed his hat his mothor fairly shouted to him, "Sam Greenway, you take a hammer and staples and wire with you when you go to get those cows, and you stay there tIII you get that fence fixed up. That's the second time in a week."
And Sammy ansfered meekly as he used to do when in boy: "Yes'm" and disappeared on the rum.
"Daughter, I call that presence of mind," sald Mrs, Greenway. "He won't be back tht dirt, Come on!"

And Janet "came on" and came with brush and paint anc ong bib apron and the two ladies disappeared, they, too, almost on the run, in the direo tion of the chleken yard.
The chleken house was old but Its framing and covering has been honestly done and as Abby sald: "Thank goodness, It's all here!" And the two set to work, firat stirring the pall of white paint till thorongtyly rietht, Then with vigorous strokes and a deal of langhing they proceeded to cover the hen house with a perfectly new and lovely coat of white paint. And they painted and painted till as the diuner the was too tired to complain
tor he had fixed that fence, and very soon he fixed that fence, and very 1 guess l'il fly up," and flew.

Many a man has wzked to
hat wes to bring him an aston dity folt. It was not otherwlse the ling day with Sam Grsenway. But he way with Sam Greenway. But he waked to find the place beside bim
vacant and to hear a blithe vqice slig. vacant and to hear a blithe vqice alng-
lag. "I've reached the land in corn lag. "I've reached the land nt corn
and wine, with all its riches freely and wi
mine."
"What's got tato those two women? and say, I feel bus myself than I'v felt for years, Bo Sam talked out with himself a IIttle, wee thought that had just reached him, and made haste with this elothes, dor that reminded him of that sketehy supper of the night before, and centain vag. rant, fragrant odors were floating uprant, fragrant odors were floating up-
stairs to announce a real breakfast staing
"Sam, you want to hurry with those chores, I'll have somathing good for your breakfast this morning.: Thus spoke his wife so kindly timo you couldn't blame Sam for catching her in his strong young arms and taking the klas whioh she badn't for gotiten how to give.
Poor Sam! He no
Poor Sam! He no nooner set toat out doors than there caught hils eye, and held it too, a perfect jewel of a hen house, brave in its new sult of clothes, gistening in the olear morning light like Ellen's Iale in a waste of water, But white as snow, new and smart as paint could make it, it showed up the ruggetness, the unkemptness of the whole farm-very much as 'twas Intended to do. Ergor ly, through the kitclinis window, two ly, through the kitchin window, two
pair of eyes-orown and blue-looked on the minucle in the morning light and wondered what Sam would be thinking and what dolng.
Hut. Sam kept steadily on to the barn. He missed not a post of the broken old fence, not a plece of machinery out in the weather lifee a Junk yard, not a yard of the bare, ehabby, umpainted barn; not one of the whole scrubby lot of four or five cows he was on the way to millo.
The chicken house entered deep his soul and he knew that what his whole farmilag needed wha a coat of paint.

The dry pastures and the scrubby four or flve ylelded the unual stingy amount of milk. Not even the few minutes in Bellnap's corn had helped any, and Slam rose from the last oow a mighty discouraged young farmer.

But again the chloken house, the new painted chicken house, flled hla eye and with the sight came deter mination to start a "dress up" campalgn of hls own.
"I don't know how I will do (t, but will if I have to sell my shirt for it."
Not one word did he say to the women but washed and dressed guickly for town and then sat down to brealrfast a blt late but keenly hunm
His wife couldn't stand It any longer: "gam' If you dia't tell me what you think of it I'll bosist."
"And I'II shake you," eried his mother.

A slow grin spread over Sam's face as when you throw a stone into a liftle duek pond
"You two put one over on me that time-why, what's the mattar? for both women first gasped and then (Continued on page 16.)

## Lighining Protection Through Metal Roofs

## Such Roofs, Properly Grounded, Insure Safety and Reduce Insurance

## Rates-By W. E. Clark

Tmay be eontrolled to a large ex. to foston the conductor pipe. It is well tent by excrcising care, but in uppe- end the conductor pipe to the regard to the loss from lightning even "pperind" of the galvanized iron the wiont careful family Is as liable to tightly together. suffer from the destructive effecis as it is together.
the most careless one, providing their pipe is essential that the conducto buildingi are not protected agalnst allowed properly maintained and not lisbtning

In connldering this subject the farmof will wetally have in mind Heghtnin rods as a protection, and while light aina rodn have a value. metal roofing, properly appiled, aives better protec fon from Hmtnitne, berfdes added proeetiot agaiast ire, sparks from the (agine, etc., which might bun a wood in roat with a lightning rod on.
Sufhtnink not only destroys proper ty, but deatroys Iffe; E.d anyone having experienced, in the country, in heavy thundertotorm with its accompheavy thunderthorm with its accomp-
amylit Alshethres of Hghtnfig, would anvint
cortaineharges not regret a silight additfonal expendilure for the aske of immunity expenditure for the sake of fmmunity
from the effecta of Hehtntng. Thi from the effecta of lightatng. Tha foerthe of cerror usually engendered
fin the mindts of the family, consclous of the minds of thelplers and unprotected conditlow. is more conducive to a hish
in dition, is more conducive to a himh
state of nervousness, with its hocate of nervousness, with its ac-
companying physical break-down, than atm. It atny other cause. As the spring comes on, this subject recurs more frequently, and in the hot summer day, with their heavy thunderstorms, Inthtning becomes a very constant coturce of dread and trouble.

What Lightning Is.
Very eareful observation has finally silablished a falrly food underatanditir an to the eperattons of electrieity ind the methots of minimizing the cffects of same: lightning is a dit. chanem of a lange amount of electricits in a very short space of time, and whatever medlum conducte it from the clouds to the earth suffers in the tranmbision, unlens the medum ta flist class conductor of electricity, and of mumficlent size to take care of the of lumicient size to take care of the full volume of the discharge. Treen, polen and buitdings, on account of their heisht, generally act as com ductorn. In the case of buldines, an electrical dtacharge is generally ac companled by fire, and a severe fire (i) the midnt of a thunderstorm bringg to lifht about the most helpless con dition of hementity,
Below tha a quotation fromi an arttels b) Prof. E. 8. Keene, North Dakota Arricultural College
"Tuildings with metal roofs that are proparly connected with the earth are far better protectors from lightning than could be glven by rods Bufldinm that are completely covered with shieet metal and well connected with the earth are practically Hghtning proof. Covered in thls manner, bulld mfin have been known to be repented ly Etruck by lishtning. without the leant damare. The ground conneclianis may be made of metallic rods hat extend well fitto the earth, and ire mecurely fastenpd to the metallic roofing, on the buildings, It must be rmambered that the ground connecton is a positive necessity, and too much care cannot be exerofsed in ftes constructlon. The pround connection inuat be of considerable area, and extend well inte the molnt earth; in plece of galvanised Iron plpe driven into the round 7 or 8 feat makes a tood round': large bulldings shoutd have wo or more such 'grounds.'"

Connecting With The Earth.
In view of the above, the use of metal shifgtes or metal roofing, when put tortether, make prastically a solid heet of metal over the roof. In conneecion with theae, tae metat eave Irountia ind conductor plpes or down pouts, and drive the gahcanfzed fron pipe into the ground nuar the termina

Grow

## MACHINERY

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phase of potato growing.
OK Icanatian POTATO MACHINERY

## c.. LImintesi ${ }^{493}$ stone Rd.

CANADA
fences, and building new wire ones wost cement posts, incluaing ancher posts, which I m myself. I have also graded up .... ong lanes, which

YES, The Steel Truss Barn is Economical, C. E. Moore has found is so, and hundreds of others have found it so. Look at these fine barns-they are giving the best possible servive to Canadian farmers. Send the Coupon below and let us tell you more about Steel Barns.




John Slee, of Doon, loot his berns by flre. Two Wruse harn ho waa hiuling hay into hy new steel Trus Harn. The buiding is 56 ft . $x 70 \mathrm{ft}$. And has
a double drive foor Min siee may he can turn the throuber arvo hoor, and slee eseyn he can turn the ing and can go on whith his worls rain or shine.
for 191 AmM Improvement is, to me, the most interesting thing in life. it brings contentment and satisfarmer of a lasting character and satisfaction arming for myself ten years ago, brovemear after year, been making im. ovements, Up to thls year is ims
A. J. Olde, of Union, has no fent of atorma, He lives quite a distance from has Steel Trusis Barn,
and whille the storms rage outside he ls content
to know that his cattle from all the elements.


Done dd Mrintyre, of Port Stanley, has a beautiful farm and he wants the finest and mont up-todate buildings, He says no one can beat him on can buy. In ita setting of everareens, Mr. Me-
intyre surely has ai bullding to be proud of.

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## Homeseekers

 Excursions lay, March to Oetober "A11RallEvery Wednesday During Season Navidation "Great Lakes Route" Somewhiere out on the phairiee whers last year Cansdaly Civentent
 will take you there, give you all the information abloet the buet
places, and help you to guciess.

Particuiare from aay Oanadian Paelie Theket Agont, or write W. R Howarl, Detritet Paseonget
Agent, Torosto.
are greatly improved. Thlo year, I am planining to plant mone thade traes. and to improve the conditions of grounde surrounding bulldings; but tuy greatest effort will be to complete what I have already begum, nis I have now almost enough gravel and stones in place, to build as permanent poultry plant.
This will ocnalst of a main bullding 24 by 36 feet, two storten high. The upper etory fis for drtving shed, the
 lower front halr for hyling pens, and
the back hast for erste futtuentig, storthe back hals for erste fattening, stor-
fing foed and dreasing poultry. In ading foed and dreasing poultry. In ad-
dition to the main bunditig Lbere will dition to the main buhding there will
be two wings, ench 15 by 40 foet, malcing in all contlouous layting pens for 104 feet, wheth will secommodate from 400 to 500 layting hens. Thls will be bullt mostly of block oement, with bal loon shaped root. I will adopt the straw foft, to prevent dampness in the pens, and aleo ourtain front. In addens, and aiso ourtiain front, in adcolony peas, and will build more this year it necessary.


Easy Poultry Accounting By M. Hayes.

AFRIENDD of mine has two breeds at the present time and he wiahes to make a thorough comparison of the two and then specialize in the more profitable breed. The syatem of accounting trint lie is following in keeping track of his two poultry houses is a0 simple. that it is worth passing on.
There is a feed bin in each of the pens with a eard tacked to the wall pense it. Feed is brought fo this bin in buahiel lota and a note made of each dellivery and Its natue on the card above the bin. On another card the number of eggs received each day is noted down as soon as the eggs are taken from the nests. Other receipts, sueh as poultry sold and old fowl disposed of are also kept track of on this eard. The time required for this, aimple syatem is unappreebable.
The feed for these two pens of 100 biras each is bought in wholesale lots. This busineselike poultry man Insists that many promising small poultry plants are made a fatlure of by hand to mouth buying.

## Hints for May

PMaSONAL attention to the birds comfort amounts to dollars and cents.
Clean the nests occaslonally, and put in a tresh supply of nest material Uniform neet boxes add to the attractiveness of the house,
White Diarihoea is contaglous among your chickis.
The purchase of a few baby ehicks from some fine pen of hirds will make. a splendid start, if one cares to start in Jume.
If the breeding hens were properly bred and mated, ome need not be sur prised to find some of the chlekens developing into finer speetmens than their jarents.
Never, under any circumstances, keep more birda than can be taken care of well.
Green food io necessary for all ages of poultry, but doubly so for the litue chick, Water and green food aro cheap and very fimportant.
Be aure the baby chicher hay
ot oxercise. Keep them bingy plenty
Keep the hopper full of
all of the hopper full of dry mash allekene an opportunity to bives the chickene an opportunity to balance the grain rations fed.

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## FILIM COUPON ANTHAITIOHAY




## Noment ind Ko

Clity

At Home with a Veteran Institute Lecturer
(Continued from Page 4.)
workable fields are tairly level. The spend money. I have spent futly acres in extent, and fenced with wov. have recelyed for thls farm, and en wire. A small creek rians with wova part of the farm creek runs through a irilcult to square some of made if difilcult to square some of the flelde, but the problem was finally solved by bowing the creek banke with a good permanent pasture seed mixtare and using the land for that purpose. This permanent pasture is near the bern, and therefore very copventent.
A five-year rotation is followed with mixed grain following the sod, then hoe crop. followed by pure grain for seed, clover hay on the fourth year, and hay or pasture the fith year. "With this rotation I can grow about all the feed I need," explained Mr. Shearer. "I buy considerable of cake and cotton seed, but I sell a corresponding amount of seed grain." Last year the seed grain feature as sumed unusual importance, and Mr Shearer had 25 acres of O.A.C. No. 72 Oats, all of which will go for seed, except the small atuff, which will be fed.

THE Dratntng.
On a farm such as this tile drains are almost a necesaity. They are always profitable, "I did my tiling 25 years ago when I could get labor at $\$ 1.25$ a day and tile for $\$ 10$ a thousand," sald Fr , Shearer. "I have been getting the benefit of those tiles tor 25 . Years. My father had old stone drains. They were all right ass fous as there was a tree run of water, but they rapldly filled fwith earth and then really acted as a spring in the field. Even yet we occaslonally put In a tile when we sec that it in leeded."
"Then you consider tiling proflable," I remarked.
"If I were to get a new wet harm," Mr. Shearer declered earneatly, "UlIng is the Arst thing on which I would

## A New Home from the Old One

with large windows (Continned trom page 7.)
slde and because of the three maining wall also is almost taken up ern expoaare, sualight all day try in my ideal latch. I have no panlong. There were, still two rooms are more satisfactory snd everything downstaiss. One, a bedroom of ample proportions I left as such as there are many times when a downstairs bedroom is a great convenlence. The big, old fashioned kitchen I divided into two rooms. One part made a good sized dining room, the other tind smaller part a convenient kitehen. The old summer kitchen I converted
fnto a washroom, where the men can clean up before coming into the house.

I lavished more thought on the planning of that kitchea than on any other part of the house, or perhaps than all the reet of the house put together. I bellewe I got my ldeas of the fundamental points of idtehen construction from a peep that I was once permitted to have inte the lit. chen of a afning car. There I saw the chef stanging in one place, reachligg every way and whth thardly a move, preparing most appectalng meels for a large number of people. I re-buift the kitehen of the old house on the same principle. On one side looking west, thare was a double window. In front of It I have the sfnk and drein board. The stove is on the opposite alde of the room, and the apaos between the sink and stove is jast foar feet, six inchea. Roth are eloee to the ewing door lending into the dinIng room and the apace between dinIng room and kitehen that is not oooupied by the door, is Jlied with a fumb whiter on one side, which opens anto both dintig room and Atchen, and on the other a cupboand, which have recelved dividends every yea on every dollar of the thousand, as wefl as gettigg the principal back Hoer imes over."
thens are a epegialty with $\mathrm{Mr}_{\mathrm{r}}$ thearear, and he has been exception aly suceessfal with them. The poul my plant haa been Increased as inves ment and labor considered, hl pure-bred Brown Leeghorns have prov en themselves the best money mak. ers on the farm. These department of Spruce Lodge will be left, how ever, for full mention in a future lssue af (Farm and Dairy. The orchard and garden sapply the family with every thing in the line of fruit and vega ables, and also add a nlee lit penny to the farm income.
The ideal on thls farm is to mak the farm coatribute everything to the home that a farm can. It is to this end that Mr , and Mrs . Shearer have planned and worked for 30 years. They have now made the farm profls able - In every branch, and Mrs Shearer's oentral Interest, the home is now to be remodelled. When this hast operation is complete they will have an attractive self-sustaining home, with whleh anyone might well ve satisfled. Mr. Shearer expressed their Ideal well when he saild:
A farmer is as independeat a man as Iives, If he bas a wellkept gar fisa he can live as sumptuously as the millionaire, and the has thls on the millionalre-that he has his food gtuffs, fresh gathered and at cost of production. Our ideal is a self-sus taining farm home. We have realized it and we would not change places with any one in the coontry.
a good sentiment for an Inatitute boturer, is it not? and it is bette stin to find the ideal so near realiza tion.


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In fact, so far as I am concerned, no labor at all, as John cares for the furnace.
Our Histiting system consfats of three mastle lamps and an equal number of old fashloned smatl-lamps. We expeet to have hydro-electrie within the zext couple of years, and in our remodelling we wired the house tor electrielty. Otherwise we would have put in acetylene or the hollow wire gasoline systems, both of whileh we know to be good.
Before closlng thls littlo sketch I must tell about the treatment of the old walls. They nimost caused us to give up in despalr; the plaster was loosened in so many places. A commerclat preparation known as wall board solved the problem. We cat out the loose planter in squares and tacked in wall board in tis place, the doin being filled in with placty, the Join being alled in with putty and
covered over, with a strlp of cottols covered over, with a strip of cottoh
pasted on. The new partitions were pasted on. The new partitions were built of thls same materlal and when
paperse over, one would never know but that we had plastered walls. In the living and dining rooms 1 paper ed with allve green, the downstalis bedroom wits a blue figured paper and the kitchen with sanftary paper to which we gave a coat of varnlab. The woodwork all through downstatrs was white enamel and up-
stalrs pateted stairs painted
Our old house thas renovated, In
our eyes at least, is more beautiful than any of the new homes bult in this locallity. And what was the cont? $I \mathrm{am}$ almost afratd to mention fi for fear of not being belleved. It totalled fust $\$ 750$ for all the halp thed, ell bathroom and furnace equipment, all other materials purchased, but ant our own worls. Anew house as good would cost $\$ 3,000$ or more.

## Too Much Money By Chas. B. Drlscolt.

T- OM PARHM, a lawyer friend Whes 撞 fine, he says, and poff. a big eigar, out where his Bhowshire stibles are. Now Tom is not a farmer boy. He never knew the healthy Joy of freezing ears and nose and toe while hauling logs through dritted unow. In fact he never milited a cow, and doesn't do it even now. He made ten million shining bones, and all the other things he owns, by cheatine hangmen of thetr prey and taking all the loot for pay, so he doean't miss a million much when apent for pacing cows and such.
Tom never saw a farm, I guess, until ho purchased "Brown'h - Distreas." That's what the nelghbors called thy piace he bousht last fall. "Twhs a disgrace to hear the people hereabouts make esport of Parhm with rabid whouts For buying awamp and hills of sand With cash that might have bought hin. land.
My lawyer frlend is cutting down the hills. He motors from town most every day with some new bcheme for Arrigation, or some dream of how to apend a lot of cash ta ralaling cameis on bran mash, or other plan more fool ich still. 'He's bult a manslon on one teh still. He's bullt a manslan on one
hill and moved two swamps a valt a hill and moved two swamps a ralt a
mile to make a lake. To see him mile to make a lake. To see him do a job that might be done by two, do a job that might be done by two,
you would supnose he'd lost his mind, you would supnose he'd lost his mlit
or suddenly had been struck blind. Itts platn to see my friend Tom Parthi will not make money on bls farm. A clever man, who made his roll by bleeding chumps and taking toll of every crook and thelef and ahark thas all at once become a mark, s boob, a slmp. a very blek whose methods would moke from hands because the has combined a farm, an fancy unconfined, and too mueh monan Sad mischance that led to such a etreumstanee-Tham and Firenide.

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# Production and Thrift 

> AIN or no gain the cause before the farmers of Canada ia as clear, as it was last year-they must produce abundantly in order to meet the elemands that may supply of and I believe this to be especially true in regard to live stock, the world. MAKTIN BURRELL, Me particularly affected in this vast strugele."-HON.
the following statements are based on reports contained in "THE AGRICULTURAL WAR BOOK, 1916," PUBLISHED BY THE DEPARTMENT OF AGRICULTURE, OTTAWA, ONT.

## LIVE STOCK—The herds and llocks of Europe

 have been greatly reduced. When the war is over there will be a great demand for breeding stock. Canadian farmers should keep this in mind.MEATS-In 1915 Great Britain imported 604,508 tons of beef, mutton and lamb, of which 364,245 tons came from without the Empire. Out of 430,420 tons of beef only 104,907 tons came from within the Empire.

The demands of the Allies for frosen beef, canned beef, bacon and hams will increase rather than diminish. Orders are coming to Canada. The decreasing jonnagr space available will give Camade an edvintage if we have the supplies.

DAIRYING-Home consumption of milk, butter and cheese has increased of late years. The war demands for cheese have been unlimited. The Canadian chesse exports from Montreal in 1015 were nearly $\$ 0,500,000$ over 1914. Prices at Montreal-Cheene : January 1915, 151/6 to 17 quts : January 1916, 181/6 to $181 / 6$ cents. Butter: January 1915, 24 to $28 \% / 2$ cento; January 1916, 32 to 33 cents.
EGGS-Canada produced $\$ 30,000,000$ worth of eggs in 1915 and helped out Great Britain in the shortage. Shippers as well as producers have a duty and an opportunity in holding a place in that market.

WRITE TO THE DOMINION DEPARTMENT OF AGRICULTURE AND TO YOUR PROVINCIAL DEPARTMENT FOR BULLETINS ON THESE SUBJECTS

Teas of theusande of Canada's food producers have ealisted and gone to the front. It is enly fair to them that their home work shall be kept up as far as possible. The Empire needs all the feod that we can produce in 1916.

PHODUCR MORE AND BAVI MORE MAKE LABOUR BPPIOIENT

## GYVE MATERLALS FROM WAMEE SPEND MONITY WISHMY

THE GOVERNMENT OF CANADA

Why Not a Wind Break Around Farm Buildings
(Continued trom prage a.)
land than is the white pine, Hecanse of its very dense folfige the while cedar makes an excellent protection for poultry yards and gardens. It is, however, slow in growth as compared with the Norway epruce or the plaes.

Eritish Cofumbla Planiing.
"In British Columbia the Douglas Ar (pseudotsuga mucronata) is Dropurposes it is best for windbreak of rapid It is thiok and buahy and of rapld growth. The weatera red its den (Thuya pllcata), on account of its dense follage, ahould make an of cellent shelter-belt. 1 am of the opls. Ion that in the dry belt region of Brilish Columbla the betl ploge trins ponderosa) will be found a more ans istactory tree than elther a more ant. fir or the cedar. It has donse fouglas endures droughty condiulons follage, this region would probably make faster growth.
'Deciduous trees, because of their lear shedding characteristles, do not make as effective shelter-belts as the evertsreens. Hawthorns (coatherus), Manitoba maple (Aoer negundo), Honey looust (glediatsia triacantios), Whlows (Selix), cottonwood (Pop lus deltoldes), yellow locust (Propu pseudoacacia) have been planted for this purpose and can all planted for the more temperate portions of Inath ern Canada. One of the objeotions to using the cottonwood about an or chard or garden fs its hablt of seading up root suckers,
"The choice of species for a shel. terbelt. depends largely upon looal conditions as well as the requirements of the owner"

Varieties for the West.
I do not know from experience what trees are best suited to shoiter belt planting in the prairie provinces, so again 1 reterred myielf to the bop: estry Branch for intormation and have been supplied with the following, the varieties being classified according to their sultability to varioes solls:
Heavy clay: Manitoba maple, green ash, elm, cottonwood, willow, farch, Ecotch pine. In south-eastorn Manltoba the soft maple, scrub oak and basswood may aiso be planted

Moist sandy loam: Mantobe mapto green ash, elm, cottonwood, willow, blreh, larch, Scotoh plie, Jack plie and white spruce.

Dry sandy loam: Manitoba maple, Russian poplar, some willown, Bcotoh ping, Jack pine and white spruce.
Sand or gravel: Russian poplar, White spruce, Scotoh pine and Jack pine.
Low wet land: Ash, elm, cottor. wood, black poplar, larch, black spruce and willow.
In my travels over the prairfes, ? always telt lonesome. I have also + journeyed through sections to the south of the border, which have been longer settled and which are now falrly well planted to trees. There is all the difference in the world. The treed prairie is homelike; the troe less pralife is not. However, I ex pect a new intenest in tree planting that will refleve the monotony of the prairies and I hope, too, the monotony of many of the rurat sections of the East, where the hand of man han grone too far in removing the tree srowth will inspire planting afresh. But let me conclude with another pararrapt from Jack's letter.
"My feal is a productive farm, comfortable home and both beautifol. My dad never did his son a better ner vice than when he planted trees fo nuch numbers that people thought him crasy. He did the blegest part toward mating our farm, in my emos at least, the most beautiful in the

## The Steel Barn---Is it Economical?

## (Continued from page 4.)

feet above the barn lloor. No teeding sald Mr. Moore. "Last winter, in
is done from this floor as it Is reserv. spite of the faot that we had very few is done from winter guarters for the sheep, of spite of the faot that we had very few which about 30 are nsually fept, At eattle in it, the turnips that we kept What it was the intention to liave this but a little atraw nothing over them strst it was the intention to have this but a $11 t t l e$ straw, showed very IIttle space covered over, but Mr. Moore evidence of frost at any thme, except
has found after one winter's experlhas found after one winter's experl- at the top of the plle or next the wall. ene2 that the iron barn, being pract-
cally drafl-proof, it is not necessary cally draft-proof, it is not necessary to furnish this extra protection, and
that the sheop do better with nothing that the sheop do better with nothing
beween them and the main body of the beween them and the main body of the
barn. One unique use which Mr. barn. One unique use which Mr.
Moore is maldng of tils grainary, is Moore is maldng of hits sraniary, is that the bins are uned in the spring as little box-stalls in which ewes and Ismbs are kept. He makes a specialty of growing early lambs for the Easter market, and since the granary is warmly constructed and there are soveral ompty blns toward the latter part of the winter, theme serve excel. lently for the purpose to whleh Mr Moore pats them. Leading up from the feed room, a stalr runs to the level of the floor of the mows and Instead of putting down the feed on the threah floor, it is passed through evates, directly from the mows to the evates, directiy

Construction of stable Walls. The outside walls of the stable are simply constructed. The mafn trame in made with $2 \times 6$ seanting, whica furnithes a six-inch dead air space. On the outside of this trame, the metal is fastened, while the fristite is covered, first with one ply of sheetlog, supplied from the ofd barn, then fulm freeaing when the stables are wis two ply of white bullding , faen full of animals," and finally one ply of V-folnt. "It is, murprising tow warm the stable is," plenty, are constructed withere are
they cannot swell and stick and are prectiaally unbreakable. For ventilation, tiree shatts are provided, one In front of the horses, one running up from the feed room and one from one of the larger box stalls. These shafts run up the ends and side of the barn, are carried up the blope of the roof to the peak, where each discharges in-
pienty, are constructed with metal
interior Arrangement of the-Barn Built by Mr. C. E. Moore. . C. E. Moore. ornamental purposes. For Ilghtning protection, a protective ridge be and is cippide that the company clat os will divide the lightning and at euch corto one of the round cupolas, so that am sure there will be no danger of these eerve for practical as well as for
 ner of the barn a copper cable is at-
tached to the metal siding and carried dowa to the permanent water-table theut seven feet below the surface of the ground. Into the main barn, Hght is admitted by a window in each gable and by two others in the north slope of the roof. All of these are made of uietal with reinforeed glass, so that most unbreakablely fireproof and al by a rope from the foor is controlled bo that it can the floor of the mow so that it can be opened at will at threshing time, or whenever ventilation is required. Metal eave troughs and conductors carry all the water from the roofs to the lowest corner, where it is discharged and runs off without forming any mud holes,
"Owing to the faet that there are no obstructions," said Mr . Moore, "I belleve that the iron barn has greater capacity than a wooden one of the same dimensions. Last year we had 65 loads in our barn and it was not more than half filled. I helleve that its capacity is at least 125 Ioads. Then In the stables we will have provision for seven horses, 10 head of cattle tled and 10 running loose fn boxes, with room on the barn floor for about when complete total cost of the barn when complete in every detail, will be about $\$ 2,000$, and I doubt very much capacity conk of the same size and capacity could be built tor less
money."

Where the granary is located over the stable, moisture will find its way through the floor and into the srafn thus injuring its vitality and germinating power. For thls reason, I would floor over the feet of grain next the floor over the stable for seed.-H. Orase, Slmeoe Co., Ont.



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& \text { EVERY TEST }
\end{aligned}
$$

How We Have Used Cement in Our Farm Improvements (Contlured from page 7.) on the tarm and a concrete floor in the cellar sud woodished. We do tios know how we would gol along without any one of these improvements. An Up-to-Date Milk House.
One of the many ways in whioh we have utilized cement was in the construction of a mildchouse. Thla house is all concrete except the doors, windows and roce The noot is covered wth galvanifod from shingles.
In bullding the millatinuse we built the walls first and then filled it up with earth to \&. level of the platform on the milik wagon. We let it stand for a shont time to settle down before We put the cement floor-on it By having the floor on a level with the milk wagon platform, it answers as a milk stand and also elevates the water we ase in cooling the milk. We can then run the water wherever we want it for watering the stock.
It is surprising how many farms have soarcely seen cement, when it can be used so easily. Its use does
not require any great mechanical skill, but merely a iftile common sense and a little ambition. The main thing to observe to make a good solid job is to thoroughly mix the gravel, pound it in good and solld, and with good - clean gravel, anyone cansmake a solid Job.

Sirice making the concrete improvements alrendy mentioned 'we have ereoted a new barn, sllo, etc. Cement was used to construct the feed mang. ers and also the approach under whith Is a root cellar 14 by 45 teet, sll fioored with conorete reinforced with one Inch reinfonoing tron overy 16 inchee apart. This makes a very colid Job, as shown by the tact that , A 20 borse power engine and 7,800 pound threshing machine were driven on it at the same time.

Two Gallons of Paint (Continued from page 8.) saalled off into nearly bysterical laughter,
"Well go on, laugh, then, but when you see the paint bill $\mathrm{r}^{\prime} \mathrm{m}$ goling to have to pay, you won't laugh so much." Sam" and "Oh Bammy"-"Are you really $\mathrm{T}^{\prime 2-D o ~ y o u ~ m e a n ~ i t, ~}$ you reall
Bammy?
"I certainly $\mathrm{am}^{\text {" }}$-and "I sure do, ladies," and with not one word more Sam bowed nearly to the floor and set out for town-alone.
By the middile of October the work was all done. In a aplendor of new paint the "Old Greenway place" again looked the part of the prosperous farm it used to be.
The fine otd house with ite new stiny sult of clothes; the big old barn with its grand red coat; the white tront fence, new-painted and whth green gate hanging on both hinges; the tall white windmill tower with ith new painted suill now whirring etead. ily in unvented lubrication; all vied In beauty with the morest hen house. The hen house now with a fine gray trimming setting oft the neet whiteness. Somethlog had bappened
The "something" whatever it was had spread all over the place and with a world of wort yet to be done, it could earily be seen that the old farm was coming beck into its own. Stomething had happened. What it was may be guessed by us it we Usten to some words in the president's room of the Furmers' Natiomal Bank.
"Mr. Haywood, I want to borrow $\$ 8,000$."
"Better tell me about 14, Sam."
"Well, I want a mauure apreader, some now fences and gates and a sito and Ive got to tare some real cows and a bull aalf. F've got to get a calf for I want a good one. I can get the


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IS YOUR WAGON LOPSIDED ?
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Wheelin all out of coart Yo Wheeln all out of goarf You
conld hate proventrd the conta have proveritod thy


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## Cotton Seed Meal

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Efinirn, Now Hamburg yof jet me beter ueal tor cash. Will yol let me have 1 c .
the nice speecues farmer forgot all the ulce speecues he had planued to wake as an appeai for the money, bat his honest sidy eyes bazed tito the bsaker's tace athe told his story for bim weit-betwer tasa mil his careful preparation ever cous have done "Well, Sam-,itua. I've been watching you slice 1 saw you loading up that wasiag lad of palat last August and is you had forgotton to paint that whanali and the machle ery, I wouldat have let you machlyAs it is-weil, ts 7 per cent all right? You've certaialy done the right right? by your piace tind 1 the right thing cn you. WGiat kind of cows bet $\$ 2,000$ getting?" What kind of cows are you "Well,
TVell, 1 don't kaow yet, but they're gcing to ba pure bred dairy catlethatint you ever 50 much." And sam stopped to laush with the old banker. birt a great light had blione in upon him once agala.
Mr. Haywood always notfeed," sald pa'ints fils birn ande, "that a man wioo forget the macilnery howse and doenn't his note when due " In two weelre.
flve had weeks the scrubby four or and in theprted for the stock yards real dairy etead 10 sleek, beautiful, for milkling cows waited contentedly Back of the.
the concrete founda wore the forms for sto. coacrete foundation for the new sto. yard fence with one arm on the barnyard fence and the other around the walst of a very happy wife and a very happy young farmer, Slam stood lookfig it tits new herd.
"Aren't they beauties, Sam?"
"Yes, Janet, and if you hadn't palnted the hen hoise, Pd never have seen the light. Who would have thought that two gallons of paint would have
made suct a difference?".

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Wr. R. MeEnery, of Eria, not only filled his own silo as a bove, but also niled
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With smut this is while the smut which they can posalbly infect it

## Production



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elighty in arrears, and nample coples, varies from st less than the full subscription rates are accopted at less than the full subscription rates
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Rogues shall not piy their trade at the expense of medium of these columnes but we shall through the medium of these columne; but we shall not aittempt honorable business men who advertise, nor pay tho

## The Rural Publishing Company, Ltd. PETERBORO, ONT.

TRend not to contradict and to confate, nor to sider." - Bacon.

## The Latest Rural Necessity

THE automobile is the latest rural necessity. When Neighbor Jenes, in a reckleas moment, "fell tor" the glib talk of a sales agent and brought the first automobile into the neighborhood, we all flocked out to have a look at the new contraption. Now the Neighbor Jones all over rural Canada have lots of company on the road. The horses do not jump ditehes or climb fences when a car swings in sight, as was once their practice, and in some sections at least a rural pienic looks like a meet of auto enthusiasts. The farmer's car has become a commonplace.
We are glad it has. The farmer's car shortens distances and affords a pleasant diversion from the work of the day it rests a fellow to get out til the machine, tean back and take a spin. It is doubly refreshing to the farm women folk. it pumps the lungs of all of us full of pure air, and does us all sorts of good. The farmer's car is enabling as to get more out of Hfe,

## Good Roads

RAILROADS are the great arteries of trade, but roads, just plain country roads, are of still greater importance in the cconomie life of the nation. The better the roads, the lower the hauling costs. The better the roads, the better the opportunities for church attendande and social intercourse among rural peopics. This question ff good roads is vitally related to ail aspects of country life-economic, social,' religious, educational.
We wish to emphantse our bettef in good roads and our realization of their Importance- We find that the attitude of Farm and Dairy on this problem has been misunderstood, princirally because we have falled to throw up our hats, metaphoric ally speaking, for every movement presented to the publie with a good roads label attached to it

Automobile highways between big citles, whose cost exceeds the utmost limit of their economie use, the Toronto to Hamilton fiasco for instance, do not meet with our approval. But the sane im rrovement of the highways over which the farmer drives to market and goes to chureh, appeals to us as one of the most necessary of ril public improvements. Any movement in this direction will recelve our hearty support, even if that support must be tempered with sympathetio cilticism. Atl ill-considered and extravagant road Improvement plans tend, we beliere, to retard the improvement of the country roads that are used by plain country people.

## C <br> "I

## Community Breeding the Ideal ${ }^{-}$

 whe never writed unless he ias our Fomedicswhe worth writing about, "that Americans, and in this I include Canadians, are altogether too puffed up over the fact that we have on this continent all the world's record cows of all the best dairy breeds, Great production hy individual cows is a thing worth while, bub a good average production for all the dairy cows of a district or a township or a whole county, if you like, is more important, and in this wo can's compete with the older tands. They haven't gone after big records, but big averages, and they have them, and they have succeeded largely by community work."
The last statement is the significant one-"they have succeeded largely by conununity work." It is always easy to go with the crowd. The man who woutd hever, of his own individual initiative, buy a pure-bred sire and grade up lifs herd, will go along with a community breeding scheme Just because it is the casiest thing to do. The small dairy farmer, ambittoua to tmprove, but held back by the cost of a good aire, and the smallness of his'herd, finds in the cooperative breeding society a means to attain his ambition at little expense. Even the blg tisirymen, who can and do own purebred sires of thelr own, proft by cominunity effort in the better auket that develops for the sur plus stock of the community. Ol4-land records may be easily broken, but their averages will never be exceeded on this side of the ocean until we adopt their'sommunity methods of breedtig.

## The Farm Home

AFACTORY tooks out of place in the open country. We see them occasionally and the affeet that they leave is not pleasing: "And yet," writes n. correapondent, "a fadory in the country fan't any more out of place than the modern eity-style house that many of our most prosperous farmens are kuildink on their farms."
We believe that our correspondent fs tghit. City architects design houses to fit the narrow lots and high priced lands of the city, where houses sit tight together in sung rows. The same type of houses, buil in the country, appears stilted and awlcward. As a general rule, too, the house plinned by a clty architect is noc too well fitted to the requirements of a farm home.

We need a raral style of architecture. Just What atyle we will evolve, Farm and Dairy is not prepared to state. There are some chametertstics, however, that rural architecture will have, The rural home will be built with ample grounds around t ; lind in the country is not prioed by the foot, but by the acre. The front of the house will be broad and comparatively low, instead of high and narrow as in the city. There will be ample piaxza apace. The design will be simple and effective. The interior of the model firm house of the future will be denigned for conventence and comfort. Proper provisions will be made for heating, lighting and santtation. All of these features will be combined equally well, in the modest home of the rural day laborer, and the best that the farmer can build. Along with thls
new, style of rural architecture, will come a breed of rural arehilects who uppreciate the simple yel attractive lines required to make a farm homo beautiful, as contrasted with the more elaborate architecture that will always bo charticteriuthe of the city.

## Wasted Fertility

Ithe doilar and cents value of all the certh izing ingreaients lost in barnyard manure thin spring coutld be collocted together for the Pal. riotic Fund, there would be no more need for publie subscriptions. This may be a strong ment, but it is a true one. Cabadian farme today have edvenced a stags ahead of the pioneers who moved their buildings periodically to get away from the accumulations of manure, but our flagrant waste of fertility still amakes visitors from lands where the value of manure 4 a fertiliter is more fully appreciated than here. A faw yeara ago, for instance, the studea at Cornell University were asked to traw carloons depleting the one phase of agriculture that impressed them most. The prize went to it Japanese student at the University, who depicted an army of Brownies carrying away heavy baskets able fertilizer from the exposed manure heap of an American farmer. That was the plase of erican agriculture that impressed him mos
This cartoon was drawn a few years n.a,
This cartoon was drawn a few years ngo, bul the feature noted by the Oriental is still one of
the weaknesses of our agricultural practice Farming may be compared to the Niagara of mille seen by many of our folls at the Canadian Ns tiona! Exhibttion last year. The same milk flowed over the preciplce again and again. Suppose that
a leak were sprung in the containing tank belorr and a little milk lost at ench round. The mit ature Niagara would soon have been dry. Each
year the fertility of the soil is made and romate year the fertility of the soil is made and remade through the crops. If a little is loat each yuar,
due to carelens handiling of the manure, or other causes, the erop producing power of the soil gradually depleted until the profits of working the land ceases. This has already happered on thowsands of farms in Eastorn Carada, and on not a few in Weatorn Canadn. In fact, many soll would now be utterly useless atd not nature ste⿻ in and eall a halt on this proffigata agriculture ere her atorehouse of fertility is completely ex hausted. A permanent agriculture can only in built on a aystem of farming that properly cos
secves ise fertility of the soil.

## Where the Sire Counts (Country Gentleman.)

0N a datry faria that had ten or twelve serel cowa, a carefully selected pure-bred dary sire was installed. That this sire was a most potent isetor for proflt appeared in the firs ten of his daughters to freshen. They aveikgad well above, 395 pounds of butturfat each as thro and four year olds.
Without doubt these results were influenced somewhat by other factors-the silo, a comforb able barn in which are stored an abundance of good alfalfa. hay and plenty of farm-mised con centrates, and a seneral dien of a balanced ration But without the introduction of good dairy blood all other improvements would have been seriousity haudicapped.
To rank as a real dairyman one ahould have all She above equipinent, and also scalos, milt record and Babcock tester; and should weed out cows that fall much below the average prodoc tion as fast as promising heifers freshen to all the atalls. A teacher from a nelghboring atate maintains, and not without truth, that the leal pencil te the mont important tool employed in thr businass of farming. After all, real succes
dairying comee from the careful selection dairying comee from the car
employment of many factors.
simple yat larm home araeteristh

1 the lertil manure thin for the Pa rong state farmers of the of of manure

## In Union There is Strength

## New United Farmers' Clubs Being Formed

CDERETARY J. J. MORRISON, of the United Farmers' Cooperative Co., Ltd., has addreased several Farmers Clubs throughout the pro Fince during the past few weeks. ou at Baldersonew club was organsed at Baiderson, Lanark Co., of which Ed. W. Watt was elected president, and , , S. McTavish secretary. District Representative Forsythe also ddressed the meeting
The rollowing day a meeting of the Perth branch of the South Lanar Farmers' Club was attended. A reso lution of affiliation with the central company was passed.
A new elub whs organized at Carlisle, Wentworth Co.; on April 17, with a membership of 13 . The officers elocted were as follows: President Silas Gaddye; Vice-President, Ed Haward; Secretary, Chas, A. Newell Directors, Elmer Adamson, Jas. Smith R. Gargle, and Jas. Boyle, all of Car hile. About 25 were present at the meeting.

## United Farmers Plan Active Campaign

Pthans for an aolive campaign by the United Farmers of Ontarlo, were completed at a meeting of the board of dinectors held in Toronto, April 20 . in order that the far mers throughout Ontario, who are unable to attend the annual conveotione of the association in Toronto, may be made better sequainted with the objects and aims of the Asrociation and what $K$ is emdeavoring to acoomplish general plans were completed for the holding of five distriot conventions during Juhe - These conventions will be beld at iChestervilis or Wheohepter in Dundas county for finemern Omtarlo; at Belleville for Central Ontario: Pal aerstotn, Petnolle and Woodetock for Western Ontario. The dates for the mectings will be arranged fargely to sult the convenlence of the apeakers. In the meantlme they have been set entatively for June 7 to 14.
It is intended to hold morning and afternoon secslons at each point, and to Invite all ta fe farmers' elubs and granges in each district to sand delegates. As far is poselble the speakers and aubjects at each convention, will be as follows: Morning sescton, T. A. Crerar, the president of the Grain Onowers Grain Company, Winnlper, will speak on The 56,000 ongenised farmers of the west." Mr. John Prit. ohard, of Gorrie, Ont., the erealdent of The United Farmers' Cooperatte Company, Limited, will dewcrlbe the objects and atmas of the company and tell what it is and what it le acoomplifhing. Mr. Anson Groh, the man. ager of the same Company, is to be cated to speatr on che retation of the Central to the Locale"
will the afternoon seabions Mr. Cremar will speak on; "The posalbilities of the Organised Farmers' Movement And some of the Dangers." Mr. R. H. Halbert, of Melanothon, the president of The United Farmers of Ontario. Rally "Why Ontarlo Farmers Shoulo mon, the the Call." Mr. J. J. Morrisation aecretary of the same organt. sanim, will speak on "How Local Or It is clations may that local diptriet aseovention oofnt to sarrahge for future conventlons and purh the work of or panisation in thetr districts of or any of the foresolng spenticarg thould shy of to attrend, armansemeatoens be unable to attend, arrangements will be
made to sut good mabetitutee. In addition to the formgolng meetings a serles of local meetings ane to be beld for parts of Fort and Outarlo eourtien

Curing Juae, phich will be addressed by Mr. John Kelnedy, the vieepresi of Winnipeg. Grail Growers' Grain Co . of Winnipeg.

## Association Pins.

for an directors approved of a design for an assoctation pin. The design a maple palr of elasped hands with pins aple jeat as a background. Thee pins are to be sold to members of the Therment all through the province, Fiey are quite handsome and will pro ylde a sourbe of reyenue for the asso ciation.
The direotors decided that the United Farmers' of Ontario should Amfilate with the Ganadlan Counell of Agriculture which afready includes all Mr Weotern furmers' organizations. Mr. IR. H. Halbert, the president of the Ontarlo Assochation, has been alected a Therpresident of the Cana Mr. Hathert Agricultare.
Mr. Halbert and Mr. Blatehtord, of Oxford county, were appointed a committee to confer with a similar committee from the United Farmers' Co operative Company, Idmited, in regard to devising a comprohensive plan of action for pushing the farmers' move ment in till partis of Ontario. This may finclude the publieation of tmall paper. The directors present were: President Halbert, vicepreel dent, A. J. Reynolds, Sollne: Ven Allan, Aultaville: L. H, Blatohford, Kmboro, and Beeretary J. J. Mork son.

Regulation Regarding Delegates MATMER of considerable interest to the local Farmers' Clubs - througheut the provfrice was ceak with at the recent meeting of the directors of The United Farmers of ortario, held in Toronto. It wes decided that for the next annual convenion held in Toronto, each local will be entitled to send one delegate, and their first 10 to 20 expenses paid for their first 10 to 20 members, and an additional delegate for each additiona! 20 affiliated members. In other Words, a Clab that is affiliated with the Central, having anywhere from ten to fwenty members, may send one delegace; a club having 40 afthiated members may send two, and a club having 60 affiliated members may send three, and 80 on in the same propor tion.

At the time of the last annual convention in Toronto, a committee was appolated to deal with thle matter. Mr. J. J. Morrison, the Secretary of the Amsquiation, was a member of thls committee, and had certain informs tson ha intended to lay before it, but owing to pressure of other work, be was unable to meet other work, he Was unable to meet with the committee. The committee later brought in a recommendation that only clubs havTelegate to members could send a delegate and have his expenses pald, and ons delegate for each extra 50 members The whe adopted by the convention, but later was the cause of considerable dissatiafaction. It has become appar ent since the convention that were this regulation to be enforced it would greatly reduce the number of delegated at the next conyention. The direoter, therefore, have rescinded the reaoln lon adopted at the convention and issumed the responaibility for replac ing it whe the it is belleved will megulation, which financial interegts of the Gentrard the ont imposing a hardship on the locals

Did you ever consider this advantage of clover: Its dense growth acts as a smother crop to the weeds whose germination is first induced by the clover shading the soll and keeping it moist.


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a. L QRIFFITM A BON, W. Watertoo si, Strationt


## 

 an't supply you, send a quarter and get one by mail

## Griffith's Handy Rope Tle

## Lake Marie Farms

Announcement-The scarcity of farm help and other purely local conditions have necessitated the complete dispersion of our big herd of Holsteins at Lake Marie Farms and the replacing of it with Clydesdales and beef cattle. Our richly bred herd of 80 head of "Black and Whites" will therefore be sold by publie anction, absolutely without reserve, on the date below. The foundation for Lake Marie herd was made by selections from the best herds in Ontario. The cows were selected not only for show ring type, but


TYPE, CONFORMATION, BREEDING-In every way he shows the blood of the great King Segis. also for performance, as their records and winnings will indicate. They are sired by such noted animals as Francy Bonerges Korndyke, son of Trancy Bonerges Ormsby; Prince Abbekerk Mercena, the noted show sire, recently sold for $\$ 475$; Brookbank Butter Baron, the sire of Queen Butter Baroness; Schuiling Sir Posch, and others.

## Segis DeKol the Sr. Herd

 Sire A grandson of the great King Segis, and of Blanche Lyons DeKol, 33.31 lbs., he will make an offering fit to head any herd in the Dominion. Mark him if you require a quiet, sure sire for heavy work, and backed by the best blood in Holstein history. A great majority of the reeord females will be in calf to him and froshening about the time of sale. Seldom does the opportunity present itself to Holstein breeders to secure females bred to a bull of such a type and backed by such breeding.
## If you need foundation animals be with us at <br> King, Ont, Thursday, May 11 <br> Wireseme sires to be offered are exceptional in breeding and type. In addition to the -Sr . Herd Sire above, there will also be several of his sons, ready for service, and

## Mark These

Sir Colantha Abbekerk
Beauty Favorit Posch Dorothy Dorliska R.P.P at 2 -yrs: 9,407 tbs. milk.
Lake Marie Butter Baronese Jemima Pietertje Look up her record in the catalogue.
Segis -Schuiling Prince Segis DeKol.


Keeper's lodge and entranee to Lake Marie Farme. from splendid dams. These young sires carry the splendid make-up of Segis. DeKol. If you require a sire, don't fail to avail yourself of the choice of one of these sons out of one of our best cows. The blood behind these fellows guarantee that they will maks good in any herd. Look them up when you get your eatalogue.
Sir Colantha Abbekerk, the Jr. Sire, is a grandson of Dutchland Sir Abbekerk. Many of the females will be in calf to
this fellow. this fellow.
In addition there are a couple of sptendid sons of this bull rangIng from a few weeks to ready for service, all nicely marked, deep and trpy.
Any one looking tor
herd leaders will surely find them at Lake Marie. They are well grown - several ready for work. To see them Is but to be convinoed of their worth.


SEGIS SCNUILLING PRINCE-one of our young sires $\rightarrow$ son of Segls DeKol, and prominent at Toronto in 1915.

To every breeder and admirer of Holsteins we extend a kindly invitation to visit the big estate at picturesque Lake Marie Farms. You will enjoy your visit and inspection of our modern dairy build'rgs-some of the finest in Canada, See also our Olydesdale
foundation stock and our nodern poultry plant. We welcome you.

## Sir Henry Pellatt, Proprietor, Lake Marie Farms

# Complete Dispersion Sale 

## Every Animal Must be Sold

Jr. Sire, Sir Colantha Abbekerk

## The Offering of Females

 is now giving over 50 lbs . per day.Evergreen Rex, who looks well and works better.
Julia Abbekerk, a large, roomy cow, with exceptional udder eapacity and dairy development.
Canary Olothilde, a typical wedge-shaped cow of great substance and capacity.
Bell Posch, another large, well-proportioned cow with nicely. balanced udder and good teats.
These are only a fow of the good ones in our strini of 27 now milking. Many of the others will be coming in just about sale time, ineluding some very sweet 2 -yoar-olds. They will all be ready to do their beat work in the hearvy millking months
ahead.


LaKE MARIE BUTTER BARONESS- the kind that Holotoin broederi travel far to seoure.

## 80 Head Registered

## Quality <br> Holsteins

 The Younger Stock

BEAUTY FAFORIT POSCH-A breedy heifer of pleasing type and

The Younger animals are all in fine condition and mostly from our senior sire, Segis
DeKol.

In heifers, Lake Marie Butter Baroness (shown above) is a model in show type, yet gives every indication of being a big producer.

Beauty Faforit Posch is another youngster of quality that will be good buying. There is a leng line of these all ready for business.
In buying these on May 11 you are securing richly bred, (still untested) females, with their entire life before then,

A Few of our Offerings

27<br>Females in Millt

| Two Year Olds in Calf |
| :---: |
| to Sr. Sire |

Several Sons of Segis DeKol Fit For Service You buy them absolutely at your own bid, as not an animal will be reserved.

## Terms of Sale- oash, unless otherwise arranged for on day of Trains from Toronto and north will . Sale to commonce at 12 o'cloek, noon. radial cars at Everaley that conneet with be met at King on morning of sale. Also Lunch served at noon.

FOR OATALOGUE WRITE TO-NIGHT TO


The beautiful dairy at Lake Marie.

## OUR FARM HOMES



奍E become like those with whom we associate. A man's ideals mold him. -S. D. Gordon.

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

 <br> <br> (Continued from last week.)}SUDDENLY he concentrated his color had left the girl's cheeks. But gaze at a point on the lake three quarters of a mile away. It was close to shore, and he was certain that he had seen some movement there-a flash of sunlight on a shiftfing object. Probably he had caught a reflection of light from the palmate horn of a moose feeding among the water-lily roots. He leaned forward, and shaded his eyes. In another moment hls heart gave a quicker
throb. What he had seen was the throb. What he had seen was the
flash of a paddle. He made out a canoe, and then two. They were moving close inshore, one following the other, and apparently taking advantage of the shadows of the forest. Philip's hand shifted to the butt of his automatic. After all there might be fighting of the good old-fashloned kind. He looked back in the direction of the tent
The girl had reappeared, and was looking at him. She waved a hand, and he ran down to meet her. She had been crying. The dampness of tears still clung to her lashes; but the smille on her lips was sweet and welcoming, and now, so frankly that hls-face burned with pleasure, she held out a hand to him.
"I was rude to run away from you in that way," she apologized. "But I couldn't ery before you. And I wanted to cry.
"Because you were glad, or sorry?" he asked.
"A little of both," she replied. "But mostly glad. A few hours ago it didn't seem possible that there was any hope for me. Now-"
"Yes, there is hope."
"Yes, there is hope."
For an instant he felt the warm thrill of her fingers as they clung tighter to his. Then she withdrew her hand, gently, smiling at him with sweet confidence. Her eyes were like pure, soft violets. He wanted to kneel at her feet, and cry out his thanks to God for sending him to her. Instead of betraying his emotion, he spoke of the canoes.

- There are two canoes comfing along
shore of the lake," he said. "Are AI expecting somie one?"
The smile left her lips. He was startled by the suddenness with Which the color ebbed from her face and the old fear leapt pack into her eyes.
Two? You are sare there are twa?" Her fingers clutched his arm almost fiercely.
"We can see them from the top of the rock ridge," he satd. "I am sure thete are two. Will you look for yourself ${ }^{\prime \prime}$

She did not speak 'as they hurried to the bald cap of the ridge. From the top Pallip pointed down the lake, The two canoes, were in plain view now. Whether they contained three or four peopie-they could not quite make out.
At sight of them the last vestige of
now, as she stood there breathing quickly in her excitement, there came a change in her. She threw back her head. Her lips parted. Her blue eyes flashed a fire in which Philip in this amasement no longer saw fear, but deflance. Her hands were clenched, She seemed taller. Back into her cheeks there buraed swiftly two points of flame. All at once she put out a hand and drew him back, so that the cap of the ridge concealed them from the lake.
have made me run off into the forest-


Arbor Day Properly Observed in Norfolk Co., Ont.
and hide," she sald. "But now 1 am also be Paul-your middle name, pernot afrald! Do you understand" haps.
"Then you trust me?"
"Absolutely."
"But-surely-there is something that you should tell me: Who they are, what your danger is, what 1 am to are,
do.
"
"I am hoping that I am mistaken," she replled. "They may not be those whom 1 am dreading-and expecting. All I can tell you is this: You are Paul Darcambal. I am Josephlne, your wife. Protect me as a wife. will be constantly at your slde. Were I alone I would know what to expect. But-with you-they may not offer me harm. If they do not, show no suspicion. But be watchful. Don't let them get heaind you. And be ready always-always-to use that-It a thing so terrible must be done!" As she spoke she lay a hand on his plitol. "And remember: 1 am your wife!" "To live that belief, even in a dream, will be a joy as unforgettable as life itself," he whispered, so ow that, in turning her head, she made as if she shad not heard him.
"Come," she sald. "Let us follow the coulee down to the lake. We can watoh them from among the rocks."
She gave him ther hand as they be-
gan to traverse the boulder-strewn bed of the creek. Suddenly he said: 'You will rot suspect me of
cowardice if I suggest that there is cowardice if I suggest that there is
not one chance in a duundred of them discovering us ?"
"No," she replled, with a glance so that involuntarily the held her hand closer in his own. "But I want them to find us-if they are whom I fear. We will show ourselves on the shore."
He looked at her in amazement before the significance of her words had dawned upon him. Then he laughed.

That is the greatent proof of your Paich you have given me. Y he sald. 'With me you are anxious to face your enemles."
to meet them."
"Don't misunderstand me," she cor rected him quickly. "I am praying that they are not the onies 1 suspect. But if they are-why, yes, I want to face them-w whit you."
They had almost reached the lake when he said:
And now, I may call you Josephine ?"
es, that is necessary.
And you will call me-
Paul, of course-for you are Paul Darcambal."
"Is that quite necessary" the asked. "Is it not possible that you might allow tme to retain at least a part of my name, and call me Philip? Philfp Darcambal?"
"There really is no oblection" to will call you Pallip. But you must

She hodded. He saw that in spit of her struggle to remain calm stin waas seized again by the terror of wha) might be in the aproaching canoen He was straining this eyes to make out their ocoupants when a low erf drew his gaze to her.
"It is Jean," she gasped, and thought that he could thear her hear beating. "It is Jean-and the others are Indians! Oh, my God, how thank.
Il 1 am-
She turned to him.
"You will go back to the campplease. Wait for us there, 1 must siee Jean alone. It is best that you should do this."
To obey without questloning her or expostulating against, his sudden dis. misesh, he knew was in the code of his promise to her. And he knew what he saw in her face that Jean' return frad set the world trembling under her feet, that for her it was charged with possibilities as tremend. ous as if the two canoes had contaln. ed those whom she had at first fear. ed.
"Go." she whispered. "Please go" Without a word he returned in the direction of the camp.

## ohapter five.

Close to the tent Philip sat down ntmoked hifs pipe, and walted. only had the developmentr of the last few minutes been dissppointing to him, but they had added still more to his bewilderment. He had expect. ed and hoped for Immediate physical setion, something that would at least partially clear away the cloud of my stery. And at this moment, when le was expeeting things to happen, there hisd appeared this new factor, Jean, to change the current of excitement under which Josephine was fighting. Who could Jean be? he ask. ed thrmself, And why should his appearance at this time stir Josephine to a pitch of emotion only a liftle less tense than that roused by her fears of a shont time before? She had told Fim that Jeas was part Indlan, part French, and that he "belonged to her." And his coming, he felt sure, was of tremendous significance to her.

He waited impatiently. It seemed a long time before he heard voices and the sound of footsteps over the edge of the coulee. He rose to hits feet, and a moment later Josephine and her companion appeared not more than a dozen paces from him. His first glance was at the man. In that same instant Jean Crolsset stopped in his tracks and looked at Plilip. Steadily, and apparently oblivious of Josephine's presence, they measured each other, the half-breed bent a little forward, the lithe alertness of a cat in his posture, his eyes burnhag darlly. He was a man whose age Phillip could not guess. It might have been forty. Probably it was close to that. He was bareheaded, and his long coarse hair, biack as an Indian's, whs shot whth gray. At first ft would have been difficult to name the blood that ran strongest in his/ veins. His hatr, the thinness of his dace and body, his cyes, and the tense postifion in which he had paused, were all Indian. Then, above these things, Philin saw the French. Swiftly it became the domis. ant part of the man before am , and he was not surprised when Jean ad. vanced whth outatretched hand, and sald:

M'sleur Phllip, I am Jean-Jean Jaccues Crolsset-and I am glad you have come."
The words were spoken for Phillp alone, and where she stood Josephine did not eateh the strance flash of fire In the half-breed's eyes, nor did she lear hls still more swiftly spoken words: I am glad it is you that chance has sent to us, M'sseur Wey. man!"
(To be Continued.)

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whenever "flour" is mentioned.

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## The Upward Look

## Travel Thoughts-No. 30

## God's Wonders.

615
Pranan rochat, bain and moon; prolise him, all ye atacos of yste" "Maim $148: 2$ Thrree times laat summer the words of thits varse kept repenting words tolyee over and over fin my mind. Unul thone times, nerer hand tho mind. peemed to large mad so briethe ones

## was when I saw them from the vast <br> atretehes of the Arizonn desert

again, as they wrere noen tromert; ourtaln. He declared at times tored fident bearing.
depths of the wrenseen from the could be heard. He alve anmes they preseed by tender It may be ex only ness towards onder thoughtfoul kindclifs rising grim, one ened was when thenen really fright- ing of praigs others, as a thank-offer file on elther slde. The last was, alvin was when thece lights were an ing of praise. the ship was passing through Gren wivid as the phosphorescence of the thosough heavy clouds may obseure ville Thannel. That was the Gren- ccean, and he could not distinguish they heavenly bodies yet we know rowest part of the Alnatran trip. The between them to steer lis course. Wis they are always there, ever offering mountains rose black, and wrip. The We do not need to go to diatant the same tribute of pralse. Someteoted as black and as deep in re- placen, bat anill have a heavenly wont times the sorrows and aaxietles come water beneath. In the heavens ahove deriand wherever we may live. If ho hymavy and so dark that our pratseaad the depths in the heavens above theas creatlons seem to be praising but may be a plifully weak one, gletmed those myriads of shone and Him by their weader and their besuty but therv is the time moat of all we

One night the old pioneer captain so our lives muat always be one glad, noed to make it as joytully slad as aica us to nee the Northern Lights, hyma of praise. This pralse need not posaibie. a life-memory slght; that vast ever bemile, fhe but expreswed In the brave His crentlon. The the flrmament is amile, the happy expreasion, the con- le His plan toe us-L. H. N. Ni lives

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## HOME CLUB

## Her Husband's Business

 letter by "The Doctor's Wife." April 13th issue and cannot but feel that all she says is correct, but far from being the general condition "The Doctor's Wite" strikes at the beart of the whole affalr when sho saya that 'No woman elould become a wife without belng willing to understand her husband's business and also to assist him in it."Obeervation and experience have taught me to belleve that in the majority of cases women are not in a position to do this, and there are good, sound reasous for it, some of them belag as follows:
In the past and largely at present and is, concensus of opinion has beer and is, that this is outside of the Wife's sphere. She was supposed to look after the house, ralse the tamily, and anssist with the work generally, but the basinese-"weil, that belongs to the boss." The worst feature of this line of thought is that the women concerned are largely satis. fied, belleving it to be right and ac cording to the Almighty's plan.
Another reason if that in many cases the training and (deals if the young wife have been such as to render her unfit, in a targe measure, to der her unfit, in a large measure, to
materially assist her hushand. This Is obvilously due to the bellefs and ideals outined in the above paragraph, also to the faet that girls and boys are educated in most other lines and not at all in business management. Worse still, they have had no actual business experience. It is my firm beliet that business educatlon and experience should tbe given every young man and woman before mar. riage. And it is the duty of every parent to see that their children have it. No place of buslness offers bet ter opportunity to give this training than the farm, and yet no Class of people are so negtectful of it.
A thind reason why the average woman does not understand her hus band's business is that there has been a tendency in the past to belittle the farming businens, and many young women marry good, wideawake farmers and feel that they are taking a step downwands in the socisi scale. Consequently they do not care to mix too muoh in the business af. talrs of the concern, ehoosing rather to imitate their elty dousins.
We need to change our system of ethles before we can improve this latter condition, and methinks present war conditions, and what may follow, will go far to solve the problem and bring the farmer and his vocation into its proper place in the worlds economie, soclal and mental history.-"Brother Bill."

## A Satisfactory Rearrangement

IF I am not miataken the Farm Improwempmt Number of Farm and Dairy will be published in a shor time. It just oceurred to me today that probably a Mitle improvement which we have fately inmitlled In our home might be of interest some Home Clab members who are delving into all corners of the house it the aft-fmportant task of spring housseleaning.

The recent improvement has been in connection with the clothes elosets There is mothing much more conFemlent or necessary in connection with a bedroom than a clothes closet Untll we made a little change, how. ever, I found it difficult to froop thers elosets looking neat. There war a tendency on the part of the whole

How I Would Spend $\$ 300$ Miss Mary Fulton, Ronfrew Co., Ont, (Promlum Article.)

Iof were given $\$ 300$ fr: the purpose of smproving my home I would lumber and procure a to 'purchase build verandas, and above them covered bafcontes, I would them covveranda at the front of the house, the front door opening on to it. Upstairs I would have the front window made into a door, which would open on to the balcony, Running along one side of the kitehen I would have the seo. ond veranda, and above it the seoby making one of could be reached a door.
Let me describe a front veranda that saw last year. It was about nime feet wide, painted pale blue above, the posts and furniohings Ilke the celling. Arranged floor blue ally on the veranda was a small table, a sewing machine, a couple of easy chairs, it sotn and a hammock. Wild cucumber and morning glory wines were growing along the front and at one side. Next to the vines were a couple of flower beds with a glorious arrap of asters, plaks, carnations, et.- It was, indeed, a restful beauty epot, and made one thintr of what the poet sald: "A thing of beauty is foy forever." When the members of our Women's Institute met at that home, do you suppose the hoatess could coax us to leave the vortess and have our meeting fndoors?
Now for the uses of my kitehen veranda. During nice summer Weather I would have a table out there and we would have an out-ofdoors dining-room. It is so pleasant to eat outside where there are birds and flowers and sweet, fresh air, laden with fragrance from clover fields or apple orehard, Here, in proximity to nature, I would also
wash and fron, prepare vegetables, kuit, sew, and so forth.
The balconies above are very useful when one wishes to shake mats,
air clothes, and so forth. Bast of all, air clothes, and so forth. Best of all,
we can utllize them as sleeplng we can utilize them as sleeplng porches almost all the year round. Peuple are beginning to realize more and more that if they want to have perfect health they must breathe pure, fosh aut-of-doors will help to make ise ing out-of-doors wif help to make us
strong; If we are robust, sleeplng outstrong; if we are robust, sleepligg out-
of-doors will help to keep us so

## A Seasonable Task for "Dad"

WV HY not get "dad" or one of the boys to show thetr satil in carpenter worik this spring by constructing a fireless cooker? It fs One of the farm fome improvements every year, but there are extensively chomes throughout the country which this hot weather conntry in has not yet found a place: convenience factory cooker may place. A Batls factory cooker may be cheaply confiandy man of the the farm by the fandy man of the familly. Here is a euggestion which should be worth trying out:
Three wooden boxes fone loag box and two square boxeis); the long box must be large enough to hold the ather two and still leave three faches of space between atl the boxes. Flve and a hall yards bheat seb ton, one yard wide.
Two covered enamel pails, cooking
palls, Bu
one yard. denim or canton-flannel, Method:
First, line the bottoms and sides of los, then in with the sheet asbeshox lay in in the bottom of the long ine pleces, to s ders flat, or torn Into Ine pleces, to a depth of sbout halt ani
inch. Then pat two inches of saw. papers. Then of this layer of newispapers. Then place the two square three inches the long one, leaviog three fnches of space between the two equare boxes, Fill ALL the amwdust, fell all the boxes with tack a stelp of mineral wools. Then torial from the dedges of other maboxes to the outside alge of square box, also across the space between the two square boxes, so that the strij of dealm will cover all the spaces that are filled with sawdust.
The outside box must have a wood. tos to within a hale with sheet asbes. of the Hd. Then put a layer edge dust one inch deep a layer of saw. zisbestos. Then tack on top of the or other material over plece of denim still leaving the edser the sawdust, Bo that the cover will free and clear, The Ifd may be will fit down Ughtiy, or a pillow made of with asbestos or a plllow made of denim, or can that will fit and filled with sawdust of the box.

## A Furnace First and All

Mrs, John T, Clark, Vietoria Co., Ont, IN the first place, if I were given home I wonld have improve our stalled, so that the hoves a furnace inheated soll that the house woutd be have a door put in Then I would tween the front an the partition be save walking up and back stalrs, to save waiking up two flighta when doing the work. I would also have piping put in to carry the water to a drais from the bathtub. I have a bathab, but have to empty it by dip-
ping the water out. If there was
enough maney left. after enough money left after these improvements were made I would have loors fixed so that I could polish hem, and would do some decorating In the way of papering and painting.

Our minds are given us, but our characters we make; God gives the mind, man makes the character; the frad is the garden, the character the tnvolves conatant a subtle thing, and tlon. Whes constant work in fts forma. ton. Whether it be good or bad it has been long in its growth, and is the ants.-Jennette Ont.
stho

## June Heddings

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EARN alx octave plano eased oe:gin, walnut case, rail top with mirror, allding fallboard, long muaic dosk, Wth two engraved ponela, four mets of roeds and in
stops, including Vox Humana Buas and Trubte Couplers, Forte. Viol, ete, Grand organ and lanee is practically proof pedals. is practicaly a new in- ind
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Equipment for Recreation By Edwina Mary Layman.

$T^{1}$ie farmer is dependent upon hise immediate environment for his lies where pleasures, in communisetber there are possifilule of a borhood gatheringe and of real com:borhood gatheringe and of real community interest for the farmer and his family. On secluded farms the ev are ative side must come, more or l ess, rom within,
On every farm there are possibinities for some equipment for play for the chididren; and it is raptaly becoming a recognized necessity that some forms of play apparatus should exist on every farm. Among the oatside pleces of equipment that are possible for nearly every farm whild are the following: A sand-bin (made so it can eovered when not in use; a rope Wwing, dear to the heart of every hild; a seesaw; games, sueh as tenbis, tether-ball, volley-hall, eroquet; quolts (pitching horseshoes), etc., a tent or rude shack, preferably built by the children themselves, for their very own playhouse; and a small shde, which could be used as a tobogran in the winter. With the added anjoyment of your children's lives and their appreclation of the things you have done for them, you will find yourself done for them, you will find yourself
more than repald for the tlme and more than repali
moeey expeuded.
In the evenings $t t$ would make home much more attractive it there were some form of musle and an open fire, for no two thinga tend to draw the family circle into doser comradeshlp than these. Unity, harmony and peace are daveloped-linings essential to every home. Tell stories or read to your children-make tholr interests yours, and to a certain extent your nterests and problems theirs. Fit them as nearly as posolble for the Hfe they will have to live in their turn, and the grestest heritage you can leave them is that of a happy, contented cbilldhood, full of tender memorles of comradeshtp and true inter-
est in all that concerns each individual.

## A Satisfactory Rearrangement

 (Oontinued trom page \$4.)tamily (myselt included, I fear), to plle as many artioles of elothing as possible on one hook. When dressing in a hurry it was very ensy to egrelesaly hang a heavy akirt over a stieer blouse, to the detriment of the thouse in question. At times, too, When golng to the Glothes oloset we would find that'a heary coat or sikirt had been fung up hastily and haa fallen to the floor. Then we introduced this Idea:
Ordinary curtain poles were se cured. We attached brackets to the end walle of the closets and ran one of these poles the full length of each eloset. We invested in a number of coat and dress hangers, and it is the easiest thing in the world to hook these hangers over the pole. An advantage, too, is that hangers can be pushed back out of the way when seleoting a garment to wear. Several blouses may easlly be hung on one hanger without creasing. In fact, they will remain as fresh looking as when they coma from the ironing board, untll we wish to wear them.

Above the hooks on the side walle of the closets we put up shelves, which come in very handy for boxee of different kinds. Just here 1 might add that we also put up a few thelven In our oetlarway under the beck stairs, and find them most useful for holding many things that are needed frequenty, but whteh cannot be kept in the kitehen or pantry.
1 am nlwaye on the tookout for new ideas for simplifying work and mak, ing things more comfortable, and would be glad to hear from some of the other Clab members who have uptodate saggeations to prodace."Aunt Fonsie."


Going to Decorate?
If you are going to "do" the dining-room or the bedroom, or even the kitchen, this spring, you need this book. It illustrates in photogravure, in colors, rooms dpne with Alabastine. It contains suggestions and ideas for color schemes, and it shows how you can do the work yourself.

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$A^{s}$ the seareson of the sresses the dominant be the voluminous skirt with hor quickly and are srow out of them ontal trimmings, slbow aleeves in the cultes at that age. They, of cour their end bodicos; athor, ospo-like flchus on the , as are the srows to have pretty ifyiea poplin. In fact, gtyles fusckets of ailk or with can be made in two model heremuch Hike we would find if wow are very witheut the pointed sections. The whith or look through the old family photore to effect in alishlly different to the me belt abum. For drouses one seen tunfe of ity, the dreas being slashed the majorfocts and plain skirts, flounces, rufile and the belt run through. Ft the sides
and draperies. Trimmed sleeves sian 8 and 10 year. and drapariea. Trimmed sleeves, aro also mere in favor this season than usual, and of -uutton offect, or puffil fat the the leg. eibow of wrist. We believe, too, that a oposiderable number of whort sleoves will be worn once the Farm wroaher sets 1 m . sttractive suit for manal boys is suit. An berowith, A slfcht ohange in the sp. penrance of the front is efiven in the apfurtened over to the right, the portion over the right front as a sort of taimming. Cut in four sizes: 2, 3, of teim- 4 and 5 mists- Lady'a. Nightdrees. No doubt many of Our Folis have invested in cont the whitewear, If any hiave boen makine for a neat nifghtdrese pattern, why not make use of the deolkn here shown? or if destred, can be uttived for s gown, pinin gimment, Cut in three aises: avinati, 139 and lagre. are planning to make. These of us whe are panning to make a nioe new kifinona with. It one prefers a short ireserear the bill eombing jacloot this moded will retty fowernd liny well. Some of the ery attractive mado up in would. be throe dien: mali, medtum and large. 169. Oht's One-Pinct Dresa Yous Young


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regtered.. .85 c and 1.00 $\mathrm{Amera}. \mathrm{~m}^{2}$ Oats ..... 2.00 Amerlcan Banner
(Regirtemd) fin sonled bags of in" but Americsn Banner Biberian Oats ............... 8 O.A.C No, 21 Barley. 8 O.A.C. No ${ }^{21}$ Barley, un- 1.40
rostatered Margula Spring Wheat. 1.65 Red Fyfe
colden Vine Peas, 215 is : 21 Can. Besuty Peas, 2.15 e 2.40 Darly Britain Peas $\ldots . .250$
Pruastan Pine Blaok-Eye Marnowfat . 218 Spring Rye Rape (Dwart Fasex) Ib. 10 e 1,000 headed Kale, lb... . 22 Borghum, per $100 \mathrm{lbs}, 5.00$

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tings, silage, ground grain tings, silage, ground g.
feed, etc., are supplied.
 rua easily in light airs and are regulkted for hish winds. Ouplity of materialm and
 eselusive principles of construction make TOS


Stable Fittings. We have one Bred hea in our TOR JNTO


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## The Makers' Corner

Butter and Cheese Makers are in-
vited to send contributions to this vited to send contributions to this
department, to aak questions on department, to ask questions on
matters relatine to chaese making. and to suggest subjects. for disocus.

Fat Makes the Casein Valuable

WA. ANDERSON, proprletor of the Keene tactory, Peterboro - county, when fintervlewed by a representative of Farm and Dalry, regarding paying for milk on a quab ity basis, stated that he had been paying on the straight fat basis for patron who te pald on his opinlon, the patron who ta. pald on thls basis, does not get hurt. The value of milk," sald Mr. Anderson, "depends on the fat it contains, for it takes the fat to make the caseln valuable. There is no doubt but that the fellow with the four per cent, milk is helping the three per cent, man out. When 1 was in British Columbla, 1 conducted some experimental work 4 n whlch 1 shewed the factory owner that it pald to buy rich mills as well as poor.
"Hut if you are going to pay for milk according to test," continued Mr, Anderson, "you need a good man in the factory. The testing of milk is a serious matter when the cash the pat-


A Desirable Cream Cooling Tank. There is aleo a compertment for the bousewife. Tht compariment for the is fitigned for
the flow of cold well or mpring wate the how of cold well or mpring woter eround the cans, Aditional room would

ron gets depends on It It is a good deal easier to get a good maker than It is to get a good tester. The market brings a man up on the making. but in mey opinion the work of the man making the test should be inspected. There is not so very much danger of suspleion arising in the patron's misel regarding the tecurtcy of the test. The average patron will not look into the matter critieally enough to become suaplolous,
"From experience in making about 100 tons a year, I liave found that about 2.6 lbs, of cheese is made from milk containing one pound of butter fat. Ote thing I have notieed is that In spite of the faet that I have been paying for millk on a stralght fat basis, the percentage of fat in the milk recefved at my factory has low ered during the tast fow years. This shows that this general condltion is not all to be blamed on the poeling not all to be biamed on the pooing
system. The amount of milk a cow system. The amount of milk a cow
gives is more obvious to the farmer than the cunality of it, with the remtlt that he wIII lieep the calves of his best milkers, the tendency belng for the percentage of fat in the mill to decresse. The quality basis would have been adopted rears ago if it hadn't been for the controversies of dalry authorities ovar the different dairy authorities ovar the difrerent
systems. This disagreement left the systems. This disagreement left the to adopt, with the result that the ofd peeling mystem whe largely adhered peel

3
 from a Bone Spavin, RIng Bone Splint, Curb, side Bone, or simila trouble and gets horse going sound. Does not blister or remove the hair and horie can be worked. Paro 17 in pamphlet with each botte tell. how. \$8.00 a botile delivered. Horse Book 9 K Iree.
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rellable firm can do-and then reliable
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 thencilien Tokoroc, ont


## Paying for Milk on a Quality Basis

Hon. Jas. Duff States. That Export Trade Will Demand Greater Uniformity of Dairy Products. This Can Best be Attained by Regulation
The following is a report, of the the butter fat content or of the buts
 the Ontario Legislature, in presenting two is a well-known factor in the

content of casein, and it is held by some that it sives a talrer teat of by
ET me explain the altuation and value of millk than simply usting the
$\square$ ericese factories. in regard to butter fat tost alone, These alternaunderstood that at the prosent time gard them as pertect but hecene re90 per cent. of all the milk which is thard them as pertect, but because we delivered at the 2,000 chesese factories and workible. mensurably practical thiroughout the province, is pula for on the pats mown as the "poollag sestem" This meuns that all the very . I think that all this may be mill fo mixed together and anf the very sately said, I am not underee iv. and each producer and averaged tame rate per 100 lbs, frome the the tory as every other producer dollven $\operatorname{lng}$ at that factory. Under thls ans rangement there is no reward tor the man, who through earefui breading and feeding, has beem able to produce millk of four per cent. butter fat as agninat the man who hace only prom diced at the rate of three per cent. or cortielized and even denounced.

## Too Many Alternatives.

Why is this the cass, it may be askcarnized is recognized, as it is re. cognized, that the value of millik for
elieesemaking tepends practicalty of. cheeesemaking depends practicalify al
together on its content of butter fat and caseln, why mould milk not be paid for on this basis?
If the first place, the answer is found in the vers number of alterna.
tives sumbeate tives suggosted. One expert would
adrocate that millk should on the basls of its fat and its cat for as determined by actuat test other expert would argue that the dirifioulty in making the caseln teat rondered this timpracticable caseln test the basis should be slimply the fat content, which couid be arrived at more readilly, stili be another would argue that fat plus the factor two shoonld be the baske and others hold that is easeln ealculated ond casein, nireel table, shoould be adopted a reco nized table, should be adopted
While the experts
While the experts thus differed; nothing very definte was done, but. In the anstern section of the provthee, ${ }^{7}$ chese factorles adopted the sy\% tem, of paying by test, and in the west, 22 .

timating that there are still many aificultios th the way of earrying out the new arrangements. The priction and thabits which have been deveron. ed througlo many yeara, cannot telop. tirely altered th a moment and be enb of the cheese factories are not many ped with even Babeocld not equip. many of the makers are tot and cualifited to make thise not fully present time. This memse that at the sideralle amonnt of means that a considerable amount of education would have to be carrind out in the cheess
factories as well factories as welf as among the pro-
ducers before fis underatood or this would be generally underatood or workable. Hence it le. provided that the Act shall yot go into effeet beftre the 1st of Aprili, 1917, so that the offlcers of the de: partment may atilitise the coming datry season to carry on the necosangry educatlonal and demonstration work. It may be I am even then underis. timating the length of time which will be required for this purpose, but If It can be shown that furtier but is needed, evey consideratlon thill givem to the matter of a further be tension.

Qreat Inorease. Noted.
Permit me to add then a word as to the Importance of the dalry indus ry in thls province. The past season, suecesarfal serson fin, was the most the dalry industry in Ontario. Per hape a few figures might ontario. Per terest. There are in Fhatern Ontario 847 chaese factorles Eastern Ontario 847 chaese factorles. At these there vas delfvered between May and November $1,927,000.000 \mathrm{lbs}$, of millr, an
Inereate of $85,000.000$ ibur previons of $85,000,000 \mathrm{lbs}$, over the prevfous year. This was dellvered of the bill. It provid the provisions 11,112 patrons. Western Ontarlo of must be paid tor on either a basis of course, leads in regard to buttermals-
ingere are fo the western coun-

Hes 185 creameries and 40 aream ahipplog stations at which eream is deIvered by 39,633 patrons. In Fantern Ontario there are 98 creameries, with 4,828 patrons. Thus we have 40,710 farmers who are produolng millik for eheese factortes and 87,061 who are proesueing cream for 37,261 who are producing oream for oreameries, a total of 77,070 engaged in the dairy
Industry, aside from the many other Industry, aside from the many other thousands who are producing millk for buman consumption fa the oltien and towns of the province.

Must Look to Exports.
Under these ciroumstances, I think all will agree with me that any legis lation deathy with this important subJect is worthy of our best consideration. This is especially important at this time because the dairy industry, Hke so many other industries and or ganisations, has been very materially every prospect that the conditions af-
they have been be different to what war is over, I think we should take ing the past season. High prices fop in recent years been catering vave every reasonable step to prepare to beef cattle and hogs have made largely to the home market, and the me foreseen. circumstances as they can ghortage in the number on hand home marke home market, and the be foreseen. home market has showa increased demands, which have resulted in a decrease in export. This home market will always be our most important market, but I am Inclined to thluk that after the war is over, as well as deuring the war, we will have to look to the export market more than we have done In the recent past. Why do I any thla? Simply because we have found a manket in the construction camps, whioh for the time belng at least, have very largely diminished, and also in the cities and towns of catered to more and which will be estered to more and more by the western farmers as mixed farming is developed In these provinces. Under these conditions then, which will have to be faced more acutely after the

## April Crop Bulletin

$\qquad$ 30 ed under to information collectthe under cate of April 12, by Agriculture, from a large staff of correspondents, fall wheat and clover have come through the winter in good shape. There has been but little injury from hesving, and prospects. for good crops are bright. Alfalfa is also stock have well. All kinds of live form of indigestion, said to be the re sult of eating musty grain, hay and straw fodder, has been prevalent amongst cattle. Dairy cattle are rather thin in flesh owing to the heavy

The winter hes not been a trying ope to fruit trees, the greatest damaze resulting from the straling of young trees by mice and rabbits, driven to hunger by the deep snow, lying so long. The general outlook for all classes of fruit is favorable, apple buds giving better promise than for years.
The reports show the heavy drain on farm labor as a result of enlistment and the enticing wages paid by factories to munition workers. Sev. eral correspondents state that in each cases there is only one man on that on such farms there is say about one out of five that has a only man left on it. Wages are higher than ever, ranging from $\$ 30$ to $\$ 40 \mathrm{a}$
month, and even higher in some cases.


## From Fair Grades to Good Pure Breds <br> A Record of Progress in the Herd of Jacob Leuszler \& Sonis FWW weeks ago, a Farm and a two-yent id, to 29811 a

ADairy representative spent a year-old Holstela grade, this a latter be. elr Oxford county farm. Natur ing our first biack kind while cow.
ally, talk hinged around the dairy cow, herd and bousht all pure our grade ard particularly the Helstein cow. We steins. We have made pure bred Holfound that Mr. Leusaler had made b's since, but in molte of all bad judstanent start in dairying with an ordinary fallure and mistakes, we think we are grade herd; not Holstefn grades, but very much nearer a herd with a 14.000 Durham grades, with a sprinkling of pound average with our pure breds, Ayrethre and Holstein blood. This than we were a 7,000 pound average replaced by pure bred animals, until with our grades. Naturally, we take replaced by pure bred animals, until better care of our cows, and this can productive pure bred herd a splendld be traced direetly to the cow testing productive pure bred herd of Hol hasocatiou. Each succeeding year
steina. We requested Mr. Ieuasler to we have trind to steins. We requested Mr. Leassler to we have tried to do bether. Our cows
send us a story of his herd Improve- are practically all entered in the Rea ment work. He promised to do so, ord of Performance, and in the Rec- 1915 they
and has since proved as good as his produced milk as follows: word. Here is Me. Leuszler's story as tohd by himself:
"We entabilished:
"We eatablished our pure bred herd
and got rid of our grades in 1910 . grade herd then had a local rept ation of being a zood one. In that herd we hind two pure bred Holstetns. They are of the kind we would quitikly dtro rard now, buk for pront they stood stefn that convinced mo first that I was on the wrong track in siticking to the milking Shorthopns. I purchased my miting shorthopse. I purchased my
first grade. Holstein as a helfet riting ltrst grade Hostein as a helfor riting
two years, because I got her for little two years, because I got her for Hitte
money, intending to keep her for one year and then discard her by selling her to the butcher; we had her five years, and tnatead of cetiling rid of stelns, and in 1910 we had but three Durhams, two pare bred Holsteinis, such as beginners buy and the wiser
ones awold, five wefl bred Ayrshires ones avold, five wefl bred Ayrshirea
and eight grade Holsteing. The Durham a Fallur
"The first grade Holstein as a twoyearold, we thought, dtd as much for ns as our best Durham. Then we Fois organized the association, which before the year wan over, we were long vinced that as a millker the Durham was a hopeless fatlure. We started to that in 1910 the mill produetion result berd went all the way from 4,030 our herd went all the way from $4,030 \mathrm{lbs}$,
from an Ayrshire-Jersey cross, to 7,150 lbe., from as pure bred Holmein, and the lis, from a pure bred Holotein, and the
fat records varied from 105 lbs , from

## My Experience in Alfalfa Surgery yoars. 14,000 lba during the next few <br> Gustus.

T.plunge a spring-tooth cultivator men the growth has attatned helght of sfx Inches, is a surgical operation that requires considerable nerve and determination. The frlends of alfalfa in Cunada are now almost leglon, but how few of them would not sight of a sprlngtooth cultivator, sink. ing its tiny little shovels into such a sacred field, to all Intents and purposes tearing out everything growing culture, such violent trostment will no doubs seem little shart of crlminal and he will prebably conelete that, the resplt is a dead air conciuce that and all. is a dead alfalfa fleld, roots d all
Let Us Listen to Sclence, Please.
Alfalfa success is by no means accomplished by a go-as-you-please, hil-or-miss method, and anyone pursuing that course, indifferent to the light Science has recently thrown upon the plant's culture, is quite eertain to meet dieappointment sooner or later. of charged up against the plant as heing too tender for oar climatie condisiont whereas it is pasitively eertain that, given hardy strains of elfolf that, ellmate and eolle ere of sifllata, our fts soocessfol emlture, well adapted to planted in non-irrigable innds. Certain conditions may reguire the
srower of alfalfa to adminiater rather evere treatment to his delds. Such treatment may be term al Alfalfa Surgery. If the surface $r$, an established alfalfa fleld become, hard and compact, because of a ly ck of moisture, or for any other reaw n , acience informs terially such a condition tends to materially retard the Erowth of the plants, If renders it Imposaible for the IIttle bacteria to gather their food atmospheric nitrogen, hence they soon disappear and the growth of the alfath is quickly checked. It was in this condition the writer found one of his pretty alfalfa flelds last spring. Much of the field, which comprises about twenty acres, was ao dry and hard that flasures had formed in the earth so large that a lead penell could be drep ped into. them. Last year this flel yielded two cuttings of as fine fodder bs can be seen anywhere. At thedime of harveeting the first erop thetime little weed of the sare family, as well ns a few small tufts of fine, as well grase, made their debut into the consecrated field. The weed did not ronduce the value of the luxariant re except that it could not be sold ap, pure No, 1 alfalfo. After bulting at flrat erop, the sage-llie woed ceased to make further growth during the sen ton, but-thls spring it asaln made ite appearans? disputing the pre-
(Continued on page 84)

27 months Two othens were millced, but were not ontered in the R.O.P. as they were helfor, condition. One, a 25 months old hetfor, had a very large calf: she whi week, to stand on her feet for nearly tackle for e. we ralsed ther with as she would have made a better erred, ing than some of the otherter show ang than some of the others we had that had sore foet (foot an old cow time, had twins and aino rot) for some sfterblrth. We reoogninetained her are no world are no world records in this showing, but they did not get world reeord at tentlon; in fact, I know of grade dairy herds getting as good attention. Apother handicap on the herd this year is that we changed from hand to mechanical milking during the year. We have every raason in bellevlag that this herd will ralse tts average to close

## $\begin{array}{ccc}\text { No. } 1 & \text { Lbs, millk. } & \text { Age. } \\ \text { No. } 2 & 3,111.5 & 11 / 2 \text { years } \\ \text { No. } & 7,389.4 & 20 \text { monthe }\end{array}$ 20 monthe 35 months 38 months 6 years 26 month 26 months 28 months 28 month 35 month 6 years 36 month 5 years 24 months $3,111.5$ $7,389.4$ $13,879.4$ 8.316 .7 $14,458.9$ $10,178.8$ $6,896.3$ 9.117 9,597 7,972.4 $12,347.9$ $10,464.2$ 8,108

 s e
 and happy by epraying them with Creonoid, elean spray my joosts rognlarly. It is the most economical and effective animal antincptio I have ever seen, and I've tried them all. All you have to do is spray your stock once or twice and their peats will go away, leaving your hens, cows, pigs and horses healthy and happy. Besure to foltow direo tions earefully. There are many other valuable uses for Croonoid and you had better ank them to send you their booklet on the subject. Don't delay when the solution of your problem is so easy. "T USED to help the Farm Machinery Company pay Paint. You see metal seldom wrars ont; it rusts Mastic Everjet positively prevents rust. It never peels, scales or cracks. There is more merit in Everjet than I can tell rout of. Everjet fs espectitly recommended for use on ing eapacity. Protect your roofs and machinery with

 Creosote Oil oil Test home hown hatet it in the beat wood pre and lasts longer than any other. You can't beat creosote for insuring the life of the wood. Barrett's is the best creosote
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These breeders guarantee that the calves they supply will be big, strong, typy fellows of good breeding and from high producing cows. Their breeding is guaranteed and pedigree papers will be furntshed with each one. They will be a credit to the breed and eligible for registration. These breeders have been supplying. ys in.the past and we vouch for their reliability.


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This is an opportunity for you to get a start as a breeder of purebred live stock. To become a breeder will add zest to all your farming operntions. The best farmers keep pure-bred live stock. If you want to become one of the leading farmers in your distriet you must get into pure live stock breeding. You will find it intensely interesting and profitable as well. Begin by winning one of these excellent calves. You can secture one by sending us a club of

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at $\$ 1.00$ each. Write to-day for fult information, Iterature and supplies. You will be surprised to llnd how easy it is to win one of these calves.

We have also made arrangements with several well-known swine breeders to supply $4 s$ with

## $\underset{\text { EIEX }}{\text { EITER }}$ Pure Bred Pigs ${ }^{\text {anRy }}$ <br> Ot all our premiums, these have proved to be the most popular

 with-our boy readers.' If you want to secure one of these plga just plek out the breed you prefer and write for full particulars. As soon as you win one, we will order him for you from a rellable breeder who will ship direct, sending the pedigree papers. Within a few months you will have a full grown pure bred pig that will be a source of constant revenue.

Scores of our boy readers have secured pigs from us, and the letters which they write indicate to us how popular these Premiums are, Here is what one of them says: "Just a line to let you know that 1 received my pure-bred Berkahire Sow, and that I am well pleased with her. She is indeed an excellent pig." Another writes: "I am well pleased with the pig, and am sure that he is getting along well. Those who have seen him say he is a dandy, and wish they had one like him." For only

## NINE NEW SUBSCRIBERS

we will send a pure-bred pig, elther sex, and of any of the common breeds. Write to-day for full particulars.

CIRCULATION DEPARTMENT Farm \& Dairy Peterboro, Ont.

## HORTICULTURE

Clean Potatoes for Seed

## W. A. MoCubbin,

Dominion Field Laboratory of Plant Pathology, St. Catharines, Ont.

BEGINNING with the seed we may summarize the various operations that might be used to grow a clean crop of potatoes, either for seed or otherwise.
(1) Pick over the seed, discarding tubers which show dry rot, purplish discolorations (these are likely to be dormant late blight), seab and other suspicious features.
(2) Soak the seed in corrosive sublimate, one pound in 200 gallons of water, for three hours. spread out
to dry, and when dry cut up into sets. This treatment frees the tubers from seab, rhizoctonia, dry rot spores,
(3) In eutting sets firat take a slice off the stem end. Witt and blackleg will show here as discolorations, and these diseases can be practically all
(4) Plant in this stage of the work.
(4) Plant in as clean a soll as possible, preferably an acld soll that has had no potatoes in it for several
years; where possible use commercial years; where possible use commercial
fertilizers instead of barnyard fertilizers
manure.
(5) Spray well three or four times with Bordeaux mixture, beginning about the first of July. This will protect from early and late blights.
(6) "Rouge" the field during $t$ summer at least once, and preferably. twice. This is usually done in any case to eliminate plants of other varieties, and this work may be ex. tended to include the removal of all cases of leaf roll, curly dwart, blackleg, mosaic, and spindling sprout.
(7) For formulas and detalled instructions regarding the sprays and chemicals to be used consult the bulletins of the Central Experimental Farm, Ottawa, and those of the Ontario Agricultural College, Guelph.
We in Ontario are as yet remarkably free from a great number of diseases of the potato that are serlons in other parts of the world, and it should be our aim to keep free from them rather than be compelled later on to adopt costly and complicated methods for their control.

## Flowers Easily Grown

Thos. Jackson, M.A.L., Winnipeg.

IF thore is one tlower above all olhers that finds favor with the lover of thowers, it is the sweet pea.
The place that I would suggest to sow eweet peas would be along the fence, if there is one. Any place in the back ground if it is in a good opon position, where they will get
lots of sunlight will do, because they will grow ive or six feet in helght. Draw out your trench two or three inches deep with the hoe. Do not sow too thickly, and cover them up with about an inoh of soll firmly packed. When the seeds have grown about three Inches above the soil it is time to put in something for them to elfmb up. Nothing beats brumh, eut out of the bush about the height the pens will tikely grow. Get a mixture of sweet pea seed, It you ouly have a short row, so you may have in that row a great variety of color. No flower gives so much cut bloom at so iltile cost and trouble as the sweet реа.

## Mignonette.

The beat place for mignonette ts around the outer edge of the flower bed or aloag the front of a border. Wherever the place may be, have it Well to the front, as it does not grow
very tall. Mignomette seed requires
only to be covered to a ellight depth. say about one-elghth of an inoh, bay. ing the soll covering the seed pressed firmly down. It is important to thin them out early and severely, for one plant left alone will cover a aquare foot of ground. Mignonette does not trans.
plant well. plant well.

## Dwarf Nasturtium.

Dwart nasturtums also should sown well to the front of the bed border, as they only attain aboul foot in height. We get best resul with nasturtiums on poor soll; that 6. we get more bloom than whi planted in rich soil, where they liable to grow more into follage. er the seeds with about one inch Cll firmily packed.
Climbing nasturtiums should $r$ ated in much the same way as dwart varieties, but should be placi in a different position. If you happen to have some old tree roots, pile them ap together and sow the nasturtiums. all around them, and you will be gu prised to see how soon they will cov them, and give you a great diaplay lowers. If you have 4 tny foose B ying about the place, plie them u heap togeliter, and they will have the same effeot on them. unsightly fence or object may be verted into a beauty spot by the of nasturtiums.

Sweet Alyssum.
Thera are two thlads of sweet sum, the tall and the dwarf, the ter being the better, especially if ant it to grow around the ext dge of your flower bed. It grows about three inches in height very dense, with one mass of flowers. Cover the seeds to a slight depth; one-elghth of an luch is about right.

The Growing of Timber

FEW eity parks afford such a beant fal walk as one may take on the farm of F. L. Green, Ontario Co Ont. Mr. Green is a bellever in trees "It all farmers were as cautious about cutting down a tree as 1 am, " he marked to an editor of Farm and Dair who called on him laat spring. "thery would be more beauty spots, on our farms."

The editor being of a practical turn of mind asked, "Does It pay?"
"It pays in satisfaction," answered Mr. Green, "and we-have two addltional profts besides. Standing timber ias always increaslug in value, first by its growth and secondly by the itcrease in prices that we must pay for timber. I believe that these twa profits are sumficient to pay the rent of the land.
As a result of his belief and hls prac. tice, Mr. Green has a park right on his
own farm.

## Why Not Evergrmens?

$E$ Vicragreazas for ornimental purposes and shelter beht thave bee. mady meglected in Dlaring around farm homes; and yet there is hot a farm home anywhere that could mot be made more attractive and more comfortable by the fudiclous best teit of a few evergreens. The best test of the evergreen comes on the cold winter day, when the frees. ing winds tear through the brancties of declduous trees until they come to 1 eudden halt at the ahelter belt of well grown cedar or spruce.
Deciduous trees are more showy summer. The evergreen is decidediy more cozy and comfortable th wintar, both physically and aestietically. The evergreen is easy to grow, and now is the time to plant it. All that is necensary once they are planted is to keep away from them until they have attained a good size. In planting a few for beauty, add a good shal. er belt to the west or north, reduce the coal billi, and make chores more comfortable,- E. E.

## PREMER PERFECT SILO

## "Perfect" in every detail



Build Your Silo Now and use it for your Lucerne Clover in ense of a wet season, as well as for your corn crop later. Send for our catalogue "D" giving reasons why the Premier THE PREMEI GRELM SEPABATOR CO. 659 King St. West, Toronto, Ont.
The Dawson Ditch Digger


CIMADIAN DRILL \& CHUCK CO., Limited
180 P Spadina Ave., Toronto


AScientific Soil Feeding the crops remove fertility from
tall somen clover talta, which are heavy feeders inke clover, can gather nitrongumes, the air by meanither of orgaitronens from nodulos on theesns of orgaisisms in
nots; but this fixed
nitroogn it nitrogen is removed to the hay, and
no facrease thereto no fincrease, theretore, is made fin the
soll. When soil. When the hay to fed and the
manure is well cared to manure is well cared for and returned to the soll, the uitrogen gathered from, the air is brought back, but onis about 60 per cent- of it; the rest
in lost in feedlng trangaction fra lost in feeding transaction. Feed
Ing large amounts of clover and al. falta hay, therefore, will Increase the nitrogen coatent of the soll on the farm. The phosphofus content can
never be increased never be increased of mantalined by
growing crops, feding them, and turning tho manure. In the feeding transaction there is approximately ${ }^{20}$ per cent, loss of this element. Lut. care is glven the manare beet of straw is used for bedding.
The soll may be given its nitrogen and humus through the growing and feeding of legumes, Any feeds purphorus that is lont must the phos: by purchase, elther through replaced by purchase, either through commer olal fertilizer or feeds Hke bran or cotton-seed meal, Approximately 27 pounds of phosphorus is removed by a 50 -bustiel corn, a 30 -bushel ont, and
a two-ton clover crop in a three-year rotation. Ten tons of manure will
Tol rotation. Ten tons of manure will
returat approximately 20 pounds. The deficlency may be made up by adding about 50 poands of rock phosphate or $\mathbf{1 0 0}$ poinds of acla phosphate, or ty feeding one-third of It torl of bran or cotton-seed meal during the pro-
ducton of these ten ducton of these ten tons of manure. It is good business to keep acfider the losies and gains of fertility on the farm. The basts of good crops is fertile soll, and a fertile soll is dependent largely upon good stoek of humus and a good eupply of avallable plant-food elemonts it contalns.

## Cisten Pointers

ANEAR nelehbor is having trouble
With
nis
cistern with his eistern. The whiter unpleasant to wronounced odor. It is and unfit for household use. As our cistern has atways given the best of satiafaction, Ways siven the best of satisfaction,
thls nelphibor asked me to go over and this nelpthbor asked me to go over and
inspect hls and tell him what was wrong. I found that two points explained the bad quality of water from his eletern. In the flrst place, the water was not filtered Into the olstom. and there was no ventilation for the aurface of the water. I have heard the cistern filter objected to on the grounds that it may become clogged with dirt and actually fonl pure rain water that goes through it. For my own part, I would just ns leave mare the dirt in the fitter as in the cistern Itself. If the filter does become foul, however, it is due to the carelessness of the operator. My own fitter fs made of the operator, My own fllter is made
of alternate layers of chareoal and of aiternate layers of charcoal and
clean sand. Both materiala are cheap ciean sand. Both materials are cheap
and may be renewed so frequently that and may be renewed so frequently thar
there is absolutely no danger of foulthere is absolut
ing the water.

The construction of our filter is made plain by the sccompanying diagram. In the first place, the filter must be of large enough slize to let the rain water through as fast as it comes-off the roof, or there must be a recentacls above the filter large enough sto hold all the water that is apt to be brought to it at one time. It will be noticed that my filter is just an ordinary good flour barrel, set rieht on ton of the cistern. The outlet for the mater not in the bottom of the harrel, tout is elther side, ns there to barrel, but on impurities being carried out the side than direct down through the bottom.

ered with fine ser side are each coywill hold any ordinary coarse wand wide stavasht inches square, or two elght inches cut out for a space of half full of This barrel is filled only is large of charcoal and sand, and it about as rapldly to let water through small as rapidly as it comes from mail sized roof:

## Another successful filter that I have

seen is made by having the olstern larger than necessary to meet all the requirements of the family, and havini one end bricked off with rough, porgil brick, laid in with a very coare ce ment mixture. The water comes from the roof into the finst section of the clstern, and gradually seepa or the the briek wall into the seeps through where the pump is located. ally the bricks will have to occasionoff. This is an excellent be cleaned off. This is an excellent system of
filtration. Many.
cistern air tiemt operatons close the ing out insects. Whith the idea of keep there should always is a mistake, as over the surface of be a draft of ais over the surface of the water in the cistern to keep it pure. Insects may tains. If both the use of musha cur lins. if both flkration and ventila be alre andended to, cistern water wil be alive and sparkling and in a pinch good enough for drinking -C. pin

## Get a Frost \& Wood Mower

Hay -Time is Money Time on the Farm
Use a cranky,
wasteful out-of? Wasteful out-of date mower and you may throw away a whole

season's hay. These are the days for efficiency. Make a wise expenditure for a Frost \& Wood Mower, and you save in crop,
in horse flesh, in time, in money

## Frost and Wood Mower Cuts Any Crop

It won't fail you. It's a light draft machine. The splendid roller bearings and easily controlled levers eliminate friction and make it easy for a boy or girl to use. Immensely strong with heavy brass bushings where wear is greatest. Heavy high-carbon steel cutter bar can be set in a' second at any angle. Knife guards are high-grade tough malleable iron, The F. \& W. is a splendid, serviceable mower, always ready for hard work, even with "green" help.
Space prevents refer-
ence to the many polen. did features of the Frost did features of the Frost
\& Wood Mower, but the \& Wood Mower, but the
"Internal driving gear" as shown here must be mentioned. The driving gears are meshed on the inaide of the main drive -travel in same direc-

tlon-no tendency to fly apart, or to snap cogsno loosening or rattling of parts and connections, and the knives begin to cut at the first step of the horses. This means internal ge a r quicker work and longer
drive means big life to the ower. life to the machine.

## Frost and Wood Rakes



Because a Rake looks a simple machine to make don't put up with cheap, inferior workmanship-get a F. \& W. and save real money. Teeth of special quality, tempered Bteel, and arringed in convenient sections of two or three. Self-dumping, discharging load automatically at light pressure on foot
Built for Hard, Quick Work lever. Made of steel, amply strong, clean working, the F, \& W:Nake gives a lifetime of splendid service.


> Frost \& Wood Co. Limited Montreal Smith's Falls COCKSHUTT PLOW CO., Limited, Brantford, Ont.

> A Ford car bought part by part costs only $\$ 40$ more than the list price of the complete car as against $\$ 940$ more for the parts of the average car priced around $\$ 1000$ and less

$\$ 940$ - Cost, over and above the list price of the car itself, for enough spare parts to build the average touring car priced around $\$ 1000$ and less.
$\$ 40-$ Cost, over and above the list price of the car itself, for enough spare parts to build a Ford touring car complete.
$\$ 900$-Difference in part by part cost of cars.
And remember, both by laboratory tests and actual service tests, the parts of a Ford car have proved themselves superior, part by part, to those of any other car.
Don't these figures drive home-what is meant by the low upkeep cost of the Ford?


## MAKE YOUR BIKE A MOTORCYCLE <br> 

ATTRACTIVE DINING CAR SERvice.
Probably nothing helps more to make a rallway fourney really enjoy. able than a visit to the "Dining Car," especially if It be a Canadian Pacifle D.nlng Car, where the passenger is Dining Car, where the passenger is
assured of the highest form of efficiussured of the highest form of efficieney in the oulinary art, the cholcest provisions the market affords, prepared on the scientific princlple known as "Dietetic Blending."
Your favorite dish, as you like it, may be enjoyed at reasonable cost, amidst ideal Burroundings, while travelling on the Canadian Pacifie.


## My Experience in Alfalfa Surgery

 (Continued from page 31.)
## emptive right of the alfalfa over cer- <br> goes without saying that I was over-

 tain small areas. The second crop last autumn was pure alfalfa, so well cured, rich and green in color, that it seemed almont fit for human consumption.Cultivate, Aerate and Exterminate.
Observing that the Hittle sage weed, Which botanists say belongs to the Lablatae family, presented Itself again last spring, its extermination was quickly and definitety decided upan. Owing to the hardness of the field's surface and the-fact that the little weed had come through the winter and again whahed to "fle on the land," It was decided to give the whole field radical treatment, and, knowing the effectiveness of the Massey-Harris thousands of others doubtless conative one of the best implements for ise one of the best implements for use which to do the double fob: and with which to do the double job; and It did
it to porfection. as will be seen later. It to parfection. aa will be seen later.

## His Nerve Falled Him,

When the hour for performance struck, the nerve of the man to whom the work of cultivating the fleld had been asalgned suddenily failed him and with husky volce he haid: "To Ifalfa cuitivator into that beautiful and if you will only excuse me from doing the job, I am more thas willing to do ayything else about the plece: 1 Just can't stand to see that alfaika torn out, because it almost makes me torn out, because it almost makes me
feel as if there Httle atoel teoth were feel as if those ifter steel teath ware
tearing my heart out, and I can't stand tearing my heart out, and I can't stand
the sight of anything like that." So, rather than have a valued man go on etrike, I mounted the seventeen-shovel culfivator, lowared the lever and permitted the Hittle shovels to sink into the earth as deeply as they would,
from the weisht and pressure of their from the weight and pressure of their springs and frames, which was more than four inches, I am sure.
Right here it is proper to explain that thle cultivator had been in use on my farm during several seasone, doing work of most excellent guality, but never before had It been used in an alfalfa field. Throngh rather severe usage in ground which was not wholly free from stone and gravet, its little shovels had become quite blunt, the points and corners having been worn off to such an extent that they could not possibly damage the alfalfa. Then, too, the action of the eprings enthbled the little steel blades to slip by the roots of the plants without doing them the slighteat injury. Had the teeth of my cultivator been shars, as they are when new, my alfalfa would have. been torn to shreds, as my man implieltly belleved they would. Now, however, they were dull and blunt, devota of points and corners, hence they tore out the weeds, aerated the soil and cultivated the field to my entire satiafaction.
Everything But the Alfalfa Was Gone. The following day dawned bright and beautiful, yes, serenely bo. A light ahower had fallen like a benediction during the night, and, deapitte loud protests from faint-hearted frlends and protests from faint-hearted friends and
well-wishers, four sturdy horses were well-wishers, four sturdy horses were
again hitehed to the aforesaid cultiagain hitched to the aforenaid culti-
vator, and the work of the previous vator, and the work of the previous
day renwmed. "Ond-1p, thare, Tanny, day reswmed. "Gedtap, there, Panny,
Dick, Harry and Pete", and the Hitle Dick, Harry and Pete," and the little
steet shovels again sank deeply into steel shovels again sank deeply into
the innocent-looking alfaifa fleld, mer the innocent-looking alfalfa fleld, mer, cilessly tearing out the shallow-rooted Weeds and thy tufts of grass. This dentructlon (alfalfa aurgery I term It), Was as pletsing to me as was the sight of the luxuriant crop which fell over the mowerbar the prevlous year, I had not driven far on the second day When 1 diseovered that the portion of the field I had previously cultivated seemed much greener, stronger, and
huppier than ever before-cerisinly much more so than on the field I had mot yet "eurgeonized." Or course, it
joyed that my dear alfalfa had not been infured in the sllghtest way by the ordeal to which it had been subjected, but on the contrary, it had been much Improved, and its growth materially stimulated by the harah treatment administered to it. Not only did it appear to be thriftier and s. nonger, bat had evidently mate perceprble growth during the intervening cultivation, cruel as it secmeled. The cuitivation, cruel as it seemed at the
time, had done it a "world of goo" and everything in the fleld but the al. and everything in the field but the al
falfa was gone. My "surgeonizing" of the field was continued untll it had been gone over once, when I was so Well plensed with the reault that I arvas-cultivnted it also, this time sinking the shovels into the ground a little deeper. To make sure that every vee dige of grass and weeds should for aver be exterminated and cease to crowd and annoy my alfalfa, the whole leld was then treated to a harrowing he teeth of that implement being set to do thels most effective worl
My Alfalfa is now Growing Lustily. That my alfalla is now making very rapld growth goes without saying, the leld being put into pink condition. A this date (June 1st), the alfalfa stands knee high and is dark-green in color, whlch every lover of the plant knows to be the sign of a bumper erop of this world's best and most valuable fodder am fully convinced that cultivation of alfalfa flelds, at least under certaip conditions, is a most important factor in Its successfil production. It musi be borne in mind, however, that treatment so radient and effective is not to be undertaken until the plant is rell eatablished cortainly pot until fter embabished, certalnly not unt At such time the root system of the alant is so weil grounded that of the piant is 30 weil grounded that, given the proper implement to use, cultiva tion may be entered upon without fear or trembling. But it requires nerve
and good judgment, and an implement that will do it no harm. And such is the epringtooth cultivator, if its teeth are dull and blunk.

## CLOVER SEEDS <br> Government Standard

Na. 1 Red Clover 2 Red Clover .......... $\$ 16.00$
1 Aisike - 16.50

2 Alsike . 12.50
1 Alfalfa forthern 11.00 Grown) 16.00 This seed grades No. i for Purity)
8. Timothy ......... White Blossom Sweet
Clover ....... 5.00
$\qquad$ O.A.C. No. 72 Oats at..... $\$ 0.85$ Marquis spring Wheat at. 1.60 O.A.C. No, 21 Barley at

Terms-Cash with order. Bags extra at 25 c . each. On all orders East of Manitoba
$\$ 25.00$ $\$ 25.00$ or over we pay th freight.
We Guarantes Seeds to Satiafy or ahip back at our expense. Ask for Samples if necessary.

> Todd \& Cook Seed Me
> STOUFFVILLE
> ONT.

DYER at 1 t adatn
Get his special priees on

## Fence and Gates

Write
YER, "THE FENCE MAN" d7I Eaat Wollington St. Toronto, Ont.
steps. 13inch thoagh th "hories" the same crete. Play bottom of of the conc fnch boards which ar means of

## Construction of Permanent Cellar Steps and Hatchway

FARM AND DAIRY

ADasMP cellar under a dwelling line, outside forms must be provided
is frequently the unsumpected anso of many a onse of slole wet. Detore with concrote mashy a poony bullt entrms the aro placed (hends down and wets, both fault of a poony bullt entranco-way. ed) in the conds down and wasther If wier gains acoess by means of hoiding the wooden sills to which the leaky hatchway walia, the cellar be-collar doors are tinged. Attor two to comies urgmitary and the hoalh, of four disys the formsed. Attor two to perrll can be dispelled by makiong the and lay the landing fon to the tanding wills and steps of conorote.
The methods of bullding hatehways way eight cellar steps of the hateb-

 tireectoot landing at the bottom of helephtht of the foy feet. The corway in the cellar width of steps desired plus oie to toot wall is six feef six mohes. The lind. Thls extra widh is for ane foot ing at the foot of the steps is three thickness of conerete wall on each crete four and has a four-fnch conside. The steps themselves have a concrete fior. This same thickness of rise of six and a tread of nife involiea. The alde wall wider the steps proper. Bancath the steps proper is a four. The silde walls were bullt as desorib lino twickness of conicrote. Tharefors ithers above. For this improvement provide for this thlakness in iloping hernutere required the following the ground upward from the landing to the top of the stairk. Extand mg werches for the alde and end whe one foot below the conorete of the Crushed of materials:
Crusted rock, $31 / \mathrm{y}$ cuble yards; mand, in cuble yards; Portiand coment, 1 aga.
For Improving old cellar hatohwaya


Hatchway That May bermanent Concrete Cellar
Hatchway That May be Easily Construeted by Ordinary Farm Labor.
steps. As forms ehoose two one by it is trequently necesaary to fill with
12/noh hoards and notch them as though they were to be used a a earthen alope gravel 80 as to provide the "hories" to aupport wooden steps of Eurihen siope for the conerete steps. the same dimensions ta thome of oon ©uch ilaing must be thoroughly tampcrete. Place the notohod edses down ad into place and should be waterwith the ends fixed at the top and Boaked and allowed to sattle bofore bottom of the stairs. To the top and of the ooncrete steps, use ons by slse finch bourds three foet 10 inches by sfs: Which are secured to the forms long, Which are secured to the torms by
means of nails and wooden eleats Filling the steps.
Wich the forms dirmly fixed in pous. too, all the mold for the botiom step. nud the sprese beok of the with con. crete proportloned one bag of Port. hand coment to two cuble foot of naed to four oubto toet of cruahed rook. If buak grivel is used, mix the oonerote mo part cement to four parts ermvel. Briag the concrete tn each step to the top of the riser and Animh step to tace with merely a wooden font gurtinue the work upward until all the lues the work upward unthl all the
neps are finished. At the top of the thaps are fie the aptand. At the top of the tuars te the apron foundation to the slide walls by meane of old iron rode labeedded in the concrete mand extendmg around the cornors. This will pre-
vent possible hesyler in Yeat possible heaving mod cracking by The side forms of the stx faoh walle are then erected and are tharowetis crosebrased againat each other. For these forms use one inch alding or two by four inch studding spaced two foet apart. The walls can be carried to any helimht desirod so as to givi the eallar doors aufficient slope for ©hoading rain-water. Above eround the steps are built.
Coicrete steps, unlike other kinds, tecome stronger with age. They are parfeotly safe under the hesvient of wads. Moreover, besides belng water-tieht, they loeep ont rats, mice and other obnoxious vermin.

## An Ensilage Advocate

 D. R. Wiltee, Leede Ca, Ont.IChrTAANLY am in tavor of ensilfeminser for summer or winter thing ilige. Of counse there is no think tive grass to make mill, but 1 flaze when next best substitute is en. Ansere when the pastures are ahort in act ant and sopimber. A crop of rye the pastur in the silo and fod when rood eupplementary up is also a Of coursis the caty feed for cattle. teed ha well. For winust have other is nothing like the winter foeding there in nothing like the allo woll filled with
My sllo is a weoden sitacteoter.
4 by 24 feet his if ed atructure, 12 by build as ather theh. If 1 wero going to bund another sillo, I would proter a trouble with properly put up. The in face, is a poor fou, or any bullding in fact, is a poor foundation.

An annnal epring elean-up aroung he builaingn will supply kindiung to light the firse for many months.

## PEERLESS PERPICTIONbrow al y and more. Buik clone cnough to keep chickens in and

 NA, uprodatio Higt Omde THRIE CENTS A WORD, CASH WITH ORDER No Doctur or Hexw
 ment tincalich pade equip
 Cor FREE 1916 Gatiog ue,
 goem thpritee

 dor Dannobin Marme, Bravemoo

ANTED Eo hear trom owner of sood inrm for male. State owhip prioe wh Minn.
ANTED-To hear from owner of farm FWotre W. BOYD A SON,

$$
\begin{aligned}
& \text { CHOICE HOLSTEIN BULLS }
\end{aligned}
$$

$$
\begin{aligned}
& \text { IL8A CRAIG, ONT }
\end{aligned}
$$

## 20 <br> Hoad

DISPERSION SALE

## OF <br> PURE HOLSTEINS

## AT EMERY, MAY 31, 1916

The entire herd of high testing R.O.M. and R.O.P. Holsteins, the property of Wm. Sharkey, will be sold at public auction 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, 0nt.

## A- AUCTION SALE <br> -OFPure Beed MOLSTEIIS

3 MILES EAST OF TIILSONBURG, Wethestiay, May 10, 1116 AT T O'CLOCK
The offering comprises twenty-four head, inoluding nil the pure breds
G. B. Byan and the pure bred millkers of $R$. Mcoueong
 abscbutely without reserve. The fhrm in situated on Lot 18, Con. 2, N.T.R.,
Townahie of Middleten, County of Norfoik, one and one-halt milen weat of
Courtand, Courdand, three miles, Count of Tul Norfoith, one and one-halt milien woot of tion and Arlinirton hotel, TMMsonburg, on arnival of G.T.R. and C.P.R. noon
trains. Write for catalosue.

## G. B. Ryan

R. McQueen

Proprietors
Moore \& Dean, Auctioneers

LAKEVIEW STOCK FARM, BRONTE, ONI. Breater of pifh





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Only & bull culven veft They LAWNN HOLS TEINS
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petermoro, ont.
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## 2 CRESCENT RIDGE SIRES


 JACOB LEWZLER A SON,

KORNGOLD STOCK AND DAIRY FARM


## AYRSHIRES




## AYRSHIRE BULLS FOR SALE

monto bulk, bred fram Hobaland Bundes, owned by O.aA. C. Dam of dix
 H. R. EHRHARDT,

Youne bulls from R. O. P. dams. One ht for service,
salves. All from dems with sound udders and good teats. Write focember ing and price.

Elain Co.,

TANGLEWYLD AYRSHIRES

 for asae.
wemesus.

## Market Review and Forecast


#### Abstract

 much speculation as to the condition of Canadian Industry neter, the war. Ail tend to be optimintic. ©, James, who gave out an interview of his views on on biviculture afier the war Afrioulture netier the war perceivas no Ay in the ointment. All will be well with Canadis' farmern, war or no war. Others have apoken equaly or no war, otheorfulty for the industrial work. Tut the stoek morliet Is nervoua, However hiy buainess men may falk, they don't seem to be so mure tion orders cease, and are gauging hair buminess activities socontinty tum needs to be fiavorgd with cautioni, and thila is the proper attitude of the bualneas man. Markela generally nie stropp, Graine have advanced, hay is still higher, and hive atock $\frac{1}{2}$ roahing levels which exceed all expectations.

WHEAT. Lake navigution has now opened, and prices are mialn quoted for $W$ airm prioes are inein queted for W oitery wheat and onts on track at bay porte. There 40 iltule loonl demand for and onat on track at bay porte. There in ittie lood demand for wheat, and the ex- nortport market is dull Ontarlo farmers ex- moving yery Ittle of their grain to mire mowing very litle of their grain to mar- ket, ad they are now buay on the land. With hosw at sit, it is profhatle, too that  


R. R. 1, BRIGHT, ONT.

R, F
R. R. No. 6, GUELPH, ONT

## SUNNYSIDE AYRSHIRES

 imported and Home-Bred, Are of thechoicent breeding, of arood type and have choicent breeging, of aroid type and have
been melected for production THRege
Young Bull dropped this fall, Tirat by "Nether Hall doopd-ume this fail, wired by as well as a fow females of various ages,
for wale. Write or come for sale. Write or come and wiee d. W. LOQaN, Howlek station, P, Q.
froune in hotase).

## There has been GRAINS.

about one cent all round in coarme graini The alack delivery of Ontario Erains, due to work on the land, is in lariog meanure
aocountable for thla advannce. Oats,




 MILL FEEDS.
The hiah prioe of live stock inorsasas
tho large demand for mig feed, and tho tho large demand for mir feed, and tho
mills are nof turning ont enough to moet
this domand Bran, 524 ; ahorta, 8255 m madtingen, sise to
 guotes brin, $\$ 26$ to shorts, $\$ 80 ;$ moulies, $\$ 30$ to $\$ 35$; midatitusen, HAY AND STRAW.
Hay quotations have taken another ad-
vance, and thers fo a stendy domand for all reonipts. Dealora buy on trank and for lows: Buled hay, boat grade, $\$ 20$ to $\$ 3$,


POTATOES AND BEANS.
Tut Quotations are steady with those quoted potato marivet the sood-time rige In the thiat rioe does not always amaterinilize, but
when the crop in ahort, When the arop in ahort, potatese are, baut ary senree at needing times Ontarlo!
are now quated $\$ 1.10$ out of store, and
Delawaren $\$ 1.35$ to $\$ 2$; car fots, 1 bc Jens, Beans here are quouted, hapd-plcked,
$\$ 4.40$ to $\$ 4.50$; primes, $\$ 4$. EGGS AND POULTRY.
Ege quatations in the oountry now vary
from 20 e to 22 e , the higher figure saldom
 cartons) are quoted 24 e to 25 c ; and ex-
partona, 23 c to 24 c .

## Wholesalers are EelHin

## tm No No

dairy pminte, 25 c to 30 c ; and ordinary deiry
prints, 260 to 28 e . Conditions point
and the makts if alroady yood chease year wher aituation and in fome found aimost oy
had to to ins Whem to and in pome casos dalry herds have however, that cowis have been tranasoply from those who could not handle them othens who had a more smple mupply iabor, At Toronto, new tarse oheose a
9 groted 19 c to $191 / \mathrm{e}$, and twina 1914 c
191 c .

## LIVE sTOCK

rocord prediction made norne time an fat centile by June
in a furi wisen in a fair way to fulitment Quotation
baye advanoed steadily for thesd last frow
woeks, and this Woeks, and thie week has marked an adbecen larker than or more, The runa ha
the stopk offered wat, and mach the stoek offered was from, goad to ohiol quadty: Prekers' nepds, were Ilberal, an
the zards were readily olearod. Eome
lots of heovy

 Haavy choice steers follow
Handy Butchiers chatoe iteers do medium
Butohers cown, choice do good

## Bute common bults, cholce

do prod
do botor
do
Feoderion
do bulls to 1,000 ibi...
Stockers, chalce.. siog to 0.0
do good, 700 to 800 lhe
do medium, 850 to 700 HB . Out common, Hght

## Canners

For mellech has been a good stady to 4 or mifich cows. Ciolood 375 to

to sine and queilty, and bob calvee $\$ 12$
if to
Smadi meats are readily taken un at 11

 culin, 81 to $\$ 5.50$ and buck $\$ 7.50$ to $\$ 8.50$
Hoyge are the fenture of

 points, weleote have commanded $\$ 11$ t dows, 82.60 less
Lave Heock recelpta at Montren mot with a fatr deminn, farrly sood stev to 88 ; and bulls, it to $\$ 8.50$.
 pelocted lote being ame on the up smad

AYRSHIRE BREEDERS CLUB THE Becretary of the Canadian 1 ehire Breedors' Armocistion, the Ayrafiris freders in when, Que, he ford on Monday funtingion at, Hemming mingtord Ayraytre anganiwed the H Quite a large number of foreoder. graicht, to whom Secretary stephan ware promote mood fellowitl of the club wns eni and tood fellowhilp among the breodnhire breed of cattil fytervat of the rearinguas the berit methodis of meetinisu rearing, exhibiting and paining the etan cournse the entry of the broed;

public anles, sad to bring before the puot. merts of the dyrative breed.
Thase pregant decided to organise, and is poculutionly wasadoptod the Ayratire ox pantry, whily addepted to this seocion
 intty of fifty marnberts from th
of the County of Huntined Naplarville. This in the thind clu

## Fairmont Holsteins

King Young bults for male, all sons
Kinit Regis Aloartra Cojumity, the
famous mon of the $350,000,00$, Stre
One is about rendy for nerylos and
avery inch is show buil All from
overy inch a show bull. Ail from
tented Dams. Pitices, reanonable
and termams to puit purehanas, renable
A. R. No. 2

MItchell,' Ont.
ganined by Benvatary Blephen withis the
joing firy The follwhins, oflecte wowe aleotedi



 Thas A. Aewner, w. A, sowar, and-ot BALE DATES CLAIMED.
ful mio of MPdatelns at Avondile nirwi, Itrockillie, May if. Trowlifite inatitet Club, walo of Holmains
Oitroy
Alowition natery of

 nuine arit of Tilsontarg, Twenty-four find are inefluded in the sale. Mats Mym herd of Bir Herry Pellat. to thent of Toumpery, May 11 . The onlie herd of 50 heed goes under the hamDioparkni ambe of pare-bred Holsteins
ownen by Whi. Bharticy, Ilroery, Ont., on May tı by
 CumamNgy shmos. ( Ont, chapoued of $n$ nowi of $A y r$, tuit and hafaring twalls and heifors and
tat fair, prices on Aar gue, oftochiling. The Messra. Cum: mina were itwort of room and took toila ysy to dimpone of thatr mirphas. They hands of new brenders. The it youn in
 THE OMMSTOWN SPRING SHOW. T ${ }^{111}$ illirsotors of the Ormatown Sprint If ingw have let contronots for tive fond onaithleat for the coming dhow to he had on June t, $s$ and 9 . The fudpoe ap-
pointad by the covernient for this abow pow Wh. Gmaham, Claretnent, Ont. on havy lownal ilght horses, Dr, J. A Ame




OFFICIAL RECORDS OF HOLSTEIN
FRIESIAN
Mature Clas, over \&r the. Butter
 bettern mikg, 10.03 the. hat, 37.64 thas,
 mon Bomers, VHy fat, Novs illas butter. Ahh








$$
\begin{aligned}
& \text { Sr, Faur. Year Claces, Over 22 lbs. } \\
& \text { Phus Pontlac Artis 1079s, ty. } 10
\end{aligned}
$$

 $\frac{14}{}$-chatier. Foond: $4 y, 10 \mathrm{~m}$. 36 C . 888.0 the

 2. Prinoons of Welleeley Ind. 20107 , is
 210 mos, buttar, Goo. Ruolde, In insursoll.
In. Four-Vear Clans, Over 21 lis.
 Wer. A. Shaw, Foxboro.
8 r. Three-Year clash, Over 20 Ibs. Hfidens Sytria Panch, $21373,3 \mathrm{~s} .10$



 Jr. Three-Year Olass.






 Otass,
Dadey May Ciass, Over 15 lbs.
 SB. butter. is. C. Chambers, Hat, 16.47
${ }^{2}{ }^{2}$. Gmoen Hengorvold Dekol, 28478, $2 y$. chisiter. butter. Edward Baker, W/n-
 15.84 lbe , bution. Tif. Wood, Mitoheil.
 Jr. Two-Year Class, Over is the.

1. Tinte Pattor Gint Johanna, 161889 , 3 ,

 2. Furter, Robt. Shalingrion, tat, 17.21
 12-dny roctery: 2y, 1 mm . 2 d ; 656.5 the milk, 21.84 libs fat, 27.20 ibs , butter. Poter


 15 i6 bise hutter.




corim at in come and heiferer ware reRooord of Meenk. Is the atem for in mature Cawa, lakaviow Pestler antabliahom mature
 with 30.78 lbs, is another addition to the andh. elash, While Inioveriow quoon oomes old olana, Plus Pontian the ar. four-vwar31.65 ibs, she 2 , It thelieve. the only vow
to mnice over 20,000 ithe milic in a yer in the Reoord of Performances test and then freood 30 ibn . butter is woven days. ot next Qrat in thie Jr.four-yeigr-old Sylvis oment 2 L. 69 thes. In the ar-year-old clanes-year-old, with
 bow funior, with 23.03 thas. The leading
 Tinle Butter Gifl Johanna, with Is, bam hos.

## W. A. CLDMONS, Secretary

WM. J. BALD'S DISPERSION SALE
$T_{\text {Mitehell, Ont, on }}^{\text {His }}$ Mr. W, J. Bald, mitehell, Ont., on Aprit it, was is lurge and the bidding brisk. Alost of was ammala oftered were young, yet Mr. Bald ceived. The following is the pricos remale nold: Grove Lina, 3250 , It. s. Oliver, 8t. Maryle
 kork, $\$ 145, \mathrm{~J}$. Hotaon, Bt . Marv'a, Abbe: Abbekerk 2nd, ${ }^{7270}$ H. Thisithe 8 E 5i30 Arbogya Metertje Artis Pasch. bentha Hengerveld Keyes, $\$ 365$, 8965, C. BolKorndylae Glady and fagrs, old-Pontiae githtord. Mady, 8265, ie Rutheriond. Maple Front Lime 2 yra, old.-Coranthe Einma Mercens, \$70, J. B Turner, Ca Hisgford: Colantha Beauty Abbekert Milibuntsle Tady, $\mathbf{\$ 1 6 5}$, H, Hammand \$105, Miohael Teake Colanthe Abbelkerk rula De Kol Arbopast, Strationd: Ka Mond: Colantha Henkervela, F , HomWaile MoLannan, Milibank. Tidy, \$126,
 Teldale: Potantha, $\$ 115$, Gleasin: Gairmount seldaier Butter Boy Toake, thio, Git, RusBulis u

## King Pontia Artis Canada

has 32 tested daughters and several in test, 2 with over 28 lbs, 3 others aver 22 lbs . and 25 from 19 to 22 lbs , all as two year olds. There will be 30 daughters of this noble sire offered, all have tested dams and grand dams, one from a 29.90 $1 \mathrm{~b}, 4 \mathrm{yt}$, old daughter of King Pieter and Countems Segte, a 81.7 Bb . daughiter of King Sepis. One full sister to $231 / 2 \mathrm{lb} .2 \mathrm{yr}$. old from a 28 lb .4 yr . old dam-a grand oue. One 2 ys. old with over 21 lbs . Three full sisters from a 29 lh . dam, one as 20.26 as junior 2 yr. old.
A. C. Hardy, Prop.

## May Echo Sylvia

Canada's first 41 lb . cow, who, still in test has made 41 los. butter in seven days, and after 30 days promises to better this. SHE HAS OVER 1,000 LBS. MILK IN SEVEN DAYS. Many of the females offered ave bred to sons of this great cow. One was sirred by Prancis M. Jones' 44 lb . bull, mont of the others by King P. A. Canada. This is the only opportunity to get this blood. Be sure to see her grandson by
the 44 lb bull. the 44 lb . bull.


## Six Daughters of Wooderest Sir Clyde

## Who is a son of Pietje 22nd Wooderest

 Lad and Alma Clyde (33.06). A 29.12 lb 6 yr . old show cow with over 100 lbs . milk in one day-one of Canada's ring winners, and bred to May Echo Sylvia's son eral exceptional We shall also offer several exceptional young bulls, one extra good one from a $31.70^{\circ}$ daughter of King Segis, several grandsons of Prince Hengerveld Pietje from high record dams.
## TERMS

Cash or approved notes at 3 per cent. per annum. Catalogue May 1st. An all day sale, beginning at 10.30 . Lunch on the grounds.

## Brockville, Ont.

## $100 \%$ Healthy  <br> LENOLETMI ztres   ZENNER DISINFECTANT CO.. . WINDSOR, ONT.

## FARMERS' CLUB

Correspondence Invited.

## TWO CHOICE HOLSTEIN BULL CA

[^0]atis:

- wren mo ola Catreo in in time

TAENTON, ONT,

## 6 mae oia- FOR SALE - HOLSTEIN BULL CALF



B. Mcooll.

COBOURG, ONT.

## 18 HOLSTEIN BULLS




Offers a fow yeariling Holateln heifers--Korndyke breed. Whil sell right for ALBERT MITTLEFE

AVONDALE HOLSTEIN BULLS

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

## QUEBEC

## DANVILICHMOND CO QUE.

Fone, end roids are dryins unow in aut Cottio have done very weil this winkly.

 and buttor at 350 . Potatoes aro at at ase Whas ahort, The sut fige weanother is over, it Wime. Good maple sugar and myrup the $\operatorname{ling}_{\text {cen }}-\mathrm{M}$. 12 C D. per . pound and $\$ 1.35$ per gall.

## ONTARIO

## DURHAM CO., ONT

Campbeilcrott, Aprill 24 . Wheat, rye
and clover tave come through the winter well No seeding hat been done winter yot. fonciogber Tho high hand are plowing and tor mading maplon syruas, been very poor
beins me or pone being made Cattle are a hith pries, and
have wintered
 cows fotch a high ligure at soles. Light sale Young pirpos are in ereat demand and brins around \$8 as pur at aix week a oid The buyera aro plating up fat howe and aattle very clomely. The high price of all kinda of arran aced will prevent a
Hiberal mowing-5. A. 8 . T.

NORFOLK CO., ONT.
POIST BURWELLL, ApHIII 4 I: - Weether
conartions are fine, and the farmers are conartions are fine, and the farmeri are Getting felas in mood ahape for plowing, farmers are proctionel and wystematic Hogs are are practiong for 59.20 m butter, 28 c ; erges mice Faumera are setting reedy to a pound. All the frotory. Cheene 2020 a pound, All stook is doing well. Pas-
tro foids are nice and green.-P. B. 5.

## GREY CO. ONT.

Thorinbury, Aprit 22.-Snow has al disappesed and wo are having nico grase is turning quite grem. Catue have come through the winter looking nima, and wo do not hear any complaint: of nearcity of feed. A number aro team:-
ing out thefr hay, ing out their hay. Potatoes are very as hith awing ti. to a bothet. Batter heldit
 qute a large shipment' from Thornbury.

## SASKATCHEWAN

QU'APPELLE DISTRICT, SASK. Fort qu'applyas April io.-Very

## All Roads Lead To Brockville, May 18th, To The 3nf Aliwal insiell sile BROCKVILLE BREEDERS' CLUB <br> 

Sixty head of richly bred animals, many with 100 lbs, blood behind them. Nearly all stoek of millking age, officially tested. This is the distrlet where big records are made. We bave the foundation stock and best bred sires of the breed. The cattle will be ready for inspection a day or so-before sale, in the town of Brockville.


## SOME OF OUR OFFERINGS.

NATOYA MADDA SEGIS-a senior 2 yT , old, under tent, expected to reach $20-\mathrm{Ib}$, mark,
RETTA DE KOL MAPDA-who
20.03 butter and 701 lbs mill in seras a record of butter and $2,976 \mathrm{lbs}$. milk in 30 days with 110 lbs . as beet day's mith .
PEARL LILY DALE-who has a record of 23 lbs ,
her dam's recond of over 20 lbs, her dam's recond of over 20 lbs .
SARA JEWFL HENGERVELD A-record of 24.14 lhe. and who has a daughter with a record of 27.70
TIDY KORNDYEE WAYNE 2 nd-who has a re-
cord of 18.65 lbs as a 2 yr old cord of 18.65 lbs , as a 2 yr . old.
MONKLAND DIONE- $A$ fine 3 yr, old, tracing ini-
to the Inka Byivia family.
Some choloe young bulls and hetfers of very highont breeding, all in exceellent condition and fit for work

## G. A. Gilroy, sumbine dern Beell, ont.

Wtue has yet been done on the
which is vory wet. We have only h ahy that upprened epring-like had ond oloudy days, bisht anowfalie and A vent, with a noted absence of wind, prof
vater, lind Irom drying.
which Water, Which may be of great benellt, of
in every eloush which was tried
 hat your. Some apring mignatory nocount. The proppeetu are for of in
inlith with teoding Unlens fint



## BRITISH COLUMBIA

 NEW WESTMINSTER DISTRICT general here, April 15 ,-Sosding wi.C had quite a bot of rawrit cold. We. Whay hay April. Plowing la prooeeding are out in blocm plums, proceeding and the sratom. Trees are out in chics three to four in the pasture fleld hat
## CHITLWWCK

inf very bpekwand April 21 .-We are hav: eofd and wetwand weather. It has bein aown yet, We are far bohind has beed operations in Aberta. The clover Hous. gieed is 32 c a pound, while winter, It thus conts Bomething to soed here. The Eovernmething to foed The forry between Amsosi and Rosevine This is a areat boon to the farmers--N.

## AYONDALE FARM SECOND PUBLI

 T He rocord of May, Esche Sylvia wha in manding and Dairy. Mr. A. C. Hardy stater thit in his advertisement for sal Uahed she hes incraased In milk flow mether than savy other doys, which is 85 its Her beet daya milk is 148 of any breed18 the, higher than the end of 80 day any other record. As 48 lb rate, and has boen started at over 100 tha, mille per day. breat from a benurtiful daughter by a 44 Wh . ball, the offered. He
herd ball of the herd ball. Many of the cows offeprevent the older one now ownod Syla's two nons wood, of Vaudreal. This will hiood of these bulle, as thet Wikely to seralin be open to they are ne

## LAKE MARIE FARM DISPERSION

54 Verx reuder of th
L doubt have noticed the large will nit peraion smient of Lolake Marie Marm ditaof high clage Hol Holateins, and po breeder bo exceptiontaly of sate, as the offord to bs chance for anyone to sood the ode will tho wid of exoellent breedine for hish class block of a futare berd. The for the foundack
Begis Leiki, is. Begia Leikal, is, a crandsonior herd efre,
Klis Segria buil, and 40 fellow of wondla build is a of the great
all, he wonstitution mastiv all, he/is prepotent constitution. Beit of his good quallties to hig offiprines all
the young inimals at I the young jinimals at Lake Marie Farm
are froen thelt beet oows, most of
beine aired being Eired by segeris Dek, most of them
not help but mole not help but moke prodtable animale in Oni of the fineet older cowa is Jomims
Pletertje. she hoids ords made some years aro. Sh. Well propertioned cow, with every is dication for buatieas, and has sevend
daughters in the hard. One of her daucl.
fers, T,Not in tere, Lacy Piotertje, was ires in 2 -yvaro very fine youms cow, proitocing and is presint. Wingle Pleterthe Posh
other fine youne heifer, other fine young, hetfer, who at is Etving over bo the. per day
ordinify feed. Rvercraen pex ordinicry feed Ryergreen Rox, Cent are all large noomy cowns, Belle Posch otitution and oapacity, Theme all in milk or due to trashen ah Thould prove money-makeers in anty, and heiferi of the fainoes lot of two $y$ ginn thls anle, all bred and sergis breedins dition. We wish to empeciatly menils Fake Marle Butter Baronealally and Mentinty Favort Poech, two helfers of ehow typu
and poaseaning every indlanton of able to entablinh some records in the fing ture. number A number of youne buthe fit for ver-
vice nre niso offered. They are nosity all alred hy Bogle DeKol and out of this krowthy fellows, showing ereat masculto Ity and true dniry typas Anyone looking
for a futare atre shertata fookt theoe ovit before buying.
sommodate the public will be done to ace it fommatate the puhlic on day of nale, and necenaary to attend the sale and expense the larre, modern dialry fernn, poitto plant and other thinra of fntereat. Witto
at once for a catalopue to $R$. B. Bter,


# The Model Farms Is FENCED WITH 

 "CANADIAN" FENCEAHog-tight, Stock-proof Fence At Less Cost

## The Other Model Farm

 Is Fenced With "AMERICAN"
## FENCE

Mr. Fence User:
You will notice that both "Canadian" and "American"
 Fences are manufactured by

## The Canadian Steel \& Wire $\mathrm{Co}_{\text {., Limited }}$ Hamilton, Ont.


[^0]:    Ono is from May Echo Keyes butee zs.1.
    
     M. E. MAYBEE,

