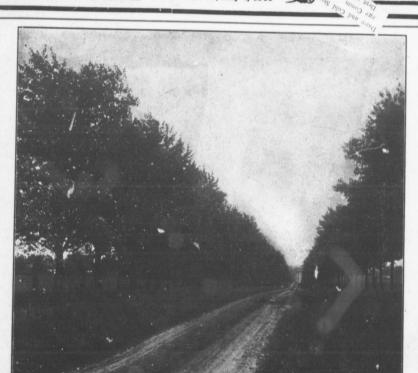
Eighth Annual Farm Improvement Number

# FARM AND DAIRY RURAL HOME



BETTER FARMING

Peterboro, Ont., May 4, 1916



A SUMMER DAY IN RURAL ONTARIO.

The road in front of Mr. Chas. Baird's farm in Western Ontario

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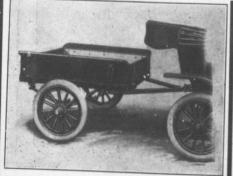
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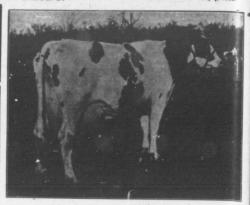
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May Echo Sylvia, One of the Greatest of Her Breed.

This great Canadian cow has now made world's records as a four, six and seven-year-old. Her recent 7-day record of 584.7 lbs. milk and 41 lbs. of butter makes her the first 40 pound cow of the Dominion. May Echo Sylvia is still in great form for similar work in the future at Avondale Farm, Brockville, Ont.

### Features of Interest on a Waterloo Co. Farm

EW things give us more pleasure ent paving next the barn. than a chat with a live, progres-sive farmer. Such a man is Irvin Hallman, of Waterloo Co., Ont. Although our conversation during our wisit with Mr. Haliman was limited chiefly to the subject of electric power, we did find a few minutes to look through the buildings and make note of a couple of other features of the Hallman farm.

One piece of apparatus on which Mr. Hallman places much value, and which is not generally found on the which is not generally round on the farm, is a set of live stock scales. These scales with a five-ton capa-city 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," said Mr. Hall-man. "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 our mistake. The use of the scales is also a great satisfaction in selling. Many people are always harboring the belief 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 \$80.

#### Cement Construction Favored.

Another feature of the Hallman farm that is sure to attract the attention 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 house, we walked to the barns on a cement sidewalk, which never gets muddy and is valued particularly by dirs. Hallman. At the end of a drive shed is a circular milk and well house, looking like a savred off silo. In it the milk is cooled by cold running watar. ning water

In the basement of the big barn, 80 feet square, not a bit 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 reinforced concrete. Outside in the barnyard there is a strip of cemthere is a big monolithic concrete silo. "I was pessimistic about the silo at first," remarked Mr. Hallman, silo at first, remarked Mr. Hailman, "and farmed for ten years without one. But pehaw! it would have paid me to have borrowed money to put it up, right at the start off. I couldn't begin to feed all of my stock now with out the silo

Mr. Irvin Hallman, unlike his broth er, A. C. Hallman, who lives several miles away at Breslau, is not a dairy man. He is more of a dairyman, however, than he was a few years ago. When we visited him he was milking 12 cows which averaged \$125 a month the year round. The man comes right to the farm The milk man comes right to the farm and pays 16 cents a gallon as a flat rate for the year. Mr. Hallman is ready to admit that the dairy part of his business is profitable, though it contributes but a small part to the income of the big 312-acre farm.



A Concrete Milk House

"Built like a silo," is the milk house on the farm of Irvin Hallman, Waterloo Co., Ont. Even the roof is of cement Mr. Hallman appears in the illustration. —Photo by an Editor of Farm and Dairy.

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

The Recognized Exponent of Dairying in Canada

VOL. XXXV.

PETERBORO, ONT., MAY 4, 1916

No. 17

## At Home With A Veteran Institute Lecturer

W. C. Shearer of Oxford County Practices As He Preaches

C. SHEARER has been telling Ontario farmers how to feed cows, raise pigs and grow crops for so many years that he has almost lost track of the number himself. He was one of the pioneer lecturers of the Ontario Farmers' Institute, and he is still in the harness. He is still one of the most popular men on the Institute list; not an orator or classic speaker, understand, but a practical appearing man with a very practical story. He has a way of talking about crop rotations, balanced rations, and so on and so forth, that gives his heavers the impression that he actually does just those things at home and has done them so successfully that he can afford to talk about it. I often wondered if he did. I had followed one particularly 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 his neighbors who never made any pretensions to superiority and never, never "talked out in meetin'." Perhaps this man Shearer comes in the same class, I thought.

Then came the first Prize Farm 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 farm at home. Then came the placing of awards. Spruce Lodge, as Mr. Shearer calls his place, didn't get first placing, but the judges reported that they had found a good farm and a good farmer. Early last spring I went up to Bright to see Spruce Lodge for myself, and have a chat with its proprietor. As a result of my visit, I stand prepared to endorse Mr. Shearer as one of the best farmers of the good old county of Oxford, and an Institute speaker who practices as he preaches.

Diversified Farming Followed.

The subject of this sketch is most generally , known as a dairyman. Really he is a believer in diversification and practices as he believes. There is too much of the shrewd Scotchman in Mr. Shearer to allow him to put all his eggs in one basket, even when that basket represents such a dependable line as dairying. Cows, swine, hens and cash crops, all contribute to the income, but the greatest of these is dairying. It has been the main line from the day that Mr. Shearer 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 cattle that could be gotten in Oxford county at that time. They were given a snort trial, but did not come up to expectations, and Mr. Shearer started out to find another breed that would answer a little better as milking machines. Dairy butter was their specialty at that time and the Jersey breed was finally selected. A journey was made to Brampton and some grade females and a pure-bred Jersey bull selected. Some of the F. E. ELLIS, B.S.A., Editor

original Durhams were retained in the herd, but soon all were of the Jersey color. In fact, some of the half-bred Jersey and Durham cows proved themselves the most profitable producers in the herd. For twelve years Mrs. Shearer made Jersey cream into Jersey butter, but the work proving 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 to defer; And gaily he whist'es A rolli king tune And deems time is precious Thi comes the glad noon.

The boy with the hoe Is the friend of the soil, No comrade can tempt him His record to spoil. A prince though in patches, His scepter the hoe, Each hill he is doing But shortens the row. He laughs though aweary And reckons the fun That he will be sharing When duties are done.

The boy with the hoe Has a will to endure, His heart is so kind And his thoughts are all pure, For him the birds warble And flowers sweetly bloom, While breezes are wafting To him their perfume; The azure of heaven Bends o'er him above, The boy with the hoe is the boy that we love. -Ruth Raymond. called and the Jerseys disposed of at an average price of \$60, a high figure for those days.

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 purebred Holstein bull. The last sire that he owned was a son of Sir Admiral Ormsby. From this well bred animal there is now a splended lot of heifers at Spruce Lodge.

Mr. Shearer has now entered on his third tap as a dairyman. In order to give his Sir Admiral Ormsby stock full swing on the farm, he called a sale last February and sold off 17 of his cows for \$1,700. At the time of my visit, therefore, only a few cows were being milked, but in a few months the stables will again be full of mileh cows, and the best bred herd that Mr.-Shearer has yet had. Some of the dams of the present milk herd have gone over 70 lbs. of milk a day. The 18 to 20 cows that were milked last year, including the two-year-olds, averaged \$70 each in the cheese factory season.

It is notable that scarcely a female has been purchased for this herd since the original start was made in Holsteins over 15 years ago. Firstclass pure-bred sires have been depended upon to steadily improve the milk making qualities of the females. Mr. Shearer regards this as the sale and sane path for the man who wants milk and does not intend to mak stock breeding a specialty. In fact, one strain in Mr. Shearer's herd has been in the family for 66 years. These animals are descended from his mother's marriage cow, a common wedding gift among the old Scotch people. "I will keep at least a few of that strain as 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 application as are the breeding methods. Mr. Shearer is not a heavy feeder, but he is a good feeder. The roughage consists of ensilage principally, with hay at noon. The grain feed is largely home-grown chop with a small mixture of middlings, oil cake and cotton seed. Cotton seed was fed for the first time two winters ago, because of its exceptionally low price at that time, as compared with other feeding stuffs, and Mr. Shearer found it very satisfactory for making milk. One pound of the mixture to every four or five pounds of milk produced is the rule. "We feed mangels, one pail twice a day," Mr. Shearer told me. "I believe it well to feed some roots even when one hav ensilage. They seem to keep the cows in excellent condition."

Silage is fed for 11 months in the year. Mr. Shearer does not see the logic of working hard during the summer months in order that the cattle riay be liberally fed during the winter. while during those same summer months the cows may be almost starving on dry pasture just

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Grade Holstein Profit Makers in the stable of W. C. Shearer, Oxford Co., Ont.

over the fence. The summer gilo has selved the summer feeding problem. This sile is 12 x 26 constructed of staves, and has been up 16 years. When its usefulness is over, Mr. Shearer is planning to make even greater provision for summer feeding by erecting a silo nine to 10 feet in diameten, and 35 to 40 feet high. The winter silo, like most of the silos erected when the silo was a new thing in this country, is built inside the barn, 9 x 18 feet on the floor, and 28 feet high. It is double boarded with hemlock and tar paper between. This silo has been up 23 years. Last year Mr. Shearer had it lathed and plastered inside and now it looks good for another 23 years.

#### Summer Silo 15 Years.

"I have been feeding summer sliage for 15 years,' said Mr. Shearer. "We fill the smaller silo in half a day with 60 tons of ensilage. The next day we fill the inside silo with 115 to 120 tons. We plan to grow enough corn to have 15 or 20 shocks left over for fall feeding. We do not let the cows run out until late in the fall, when the freezing of the ground compels stabling. They are never out after the middle of November, and we believe 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 sflo, about the first

I will mention the Spruce Lodge stables only briefly. On the day of my visit, with all the cattle still in the stable, both the stable and the cows were as clean as if Mr. Shearer were endeavoring to produce certified milk, instead of cheese factory milk. For instance, the floors were covered with land plaster to keep down odors and incidentally improve the manure. Litter carriers facilitated the cleaning operation. There were individual water bowls in front of each cow. As a result of these precautions and his breeding and feeding methods, Mr. Shearer has a herd, as ( mentioned before, that in 1914, including a considerable number of two-year-olds, averaged \$70 in a choose factory season of nine months, in addition to which we must add the money received for cream during the remaining three months and young stock that will sell for the highest prices paid for grades.

Spruce Lodge Farm is a square hundred of what Mr. Shearer truthfully describes as "the best land out-of-doors," that is, it is a good strong

(Concluded on page 12.)

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

A Farmer and Breeder Who Built One Last Summer Says That it Is .-- By R. D. Colquette

HAS the time arrived when sheet steel and with timber, lumber and shingles in the construction of barns and stables? That is the question that many farmers, who are faced with the problem of building new barns in the near fature, are asking themselves. It is the question that Cins. E. Moore, of Peterboro Co., Ont., was asking himself at this time last year. He decided in favor of the iron barn, with the result that he had one built and has now had a winter's experienne with it.

It was with the idea of discovering Mr. Moore's opinion of his new barn after using it for one winter, that I drove out to his farm a few days ago. As soon as I turned in the gate, I saw evidences that I was on the farm of a progressive and enterprising farmer. A place in the lane where a threshing engine had broken through pretty badly late last fall, had already been repaired this spring. When I drove up to the barn I found that the owner was busily engaged getting up his summer's wood supply. Just then he was back in the bush for a load, and during hir absence I proceeded to

investigate the new barn and to contrast it with the "post and girt" structure that we used to build when 4 was apprenticed to a barn farmer in Gray county some years ago. But I had not been investigating very long when Mr. Moore returned, and I at once began to bombard him with questions regarding his venture.

"Why did I build a steel barn in preference to a timber one?" said he. "Well, one reason was that I thought by building a steel barn I could avoid some of the fire risk. Taking into account the danger

from lightning, from threshing and silo filling and from the possibility of the barn catching from other burning buildings, or the chimney. I thought that the extra immunity given by the iron-clad barn was worth considering. Then the price of timber, lumber, shingles and all building material is now so high that I am convinced that the iron barn is quite as oconomical to construct as the old-fashioned kind. There is also a great economy of labor from the farmer's standpoint. The company who built this barn supplied everything connected with the superstructure, as well as the labor to put it up. The contract included doors, windows, ventilating shafts, and everything 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. Another considera tion was the advantage that the steel barn has in that there are no timbers in the way. Come up with me into the hav mow and see for yourself."

A survey of the broad, open expanse with no obstructions whatever, to interfere with the work at harvest time or during threshing, was so convincing that I determined to get a photograph of the interior and so climbed up to the plate at the north-west corner and secured a photo, but is it not good enough for reproduction.

Material fr m old Barns Utilized.

Coming outside to more carefully observe the general appearance of the barn, I noticed the remains of an old foundation and also a neat pile of old hare timbers. Upon asking what these meant I was informed that near the site of the new barn there were formerly two old ones, ope 30 x 50 feet on a foundation and another 28 x 80 feet which sat 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 needed better ones, and we also needed more and better stabling. Besides, the old yard was low, wet and muddy, and the stables were dark and unsanitary. The company used a great deal of the material from the old harns in build. ing the new one. All the rough lumber for in terior sheeting, and also all sills and sleepers required, came from the old barn. 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 would be, and also because new joist would look much neater than this old timber for sleepers I insisted, however, that they use them up, and they are quite as serviceable, 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 Satisfactory. The barn illustrated above was built a year ago by Mr. C. E. Moore, Paterbore
Co. Out. In the article adjoining Mr. Moore gives his opinion of the economy
and efficiency of this up-to-date structure.

—Photo by an editor of Farm and Bairy.

barns that was in good condition, and whatever they left will be used for firewood."

A Barn Without a Basement. The new barn, which is 44 x 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 about four feet high at the lowest corner. One unique feature about the stabling is that each division is on a level of its , own. For instance, the floor of the box stall at the corner where the ground level is the lowest is about three and a half feet below the top of the wall. The floor of the other large box stall is about a foot and a half higher than this, while the floor of the main stable is about on a level with the threshing and granary floor. No exca vating was done in preparing the foundation, but instead the floors were levelled up by putting in stone. The stabling has not been completed as "Last year was a very backward one for building," explained Mr. Moore, "and operations were delayed considerably, so that I did not get the stabling finished last fall. However, I took advantage of the slack winter season to put these stones in, with the result that everything is now levelled up ready for the cement."

Since there is no basement, the general level of the the ceiling of the stables is about eight

(Concluded on page 15:)

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These old buildings, with good repairs and a liberal use of white paint with green trimmings, 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 Kimball's Dairy Farmer

HiGH in the ranged old cottonwood by the gate, a locust shrilled his endless fromy of sound. The gate itself awayed on its property of sounds and the state of resty complaint. The windmill, unclied for months, creaked dolefully over the dilapidated wellhouse.

Along the weedy fences the grass-hoppers, seemingly by millions, trilled that peculiar undertone which cen hears only in the late summer. Over dusty roads the shimmering heat waves fought every instant with a dawdling, 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 hack and forth, back and forth, and the bickory bark chair protested at every move for the lady was more solidly constructed than the chair.

"Mother!" shrieked the younger woman, "atop tit! I shall go crasy if you don't stop at once!" The older woman stopped—at once—and with a very natural surprise. She straightened up, pulled the old spees down to the bridge of her nose and with considerable exasperation glared through the lenses to see what on earth so suddenly siled her Jaughter-In-law.

"Mother, I'm sorry, 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 wyong nowadays with me."

Rather with an air of relief the older woman, reliet of the late Joel Greenway, raplied, "Well daughter, I did think you had gone crazy—you poor thing, it must be the heat"—and resumed her rocking.

The time was some 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 hought it out properly! farming a losing game because of a real discouragement that even his young wife could hardly understand. Sam wasn't lazy. He wasn't without good schooling, 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 said plain as words, "She has

gone crazy."

"No, I've not," said Janet in direct answer to the look, "not one bit. But the whole farm looks discouraging from house to hen coop. No wonder Sam's going back every month. What he needs is a coat of paint."

She 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 wite, I have," and the rocker, too, ceased its squeaking as again the old lady stiffened in her chair to lend dignity to the giare from her keen, old, blue eyes,

"Now, mother, don't get excited. I mean just this: You know how Sam feels in church with that old suit of his-well, that's just how this farm feels. And every one of us feels the same way because the farm does. You and I are going to buy this farm a new suit of clothes."

Abby Greenway wasn't slow if she was going on 62 and, then, her mother's accord 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'il never spend the money," she said, 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 think it of you." And another
breeze of laughter—this time a duet—floated out
over the dusty fron: yard.

Long they sat planning how with their own very limited resources they might do the great thing needful.

But all we are permitted to hear is this remark of Jamet's: "Anyhow those chickens are mine and I suppose the chicken house goes with them." and this of Mrs. Greenway, senior, "Good land, it's most supper time and not a thing started."

If Sam Greenway had an especially 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 coats of white paint.

### Why Not a Windbreak Around Farm Buildings?

Some Suggestions as to Varieties for Planting and Their Arrangement

/EARS ago I visited an old friend of mine. By "old," I mean that our friendship was of long standing. He was young and progressive. At the time of my visit there was a windbreak three rows deep on the north and. west side of the farm buildings, which had made considerable growth, but had not then attained its maximum usefulness. I now have a letter from Jack, written just after one of the severest storms of the stormy month of March. Here is 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 I 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, old boy. That plantation has now reached maturity. It is a zense, almost impenetrable mass of perennially green foliage. Last night we had the greatest storm this winter. The roads are all blocked, the 'phone lines down, and it is still storming like a good one. I visited the Kellys next door this morning; had to go on snowshoes, and had a hard time to get there at that. But say, old man, it's a comfort to live inside our windbreak. Why, we hardly knew there was a storm blowing. We were as warm and snug as bugs in a rug. We go around doing chores between house, stable, hen houses and piggery, without any particular discornfort. Waste of land! Why, we have had dividends on the land

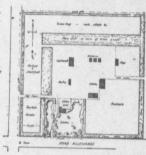
That's a pretty emphatic paragreph, and Jack made his point clear enough. I myself have lived in the country the most of my natural life, and I know that any rural district is a cold bleak place in the winter time. We can't control the bleakness of country roads, but we can make provision for comfort around our own buildings, and many "Jacks" all over the country have done so. A good windbreak not only means 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 Jack's father that planted the windbreak, and Jack is reaping the benefit. I sometimes feel that the men of the passing generation were greater tree planters than we are.

occupied by that windbreak several times over

in this month along."

#### Tree Planting on the Prairies.

The need of windbreaks on the treeless prairies is universally 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 prevent 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



Good shelter belt planting.

equal distances apart, will amount to only 42 acres. Not a great percentage to be under trees and only about enough to supply thinnings sufficient 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 country house as a home until it has trees around

While I am talking about tree planting on the prairies, I might pass some suggestions which I have gotten from the Forestry Branch of the Department of the

Interior. The experts in connection with this Branch advise strongly against trying to grow single trees or single rows in the most of the prairie sections. Rainfall is deficient as compared 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 first three or four years these belts may cost a little more for cultivation because of their larger area, but the ultimate

results will be much better than those obtained from narrower strips.

#### Varieties for Eastern Windbreaks.

Here in the East trees will grow in spite of our efforts to kill them, and the growing of a windbreak is an easy matter. 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 helped to plant when 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 buildings. We took spruce because evergreen trees are always to be preferred to deciduous 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 recent letter as follows:

"The Norway spruce, a native of Europe, is probably one of the best trees for windbreak purposes. It is hardy, adapts itself readily to all conditions, rapid in growth, and has many numerous, pendulous branchlets and dense foliage which give protection summer and winter. It can be sheared and grown 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, and, on account of its denser foliage, a better tree for the shelter belt than the Scotch or Jack pines. The two latter trees, however, are better suited to coarge, dry sandy

(Concluded on page 14.)

### A New Home From the Old One

A Little Money and Much Ingenuity Made the Transformation-By "Jean"

HREE years ago we moved on to the old farm and John's parents moved into the little home with its half-acre of garden and lawn a mile or so nearer the village; an ideal place for the old people to retire to. And we were up against a problem: Should we go into debt to build a new home or repair 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

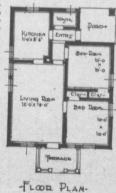
square timbers securely morticed and braced. I was prepared to admit that, as in the case of many old homes, the general lines of the house were good. Better, in fact, than the lines of most of the new houses that are being built in the country. It was low and broad in the ground and just seemed to fit into its surroundings.

And there the good points of the old home ended. been built some 60 years before, and had never received so much as a coat of paint. The weather boarding had dried out and cracked, and in many places was falling off. On the roof there were at least three layers of sningling, and it leaked badly. The verandah had rotted out at the founda tions, and there was a sick looking sag to its roof. Inside, the old house was hope. A convenient small home on one floor.

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 going 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 plaster 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 disabilities, the house was, to quote John, "as cold as a barn." To make such a house into the home that John and I had always dreamed of, seemed impossible. At one time we had drawn sketches of our ideal home, and we now looked over them longingly Surely we could never make the old home look like our ideal. We would have to build snew. Then the question of cost slways came to the fore. The question of where we would live while building a new home on the same site as the old one, was also a factor in deciding us in favor of renovating the old house. Now we



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old board

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Dairy read

The sol wall. Its els, a level mon sense as the hol the solid v so that the mould. Ti up with re advise usir As to mate much diffe gravel has left made are made, than the s plank and mention in ber of ri there, bot outside the ere very hi because. thing is posts are s

The Cor Another ant use of luilding o have had for the past can thoron mend then built We silo in this country. square wis ners, but which is round. It is te builo, an less materia equare ones not pay an the steel r build one g locality, fo there are m them and a OHY

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are glad of gur decision. While we "camped" inside the house, John lackled the outside with signer. A good carpenter was hired by the day, and John worked with him most of the time. First, the old shingles were scaled off the roof, incidentelly giving us an excellent supply of kindling for the rest of our natural life, the sheeting undermenth was nailed down solidly where the original asiling hadrusted nway, and the roof covered with building paper, lapped half, Then came British Columbia cedar shingles, which had been dipped to stain, them a nice moss green.

The sides had been originally covered with weather boarding half an inch thick, each board happing one inch over the board beneath it. This old boarding was all scaled off, and then nailed

on again flat. Over this came building paper again lapped half, and on top of this new milled siding, dres ag out of timber cut in our own woods. Great care was taken to carry the building paper around every corner without a break, tight in to every window and door, and to connect it in properly at the eaves, so that no wind could get in anywhere. Before the siding was put on, big new windows, three sections wide, were put on the front and west sides of the house, and in the other rooms downstairs, the windows that had been removed from the front house were set up alongside the windows that were aiready there, doubling the lighting space. A big wide colonial verandah made on plain, simple lines, and without a single bit of expensive mill work in it, was

added to the front of the house, and a small porch at the back. The foundations and floors of both of these verandans are of cement; this lor economy rather than repearance. I mentioned that the roof was a moss green. The aiding was painted white with the window and door tring, have board and caves a rich green. The whole effect is view and pleasing.

The Interior Renovated.

I did the planning for the inside of the home and once the rough carpentering was finished, most of the work. In the front of the old house a small parlor and a small sitting room were combined into one large pleasant living room, running right across the front of the house

(Concluded on page 12.)

### How We Have Used Cement In Our Farm Improvements

Its Permanency Makes It Economical For All Building Operations • FUND be ceited a FLAIDLAW & SONS ELCIN CO. ONT.

W E are living in what can truly be called a coment age, although concrete work on the farm is practically in its infancy. Cement has so many uses awaiting it that one scarcely knows where to start first.

One important use is in the construction of basement barns. We have on our farm both the solid concrete walls and those built of the hollow concrete brick, made with the concrete brick moulds that are advertised in the different agricultural papers. They both have their advantages. We give our experience for the benefit of Farm and Dairy readers who can then judge for townselves.

The solid concrete makes by far the stronger wall. Its construction requires nothing but showels a level, plenty of back muscle and a little common sense. It is not, however, as dry a wall as the hollow brick. The brick are weaker than the solid wall because of having to be mixed dry so that they will stand Aone when taken from the mould. They make a rice looking wall when put up with red mortar and for a horse barn we would advise using them in preference to the solid wall. As to material required, we do not think there is much difference. With the brick, the coarse gravel has to be sifted out and the part that is left made richer with cement. When the bricks are made, however, they are more casily put up than the solid wall, as they do not require the plank and scantling forms, A point we might mention in constructing a wall is to place a num-

her of rings here and there, both inside and outside the barn. They are very handy for tying, because, where everything is concrete, tie posts are scarce.

#### The Concrete Sile.

Another very important use of cement is the luilding of siles. We have had cement silos for the past 17 years, and can thoroughly recom mend them if property built We built the first silo in this part of the country. The first was square with bevel corners, but the last one, which is the best, is round. It is much easier te bullo, and takes a lot less material than do the equare ones. It would not pay anyone to buy the steel rings just to build one gilo. In this locality, for instance, there are men who have them and make a busi-



Our Substantial Milkhouse

ness of building silos. After the silo is built, and before the staging is faxen down, it should be whitewashed with cemoni, both inside and out, so as to keep out both air and water. The cement wash also keeps the concrete from subsorbing the moisture from the ensilage.

The main thing in building a concrete sile is to

give it a good foundation. It should be down to good, solid ground, and then have a foundation two feet thick. It should also be reinforced with from rods. We place a tod in the centre of the wall at the top and bottom of every door. A silo built in this way makes cement a very useful material on the farm for the preservation of the sorn crop.

#### The Concrete Barnyard.

We appreciate very much the use of cement in the making of a concrete barnyard. The land around our buildings is level, hence our stock was always in the mud for a while during the spring. Formerly, when we cleaned 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 footlang, and when we now clean our the yard it is a great satisfaction to have a good solid bottom.

We built the yard in sections five feet square, so that if it heaves with the froat, it will not crack. We mixed the concrete seven parts gravel to one part cement, and gave it a rough finish, so that the stock does not slip on it. We think the manure we save will zoon pay for the outlay. We built our yard with a slope inwards one corner, so in the apring, when he snow it melting, we keep the outsides of the yard clean and the water runs off. Any concrete floor needs a foundation around the outside deep enough is oprevent yars.

from yetting a start un-

#### Concrete Walks.

We have concrete walks to all the buildings, as we can go from the house to any of them wathout gotting in the mud. an matter how bad the weather may be, 'his is a convenience anyone can have, as it doesn't cost much. The walks are made in sections to prevent the frost from cracking them.

The main thing in constraint on any kind is to mix it thoroughly. After it is in jace, the more it is maped the potential of the potential of



In all Our Building Operations Cement has Played a Part.

(8)

### Get All Your Hay Profit

Once more it is time to prepare for haying. Are your mowers, rakes, side delivery rakes and hay loaders in good condition, reading to got 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 machines? Get your repair order in early and specify gonuine Deering repairs for your Deering machines. Deering repairs are exactly the same as new pieces, made of the same material, from the same pattern. Use them if you want your machines to work like new.

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If you need new machines, see the Deering local agent before
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and see the Deering mower that cuts clean in all kinds of fields
and crops... Ask the agent to show you the new all-steel side
delivery wakes and the all-steel lay loaders that go with the Deering line.

Deering machines, this year, are better than ever before.

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at Brandon, Calgary, Edmonton. Estevan. Hamilton, Lethbridge, London, Montreal, N. Battleford, Ottawa, Quebec, Regina, Sagkatoon, St. John, Winnipeg, Yorkton.



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Pences made of soft wire may look all right, but they are liable to act all wrong when it comes to keeping strong, healthy, active live stock within bounds.

THERE is, however, one fence that you can count on for satisfactory service year in and year out, and that is "ideal." Made of large seage No. 9 hand steel wire, heavily galvanized, with the verticals of the property of the season of the se

### **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, springly, heavy wire that will be standing up doing splendle service years from now. This is a point you have to watch mighty carefully—spane horizontals, but softer, weaker wire for the stays made and stays of the stays of

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

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

### Two Gallons of Paint

at any rate it was so arranged, and she insisted that Abby Greenway, who used to laugh and hadn't forgotten low, go also. "Sammy," who was how, go also. "Sammy," who was about to have one "put over on him." assented and the three left in the cool of the morning for a brief trip

Sam had nothing special to attend to and it was very easy for him to drift into conversation with the gro in front of the store and easier still for Abby & Janet, Conspirators, to 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 which carried the words, "Drugs, Paints and

The baskets and the two conspira-tors came out of the door. The eggs do not again appear in this story. In the baskets reposed two gallon pails the basects repeated two games pand of mixed paint and a small package of brushes picked out after anxious debate with the clerk in the store.

The game was on-soon it would put over on Sammy," as his mother had said with a slang so worthy of her still youthful heart.

Sam was detached from his cronies the store and was so busily engaged in conversation that he nearly reached home before he thought of asking what they had bought in town.
"Oh, some yards of dress goods,"
his mother said 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 twinkle fitted back from brown eyes to blue again. But Sam never heard, An he found that he had had a better time that morning than for a long

you and Mother a lot of

And the woman who gotten how to laugh, replied, "Sammy, you don't know how much good it has e"—and proved it by a real laugh which Janet heartily and Sammy eventually joined, though Sam not the least knew what the joke was. was enough for him that his dear

women folks were happy.

Just 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 into Belknap's corn and Belknap, with more haste than patience, was calling

As Sam grabbed his hat his moth er fairly shouted to him, "Sam Green-way, you take a hammer and staples way, you take a nammer and staples and wire with you when you go to get those cows, and you stay there till you get that fence fixed up. That's the second time in a week."

And Sammy answered meekly as he

used to do when a boy:

disappeared on the run.
"Daughter, I call that presence of mind," said Mrs. Greenway. "He won't be back till dark. Come on!"

And Janet "came on" and came with brush and paint and ong bib apron and the two ladies disappeared, they, too, almost on the run, in the direction of the chicken yard.

The chicken house was old but its framing and covering has been hon-estly done and as Abby said: "Thank goodness, it's all bere!" And the two set to work, first stirring the pail of white paint till thoroughly right. Then with vigorous strokes and a deal of laughing 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 sam settled for his last look over the

(Continued from page 5.) nection with his wife's request that Belknap's maples, the brushes were he take her into town next day. But laid aside and two happy women with at any rate it was so arranged, and aching arms and shining eyes, inspected their afternoon's work and called

it good. Sam Greenway's supper that night seemed to him especially sketchy and somewhat reminiscent of dinner he was too tired to complain for he had fixed that fence, and soon he was glad to remark, "Weli, I guess I'il fly up," and flew. Many a man has waked to a day

that was to bring him an astonishing It was not otherwise the next day with Sam Greenway. But he waked to find the place beside him vacant and to hear a bilthe voice sing. "The reached the land of corn and wine, with all its riches freely

What's got into those two en? and say, I feel better myself than I've felt for years. So Sam talked out with himself a little, wee thought that had just reached him, and made haste with his clothes, for that reminded him of that sketchy supper of the night before, and certain vag-rant, fragrant odors were floating upstairs to announce a real breakfast

"Sam, you want to hurry with those chores, I'll have something good for your breakfast this morning." Thus spoke his wife so kindly tilly her in his strong young arms and taking the kiss which she hadn't for

gotten how to give.

Poor Sam! He no sooner set foot out doors than there caught his eye, and held it too, a perfect jewel of hen house, brave in its new suit of clothes, glistening in the clear morning light like Ellen's Isle in a waste But white as snow, new water. and smart as paint could make it, it showed up the raggetiness, the un-kemptness of the whole farm-very much as 'twas intended to do. Eager-ly, through the kitchen window, two is, through the kitchen window, two pair of eyes—erown and blue—looked on the miracle in the morning light and wondered what Sam would be thinking and what doing.

But Sam kept steadily on to the barn. He missed not a post of the broken old fence, not a piece of ma-chinery out in the weather like a junk yard, not a yard of the bare, shabby, unpainted barn; not one of the whole scrubby lot of four or five cows he was on the way to milk

The chicken house entered deep in his soul and he knew that what his whole farming needed was a coat of

The dry pastures and the scrubby four or five yielded the usual stingy amount of milk. Not even the few minutes in Belknap's corn had helped any, and Sam rose from the last cow

any, and sam rose from the last ow a mighty discouraged young farmer. But again the chicken house, filed his eye and with the sight came deter-mination to start a "dress up" campaign of his own.

"I don't know how I will do it, but will if I have to sell my shirt for it." Not one word did he say to the women but washed and dressed quick-ly for town and then sat down to reakfast a bit late but keenly hun-

STY.

His wife couldn't stand it any longer: "Sam' If you don't tell me what you think of it I'll ba.st."

"And I'll shake you," cried his

A slow grin spread over Sam's face as when you throw a stone into a little

duck pond. "You two put one over on me that time-why, what's the matter?" for both women first gasped and then

(Continued on page 16.)

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Below-by Prof. Thillett operly far bette than cou sheet me ingu have struck least dan tions ma that exte are secur

roofing, o tion is a much car construct tend well of galvan ground 7 ground': two or me Conn

In view put togeth heet of r nection w trought a spouts, ar ng

### Lightning Protection Through Metal Roofs

Such Roofs, Properly Grounded, Insure Safety and Reduce Insurance Rates-By W. E. Clark

THE loss to farm buildings by dre tion of the conductor pipe. It is well may be controlled to a large ex- to fasten the conductor pipe to the tent by exercising care, but in uppe; end of the galvanized iron regard to the loss from lightning even "ground" by soldering or wiring them the most careful family is as liable to tightly together. suffer from the destructive effects as the most careless one, providing their buildings are not protected against Behining

lightning in considering this subject the farm-er will usually have in mind lightning rods as a protection, and while lightning rods have a value, metal roofing, properly applied, gives better protection from lightning, besides added pro-

tion from lightning, besides added pro-tection against fire, sparks from the engine, etc., which might bun a wood-en root with a lightning rod on. Alghtning not only destroys proper-ty, but destroys life; and anyone hav-ing experienced, in the country-a-heavy thunder-storm with its accomp-anying discharges of lightning, would anying discharges of lightning, would certainly not regret a slight additional expenditure for the sake of immunity from the effects of lightning. This feeling of terror usually engendered in the minds of the family, connclous of their helplers and unprotected con-dition, is more conductors, with its acmpanying physical break-down, than companying physical break-down, than alru-lt any other cause. As the spring comes on, this subject recurs more frequently, and in the hot summer days, with their heavy thunderstorms, lightning becomes a very constant source of dread and trouble.

source of dread and trouble.

Very Nat Lightning Is. finally established a fairly good understanding as to the operations of electricity and the methods of minimizing the effects of same; lightning is a defected of same; lightning is a description of the control of the contro whatever medium concerns the had a characteristic and transmission, unless the medium is a first class conductor of electricity, and of sufficient size to take care of the full volume of the discharge. Trees, poles and buildings, on account of their height, generally act as conductors. In the case of buildings, an electrical discharge is generally accompanied by fire, and a severe fire companied by fire, and a severe fire the substance of the discharge is generally accompanied by fire, and a severe fire the substance of the sub

Bolow is a quotation from an article by Prof. E. S. Keene, North Dakota, Agricultural College:

Agricultural College:
"Buildings with metal roofs that are
properly connected with the earth are
far better protectors from lightning
than could be given by rods Buildings that are completely covered with
sheet metal and well connected withsheet metal and well connected with the earth are practically lightning-proof. Covered in this manner, build-age have been known to be repeated-by struck by lightning without the least damage. The ground connec-tions may be made of metallic rods that extend well into the earth, and are securely fastened to the metallic roding, on the buildings. It must be remembered that the ground connec-tion is a positive necessity, and too remembered that the ground connection is a positive necessity, and too nuch care cannot be exercised in its construction. The ground connection must be of considerable area, and extend well into the moint earth; a piece the standard of the piece of the

Connecting With The Earth. In view of the above, the use of metal shingles or metal roofing, when put together, make practically a solid nection with these, use metal eave-trough, and conductor pipes or down spouts, and drive the galvanized from pipe into the ground near the termina

tightly together.

It is essential that the conductopipe be properly maintained and not
allowed to become unjointed thus breaking up the continuous path over which the lightning may discharge into the ground.

Planning Improvements for 1916 Ivan V. Tolliott, York Co., Ont.

ARM improvement is, to me, the most interesting thing in life.

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more about Steel Barns.

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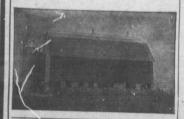
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CANADA

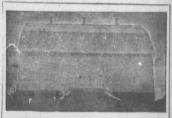
ES, The Steel Truss Barn is Economical. C. E. Moore has found is so, and hundreds of others have found it so. Look at these fine barns-they are giving the best possible service to Canadian farmers. Send the Coupon below and let us tell you



J. Baskerville, of R.R. 4, Thorndale, lost his c barns by fire. When he investigated the Ste Truss Barn he immediately laced his order for building 40 ft. x 70 ft. with placed his order for Building 40 ft. x 70 ft. with placed 18 ft. x 22 Mr. Baskerville is one of the best farmers in the district and is more than proud of his new barn



John See, of Doon, lost his barns by fire. weeks late, he was hauling hay into his new S Truss Barn. The building is 56 ft. x 70 ft. and a double drive floor. Mr. Sice says he can turn thresher around without taking it from the buing and can go on with his work rain or shine.



A. J. Olde, of Union, has no fear of storms. He lives quite a distance from his Steel Truss Barn and while the storms rage outside he is content to know that his cattle and grains are protected from all the elements.



Done'd McIntyre, of Port Stanley, has a beautiful farm and he wants the finest and most up-to-date bulldings. He says no one can beat him on barns, as his Steel Truss is the best that money can buy. In its setting of evergreems, Mr. Me-Intyre surely has a building to be proud of.

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With Pratts to help, the beginner can raise his first hatch of chicks as well as an old-timer. No need to worry about the feed. You have everything a chick needs, in the right form for easy digestion, in

Pratts Baby Chick Food. Big Poultrymen who raise thousands of chicks buy Pratts Baby Chick Food by the ton. They know this completely solves the feeding problem for the first three weeks

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### Pratts Baby Chick Food

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White Diarrhea—comes to chicks from the mother hen. Guard your flock with Pratta White Diarrhea Remedy—an effective preventive.

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Do not expose young chicks to disease germs. Use Pratts not time well seen.

FREE-64-page "Poultry Wrinkles," a book of dally assistance to Poultrymen

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are greatly improved. This year, I am planning to plant more shade trees, and to improve the conditions of grounds surrounding buildings; but greatest effort will be to complete what I have already begun, as I have now almost enough gravel and stones in place, to build a perm

in piace, to omin a permanent poultry in piace, to omin a permanent poultry. This will consist of a reals building. This will consist of a reals building. It is a proper story as for driving abod, the lower front helf for laying pens, and the back half for crests feathering, storing feed and dressing poultry. In addition to the main building, there will be two wings, each 15 by 40 feet, making in all conditions in laying pens for 164 feet, which will accommodate from 164 feet, which will be accommodate from 164 feet will be accommodate from 164 feet with the permanent pen, 1 use of the 164 feet will be permanent pen, 1 use of the 164 feet will be permanent pen, 1 use of the 164 feet will be permanent pen, 1 use of the 164 feet will be permanent pen, 1 use of the 164 feet will be permanent pen, 1 use of the 164 feet will be permanent pen, 1 use of the 164 feet will be 164 feet will be permanent pen, 1 use of the 164 feet will be 164 feet dition to this permanent pen, I use colony pens, and will build more this



Easy Poultry Accounting

By M. Hayes. FRIEND of mine has two breeds A FREEND of mine has two breeds at the present time and he wishes to make a thorough comparison of the two and then specialise in the more profitable breed. The system of accounting that he is following in keeping track of his two poultry houses is as simple.

that it is worth passing on.

There is a feed bin in each of the pens with a card tacked to the wall above it. Feed is brought to this bin in bushel lots and a note made of each delivery and its value on the card above the bin. On another card 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, such as poultry sold and old fowl disposed of are also kept track of on this card. The time required for this simple system is unappreci-for this simple system is unappreci-

The feed for these two pens of 100 birds each is bought in wholesale lots. This businesslike poultry man insists that many promising small poultry plants are made a failure of by hand to mouth buying.

#### Hints for May

PERSONAL attention to the hirds\* cen'ts.

Clean the nests occasionally, and put in a fresh supply of nest material. Uniform nest boxes add to the at-

tractiveness of the house.

White Diarrhoea is contagious among your chicks.

The purchase of a few baby chicks from some fine pen of birds will make a splendid start, if one cares to start If the breeding hens were properly

bred and mated one need not be sur-prised to find some of the chickens developing into finer specimens than their parents. Never, under any circumstances, keep more birds than can be taken care of well.

Green food is necessary for all am of poultry, but doubly so for the little

chick. Water and green food are cheap and very important. He sure the haby chicks have plenty of exercise. Keep them busy, Keep the hopper full of dry mash all of the time. This gives the chickens an opportunity to balance

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PECIAL RICES III halflozen ots or more.

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### WHEN IS A GOOD OIL NOT GOOD?

WHEN it's used in the wrong place. You cannot expect a heavy oil designed for use on a low-speed, high-power tractor to lubricate efficiently the finely adapted bearings of a high-speed, low-power tractor.

For every part of every machine there is one right oil—and it's worth money to you to find it.

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#### Closer Skimming Easier to Turn

You will understand the principle thoroughly, and realize its importance when you read the principle of the principle of the principle of the patents of the "Superior" feets and the patents of the "Superior" feets and the patents of the control of the patents of the control of the patents o

The ONTARIO MACHINE CO. Limited

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### At Home with a Veteran Institute Lecturer

free from stone and fairly level. The workable fields are all square, 13 acres in extent, and fenced with wov-en wire. A small creek runs through a part of the farm, which made it difficult to square some of the fields,

a part of the farm, which made it difficult to square some of the fields, but the problem was deadly solved by sowing the creek banks with a good permanent pasture seed mixture and using the land for that purpose. This permanent parture is near the barn, and therefore very convemient.

A five-year rotation is followed with mixed grain followed, then hoe crop, followed by pure grain for seed, clover hay on the fourth year, and thay or passure the fifth year, and thay or passure the fifth year, and the feed I need, explained Mr. Sheaver. "I buy considerable oil cake and coiton seed, but I sell a corresponding amount of seed grain."

Latir year the seed grain feature aslatir year the seed grain feature aslatir year the seed of grain."

Tile Draining.

On a farm such as this tile drains On a farm such as this life drains are almost a necessity. They are always profitable. "I did my tiling 25 stars ago when I could get shor at \$1.55 a day and tile for \$10 a thousand, said Mr. Shearer. "I have been getting the benefit of those tiles for 25 years. My father thad old stone drains. They sor 56 years. My lather thad old stone drains. They were all right as long, as there was afree run of water, but they rapidly filled with earth and then really acted as a spring in the-field. Even yet we occasionally put in a tile when we see that it is needed."

"Then you co able," I remarked. consider tiling profit-

"If I were to get a new wet farm," lectum. Mr. Shearer declared earnestly, "til-atill ing is the first thing on which I would thom

spend money. I have spent fully \$1,000 on tiles for this farm, and I have received dividends every year on every dollar of the thousand, as well as gotting the principal back soveral times over."

well as getting the principal back several times over." Hogs are a specialty with Mr. Shearer, and he has been exceptionally successful with them. The poutity plant has been increased as investiment and labor considered, his pure-bord flower Legherns have proven themselves the best money makers on the farm. These departments of Spruce Lodge will be left, however, for fail mention in a future issue of Farm and Dairy. The orchard and garden supply the family with severything in the line of fruit and vogethies, and also add a nice little penny to the farm income.

John Shen and Shen and the farm is to make the farm also add a nice little penny to the farm income. It is to this conditions and the farm is to make the farm and worked for a penny planted and worked for a penny land the farm on what he farm has the farm now made the farm and Mrs. Able in every branch, and Mrs. Able in every branch, and Mrs. Ablesses and real interact, the bown and the second in the second control of the second control of

They have now made the later proma-able in every branch, and Mrs. Shearer's central interest, the home, is now to be remodelled. When this last operation is complete they will have an attractive self-sustaining home, with which anyone might, well be satisfied. Mr. Shearer expressed

be satisfied. Afr. Shearer expressed their ideal well when he said:

"A farmer is as independent a man as lives. If he has a well-kept garden to the said of production. Our ideal is a said-said ing farm home. We have realized it, and we would not change places with any one in the country."

A good sentiment for an institute lecturer, is it not? And it is better still to find the ideal so near realization.

#### A New Home from the Old One (Continued from page 7.)

large windows side and because of the south-ern exposure, sunlight all day long. There were still two rooms downstairs. One, a bedroom of ample proportions I left as such as there are many times when a downstairs bedroom is a great convenience. The big, old fashioned kitchen I divided oig. oid rashloned kitchen I divided into two rooms. One part made a good sized dining room, the other and amalier part a convenient kitchen. The old summer kitchen I converted into a weakroom, where the men can clean up before coming into the house.

I lavished more thought on the planning of that kitchen than on any other part of the house, or perhaps than all the rest of the house put to-gether. I believe I got my ideas of the fundamental points of kitchen gether. I believe I got my ideas of the fundamental points of kitchen construction from a peep that I was once permitted to have into the kitchen of a dining car. There I saw the chef standing in one place, reaching every way and with hardly a move, preparing most appetiting meals for a large number of people. I re-built the kitchen of the old house on the same principle. On one side looking west, there was a double window. In frost of it I have the sink and drain board. The stove is on the opposite side of the room, and the space between the sink and store is just four feet, six inches. Both are close to the swing door leading into the dining room and the space between disling room and kitchen that is not occur in the door, is illied with a dumb with the control of the contr

on three maining wait also is almost taken up the south-with a large cupboard. I have no panall day try in my ideal kitchen. Cupboards two rooms are more satisfactory and everything my of ample is right there in the one room, where h as there I can get it with the least effort.

Inside Conveniences and Comforts.

inside Conveniences and Comforts.

Of course I have running water. As
I mentioned before, the timbers of
I mentioned before, the timbers of
I mentioned before, the timbers of
and house were very heavy and
after the second force water to the
decided the mential arithmetic, John
decided the second force water
enough to support were quite heavy
enough to support were
enough to support water
from the eave troughs runs; dwater
from the eave troughs runs; dwater
from the eave troughs runs; day
gravity into this tank, and we are
running water at the sink and in the
support of the sink.
All of the running system is soft. The
bathroom is what is teft of a small
bedroom after part of it had been
taken up with the water tank.
We have just completed our third

taken up with the water tank.
We have just completed our third
winter in our new old home, and they
have been comfortable winters. I
have told-how John made the outside
weather tight. Inside I sposed of
all the original coal histors at a
neighbor's sale, and realized half of
the price of a new and up-to-date hot
aftr furnace. I was afreid at first that
the pipes to the second floor would
have to be after some control of the price the pipes to the second floor would have to be exposed, marring the appearance of some of my rooms, and this almost decided me in favor of a new pipeless furnace. The local the smith, however, assured me that be could push flat, oblong pipes through the partition with wall registers the partition with the same for the second floor, and this was family the second floor, and this was family the second floor, and this was family the second floor and floor flo

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HINMAN

In fact, so far as I am concerned, no labor at all, as John cares for the furnace.

furnace.

Our lighting system consists of three manule lamps and an equal number of old fashioned small-lame. We expect to have hydro-electric within the next couple of years, and in our remodelling we wired the house for electricity. Otherwise we would have put in acetylene or the hollow wire stating as years. gasoline systems, both of which we know to be good.

easoline systems, both of which we know to be good.

Before closing this little sketch, I must tell about the treatment of the old walls. They almost caused us to give up in despair; the plaster was loosened in so many places. A commercial preparation known as wall board solved the problem. We cut the dose plaster in squares and tacked in wall-board in its place, the join being filled in with putty and covered over with a strip of cotton pasted on. The new partitions were built of this same material and when placed over, one would never know placed over, one would never know placed over, one would never know the word of the place of t to which we gave a coat of varnish.

The woodwork all through downstairs was white enamel and upstairs painted.

Our old house thus renovated, in our eyes at least, is more beautiful than any of the new homes built in than any of the new homes built in this locality. And what was the coast? I am almost atraid to mention it for fear of not being believed. It stailed just \$750 for all the fielp bired, all bathroom and furnace ceulpment, all other materials purchased, but not our own work. A new house as good would cost \$3,600 or more.

> Too Much Money By Chas. B. Driscott.

By Chas. B. Briscon.

TOM PARHM, a lawyer friend of mine, has gone to farmine, has gone to farmine, a big clear, out where his Showshire stables are. Now Tom is not a farmer boy. He never knew the healthy loy of freesing cars and nose and toe while hauling logs through drifted show. In fact he never milited a cow, and doesn't do it even now. He made and doesn't do it even now. He made ten million shining bones, and all the other things he owns, by cheating hangmen of their prey and taking all the loot for pay, so he doesn't miss a million much when spent for pacing cows and such.

Tom never saw a farm, I guess, until he purchased "Brown's Distress." That's what the neighbors called the glace he bought last fall. "Twas a displace he bought last fall. Twas a dis-grace to hear the people acreabouts make sport of Parhm with rabid shouts for buying swamp and hills of sand with cash that might have bought him.

My lawyer friend is cutting down the hills. He motors from town most every day with some new scheme for

the hills. He motors from town most cvery day with some new scheme for tripation, or some dream of how to spend a lot of cash in raising cameia on bran mash, or other plan more fool ich still. He's built a mansion on one hill and moved two swamps a 'alf a man should be succeeded by the still s

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Three kinds, Regular, Adjustable and Swivel. The Regular Blanger fills the bill in most cases, the Adjustable and the bill in most cases, the Adjustable of the both lateral and vestical adjustment of the bill where there is not recently and the Swivel where there is not recently the track in the unual way. The trollery in each case have faoiler Bearings, and are made for use with

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The enclosed track, made from sheets of 18 guate special steel pressed into tubular shape. Carries the heaviest of doors without sagsing. Smooth running surface, free from obstruction winter and summer. The trolleys run inside, and summer. The trolleys run inside, and campot become derailed. Camplete promite from the trubles common with sedinary fraction and hangers.

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# roduction and

GAIN or no gain the cause before the farmers of Canada is as clear\_ass it was last year—they must produce abundantly in order to meet the demands that may be mei, and be ledieve this to be capecially true in regard to live stock, the world's supply, and the must be particularly affected in this vast struggle."—HON. MARTIN BURBELL, Minister of Apriculare.

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 flocks of Europe | DAIRYING.—Home consumption of milk, butter 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 664,508 tons of beef, mutton and lamb, of which 364,245 tons came from without the Empire. Out of 430,420 tons of beef only 104,967 tons came from within the Empire.

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

and cheese has increased of late years. The war demands for cheese bave been unlimited. The Canadian cheese exports from Montreal in 1915 were nearly \$6,500,000 over 1914. Prices at Montreal-Cheese: January 1915, 151/4 to 17 cents; January 1916, 181/4 to 181/4 cents. Butter: January 1915, 24 to 2834 cents; 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

Tens of thousands of Canada's food producers have enlisted and gone to the front. It is only fair to them that their home work shall be kept up as far as possible. The Empire needs all the food that we can produce

PRODUCE MORE AND SAVE MORE MAKE LABOUR BPFIGIENT

SAVE MATERIALS FROM WASTE SPEND MONBY WISHLY

THE GOVERNMENT OF CANADA

THE DEPARTMENT OF AGRICULTURE

THE DEPARTMENT OF FINANCE

#### Why Not a Wind Break Around Farm Buildings

(Continued from page 6.) land than is the white pine. Because of its very dense foliage the white cedar makes an excellent protection for poultry yards and gardens. It is, however, slow in growth as compared with the Norway sprice or the pines.

British Columbia Planting. "In British Columbia the Douglas fir (pseudotsuga mucronata) is pro-bably one of the best for windbreak purposes. It is thick and bushy and of rapid growth. The western red cedar (Thuya plicata), on account of cedar (Thuya pileata), on account of its dense foliage, should sake an ex-cellent shelter-belt. I am of the opin-ion that in the dry best region of British Columbia the bull pine (Plausa ponderosa) will be found more sat-isfactory tree than either the Douglias fir or the cedar. It has deep foliage, endures droughty conditions and in this region would probably make fas-

"Deciduous trees, because of their "Deciduous trees, because of their make as effective shelter-beits as the make as effective shelter-beits as the eredyreens. Hawthorns (contangus), Manitoba maple (Acer negundo), Honey locust (gledistia triacauthos), Willows (Salix), cottonwood (Populas deltoides), yellow locust (Robbina pseudoacacia) have been planted for this purpose and can all be grown in the more temperate portions of East-outher the more temperate portions of earl Canada. One of the objections or using the cottonwood about an orchard or garden is its habit of send-ing up root suckers. Deciduous trees, because of their

chard of garden is its habit of send-ing up root suckers.

"The choice of species for a shel-terbelt depends largely upon local conditions as well as the require-ments of the owner."

#### Varieties for the West.

I do not know from experience what trees are best suited to shelter. belt planting in the prairie provinces, so again I referred myself to the For-estry Branch for information and have been supplied with the following, the varieties being classified according to their suitability to various soils:

Heavy clay: Manitoba maple, green ash, elm. cottoswood, willow, farch. Scotch pine. In south-eastern Manitoba the soft maple, scrub oak and basswood may also be planted.

Moist sandy loam: Manitoba maple, green ash, elm, cottonwood, willow, birch, larch, Scotch pine, Jack pine and white spruce.

Dry sandy loam: Manitoba maple, Dry sandy loam: Manicola maple, Russian poplar, some willows, Gootch pine, Jack pine and white spruce. Sand or gravet: Russian poplar, white spruce, Scotch pine and Jack

Low wet land: Ash, elm, cetton-wood, black poplar, larch, black spruce and willow

and winow.

In my travels over the prairies, always felt lonesome. I have also journeyed through sections to the south of the border, which have been longer settled and which are now fairly well planted to trees. There is all the difference in the world. The treed prairie is homelike; the treetreed prairie is nonelike; the true-less prairie is not. However, I ex-pect a new laterest in tree planting that will relieve the monotony of the that will relieve the incinctory of the prairies and I hope, too, the monotony of many of the rural sections of the East, where the hand of man has gone too far in removing the tree growth, will inspire planting afresh. But let me conclude with another paragraph from Jack's letter.

from Jack's letter,
"My ideal is a productive farm, a
comfortable home and both heautifal.
My dad never did his son a better service than when he plasted trees is
sech numbers that people thought
him crasy. He did the biggest part
foward making our farm, in my owns
at least, the most beautiful in the
fowards.

feet above is done is ed for w which all first it w space co ence that to furnis that the beween to barn. On Moore is that the as little lambs are of growin market, a several e part of the Moore pt

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

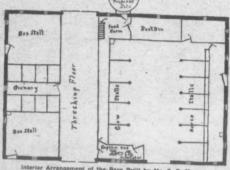
feet above the barn floor. No feeding said Mr. feet above the barn moor. No feeding is done from this floor as it is reserved for winter quarters for the sheep, of which about 30 are usually kept. At first it was the intention to have this first it was the intention to have this space covered over, but Mr. Moore has found after one winter's experience that the iron barn, being practically draft-proof, it is not necessary to turnish this axira protection, and that the sheep do better with nothing that the sneep do better with nothing beween them and the main body of the barn. One unique use which Mr. Moore is making of his granary, is Moore is making of his granary, is that the bins are used in the spring as little box-stalls in which ewes and lambs are kept. He makes a specialty of growing early lambs for the Easter market, and since the granary is market, and since the granary is warmly constructed and there are several empty bins toward the latter part of the winter, these serve excel-iently for the purpose to which Mr. Moore puts them. Leading up from the feed room, a stair runs to the level of the floor of the mows and in-stead of putting down the feed on the thresh floor, it is passed through coates, directly from the mows to the feed passages. feed passages.

Construction of Stable Walls,

The outside wails of the stable are simply constructed. The main frame is made with 2 x 6 scantling, which is made with 2x6 scantiling, which furnishes a six-inch doad air space. On the outside of this frame, the metal is fastened, while the inside is covered, first with one ply of sheeting, supplied from the old barn, then with two ply of white building paper, and disally one ply of V-joint. "It is surprising how warm the stable is."

(Continued from page 4.) . .

they cannot swell and stick and are tached to the metal siding and carried practically unbreakable. For ventila-tion, three shafts are provided, one in front of the horses, one running up spite of the fact that we had very few from the feed room and one from one cattle in it, the turnips that we kept in one corner with nothing over them but a little straw, showed very little at the top of the pite or next the wall. It also not the front to evidence of frost at any time, except at the see each discharges in the second of the pite or next the wall. It am sure there will be no danger of



Interior Arrangement of the Barn Built by Mr. C. E. Moore.

down to the permanent water table about seven feet below the surface of the ground. Into the main barn, light is admitted by a window in each gable 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 metal with reinforced glass, so that they are absolutely fireproof and al-most unbreakable. Each is controlled they are absolutely freproof and almost unbreakable. Each is controlled by a rope from the floor of the mow so that it can be opened at will at threeling time, or whenever rentiles in required. Metal care troughed in the control of the control of

Where the granary is located over the stable, moisture will find its way through the floor and into the grain, them freezing when the stables are ornamental purposes. For lightning thus injuring its vitality and germin-fall of animals."

The windows, of which there are supplied that the company claries will not use the two feet of grain next the plenty, are constructed with metal divide the lightning and at each cor. foor over the stable for seed.—H. frames and re-inforced glass so that ner of the barn a copper cable is at- Grose, Simcoe Co., Ont.

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"Chew It after every meal?" STATE WINDS PROPERTY AND ASSESSED ASSESSED ASSESSED.

advertising reliable goods. "They want to know you; also want to know you; also want to know you saw the Ad. When writing them don't forget to tell them



#### How We Have Used Cement in Our Farm Improvements

(Continued from page 7.) on the farm and a concrete floor in on the farm and a concrete noor in the cellar and woodshed. We do not know how we would get along with-out any one of these improvements. An Up-to-Date Milk House.

One of the many ways in which we have utilized cement was in the construction of a milkhouse. This house is all concrete except the doors, win-dows and roof. The roof is covered with galvanized iron shingles.

In building the milkhouse we built be walls first and then filled it up with earth to a level of the platform on the milk wagon. We let it stand for a short 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 use in cooling the milk. We can then run the water wherever we ant it for watering the stock

It is surprising how many farms have scarcely seen cement, when it can be used so easily. Its use does not require any great mechanical skill, but merely a little common sense and but merely a fittle 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 solid, and with good clean gravel, anyone can make a solid

Since making the concrete improve ments already mentioned 'we have erected a new barn, silo, etc. Cement was used to construct the feed mangers and also the approach under which is a root cellar 14 by 45 feet, all floored with concrete reinforced with one inch reinforoing iron overy 16 inches apart., This makes a very solid job, as shown by the fact that a 20 horse power engine and 7,800 pound threshing machine were driven on it at the same time

#### Two Gallons of Paint

(Continued from page 8.) off into nearly hysterical laughter

"Well go on, laugh, then, but when you see the paint bill I'm going to have to pay, you won't laugh so much."

"Oh Sam" and "Oh Sammy"—"Are ou really?"—"Do you mean it, Sammy?"

"I certainly am"—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 middle of October the work was all done. In a splendor of new paint the "Old Greenway place" again looked the part of the prosperous farm it used to be.

The fine old house with its new

The line out noise with mis new shiny suit of clothes; the big old barn with its grand red coat; the white front fence, new-painted and with green gate hanging on both fringes; the tall white windmill tower with its new painted mill now whirring steadily in unwented lubrication; all vied in beauty with the modest hen house. The hen house now with a fine gray

The hen house now with a fine gray trimming setting off its neet whiteness. Something had bappened.

The "something" whatever it was 
had spread all over the place and with 
a world of work yet to be done, it 
could easily be seen that the old farm was coming back into its own. Some-thing had happened. What it was may be guessed by us if we listen to some words in the president's room of the Farmers' National Bank.

"Mr. Haywood, I want to borrow \$2,000." Better tell me about it, Sam." "Well, I want a manure spreader, some new fences and gates and a silo and I've got to bave some real cows and a bill oak. I've got to get a calf for I want a good one. I can get the Write for Our Special Offer Pays for Itself in 7 days

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Have worn axles made the wheels all out of gear? You sould have prevented that condition—and you can still help it with

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Cotton Seed Meal Linseed Meal and Flax Seed H. FRALEIGH, Bez 3, Ferest. Ont.

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### **GASOLINE ENGINES**

11/2 to 50 H.P. Stationary Mounted and Traction



WINDMILLS

rain Grinders, Water Boxes, Steel aw Frames, Pumps, Tanks, Etc. GOOLD, SHAPLEY & MUIR CO., LTD

### Even a dollar earns interest when deposited with us. We pay 4% on daily balances.

And when you have \$100 on deposit you can purchase a Standard Reliance Mortgage Debenture that will pay 5%.

A \$1000 Debenture for A \$1000 Debenture for five years, pays in interest, (if compounded) \$250, or a gain of 28% it is one of the safest, if not the safest, investment, for never a dollar has been lost in Ontario Mortgage Denbentures. Write for copy of our book, Profits from Sav-inga. It tells you how to become a debenture owner. Address Dept.





operader and fences on time, but I can louse a better near for cash. Will you let me have it?"

the nice specches he had planned to make as an appeal for the money, but his honest gray eyes bazed into the banker's face and told his story for him weil-occur than all his careful preparation ever could have done,

preparation ever could have done.

"Well, Sam—inten. I've been
watching you since I saw you loading
up that whating lead of paint last
August and if you had forgotten to
paint that windmid and the machinten I samilar, here, let, you have itery, I wouldn't have let you have it, As it is—well, is 7 per cent. all right? You've certainly done the right thing by your place and I'll just bet \$2,000 or you. What kind of cows are you getting?"

getting?"
"Well, I don't know yet, but they're
geing to be pure bred dairy cattle—
thank you ever so much." And Sam
stopped to laugh with the old banker.
But a great light had shone in upon

But a great nate had should in apparent to the mone again.

Sam, I've always notifeed," said Mr. Haywood again, "that a man who paints his burn and house and doesn't forget the machinery too, a ways pays h's note when due."

in two weeks the scrubby four or five had departed for the stock yards and in their stead 10 sleek, beautiful, real dairy cows waited contentedly for milking time.

Back of the barn were the forms for the concrete foundation for the new

Leaning with one arm on the barn-yard fence and the other around the waist of a very happy wife and a very happy young farmer, Sam stood look-ing at his new herd.

'Aren't they beauties, Sam?''
"Yes, Janet, and if you hadn't painted the hen house. I'd never have seen the light. Who would have thought that two gallons of paint would have made such a difference?"

### FILLING A LISTER SI

a Lister Ensilage Cutter Operated by a Lister Gasoline Engin



Mr. R. McEnery, of Erin, not only filled his own sile as above, but also filled a considerable number of siles for his neighbors. Write and ask him what he thinks of his outfit. The Complete Outfit.

Write for Catalogues to Dept. K. R. A. LISTER & CO., LIMITED, TORONTO WINNIPEG QUEBEC ST. JOHN, N.R.

### Production



### Massey-Harris Cultivation and Seeding Bulletin

A Good Start Is Half the Battle

THOROUGH cultivation and correct seeding are necessary in order to raise satisfactory crops.

The days of scratching the surface with a crooked stick and scattering the seed on the top of the ground are a thing of the

If weather and other conditions are favorable, such methods might produce some sort of a crop, but bumper crops can only be produced by careful attention to the preparation of the seed bed and putting in the seed.

The most noticeable result of cultivation is the pulverizing of the soil. This makes it easier for the hair like roots to get through, increases the amount of surface on which the plant can feed, and, at

the same time gives the soil a greater capacity for holding moisture. And not only does it increase the capacity of the soil for holding water, but also reduces the loss by evaporation.

Acration of the soil is another result of cultivation. The oxygen in the air tends to make the mineral matter of the soil more soluble, and is necessary to the decomposition of organic matter upon which the plants feed.



Thrift



In many other ways cultivation is a benefit to the crop, and it can be readily seen how important it is that the soil be given proper treatment.

It is just as necessary that the seeding be done right—the right amount of seed sown in a correct manner, at a uniform depth and so distributed as to give each

plant a chance to develop and draw nourishment from the soil.

Massey-Harris Cultivating and seeding Machines have given satisfaction to three generations of Caradian farmers.

In both lines there is a wide range to choose from, implements especially adapted to varying requirements, and each one the best of its class.

Massey-Harris Co., Ltd. Branches at Montreal, Moncton, Winnipeg, Regina, Saskatoon, Yorkton, Swift Current, Calgary, Edmonton—Agencies Everywhere.

### FARM AND DAIRY

AND RURAL HOME PUBLISHED EVERY THURSDAY



SUBSCRIPTION PRICE, \$1.00 a year. Great Britain, \$1.00 a year. For all countries, except Canada and Great Britain, add 50c. for postage. ADVERTISING RATES, 12 centra s line flat, \$1.65 an inch an insertion. One page 68 inches, one column 12 inches. Copy received up to Saturday preceding the following week's issue.

UNITED STATES REPRESENTATIVES STOCKWELL'S SPECIAL AGENCY Chicago Office—People's Gas Building. New York Office—Tribune Building.

CIRCULATION STATEMENT The Date of the Company of the Compa OUR GUARANTEE

We guarantee that every advertiser in this leave to reliable. We are able to de this because the advertiser in the serious of the serious of Farm and Dairy are est carefully defined in colorism of Farm and Dairy are est carefully entered to the serious should any advertiser been dead dishonestly extensive the serious advertisers. Should any advertiser been dead dishonestly we will make good the amount of your less, provided such transaction occurs within one month. Your date such transaction occurs within one month who date such transaction occurs within one month. You date stated, it is a condition of this contract that in write stated, it is a condition of this contract that in write stated. It is a condition of this contract that in write ment in Farm and Dairy."

Rouse shall not ply their trade at the expense of the serious of the

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

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

#### The Latest Rural Necessity

THE automobile is the latest rural necessity. When Neighbor Jones, in a reckless 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 ditches or climb fences when a car swings in sight, as was once their practice, and in some sections at least a rural picnic looks like a meet of auto enthusiasts. The larmer'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 in the machine, lean 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 us to get more out of life,

#### Good Roads

RAILROADS are the great arteries of trade, still greater importance in the economic life of the nation. The better the roads, the lower the hauling costs. The better the roads, the better the opportunities for church attendance and social intercourse among rural peoples. This question of good roads is vitally related to all aspects of country life-economic, social, religious, educational.

We wish to emphasize our belief in good roads and our realization of their importance. We find that the attitude of Farm and Dairy on this prob lem has been misunderstood, principally because we have failed to throw up our hats, metaphorically speaking, for every movement presented to the public with a good roads label attached to it

Automobile highways between big cities, whose cost exceeds the utmost limit of their economic use, the Toronto to Hamilton fiasco for instance, do not meet with our approval. But the sane improvement of the highways over which the farmer drives to market and goes to church, appeals to us as one of the most necessary of all public improvements. Any movement in this direction will receive our hearty support, even if that support must be tempered with sympathetic criticism. All ill-considered and extravagant road improvement plans tend, we believe, to retard the improvement of the country roads that are used by plain country people.

### Community Breeding the Ideal

66T SOMETIMES fear," writes one of Our Folks who never writes unless he has something 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 by individual cows is a thing worth while, but 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 we can't compete with the older lands. They haven't gone after hig 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 cononunity work." It is always easy to go with the crowd. The man who would never, of his own individual initiative buy a pure-bred sire and grade up his herd, will go along with a community breeding scheme just because it is the casiest thing to do. The small dairy farmer, ambitious to improve, but held back by the cost of a good sire, and the smallness of his herd, finds in the cooperative breeding society a means to altain his ambition at little expense. Even the big cairymen, who can and do own purebred sires of their own, profit by community effort in the better market that develops for the sur plus stock of the community. Old land records may be easily broken, but their averages will never be exceeded on this side of the ocean until we adopt their community methods of breeding.

#### The Farm Home

FACTORY looks out of place in the open country. We see them occasionally and the effect that they leave is not pleasing "And yet," writes r. correspondent, "a factory in the country isn't any more out of place than the modern city-style house that many of our most prosperous farmers are building on their farms."

We believe that our correspondent is right. City architects design houses to fit the narrow lots and high priced lands of the city, where houses sit tight together in snug rows. The same type of houses, built in the country, appears stilted and awkward. As a general rule, too, the house planned by a city architect is not too well fitted to the requirements of a farm home.

We need a rural style of architecture. Just what style we will evolve, Farm and Dairy is not prepared to state. There are some characteristics, however, that rural architecture will have, The rural home will be built with ample grounds around it; land in the country is not priced 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 piazza space. The design will be simple and effective. The interior of the model farm house of the future will be designed for convenience and comfort. Proper provisions will be made for heating, lighting and sanitation. 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 this

new, style of rural architecture, will come a breed of rural architects who appreciate the simple yet attractive lines required to make a farm home beautiful, as contrasted with the more elaborate architecture that will always be characteristic of the city.

#### Wasted Fertility

F the dollar and cents value of all the fertil izing ingredients lost in barnyard manure this spring could be collected together for the Palriotic Fund, there would be no more need for publie subscriptions. This may be a gtrong state ment, but it is a true one. Canadian farmers of to-day have advanced a stage ahead of the old pioneers who moved their buildings periodically to get away from the accumulations of manure but our flagrant waste of fertility still amazes visitors from lands where the value of manure w a fertilizer is more fully appreciated than it is here. A few years ago, for instance, the students at Cornell University were asked to draw cartoons depicting the one phase of agriculture that impressed them most. The prize went to a Japanese student at the University, who depicted an army of Brownies carrying away heavy baskets of valuable fertilizer from the exposed manure heap of an American farmer. That was the phase of American agriculture that impressed him most,

This cartoon was drawn a few years ago, but the feature noted by the Oriental is still one of the weaknesses of our agricultural practice. Farming may be compared to the Niagara of milk seen by many of our folks at the Canadian Na. tional Exhibition last year. The same milk flowed over the precipice again and again. Suppose that a leak were sprung in the containing tank below and a little milk lost at each round. The miniature Niagara would soon have been dry. Eaca year the fertility of the soil is made and re-made through the crops. If a little is lost each year, due to careless handling of the manure, or other causes, the crop producing power of the soll is gradually depleted until the profits of working the land ceases. This has already happened on thousands of farms in Eastern Canada, and on not a few in Western Canada. In fact, many soils would now be utterly useless aid not nature step in and call a halt on this profligate agriculture ere her storehouse of fertility is completely exhausted. A permanent agriculture can only be built on a system of farming that properly conserves the fertility of the soil.

### Where the Sire Counts

(Country Gentleman )

N a dairy famo that had ten or twelve scrub cows, a carefully selected pure-bred dairy sire was installed. That this sire was a most potent factor for profit appeared in the first ten of his daughters to freshen. They averaged well above 375 pounds of butterfat each as three and four year olds.

Without doubt these results were influenced somewhat by other factors—the silo, a comfortable barn in which are stored an abundance of good alfalfa hay and plenty of farm-raised concentrates, and a general idea of a balanced ratios. But without the introduction of good dairy blood all other improvements would have been seriously handicapped.

To rank as a real dairyman one should have all the above equipment, and also scales, milk record and Babcock tester; and should weed out cows that fall much below the average production as fast as promising heifers freshen to fill the stalls. A teacher from a neighboring state maintains, and not without truth, that the leaf pencil is the most important tool employed in the business of farming. After all, real success in dairying comes from the careful selection and employment of many factors.

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New United Farmers' Clubs Being Formed

Being Formed

Scretary J. J. Morrison, of
the United Farmers' Cooperative
Co., Ltd., has addressed several
Farmers' Clubs throughout the prevince during the past few weeks
On March 27 a new club was organized at Balderson, Lanark Co., of
which Ed. W. Watt was elected president, and R. S. McTavish secretary,
Datrick Representative Forsythe also

District Representative Forsythe also addressed the meeting

addressed the meeting.

The rollowing day a meeting of the
Perth branch of the South Lanark
Farmers' Club was attended. A resolution of affiliation with the central

intion of affiliation with the central company was passed.

A new club was organized at Carliale, Wentworth Co., on April 17, with a membership of 13. The officers elected were as follows: President, Silas Gaddye; Vice-Président, Ed. Haward; Secretary, Chas. A. Newelj; Directors, Elmer Adamson, Jaa. Smith, R. Gargle, and Jas. Boyle, all of Carliale. About 25 were present at the meeting.

United Farmers Plan Active Campaign

Campaign

Lares for an active campaign by
the United Farmers' of Ontario,
were completed at a meeting of
the board of directors held in Toronato, April 30. In order that the farmers throughout Ontario, who are unable to attend the annual conventions
of the association in Toronto, may be
made better acquainted with the objocis and aims of the Association and
what it is eadeavoring to accomplish,
general plans were completed for the
holding of five district conventions will holding of five district conventions will be held at Chesterville or Wischester in Dundas county for Sanstorn Ontario, at Belleville for Central Centario; Palmerston, Petrolla and Woodstock For Western Ontario. The dates for the western Ontario. The dates for the Western Oncario. The cases for the meetings will be arranged largely to suit the convenience of the speakers. In the meantime they have been set tentatively for June 7 to 14. It is intumded to hold morning and

afternoon sections at each point, and to invite all the farmers' clubs and granges in each district to send delegranges in each district to send delegates. As far 's possible the speakers should be supported to the speakers are supported by the supported

Central to the Locals."
At the aftermoon sessions fair, Crarae
will speak on, "The possibilities of
the Organized Farmers," Movement
and some of the Dampers," Mr. H.
Halbert, of Melancthon, the president
of The United Farmers' of Ontario,
on "Why Outario Farmers Should
Rally at the Call." Mr. J. J. Morrison, the agerciary of the son, the secretary of the non, the secretary of the same organi-sation, will speak on "How Local Or-sanizations Can Help Out the Cause." It is possible that local district asso-ciations may be formed at each conclations may be formed at each con-vention point to arrange for future vention point to arrange for future conventions and push the work of or-suntsation in their districts. Should any of the Governments will be able to act good substitute. In ad-dition to set good substitute. In ad-dition to the foregoing meetings a series of local meetings are to be held in parts of Fork and Quitario counties

curing June, which will be addressed by Mr. Wohn Kelnedy, the vice-presi-dent of the Grain Growers' Grain Co., of Winnipeg.

Association Pins.
The directors approved of a design for an association pin. The design shows a pair of clesped hands with a maple leaf as a background. The property of the movement all through the province They are quite handsome and will provide a sourse of revenue for the association. Association Pins.

The directors decided that the United Farmers' of Ontario should affiliate with the Canadian Council of Agriculture which already includes all Agriculture which already includes all the western farmers' organizations. Mr. R. H. Halbert, the president of the Omtario Association, has been elected a rice-greatent of the Canadian Council of Agriculture. Mr. Halbert and Mr. Blatchford, of Oxford county, were appointed a committee to confer with a similar committee to confer with a similar committee to confer with a similar commence of the comment and the c

operative Company, Limited, in regard to devising a comprehensive plan of action for pushing the farmers' movement in all parts of Ontario. This may include the publication of a small paper. The directors present were: President Halbert, vice-president, A. J. Reynolds, Sollna; E. A. Van Allan, Aultsville; L. H. Blatchford, Embro, and Secretary J. J. Morison, operative Company, Limited, in regard

Regulation Regarding Delegates

Regulation Regarding Delegates

AMATTER of considerable interest to the local Farmers' Chube
est to the local Farmers' Chube
throughout the province was
floated in the recent meeting of the
directors at the recent meeting of the
directors at the recent meants of ortice the second of the recent the Central, having anywhere from ten the Central, having anywhere from ten to twenty members, may send one delegate; a club having 40 affiliated members may send two, and a club having 60 affiliated members may send three, and so on in the same propor-

At the time of the last annual con-At the time of the last annual convention in Toronto, a committee was appointed to deal with this matter. Mr. J. Morrison, the Secretary of the Association, was a member of this committee, and had certain information had intended to key before it, but too ha intended to key before it, but was unable to meet with the committee. The committee later brought in tee. The committee later brought in a recommendation that only clubs have a recommendation that only clubs having 10 to 60 members of 60 members o a recommendation that only clubs havgreatly reduce the number of delegates at the next convention. The directors, therefore, have rescinded the resolu-tion adopted at the convention, and assumed the responsibility for replac-ing it with this new requisition, which it is believed will amply eafeguard the financial interests of the Central, with-out imposing a hardship on the locals.

Did you ever consider this advan-tage of clover: Its dense growth acts as a smother crop to the weeds whose germination is first induced by the clover shading the soil and keeping it moiet.

The Supremacy of the De Laval Cream Separator

Over 35 years of experience and thousands of tests and contests the world over have demonstrated the De Laval to be the only thoroughly clean skimning cream separator, under all the varying sectsal use conditions, favorable as well as unitavorable.

This applies to every part of the ma-chine—to the bowl, the driving mechan-ism, the frame and the tinware. The De Laval Patent Presceted Spiti-Wing Tabular Shaft Peeding Device makes possible greater capacity, cleaner skim-ming and a heavier cream than can be secured with any other machine.

Supreme in Durability

The De Laval is substantially built. The driving mechanism is perfectly oiled and the bowl runs of a speed, all of which are conducive to durability and the long lifer of the conductive to the conductive of the

Supreme in Improvements
This has been the greatest factor in
De Laval success. Not a year goes by
De Laval success. Not a year goes by
De Laval machines.
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engineers in America and the best
engineers in America and the constantly experimenting and tender
onstantly experimenting and those
which stand the test are adopted.

Supreme in Service

With its worldwide organization and with agents and representatives in almost every locality where cews are must every locality where cews are more company to insure that every De Law Company to insure that every De Law Company to insure that the very best and the greatest possible service from his machine.

De Laval users are satisfied users, not only when the machine is new, but during the many years of its use.

Supreme in Sales

Because they are supreme in efficiency, construction, durability, improvements, service and satisfaction, more De Lavai Cream Separators are soid every year than all other makes combined.

Order your De Laval now and let it begin saving cream for you right away. Remember that a De Laval may be bought for cash or on such liberal terms as to save its own cost. See the local De Laval agent, or if you don't know him, write to the nearest De Laval office as below.

DE LAVAL DAIRY SUPPLY CO., LIMITED

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50,000 BRANCHES AND LOCAL AGENCIES THE WORLD OVER

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WONT BREAK- WONT BIND .

Griffith's Handy Tie is as strong as two knots, but it won't bind. You could the or untie it with mitts on. It's as handy as a snap and ring, but it won't break. If your dealer can't supply you, send a quarter and get one by mail

Griffith's Handy Rope Tie

You can see doseon of Griffith's money-savers at your dealer's.

Ask him for our list of harmon specialties. Or write to us,
mentioning this paper. We will see that you got our goods at regular prices. L. GRIFFITH & SON, M Waterloo St. Stratford



Lune

80 HEAD

Sir Henry Pellatt, Proprietor

65 FEMALES

The scarcity of farm help and other purely local conditions have necessitated the Announcement --- 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 public auction, 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 Francy 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 needs no recommendation. Note the illustration. 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 record females will be in calf to him and freshening 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

### Mark These

Sir Colantha Abbekerk Beauty Favorit Posch Dorothy Dorliska R.O.P at 2-yrs: 9,407 lbs. milk.

Lake Marie Butter Baroness Jemima Pietertie Look up her record in the catalogue.

Segis Schulling Prince Segis DeKol.

The sires to be offered are exceptional in breeding and type. The 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 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 make good in any herd. Look them up when you get your catalogue

Sir Colantha Abbekerk, the Jr. Sire, is a grandson of Dutchland Sir Abbekerk. Many of the females will be in calf to this fellow.

In addition there are a couple of splendid sons of this buil rang-ing from a few weeks to ready for service, all nicely mark-

ed, deep and typy, Any one looking for herd leaders will sure ly find them at Lake Marie. They are well grown - several ready for work. To see then but to be convinced of their worth.



SEGIS SCHUILLING PRINCE—one of our young sires— DeKol, and prominent at Toronto in 1915.



Keeper's lodge and entrance to Lake Marie

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 as—some of the finest in Canada. See also our Clydesdale foundation stock and our nodern poultry plant. We welcome you.

Sir Henry Pellatt, Proprietor, Lake Marie Farms

## Complete Dispersion Sale

Sr. Sire Segis DeKol

Every Animal Must be Sold

Jr. Sire. Sir Colantha Abbekerk

Among the many good cows in the Lake Marie Herd, we wish to specially mention: Jemima Pietertje, a show cow and a producer. She has a record of 15 lbs. butter per week, made several years ago as a young cow. Her offspring are specially good, and Lucy Pietertje, was first in her class at Toronto, 1915.

Dorothy Dorliska, who has a record of 9,407 lbs. milk in R.O.P. at 2 years, testing 3.7 per cent.

Winnie Pietertje Posch, 2-year-old, who, on very ordinary feed, 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 capacity and dairy development.

Canary Clothilde, a typical wedge-shaped cow of great sub-

Bell Posch, another large, well-proportioned cow with nicelybalanced udder and good teats.

These are only a few of the good ones in our string of 27 now milking. Many of the others will be coming in just about sale time, including some very sweet 2-year-olds. They will all be ready to do their best work in the heavy milking months

Look over the list of 68 females slated in the catalogue.

The Offering of Females is particularly strong. They trace to such great producers as Jenny Bonerges Ormsby, Blanche Lyons DeKol, Queen Butter Baroness, and others.



LAKE MARIE BUTTER BARONESS—the kind that Helstein breeders

### 80 Head Registered Quality Holsteins The Younger Stock



BEAUTY FAFORIT POSCH—A breedy helfer of pleasing type and good indication.

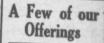
The Younger animals are all in fine condition and mostly from our senior sire, Segis DeKol.

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 long 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 them.

You buy them absolutely at your own bid, as not an animal will be reserved.



27 Females in Milk

10 Two Year Olds in Calf to Sr. Sire

Several Sons of Segis DeKol Fit For Service



Terms of Sale-sale. Sale to commonce at 12 o'clock, noon. CASH, unless otherwise arranged for on day of Trains from Toronto and north will be met at King on morning of sale. Also radial cars at Eversley that connect with Toronto Metropolitan line at Schomberg Jct.

FOR CATALOGUE WRITE TO NIGHT TO

R. S. Starr, Manager, Lake Marie Farms, King, Ont.

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Kol



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

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

S CLOBENLY he concentrated his color had left the girl's cheekt. But sage at a point on the lake three now, as she stood there breathing quarters of a mile away, it was quickly in her excitement, there came close to shore, and he was certain a change in her. She threw back her Sgaze 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 shifting 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 his heart gave a quicker throb. What he had seen was the flash of a paddle. He made out a canoe, and then two. They were movclose in-shore, one following the other, and apparently taking advant-age 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-fashioned He looked back in the direction kind 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 smile on her lips was sweet and welcoming, and now, so frankly that his 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 cry 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—."
"There is hope," he urged.

"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 coming along shore of the lake," he said. "Are

The smile left her lips. He was startled by the suddenness with which

the color ebbed from her face and the old fear leapt back into her eyes.
"Two? You are sure there are two?" Her fingers clutched his arm almost fiercely. "And they are comalmost fiercely.

"We can see them from the top of the rock ridge," he said. "I am sure there are two. Will you look for your-

She did not speak as they hurried to the bald cap of the ridge. From the top Philip pointed down the lake. The canoes were in plain view now. Whether they contained three or four people they could not quite make out. At sight of them the last vestige of

a change in her. She where back her head. Her lips parted. Her blue eyes flashed a fire in which Philip in his amazement no longer saw fear, but deflance. Her hands were clenched. She seemed taller. Back into her defiance. Her hands were clenched, She seemed taller. Back into her cheeks there burned 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

"An hour ago those canoes would have made me run off into the forest-

gan to traverse the boulder-strewn bed of the creek. Suddenly he said:

'You will not suspect me of cowardice if I suggest that there is not one chance in a hundred of them discovering us?"

discovering us?"
"No," she replied, with a glance so filled with her confidence and faith that involuntarily he held her hand closer in his own. "But I want them to find us—if they are whom I fear.
"In will show ourselves on the shore." We will show ourselves on the shore.

He looked at her in amazement be-

fore the significance of her words had dawned upon him. Then he laughed. "That is the greatest proof of your fairh you have given me, he said.
"With me you are anxious to face your elemies. And I am as anxious to meet them."

"Don't misunderstand me," she cor-rected him quickly. "I am praying that they are not the ones I suspect, But if they are—why, yes, I want to -with you face them-

They had almost reached the lake when he said: 'And now, I may call you Jose-

"Yes, that is necessary."

"And you will call me—"
"Paul, of course—for you are Paul
Darcambal."

"Is that quite necessary?" he asked. "Is it not possible that you might allow me to retain at least a part of my name, and call me Philip? Philip Darcambal?"

"There really is no objection to that," she hesitated. "If you wish I will call you Philip. But you must



Arbor Day Properly Observed in Norfolk Co., Ont.

and hide," she said. "But now I am also be Paul—your middle name, per-not afraid! Do you understand?" haps."
"Then you trust me?" "In the event of certain exigen-

"Absolutely." "But—surely—there is something that you should tell me: Who they are, what your danger is, what I am to

"I am hoping that I am mistaken," she replied. "They may not be those whom I am dreading—and expecting. All I can tell you is this: You are Paul Darcambal. I am Josephine, your wife. Protect me as a wife. I will be constantly at your side. 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 benind you. And be ready always-always-to use that-if thing so terrible must be done!"

she spoke she lay a hand on his pistol.
"And remember: I am your wife!"
"To live that belief, even in a "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 had not heard him. "Come," she said. "Let "Let us follow watch them from among the rocks."

She gave him her hand as they be-

"In the event of certain exigen-cles," he guessed.
"Yes." He had still assisted her over the rocks by holding to her hand, and suddenly her fingers clutched his con-vulsively. She pointed to a stretch of the open lake. The canbes were plainly visible not more than a quarter of a mile away. Even as he her trembling slightly he laughed. "Only three!" he exclaimed. "St Even as he felt

"Surely it is not going to demand a great amount of courage to face that number, Josephine?"

"It is going to take all the courage "It is going to take an them," she in the world to face one of them," she replied in a low, strained voice. "Can you make them out? Are they white men or Indians?"

"The light is not right—I can't de-le," he said, after a moment's scru-

"They are friends," she interrupted.
"Jean—my Jean Croisset—left me hiding here five days ago. He is part French and part Indian. But he could not be returning so soon. If they are

We will expose ourselves on the beach," he finished significantly

She nodded. He saw that in spill of her struggle to remain calm was seized again by the terror of what might be in the aproaching canoes. He was straining his eyes to make out their occupants when a low cry

out their occupants when a low try drew his gaze to her. "It is Jean," she gasped, and he thought that he could hear her heart beating. "It is Jean—and the others are Indians! Oh, my God, how thank.

She turned to him

"You will go back to the camp-please. Wait for us there, I must see Jean alone. It is best that you should

To obey without questioning her or expostulating against his sudden dismissal, he knew was in the code of his promise to her. And he knew by what he saw in her face that Jean's return had set the world trembling under her feet, that for her it was charged with possibilities as tremend-ous as if the two canoes had contained those whom she had at first fear

"Go," she whispered. "Please go." Without a word he returned in the direction of the camp.

#### CHAPTER FIVE.

Close to the tent Philip sat down, smoked his pipe, and waited. Not only had the developments of the last few minutes been disappointing to him, but they had added still more to his bewilderment. He had expected and hoped for immediate physical action, something that would at least action, something that would at least partially clear away the cloud of my-stery. And at this moment, when he was expecting things to happen, there had appeared this new factor, Jean, to change the current of excitement under which Josephine was fighting. Who could Jean be? he ask. nghting. Who could Jean be? he ask, ed himself. And why should his ap-pearance at this time stir Josephia to a pitch of emotion only a little less tense than that roused by her fears of a short time before? She had told him that Jean was part Indian, part French, and that he "belonged to 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 coules. He rose to his feet, and a moment later Josephine and her companion appeared not more than a dozen packs from his and her companion appeared not more than a dozen paces from him. His first glance was at the man. In that same instant Jean Croisset stopped in his tracks and looked at Philip Steadily, and apparently oblivious of Josephine's presence, they measured each other, the half-breed bent allittle forward, the lithe alertheas of a cat in his nearest. in his posture, his eyes burning darkin his posture, his eyes purhing darky. He was a man whose age Philip could not guess. It might have been forty. Probably it was close to that He was bareheaded, and his long coarse hair, black as an Indian's, was shot with gray. At first it would have been difficult to name the blood that ran strongest in his/veins. His hair, the thinness of his face and body, his eyes, and the tense position in which eyes, and the tense position in which he had paused, were all Indian. Thea, above these things, Philly saw the French. Swiftly it became the dominant part of the man before ...im, and he was not surprised when Jean advanced with outstretched hand, and said.

"M'sieur Philip, I am Jean—Jean Jacques Croisset—and I am glad you have come."

The words were spoken for Philip The words were spoken for Philip alone, and where she stood Josephiae did not catch the strange flash of fire in the half-breed's eyes, nor did she hear his still more swiftly spokes words: "I am glad it is you that chance has sent to us, M'sieur Wey-man!"

(To be Continued.)

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Travel Thoughts-No. 30 God's Wonders.

was when I saw them from the vast stretches of the Arizona desert; eagain, as they were seen from the Grand Canyon, the control of the Grand Canyon, the mountain of the Grand Canyon, the ship was the narrowest part of the Alanes as the property of the narrowest part of the Alanes as the phosphotost of the narrowest part of the Alanes as the phosphotost of the narrowest part of the Alanes as the phosphotost of the narrowest part of the Alanes as the phosphotost of the narrowest part of the Narrowest

fident bearing. It may be expressed by tender thoughtful kindness towards others, as a thank-offer-

ness towards others, as a thank-offering of praise.

Though heavy clouds may obscure
those heavenly bodies yet we know
they are always there, ever offering
the same tribute of praise of the
same tribute of praise.

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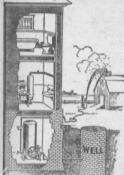
The wonder of the firmament is
His creation. The wonder of our lives
te His plan for us.—I. H. M.

### The Upward Look

BRABEF ye bim, and moon; praise him, all ye stars of the tree times last smalled: 3.

Three times last smalled words of this verse kept repeating themselves over and over in the arraselves over and over in the arraselves over and so bright. Once seemed so large and so bright. Once

### Empire Supply System



(24)

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### HOME CLUB

#### Her Husband's Business

HAVE read with much interest the letter by "The Doctor's Wife," in April 18th Issue and cannot but feel that all she says is correct, but far from being the general condition. The Doctor's Wife strikes at the heart of the whole affair when she heart of the whole affair when she easy that "No woman should become easy that "No woman should become a wifo without being willing to understand her husband's business and all the should be s

Observation and experience have taught me to believe that in the majority of cases women are not in a position to do this, and there are good, sound reasons for it, some of them being as follows:

in the part and largely at present, the concensus of opinion has been the concensus of opinion has been the concensus of opinion has been wife's apin this is outside of the wife's apin the concentration of the concentra

Another reason is that in many cases the training and ideals of the young wife have been such as to render her unfit, in a large measure, to materially assist her humband. This is obviously due to the beliefs and ideals outlined in the above paragraph, also to the fact that girls and reason and the summer of the summer of

A third reason why the average woman does not understand her husband's business is that there has been a tendency in the past to belittle the farming business, and many young women marry good, wide-awate farmers and feel that they are taking a step downwards in the social soale. Consequently they do not care to mix too much in the business affairs of the concern, choosing rather to imitate their city downing.

We need to change our system of elitics before we can improve the latter condition, and methinks present war conditions, and what may follow, will go far to solve the prolem and bring the farmer and his vocation into its proper place in tho, world's economic, social and mental history.—"Brother Bill."

#### A Satisfactory Rearrangement

F I am not mistaken the Farm improvement. Number of Farm and Dairy will be published in a short time. It fust occurred to me to-day that probably a little improvement which we have tackly installed in our home might be of interest to some Home Club members who are delving into all corners of the house at the all-important task of spring

housecleaning.

The recent improvement has been in connection with the clothes closets. There is nothing much more convenient or necessary in connection with a befroom than a clothes closet. Until we made a little change, however, I found it difficult to keep these closets looking neat. There was a tendency on the part of the whole

(Continued on page 26.)

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(25)

How I Would Spend \$300 Miss Mary Fulton, Renfrew Co., Ont.

(Premium Article.) F I were given \$300 fc; the purpose of improving my home I would immediately set about to purchase lumber and procure a carpenter to build verandas, and above them covbuild verandas, and above them cov-ered baiconies. I would have one veranda at the front of the house, the front door opening on to it. Upstairs I would have the front window made I would have the front whatow mate-into a door, which would open on to the balcony. Running along one side of the kitchen I would have the sec-ond verands, and above it the sec-ond balcony, which could be reached by making one of the windows into

Let me describe a front veranda Let me describe a front veranda that I saw last year. It was about nine feet wide, painted paie bive above, the posts and furnished cream and gold, and the floor bive like the celling. Arranged artistantial sily on the veranda was a small table, ally on the verance was a small table, a sewing machine, a couple of each charles, a sofa 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 country of a starter where the service of the couple of flower beds with a glorious array of asters, pinks, carnations, et. It was, indeed, a resitul beauty spot, and made one think of what the poet said: "A thing of heauty is a joy forever." When the members of our Women's Institute met at that home, do you suppose the our women's institute met at that home, do you suppose the hostess could coax us to leave the veranda and have our meeting indoors?

Now for the uses of my kitchen veranda. During nice summer weather I would have a table out there and we would have an out-ofthere and we would have an out-of-doors 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 orchard. Here, in proximity to nature, I would also wash and iron, prepare vegetables, but, sew, and so forth.

The balconies above are very use-The balconies above are very useful when one wishes to shake mats, air clothes, and so forth. Best of all, we can utilize them as sleeping porches almost all the year round. People are beginning to realize more and more that if they want to have and once that if they want to have and the state of the second second they are the second second to the second second to the second se strong; if we are robust, sleeping out-of-doors will help to keep us so.

A Seasonable Task for "Dad"

WHY not get "dad" or one of the boys to show their skill in carpenter work this spring by constructing a fireless cooker? It is one of the farm home improvements that is being used more extensively that is being used more attensively every year, but there are still many abounds throughout the countries which this hot weather convenient has not yet found a place. A matta-factory cooker may be cheapify constructed right on the farm by the handy man of the family. Here is a eugeestion, which should be worth trying out;

Three wooden boxes (one long box Three wooden boxes (one long box and two square boxes); the long box must be large enough to hold the oher two and still leave three inches of space between all the boxes. Five and a half yards sheet asbestos, one yard wide.

Two covered enamel pails, cooking

Burlap, denim or canton-flannel, one yard

First, line the bottoms and sides of all three boxes with the sheet asbes-tos, then in the bottom of the long box lay newspapers flat, or torn into fine pieces, to a depth of about half an

inch. Then put two inches of saw-dust on top of this layer of news-papers. Then place the two square boxes inside the long one, leaving three inches of space between the boxes inside the long one, teaving three inches of space between the two square boxes. Fill ALL the spaces between all the boxes with sawdust, felt or mineral woods. Then tack a strip of denim or other material from the edges of the square boxes to the square boxes terial from the edges of the square boxes to the outside edge of the long box, also across the space between the two square boxes, so the teril of of desim will cover all the strip of desim will cover all the that are find with sawdust. The outside box must have a wood-en ild. Line the lid with sheet arbes-tos to within a half inch of the edge of the ild. Then not a layer of of

of the lid. Then put a layer of saw-dust one inch deep on top of the asbestos. Then tack a piece of denim assesses. In tack a piece of denim or other material over the sawdust, still leaving the edge free and clear, so that the cover will fit down tightly. The iid may be tined with asbestos or a pillow made of denim, or canton fiannes, and filled with sawdust that will fit tightly down into the top of the box.

A Furnace First and All

Mrs. John T. Clark, Victoria Co., Ont.

N the first place, if I were given \$300 with which to improve our \$4900 with which to improve our home I would have a furnace installed, so that the house would be heated all through. Then I would have a door put in the partition between the front and back stairs, to save widing up two flights when doing the work. I would also have piper and in a case, the water to save wide the control of the control of the work. I would also have piper and in a case, the water to save with the control of the control ing put in to carry the water to drain from the bathtub. I have bathtub, but have to empty it by dip-ping the water out. If there was enough money left after these improvements were made I would have floors fixed so that I could polish them, 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 mind is the garden, the character the fruit. Character is a subtle thing, and involves constant work in its forma-tion. Whether it be good or bad it has been long in its growth, and is the aggregate of millions of little mental acts.-Jennette Crearer, Huron Co.,



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KARN five octave organ, walnut case, handsome carved high top with music racks, hese cylinder fallboard, lamp stands, li stops, including Vox Humana, Bass and Treble Couplers, Forte, Viola,

etc. Grand organ and knee swell. A magnificent instrument with a beautiful tone. Has been put into perfect condition by 51 our own expert. Special \$52

SHERLOCK MANNING mahor-any six octave plano cased organ, has Boston fallboard, long plain music deak, 18 stops, including music deak, 18 stops, including Vox Humans, Forta, see organ and knoe swell. Moure proof pedals. A beautiful instru-ment with a rich tone. Special at

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Please mail me complete list of bargains in .......... I saw your ad. in the Farm and Dairy, May 4.

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Equipment for Recreation By Edwina Mary Layman,

THE farmer is dependent upon his immediate environment for his social pleasures. In communities where the farms are close together there are possibilities of neighborhood gatherings and of real community interest for the farmer and his family. On secluded farms the recreative side must come, more or ess, from within

On every farm there are possibilities for some equipment for play for the children; and it is rapidly becoming a recognized necessity that some on every farm. Among the outside pieces of equipment that are possible for nearly every farm child are the following: A sand-bin (made so it can be covered when not in use; a rope swing, dear to the heart of every child; a seesaw; games, such as ten-nis, tether-ball, volley-ball, croquet; quoits (pitching horseshoes), etc., a tent or rude shack, preferably built by the children themselves, for their very own playhouse; and a small slide, which could be used as a toboggan in the winter. With the added enjoy-ment of your children's lives and their appreciation of the things you have done for them, you will find yourself more than repaid for the time and money expended.

In the evenings it would make home much more attractive if there were some form of music and an open fire. for no two things tend to draw the family circle into closer comradeship than these. Unity, harmony and peace are developed—things essential to every home. Tell stories or read to your children—make their interests yours, and to a certain extent your interests and problems theirs. Fit them as nearly as possible for the life they will have to live in their turn, they will have to five in their turn, and the greatest heritage you can leave them is that of a happy, contented childhood, full of tender memories of comradeship and true interest in all that concerns each individual.

A Satisfactory Rearrangement (Continued from page 24.)

family (myself included, I fear), to pile as many articles of clothing as possible on one hook. When dress-ing in a hurry it was very easy to carelessly hang a heavy skirt over a sheer blouse, to the detriment of the blouse in question. At times, too, when going to the doothes closet we would find that's hear. would find that's heavy coat or skirt had been hung up hastily and had fallen to the floor. Then we introduced this idea:

Ordinary curtain poles were se-ared. We attached brackets to the eured. We attached brackets to the end walls of the closets and ran one of these poles the full length of each closet. We invested in a number of coat and dress hangers, and it is the coasiest thing in the world to hook these hangers over the pole. An ad-vantage, too, is that hangers can be vantage, too, is that hangers can be pushed back out of the way when se-lecting a garment to wear. Several blouses may easily be hung on hanger without creasing. In fact, they will remain as fresh looking as when they come from the ironing board, until we wish to wear them.

Above the hooks on the side walls of the closets we put up shelves, which come in very handy for boxes of different kinds. Just here I might add that we also put up a few shelves in our cellarway under the back stairs, and find them most useful for holding many things that are needed

nothing inthy things that are needed frequently, but which cannot be kept in the kitchen or pantry.

I am always on the lookout for new ideas for simplifying work and making things more comfortable, and would be glad to hear from some of the other club unembers who have upto-date suggestions "Aunt Flossie." to produce.



#### 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 done 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 copy of "Homes Healthful and Beautiful" costs but 15c. (coin or mamps), but if it saves you from making even one mistake- and there is noth -will it not pay for itself a hundred times over? Then send for it now and study it before you start houseoleaning.

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A Stable Stable

(27)

### Fashion Plates Resemble Old Photographs



as the season progresses the dominant of catures of the strine to dominant of the strine to be the voluminous state with the state of the strine to dominant dom

### One Man With A Cirstin Stump Puller

Saves the Expense of Two Men and Two Horses 

10-DAY TRY-OUT ON YOUR FARM

many land clearing contests the Kirstin has proved its superiority. After a com-tilitive demonstration, the University of Minnesota cought a Kirstin of the University of Minnesota cought a Kirstin and the County of the St. Government of the County of th

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Write Today for the Big, New Kirstin Catalog
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124 KING ST. E TORONTO



(28)





# More Beef There are certain essentials in the care of stock that the up-to-date dairyman will not overlook. Stock must be comforted, able, contented, and kept in sanitary surroundings to have them do their best. Positive increases in production are invariably noted where plenty of water, sanitary stable fittings, silage, ground grain feed, etc., are supplied. Windmills, You cannot been cattle plentifully watered by the old based will read the unit against toking too sub-fort.

Write for Catalogue

Windmills. Vos cannot keep cattle plentifully watered by the old hand upon the plane enough. WINDMLIS furnish the cheaper FOWER and with a wood work would be proved the plane and with a wood water and enable you to care for a larger number. The TORONTO Windmills run easily in light art, and one register of the plan winds. Quality of material and exchange principles of construction make TORONTO Windmills decidedly superces. Fixes on a spleadation.



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Litter Carriers. A good fitter carrier like the "TORONYC
trouble-free switches, is not only a manure saver, but a work saver and
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Tested by time and proved "jost right." Ask for catalogue and prices.



Ontario Wind Engine & Pump Co., Ltd. 82 Atlantic Ave., TORONTO Branches: Montreal, Winnipeg

#### CREAM SEPARATOR MANUFACTURERS SAY

that two-thirds of all complaints about cream separators are due to faulty lubrication. That is because the close-fitting, fast-running mechanism of the separator demands a special oil-and most people use "just any old oil."

### Standard Hand Separator Oil

is made especially for cream separators and we know that it is "right," because our lubrication experts have made a study of separator construction and exactly adapted the oil to the requirements. Dealers every-

THE IMPERIAL OIL COMPANY BRANCHES IN ALL CITIES

Butter and Cheese Makers are in-vited to send contributions to this department, to ask questions on matters relating to cheese making, and to suggest subjects for discus-

Fat Makes the Casein Valuable

A. ANDERSON, proprietor of the Keene factory, Peterboro county, when interviewed by a representative of Farm and Dairy, regarding paying for milk on a quality basis, stated that he had been paying on the straight fat basis for 14 years, and that in his opinion, the J4 years, and that in his opinion, the patron who is paid on this basis, does not get hur!. The value of milk, said Mr. Anderson, "depend: on the fat it contains, for it takes the fat to make the casein valuable. There is no doubt but that the fellow with the four per cent, milk is helping the three four per cent, milk is helping the three per cent. man out. When I was in British Columbia, I conducted some experimental work in which I showed the factory owner that It paid to buy rich milk as well as poor.

"But 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-

The Makers' Corner

ABSORBINE AMERICAS
from a Bone Spavin, Ring Bone,
Splint, Curb, Side Bone, og simist
rouble and grets horse going sound,
Does not blister or remove the
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17 in pamphlet with each bottle tell
how. \$2.0 a bottle delivered.
Horse Book 9 K free.

ORBINE Is, mittentle horsest for

### - Cream Wanted -

We have been in the Creamery business twenty years. Our service to farmers is the very best experience can produce.

We supply cans, both small and targe, and do all that any other reliable firm can do-and then Drop a line for particulars to the

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For Sale Everywhere. Write for FREE Sample Douglas & Co., Mfs. Hannes

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#### SHIP YOUR **BUTTER & EGGS**

THE DAVIES COMPANY Established 1854. TORONTO, ONT





A Desirable Cream Cooling Tank

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 mar-ket brings a man up on the making. ket brings a man up on the making, but in my opinion the work of the man making the test should be in-epected. There is not so very much danger of suspicion arising in the patron's mild regarding the accuracy of the test. The average patron will not look into the mater critically enough to become suspicious.

"From experience in making about 100 tons a year, I have found that about 2.6 lbs. of cheese is made from milk containing one pound of butter fat. Ose thing I have noticed is that in spite of the fact that I have been paying for milk on a straight fat.

fat. One thing I have noticed is that in spite of the fact that I have been paying for milk on a straight fat basis, the percentage of fat in the milk received at my factory has lowered during the last few years. This sourced during the last few years, and the strain of the last of

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L the underst 90 per through system. milk is same ra tory as ing at rangeme and feed milk of

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### 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

understood that at the present time gard them as 90 per cent, of all the milk which is think they at delivered at the 1,000 cheese factories and workable. throughout the province, is paid for on the basis known as the "pooling system." This means that system." This means that all the milk is mixed together and areraged up, and each producer receives the same rate per 100 lbs. from the factory as every other producer delivering at that factory. Under this arrangement there is no reward for the man, who through careful breeding. This means that all the and feeding, has been able to produce and teering, has been suite to produce milk of four per cent. butter fat as against the man who has only pro-duced at the rate of three per cent. or less. For years this system has been criticized and even denounced

#### Too Many Alternatives.

Why is this the case, it may be asked if it is recognized, as it is recognized, that the value of milk for cheesemaking depends practically allogether on its content of butter fat and casein, why should milk not be paid for on this basis?

the first place, the answer is found in the very number of alterna-tives suggested. One expert would tives suggested. One expert would advocate that milk should be paid for on the basis of its fat and its casein, as determined by actual that the difficulty in making the casein test rendered this impracticable and that the basis should be simply the fast content, which could be arrived at more readily. Still another would argue that fat plus the factor two, should be the hasis and others held that fat plus the calculated casein,

that fat plus the calculated casein, that is casein calculated on a recognized table, should be adopted. While the experts thus differed, nothing very definite was done, but castern section of the province, 75 cheese factories adopted the system of paying by test, and in the west 250 cm.

The following is a report of the butter fat content or of the but-eech delivered by Hon. Jas. Duff in ter fat content plus two. The factor speech delivered by Hon Jas. Duff in ter fat content plus two. The factor the Ontario Legislature, in presenting two is a well-known factor in the the Dairy Standards Act for its dairy industry, as representing the eccounter of casein, and it is held by content of casein, and it is held by content of casein, and it is held by which the legislation in regard to butter fat test alone. These alternations of the case of the ca gard them as perfect, but because think they are measurably practical

While I think that all this may be very safely said, I am not under-estimating that there are still many difficulties in the way of carrying out the new arrangements. The practices and mebits which have been developed through many years, cannot be environed through many years, cannot be considered allowed in a moment, and many carriers allowed in a moment of the carriers and the carriers are carriers and the carriers are carriers and carriers are carriers are carriers and carriers are carriers and carriers are carriers and carriers are carriers and carriers are carriers are carriers and carriers are carriers and carriers are carriers and carriers are carriers are carriers and carriers are carriers are carriers are carriers are carriers and carriers are carriers tirely altered in a moment, and many of the cheese factories are not equip-ped with even Babcock testers, and many of the makers are not fully qualified to make this test at the present time. This means that a considerable amount of education would have to be carried out in the cheese have to be carried out in the choses factories as well as among the producers before this would be generally understood or workshie. Hence it is provided that the Act shall not go into effect before the 10 April, 1917, so that the officers of the do-nariment partment may utilize the coming dairy season to carry on the necessary dairy season to carry on the necessary educational and demonstration work. It may be I am even then underes-timating the length of time which will be required for this purpose, but if it can be shown that further time is needed, evey consideration will be given to the matter of a further ex-

Great Increase Noted.

Permit me to add then a word as to the importance of the dairy indus-try in this province. The past season, as many of you know, was the most successful season in the history of the dairy industry in Ontario. Perhaps a few figures might prove of in-terest. There are in Eastern Ontario while the experts thus differed, was delivered between May and Noin the eastern section of the province,
73 chease factories adopted the system of paying by test, and in the
west, 22.

Is a Workable Plan.

Now let me explain the provisions
Now let me explain the provisions
the province of the bill. It provides that all milk course, leads in regard to buttermakmust be paid for on either a basis of ing. There are in the western coun-



Tom-You're not turning as fast as Dad does, Mary. Mary-No Tom, but we'll get all the cream any way with this lovely new machine. Dad says

### "It Skims Clean at Any Speed"

That's what this marvelous new invention actually does.

A fixed-feed separator may skim clean if in perfect order A fixed-reed separator may skim clean if in perfect order and turned at just the right speed. But every member of the samily turns the crank at a different rate; no one can maintain an even speed all the time—it isn't human nature. Every old type separator has an unchanging inflow of milk. That's why it loses cream when not turned at exactly the right speed.

### THE NEW SHARPLES SUCTION-FEED

eparator gets all the cream because it automatically regulates the inflow exactly in proportion to the separating force -always just right for perfect skimming.

The Suction-feed Separator delivers smooth cream of even thickness that churns out more butter of choicest quality. If you sell cream you can guarantee uniform density,

You can increase the capacity of the Suction-feed by simply turning faster, and get through quicker if in a hurry, The new Sharples is the only Separator that can be hastened. You can easily pour milk from a forty-quart can into the low supply can. It's the largest found on any separator and it's only knee-high.

The women folks prefer the Sharples because the simple tubular bowl is so easily cleaned. Has only three pieces—no disks to wash or to get mixed up. The tubular shape gives double skimming force.

The new Sharples is ruggedly built for hard service. It is neat, compact, runs easily and oils itself.

This wonderful machine will earn you a new dairy profit—without added expense. Our new free book, "Velvet" for Dairymen, fully describes the Suction-feed.
Your copy is ready. Send for it today. Address Dept. 77.

The Sharples Separator Co.

ties 125 creameries and 40 cream shipping stations at which cream is delivered by 32,623 patrons. In Eastern Ontario there are 38 creameries, with 4,828 patrons. Thus we have 40,719 farmers who are producing milk for cheese factories and 37,361 who are producing cream for creameries, a producing cream for creameries, a total of 77,070 engaged in the dairy industry, aside from the many other thousands who are producing milk for buman consumption in the cities and towns of the province.

(30)

#### Must Look to Exports.

Under these circumstances, I think all will agree with me that any legis lation destring with this important sub-ject is worthy of our best considera-tion. This is especially important at this time because the dairy industry, like so many other industries and organizations, has been very materially affected by the war, and there is

ter the war will be different to what war is over, I think we should take ing the past season. High prices they have been in the past. We have every reasonable step to prepare to be factile and hogs have made in recent years been cattering very meet the circumstances as they can shortage in the number on hand, largely to the home market, and the home market has shown increased de-mands, which have resulted in a decrease in export. This home market will always be our most important market, but I am inclined to think that after the war is over, as well as during the war, we will have to look to the export market more than we have done in the recent past. Why do I aone in the recent past. Why do I say this? Simply because we have found a market in the construction camps, which for the time being at least, have very largely diminished, and also in the cities and towns of the western prairies, which will be catered to more and more by the western farmers as mixed farming is developed in these provinces. Under these conditions then, which will have

April Crop Bulletin

CORDING to information collect-A ed under date of April 12, by the Ontario Department of Agriculture, from a large staff of cor-respondents, fall wheat and clover respondents, fall wheat and clover have come through the winter in good shape. There has been but little inshape. There has been but little in-jury from heaving, and prospects, for good crops are bright. Alfalfa is also promising well. All kinds of live stock have wintered well, though a form of indigestion, said to be the re-sult of eating musty grain, hay and any of eating musty grain, hay and sumongst cettle. Dairy cattle are rather thin in flesh owing to the heavy drain upon their milking rowers dur-drain upon their milking rowers durevery prospect that the conditions af to be faced more acutely after the drain upon their milking powers dur-

High prices for

The winter has not been a trying one to fruit trees, the greatest dam age resulting from the girdling of age resulting from the girdling 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 enlist-ment and the enticing wages paid by factories to munition workers. Sev-eral correspondents state that in many cases there is only one man on many cases there is only one man on each 100-acre farm left. Others say that on such farms there is only about one out of five that has a hired man left on it. Wages are higher than ever, ranging from \$30 to \$40 a mouth, and even higher in some cases.



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### From Fair Grades to Good Pure Breds

A Record of Progress in the Herd of Jacob Leuszler & Sons

A Record of Progress in the Herd of Jacob Leuszler & Sons

A FBW wooks ago, a Farm and a invoysar-old, to 232 lbn. from a sevenday with Jacob Leuszler & Sons

c. their Oxford county farm. Naturally, salk hinged around the dairy cow.

"We think think and white cow.

"We that hack and white cow.

"We th herd was gradually developed, and then replaced by pure bred animals, until today there is on the farm a sphendid productive pure bred herd of Hoisteins. We requested Mr. Leussler to steins. We requested air. Leuszier to send us a story of his herd improve-ment work. He promised to do so, and has since proved as good as his word. Here is Mr. Leuszier's story as told by himself:
"We established our pure bred herd

"We established our pure bred herd and got rid of our grades in 1910. Our grade herd then had a local reputation of being a good one. In that herd we lad two pure bred Holsteins. They are of the kind we would quickly dis-card now, but for profit they stood right at the top. It was a grade Hol-stein that convinced me first that I was so the wrange shaged in alkeling to the on the wrong track in sticking to the miking Shorthoins. I purchased my first grade Holstein as a heifer riving first grade Hobstein as a helfer ris ing two years, because I got her for little money, intending to keep her for one year and then discard her by selling her to the butcher; we had her five years, and instead of getting rid of her, we kept adding to our grade Hol-ateins, and in 1910 we had but three Durchams were necessaries. Durhams, two pure bred Holsteins, such as beginners buy and the wiser ones avoid, five well bred Ayrshirea and eight grade Holsteins.

and eight grade Holsteine.

"The Durham a Fallure.

"The first grade Holstein as a twoyear-old, we thought, dtd as much forus as our best Durham. Then we
joined a cow testing association, which
was organized the next year, and long was organized the next year, and long before the year was over, we were con-vinced that as a milker the Durham was a hopeless failure. We started to weed, feed and breed, with the result that in 1910 the milk production of our herd went all the way from 4,030 lbs., herd went an the way trom 1,000 108., have from an Ayrshire-Jersey cross, to 7,150 this h lbs., from a pure bred Hobstein, and the to 14, fat records varied from 105 lbs., from years.

pound average with our pure breds, than we were a 7,000 pound average with our grades. Naturally, we take helt eare of our cows, and this can be traced directly to the cow testing association. Each succeeding year we have tried to do better. Our cows are practically all entered in the Rec-ord of Performance, and in 1915 they produced milk as follows: produced milk as follows:

|        | L/DS. INHK. | Age.      |
|--------|-------------|-----------|
| No. 1  | 9,111.5     | 1% years  |
| No. 2  | 7,339.4     | 20 months |
| No. 3  | 13,879.4    | 35 months |
| No. 4  | 9,316.7     | 32 months |
| No. 5  | 14,459.9    | 6 years   |
| No. 6  | 10,178.8    | 26 months |
| No. 7  | 11,572.1    | 28 months |
| No. 8  | 6,896.3     | 28 months |
| No. 9  | 9.117       | 36 months |
| No. 10 | 9,527       | 6 years   |
| No. 11 | 7,972.4     | 36 months |
| No. 12 | 12,347.9    | 5 years   |
| No. 13 | 10,464.2    | 5 years   |
| No. 14 | 8,108       | 24 months |
| No. 15 | 10.884.2    | 24 months |
|        |             |           |

No. 14 \$1.08 24 months

No. 15 10,884.2 27 months

Two others were milked, but were
not entered in the R.O.P., as they were
out of condition. One, a 25 months old
heafer, had a very large calf: she was
to stand on her feet for nearly
a week to stand on her feet for nearly
a week to stand on her feet for nearly
a week would have min this we erred,
has she would have men to the week
hat had some of the other we we
entered. The other was an ole ow
entered. The other was an ole
take had one feet (foot rot) for some
time, had twins and also retained her
etarlerising that there are no world records in this showing,
but they did not set world record adtention; in fact, I know of grade dairy
herds getting as good attention. An
ere getting as good attention. An
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ha to 14,000 lbs. during the next few

### My Experience in Alfalfa Surgery

when the growth has attained a height of six inches, is a surgical operation that requires considerable nerve and determination. The friends of affalfa in Canada are now almost legion, but how few of them would not throw up their hands in horror at the throw up their hands in horror at the throw up their hands in horror at the state of the state of the state of the gain is tiny little shoved into soils accred field, to all intents and pur-poses tearing out everything growing. sacred field, to all intents and pur-poses tearing out everything growing upon M. To the beginner in affairs culture, such violent treatment will no doubt seem little short of criminal, and he will prebably conclude that the result is a dead affairs field, roots and all.

Alfalfa success is by no means ac-complished by a goas-you-please, hit-or-miss method, and anyone pursuing that course, indifferent to the light Science has recently thrown upon the plant's culture, is quite certain to meet disampointment anonce or lates Of

Let Us Listen to Science, Please. plant's culture, is quite certain to meet desppointment sooner or later. Of course, failures like those are quickly charged up against the plant as being too tender for our cilmatic conditions, whereas it is positively certain that, given hardy strains of alfaifs, our cilmate and colls are well adapted to its successful culture, even when planted in non-trigiable lands. Certain conditions may require the

E. Gustus.

Tweet of alfalfa to administer rather severe irreatment to his delds. Such recovered to the control of the control o plunge a spring-tooth cultivator grower of alfalfs to administer rather into a field of luxuriant affalfa severe treatment to his fields. Such when the growth has attained a treatment may be termined.

(Continued on page 34.)

### Money Savers for Farmers

### Practical Parables

A FARMER went forth to inspect his farm. It was near the end of his facal year and albeit he thought he had left nothing undone he found that things are not seen to be a facility of the seen that th



ALARGE part of my profits are due to watching the little leaks. Bavett Money Savera helped me. Take Carbonol for instance. Ny farmer should be without it. It has all the merits of carbolic acid suithout the danger. Effective in a hundred different places. If you can prove hand, apply Carbonol in solution. If your live stock pure hand, apply Carbonol will fix them. It dissingets sick rooms, and mained, Carbonol will fix them. It dissingets sick rooms, and provide home cleaning easier. Begin to economize today by buying Carbonol.

"A LEAKY roof means more than incoming water. It means a contigoing money for repairs or damages. Begin right with Amattie, the ready roofing that needs no pain. Put Amattie on your steep roofs and sidings. Wind, rsin and weather can't hurt Amattie. Its sparkling mineral surface improves the appearance of any building and guarantees durability. Made in rolls of ILO square feet, with galvanized nails and cement in the centre. Easily laid without skilled labor. I ended my roofing troubles with Amattie.





roofing troubles with Amstite.

"THE greatest enemies to live stock and poultry are lice, mites, vermia and flies. I keep my live stock clean the party by praying them with Creonoid, and I appropriate the party of the propriate them all. All you have like seven seen, and I've tried them all. All you have been seen, and I've tried them all. All you have been seen, and I've tried them all. All you have seven seen, and I've tried them all. All you have seven seen, and I've tried them all. All you have seven seen, and I've tried them all. All you have seven seen, and I've tried them all have seven seen and the seven seen and the seven seen and the seven seen and I've tried them all them all the seven seen and I've tried them all them all the seven seen and I've tried them all them all the seven seen and I've tried them all the seven seen and I've tried them all them all them all them all the seven seen and I've tried them all them all the seven seen and I've tried them all them all the seven seen and I've tried them all them all the seven seen and I've tried them all them all the seven seen and I've tried them all them all

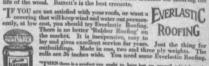
of your problem is so casy.

"I USED to help the Farm Machinery Company pay
I dividends until I was advised to try Everjet Elastic
Everjet positively prevents rust. It never peels, scales or
cracks. There is more merit in Everjet than I can tell
you of. Everjet is especially recommended for use on
ready roofings because of its low price and great covering capacity. Protect your roofs and machinery with Everjet.



"Your woods fines y with Everjet.

"Your woods fines y wild have been good for twenty years if you had pointed the buried parts of the posts with a good wood preservative. Why not do in now? Get some affects Grade One Cresoste Oil. Tests have we flarrett's Grade One Cresoste Oil. Tests have we flarrett's Grade One Cresoste oil oil. Tests have we flarrett's Grade One Cresoste in now? Get some of the market because it penetrates deeper and the state of the wood. Barrett's is the best cresoste for insuring the



"THEN there is a product you cought to have loss on general principles. As a said in quick repairs, Barvett's Ensigence Weterprod Commit is a wonder. And it repairs personality too. Just the thing't be just gutters, whether wood or metal. It seeds looks and joints and is unbeatable for Sahings record chimneys."

md for illustrated bookiet describing Barrett Money Savars in detail. Address nearest offic For sale by good dealers everywhere.

THE PATERSON MANUFACTURING COMPANY, LIMITED THE CARRITTE-PATERSON MANUFACTURING CO., LIMITED ST. JOHN, N. B. BALIFAX, N. S. SYDNEY, N. S.



10—15—20
Years from now the Blasell Silo will be giving
good service. It is built
of selected timber, treated with wood preservatives, that prevent decay,
It has strong rigid walls,
air-tight doors and hoops
of heavy steel. Therefore it lasts simply be-It has strong right wans air-iight doors and hops of heavy steel. Therefore it lasts, simply be-asses it can't very wall do snything elso. Our folder explains more fully—write Deok R. ELORA, ONT.
T. E. BISSELL CO., Ltd.,



47

### **OUR CELEBRATED Real Live Premiums**

We have made arrangements with progressive breeders of pure bred dairy stock by which they are to supply us with

### Pure Bred AYRSHIRE Bull Calves

These breeders guarantee that the calves they supply will be hig, strong, typy fellows of good breeding and from high producing cows, Their breeding is guaranteed and pedigre to the breeding is guaranteed and pedigre with each one. They will be a credit to the breed and eligible for registration. These breeders have been supplying us in the past and we vouch for their reliability.

Do You Want One Like Him



He Will Grow Into a Money Maker

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

### TWENTY-FIVE NEW SUBSCRIBERS TO FARM & DAIRY

00 each. Write to-day for full information, literature and sup-You will be surprised to find how easy it is to win one of these at \$1.00 each. calves.

We have also made arrangements with several well-known swine breeders to supply us with

### EITHER Pure Bred Pigs BREED

Of all our premiums, these have proved to be the most popular with our boy readers. If you want to secure one of these pigs just pick out the breed you prefer and write for full particulars. As soon as you win one, we will order him for you from a reliable 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.

Our Boy Reader's Favorite Premium



Hundreds of Them Have Secured One

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 I received my pure-bred Berkshire 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 seems 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, either 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. McCubbin.

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

EGINNING with the seed we may B summarize the various opera-tions that might be used to grow a clean crop of potatoes, either

grow a clean crop of potatoes, either for seed or otherwise.

(1) Pick over the seed, discarding tubers which show dry fot, purplish discolorations (these are likely to be dormant late blight), seed and other susplicious features.

(2) Soak the seed in corrosive sub-(2) Soak the seed in corresive sub-limate, 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 cutting sets first take a slice off the stem end. Wilt and blackles will show here as discolorations, and these diseases can be practically all eliminated at this stage of the work.

(4) Plant in as clean a soil as possible, preferably an acid soil that has had no potatoes in it for several years; where possible use commercial fertilizers instead

(5) Spray well three or four times with Bordeaux mixture, beginning about the first of July. This will pro-

about the arst of July. This will pro-tect from early and late blights.

(6) "Rouge" the field during the summer at least once, and preferably, twice. This is usually done in any twice. This is usually done in any case to eliminate plants of other varieties, and this work may be extended to include the removal of all cases of leaf roil, curly dwarf, blackleg, mosaic, and spindling sprout. (7) For formulas and detailed 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 disably free from a great number of disably free from a great number of

ably free from a great number of diseases of the potato that are serious 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.

F there is one flower above all others

If there is one flower above all others that finds favor with the lover of flowers, it is the sweet pea.

The place that I would suggest to sow sweet peas would be along the fence, if there is one. Any place in the back ground if it is in a good cone westless where the sweet pease were the sweet pease with the same of the sweet pease where the sweet pease where the sweet pease were the sweet pease where the sweet pease where the sweet pease we will be sweet pease where the sweet pease where the sweet pease were the sweet pease which is the sweet pease will be sweet pease which is the sweet pease open position, where they will get lots of sunlight will do, because they will grow five or six feet in height. Draw out your trench two or three inches deep with the hoe. Do not Draw out your trench two or three inches deep with the hee. Do not sow too thickly, and cover them up with about an inch of soil firmly packed. When the seeds have grown about three inches above the soil it is time to put in something for them to client buy. Nothing beats brush, cut to client buy. Nothing beats brush, cut out of the bank shout the height the out of the bank shout the height the out of the bank shout the height the out of twell the seeds are the same of the seeds are the seeds and the seeds are the seeds and the seeds are the seeds as the seeds are the seeds are the seeds are the seeds as the seeds are the s row a great variety of color. No flower gives so much cut bloom at so little cost and trouble as the sweet

Mignonette.

The best place for mignonette ta around the outer edge of the flower bed or along the front of a border. Wherever the place may be, have it well to the front, as it does not grow very tall. Mignonette seed requires

only to be covered to a slight depth, say about one-eighth of an inch, having the soil overing the seed pressed
firmly down. It is important to thin
them out early and severely, for one
plant left aione will cover a square foot
of wound. Migmontic does not tree of ground. Mignonette does not trans. plant well

Dwarf Nasturtium

Dwarf nasturtiums also should be sown well to the front of the bed on sown well to the front of the bed op-border, as they only attain about a foot in height. We get best results with nasturtiums on poor soll; that is, we get more bloom than when planted in rich soil, where they are liable to grow more into foliage. Cov-er the seeds with about one inch of soil firmly packed.

Climbing nasturtiums should

Climbing nasturtiums should ar ated in much the same way as the dwarf varieties, but should be placed dwarf varieties, but should be placed in a different poetion. If you anpies to have some old tree roots, pile them up together and sow the nasturtium priced to see how soon they will cover them, and give you a great display of flowers. If you have any loose stone flowers, if you have any loose stone have the same effect on them. So have the same effect on them to the place them to the place the same effect on them. So wered into a beauty snot by the use wered into a beauty snot by the use verted into a beauty spot by the use of nasturtiums.

Sweet Alyssum.

There are two kinds of sweet alyssum, the tall and the dwarf, the latter being the better, especially if you want it to grow around the extreme edge of your flower bed. It only grows about three inches in height but flowers. Cover the seeds to a very slight depth; one-eighth of an inch is about right.

The Growing of Timber

EW city parks afford such a beautiful walk as one may take on the farm of F. L. Green, Ontario Co., Ont. Mr. Green is a believer in trees, Ont. Mr. Greek is a benever in trees, "If all farmers were as cautious about cutting down a tree as I am," he re-marked to an editor of Farm and Dairy who called on him last spring, "there would be more beauty spots on our

The editor being of a practical turn of mind asked, "Does it pay?" "It pays in satisfaction," answered

Mr. Green, "and we have two additional profits besides. Standing timber is always increasing in value Standing thinder is always increasing in value, first by its growth and secondly by the increase in prices that we must pay for timber. I believe that these two profits are sufficient to pay the rent of the land."

As a result of his belief and his prac-tice, Mr. Green has a park right on his own farm.

Why Not Evergreens?

VERGREENS for orn.unental purposes and shelter belt have been sadly neglected in planning sadly neglected in planing around farm homes; and yet there is not a farm home anywhere that could not be made more attractive and more comfortable by the judicious distribution of a few evergreens. The best test of the avergreens. best test of the evergreen comes on the cold winter day, when the freez-ing winds tear through the branches of deciduous trees until they come to a sudden halt at the shelter belt of well grown cedar or spruce.

Deciduous trees are more showy in

summer. The evergreen is decidedly more cozy and comfortable in winter, more cozy and comfortable in winter, both physically and sesthetically. The evergreen is easy to grow, and now is the time to plant it. All that is necessary once they are planted is to keep away from them until they have statemed a good size. In plant ing a few for beauty, add a good shelter belt to the west or north, reduce the coal bills, and make chores more comfortable.—F. E. E.

Bui and us ver in as for giving THE PR 659

CANADIAN

RIDER

Mailed Fre the Auth 4, 1916

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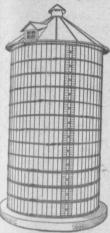
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"Perfect" in every detail



Build Your Silo Now

and use it for your Lucerne Clover in case of a wet season, as well as for your corn crop later.

Send for our catalogue "D" giving reasons why the Premier Perfect Silo is the best.

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The Dawson Ditch Digger



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

RIDER AGENTS WANTED In every community to rice and a sample 1916 Hyslep Bicycle, Bill and the state of the state



Scientific Soil Feeding

A LL crops remove fertility from the soil, even clover and alfalfa, which are heavy feeders on the mineral elements. Legumes, like clover, can gather nitrogen from the sig hy means of organisms in the clover, can gather introgen from the air by means of organisms in nodules on their root; but this fixed nodules on their root; but this fixed not increase, therefore, is made in the soil. When the hay is fed and the manure is well cared for and returned to the soil, the nitrogen gathered to the soil, the nitrogen gathered from the air is brought back, but only about 50 per cent of 1; the rest to set in feeding transaction. Feeding the soil of the fair and the feeding transaction. Feeding the phosphory content can farth any therefore, will increase the fair and the feeding the soil on the fair any therefore, will increase the fair and the feeding the soil on the fair and the feeding the soil on the fair and the feeding the soil on the fair the soil on the fair the feeding the soil on the fair the feeding the soil on the fair the soil on the fair the feeding the feedi

hittogen gentest of the sent on the farm. The phosphorys content can never be increased or maintained by growing crops, feeding them, and retirement the sent of t

Cistern Pointers

A NEAR neighbor is having trouble with his cistern. The water has a pronounced odor. It is unpleasant to wash in, and unfit for household use. As our cistern has al-ways given the best of satisfaction, household use. As our claims has always sirve the best of satisfaction,
this neighbor asked me to go over and
inspect his and tell him what was
wrong. I found that two póints explained the bad quality of water from
his elstern. In the first place, the
water was not filtered into the clatera,
and there was no ventilation for the
aurface of the water. I have heard the
clatera filter objected to on the
grounds that it may become clogged
with dirt and actually foul pute rain
water that goes through it. For my
water that goes through it. For my
water that goes through it. For my
the filter is in the clatera
the filter is in the clatera
the filter is made
of alternate layers our filter is made
of alternate layers on the clatera
and may be renewed so frequently that and may be renewed so frequently that there is absolutely no danger of foul-

ing the water.

The construction of our filter is made The construction of our filter is made plain by the accompanying diagram. In the first place, the filter must be of in the first place, the filter must be of in the first place, the filter must be a receptacle place of the first place and the first place and the first place anough to hold have the filter large enough to hold have the filter large enough to be fought to it at one time. It will be noticed to it at one time. It will be noticed flow my filter is just an ordinary good flow my filter is just an ordinary good flow. The outlet for the water is not in the bottom of the barrel, but on either side, as there is less chance of impurities being carried out the side impurities being carried out the side than direct down through the bottom.



The holes on office side are each covered with the acreen wiring, which will hold any corare sand. They are eight inches square, or two wide staves the state of a space of eight inches. This and is filed only half full of charcoal and is and, and it is large enough to let when the man a small sized roof.

Another successful direr sing I have

Another successful filter that I have

seen is made by having the cisters larger than necessary to meet all the requirement of the firmily, and having one and bricked of with rough, provide brick, laid in with very coarse coment mixture. The very coarse coment mixture. The very coarse coment in the roof into the first second section, and gradually seeps through the brick wall into the second section, where the pump is located. Occasionally the bricks will have to be cleaned off. This is an excellent system of filtration. filtration.

(33)

filtration.

Many elstern operators close the cistern air tight, with the idea of keep ing out insects. This is a mistake, as there should always be a draft of all over the surface of the water in the cistern to keep it pure. Insects may be kept out by the use of mushin curtains. If both filtration and ventilation are attended to, cistern water will be alive and sparkling and in a pinch, good enough for drinking.—C. L.

### Get a Frost & Wood Mower

Hay - Time is 5 Money Time on the Farm

Use a cranky, wasteful out-ofdate 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 reference to the many splendid features of the Frost & Wood Mower, but the "Internal driving gear" as shown here must be mentioned. The driving gears are meshed on the -travel in same direc. drive means big life to the machine.



tion-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 inside of the main drive Internal g e a r quicker work and longer

### 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 steel, and arranged in convenient sections of two or three. Self-dumping, discharging load automatically at light pressure on foot lever. Made of steel, amply strong, clean working, the

Built for Hard, Quick Work

F. & W. Rake gives a lifetime of splendid service.

Frost & Wood Co. Limited

Smith's Falls St. John

Ontario and Western Canada by 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

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?



FORD, ONTARIO

cars completely ipped, including tric headlights.



ATTRACTIVE DINING CAR SER-

Probably nothing belps more Probably nothing helps more to make a raskway journey really enjoy-able than a visit to the "Dining Car," especially if it be a Canadian Pacific Daning Car, where the passenger is assured of the highest form of efficiency in the cullmary art, the choicest provisions the market affords, pre-posed to the cullmary real provisions the market affords, pre-na "Dietette Brenning," as you like it. Your favorite dish, as you like it.

Your favorite dish, as you like it, may be enjoyed at reasonable cost, amidst ideal surroundings, while tra-velling on the Canadian Pacific.



ADVERTISE in these popular col-umns, which others find so profitable— costs you only \$1.68 on inch.

### My Experience in Alfalfa Surgery

emptive right of the alfalfa over cer-tain small areas. The second crop-last autumn was pure alfalfa, so well cured, rich and green in color, that it seemed almost fit for human con-

sumption.

Cultivate, Aerate and Exterminate.

Observing that the little sage weed,
which botanists say belongs to the
Labiatae family, presented itself again Labiater family, presented itself again last spring, and the first manner of the first surface and the first surface and the fact that the little weed had come through the winter and again wished to "fite on the land," it was decided to give the whole finely it was decided to give the whole finely radical treatment, and, knowing the radical treatment, and, knowing the radical treatment, and, knowing the radical treatment of the first was decided to give the whole finely radical treatment, and, knowing the radical treatment, and, knowing the radical treatment, and, knowing the whole first was the first was sufficient to the whole for the first was sufficient to the first was sufficient to the found of the first was sufficient to perfect the first was sufficient to perfect the first was sufficient to the

#### His Nerve Failed Him.

His Nerve Falied Him.

When the hour for performance struck, the nerve of the man to whom the work of cultivating the field had been assigned suddenly falled him and with husky voice he kaid: "To stick this cultivation into that beautiful elizatia dield will kill it as sure as fate, and if you will only excuse me from doing the job, i am more than willing to do anything sies about the place: I just can't stand to see that airana to any the sign of anything like that." So, rather than have a valued man go on etrike, I mounted the seventene-shovel cultivator, lowered the lever and permitted the little shovels to sink into the earth as deeply as they would, from the weight and pressure of their pyrings and frames, which was more properly to the sign of th

free from stone and gravel, its little shovels had become quite blunt, the points and corners having been worn off to such an extent that they could of to such an extent that they could not possibly damage the alfalfa. Then, too, the action of the springs enabled the little steel blades to slip by the roots of the plants without doing them roots of the plants without doing them the slightest injury. Had the teeth of my cultivator been sharp, as they are when new, my affaifa would have been torn to shreds, as my man implicitly believed they would. Now, plicitly believed they would, now, the wood of points were dull and blunt, devoid of points were dull and blunt, devoid of points were dull to the soil and cultivated the field to my entire satisfaction.

Everything But the Alfalfa Was Gone. The following day dawned bright ad beautiful, yes, serenely so. A light and beautiful, yes, serenely so. A light shower had fallen like a benediction during the night, and, despite loud protests from faint-hearted friends and well-wishers, four sturdy horses were again hitched to the aforesaid culti-vator, and the work of the previous day resumed. "Ged-ap, there, Fanny, Dick, Harry and Pete," and the little steel shovels again sank deeply into the innocent-looking alfalfa field, merthe innocent-looking sitalfa field, mer-cileasty tearing out the shallow-rooted weeds and this tiffs of grass. This destruction (alfalfa surgery 1 term it), was as pitalsing to me as was the sight of the invariant crop which fell over the movember the previous year. I have been also to the second day when I discovered on the second day when I discovered the provious years of the field I had previously provided the seemed much greener, aronger, and the held I has previously cultivated seemed much greener, stronger, and happier than ever before—certainly much more so than on the field I had not yet "surgeonized." Of course, it

goes without saying that I was over-joyed that my dear alfalfa had not been injured in the slightest way by the ordeal to which it had been subthe ordeal to which it had been sub-jected, but on the contrary, it had been much improved, and its growth materially stimulated by the harsh treatment administered to it. Not only materially stimulated by the harsh treatment administered to it. Not-only did it appear to be thriftier and scronger, but had evidently made percep, 'ble growth during the intervening night—va inch or more I francied. The cultivation, cruel as it seemed at the cultivation, and everything in a world of good, and everything in a world of the field was continued until it had been gone over once, when I was so well pleased with the result that I cross-cultivated it also, this time sinking the showels into the ground a little deeper. To make sure that every yestige of grass and weeds should for ever be exterminated and cease to crowd and amony my affairs, the whole for the cultivation of that implement being set to doubt of that implement being set in the set of the s

My Alfalfa is now Growing Lustily. That my alfaifa is now making very rapid growth goes without saying, the field being put into pink condition. At this date (June 1st), the alfaifa stands knee high and is dark-green in color, which every lover of the plant knows to be the standard was the standard of the standard was the standard of t which every lover of the plant knows to be the sign of a bumper crop of this world's best and most valuable fodder. I am fully convinced that cultivation of alfalfa fields, at least under certain conditions, is a most important factor in its successful production. It must in its successful production. It must be borne in mind, however, that treatment so radical and effective is not to be undertaken until the plant is well established, certainly not until after the second winter has passed. At such time the root system of the At such time the root system of the the proper implement to the cur-tion may be entered upon without fear or trembling. But it requires herve or trembling. But it requires herve ton 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 springtooth cultivator, if its teeth are dull and blunt.

### **CLOVER SEEDS**

| - dotermient offindard          |  |  |
|---------------------------------|--|--|
| Per Bus.                        |  |  |
| No. 1 Red Clover\$16.00         |  |  |
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| " 2 Alsike 11.00                |  |  |
| " 1 Alfalfa (Northern           |  |  |
| Grown) 16.00                    |  |  |
| " 2 Timothy 5.50                |  |  |
| (This seed grades No. 1 for     |  |  |
| Purity)                         |  |  |
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| Terms-Cash with order.          |  |  |
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| Bags extra at 25c. each. On all |  |  |
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\$25.00 or over we pay the We Guarantee Seeds to Satisfy or ship back at our expense. Ask for Samples if necessary.

Todd & Cook STOUFFVILLE

DYER at it again Get his special prices on

Fence and Gates

DYER, "THE FENCE MAN" 47E East Wellington St. Toronto, Ont. fault e

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12-inch bot "horses" to the same d crete. Place with the e inch boards

which are

tion, fill the and the spe crete prop and cement to four cubi bank gravel one part cer Bring the c the top of th face with me tinue the we steps are fin stairs tie the mbedded in mg around th vent possible trost

are then ere cross-braced these forms two by four in to any heigh the cellar do shedding rain

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### Construction of Permanent Cellar Steps and Hatchway

DAMP cellar under a dwolling is frequently the unsuspected cause of many a case of sloke. Office the dampiness is one fault of a poorly built entrance-way. If water gains access by means etically hatchway walls, the cellar becomes unsumitary and the health of the entire family is endangered. This perit can be dispelled by making the walls, and steps of concrete.

DAMP cellar under a dwelling line, outside forms must be provided. It frequently the unsuspected cause of many a cust of a lock of the control of a lock of the control of a poorly built entre is tue of a lock of the control which can be dispelled by making the which add significant to the concrete.

The methods of uldding hatchways for either new or uldding hatchways for either new or under the control of the stairs. With an allouist of the stairs, excavate the opening to the width of steps desired pine to the district of the stairs, excavate the opening to the width of steps desired pine. This extra width is for a six-inch thickness of concrete wall on each side. The steps themselves have a step of six and a tread of nips lupiles. rise of six and a tread of nine inches. rise of six and a tread of nine inches, smeath the steps proper is a four-inch thickness of concrete. Therefore provide for this thickness in sloping the ground upward from the landing to the top of the stairs. Extend the trenches for the side and end wails one foot below the concrete of the

Crushed rock, 2½ cubic yards; sand, 1½ cubic yards; Portland cement, 12

For improving old cellar hatchways



A Permanent Concrete Cellar. Hatchway That May be Easily Constructed by Ordinary Farm Labor.

As forms choose two one by steps. As forms encose two one of 12-inoh boards and notch them as though they were to be used as though they were to be used as "horses" to support wooden steps of Borses to support wooden steps of the same dimensions as those of con-crete. Place the notohed edges down with the ends fixed at the top and bottom of the stairs. To mold the rise of the concrete steps, use one by six-inch boards three feet 16 inches long, which are secured to the forms by means of nails and wooden cleats.

Filling the Steps.

Filling the Steps.

With the forms drmly fixed in position, fill the mold for the bottom step,
the space back of it, with coacrete pro-prisened one bag of Portland coment to two cubic feet of sand
to four cubic feet of crushed rock. If
bank gravel is used, mix the concrete
con part comments for the concrete one part cement to four parts gravel. Bring the concrete in each step to the top of the riser and finish the surthe top of the riser and much the sur-face with merely a wooden float. Con-tinue the work upward until all the steps are finished. At the top of the stairs tie the agreen foundation to the Hars the the appear foundation to the side walls by means of old from rods imbedded in the concrete and extend-ing around the corners. This will pre-vent possible heaving and cracking by

The side forms of the six inch watle The side forms of the six inch walls are the created and are theoreuschly cross-braced against each other. For these forms use one inch siding on two by four inch studding spaced two fet apart. The walls can be carried to any hight desired so as to give the cellar doors sufficient slope for the ce shedding rain-water. Above ground

it is frequently necessary to fill with earth and gravel so as to provide the earthen adopt on the concrete steps. Such filling must be thoroughly tamped into place and should be water-scaled and allowed to settle before the steps are built.

the steps are built.
Concrete steps, unlike other kinds,
become stronger with age. They are
perfectly are under the heaviest of
loads. Moreover, besides being
water-tight, they keep out rats, mice
and other obnoxious vermin.

An Ensilage Advocate D. R. Wiltse, Leeds Co., Ont.

CERTAINLY am in favor of ensilage either for summer or winter feeding. Of course there is no-thing like grass to make milk, but I think the next best substitute is enthink the next best substitute is en-silage when the pastures are short in August and Sep; imber. A crop of rye August and Sep; imber. A crop of rye and put in the silo and fed when the pastures are burst up is also a good supplementary feed for cattle. Of course the cattle must have other feed as well. For winter feeding there feed as well. For winter feeding there is nothing like the silo well filled with

An annual spring clean-up aroung the buildings will supply kindling to light the fires for many months.





An up-to-date High Grade

An up-to-date High Grade

An up-to-date High Grade

High Claim, THERE CERTS A WURN

An up-to-date High Grade

FOR SALE—No. 28 De Leval I Ream
Constr. Farse Age 27 20, 00

Constr. Farse Age 27

TWO CHOICE HOLSTEIN BULLS

Both by Dutchland Colamba DaKel (1984). Backed by the best records of the Colamba and DeRici femilies. Deep repers oid, the other 15 months. For quick mas, 190.00 and 186.00 naspectedly, T. THIRLWALL.

R. R. No. 1 All.SA CRAIG, ONT.

-DISPERSION SALE-

20 Head

20 Head

### PURE HOLSTEINS

AT EMERY, MAY 31, 1916

The entire herd of high testing R.O.M. and R.O.P. Holsteins, the property of 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, Ont. J. K. McKEWEN, Auctioneer



### **AUCTION SALE**

### Pure Bred H

### 3 MILES EAST OF TILLSONBURG, Wednesday, May 10, 1916

The offering compelses twenty-four head, tocknifing all the pure breds of G. B. Kyan and the pure bred milkers of R. McGlomer, and the pure breds shocknifely without reserve. The farm is situated on Let B. We will be sold a shocknifely without reserve. The farm is situated on Let B. We will be sold to the C. We will be sold to the compelse of the c

G. B. Ryan Proprietors

Moore & Dean, Auctioneers



LAKEVIEW STOCK FARM, BRONTE, ONT. Breeders of high Offer for sale Choice Young Bulls of various ages, all some of Grand-some of 190-lb. cows. One is out of a 146-51-60 yr. of daughter of Lakeview Batter, Latest Chn.-Cham., 20 dy., butter over 2.yr. old daughter of Lakeview Batter, the company of the compa

T. A. DAWSON, Manager.

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

### 2 CRESCENT RIDGE SIRES

1—Sired by Correct Change and out of a dam that has milked nearly 14,000 lbs. per year, averaged \$11.5 lbs. butter, and produced a salf every 2-Out of one of our choicest 2 yr. olds, Johanna Fairmont Hengurwald, with 21.72 lbs. at 2 yrs. His sire is the great Correct Change. JACOB LEWZLER & SON, . . . R. R. 1, BRIGHT, ONT.

- KORNGOLD STOCK AND DAIRY FARM

Improved English Yorkshires, either sex, all ages. Choice young sows of breeding age.

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



#### AYRSHIRES

PEACH BLOW AYRSHIRES -

Young Stock for sale, always on hand (both sexue), from high-sesting-heavy producers. Good adders and large test a special feature of my herd. Three fine young Sirse ready for service. Get particularly despite if you need a sire. R. T. BROWNLEE, Pea ch Blow Farm, HEMMINGFORD, Que.

#### ME AYRSHIRE BULLS FOR SALE

Dwo bulls, bred from Hobsland Sunries, owned by O. A. C. Dam of six months buil holds a large R.O.P. Record as four-year-old. Dam of seven stream of the str

#### SELWOOD AYRSHIRES

Young bulls from R. O. P. dams. One fit for service, two December calves. All from dams with sound udders and good teats. Write for breeding and price.

J. L. STANSFLL

STRAFFORDVILLE, ONT.

#### TANGLEWYLD AYRSHIRES

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

E. R. NO. L.

#### SUNNYSIDE AYRSHIRES

imported and Home-Bred. Are of the choicest breeding, of good type and have been selected for production. THREE Young Buils dropped this fall, streed by "Nether Hall Good-time"—2644—(Imp.), as well as a few females of various ages, for sale. Write or come and see

J. W. LOGAN, Howick Station, P. Q.

### Market Review and Forecast

TOHONTO, May 1.—Canada's financial dairy prints, 25c to 25c; and ordinary dairy prophets have been indulging of take in much speculation as to the condition of the conditions point to a good cheeser year, and the make is already large. An acute agreediture after the war, perceiven in the condition of the condit

WHEAT.

WHEAT.

Lake navigation has now opened, and prices are again quoted for Western, wheat and cate on track at buy ports. There is not priced and only one track at buy ports. There is not provided to the state of the

COARSE GRAINS.

COARSE GRAINS.
There has been a genum advance of about one cent all round in coarse grains. The slack delivery of Ontario grains, due to the state of the state o

MILL FEEDS.

HAY AND STRAW.

HAY AND STRAW.

Hay quotations have taken another advance, and there is a ready demand for all receipts. Dealers in ready formand for lows: Baied hay, best grade, \$50 to \$10 to

POTATOES AND BEANS.
Quotations are steady with those quoted last week, but the seed-time rise in the last week, but the seed-time rise in the transport of the seed of the see

Egg quotations in the country now vary from 30c to 22c, the higher figure seldom resilized. On this market, new-laids (in cartons) are quoted 24c to 25c; and ex-cartons, 35c to 24c.

DAIRY PRODUCE.

DARTY PRODUCE.

Butter receipts are increasing dalky, and creamery quotations have again been staved downward on this market. A weak undertone to the butter market is restricted to the state of the butter market is resulted to the butter of the butter o

do common, light ... \$ 55 to \$ 50 Cattern ... 4 75 to \$ 50 Cattern ... 4 75 to \$ 6 to Cattern ... 4 75 to \$ 6 to Cattern ... 4 25 to \$ 4 35 to \$ 4 35 to \$ 6 to Cattern ... 4 25 to \$ 6 to \$ 6 to Cattern ... 4 25 to \$ 6 t

AYRSHIRE BREEDERS' CLUB AT HEMMINGFORD.

AYRBHINE BREDERS' GLUB AT HEMMINGFORD.

THE Secretary of the Canadian Ayreline Remember Amonth, Glass, met the Ayreline breeders' in the Ayreline the Ayreline breeders in the County of Huntingdon the Hemmington of the Ayreline and the Ayreline breeders were and the general interest of the Ayreline breeders which are and the general interest of the Ayreline breeders which are and the general interest of the Ayreline breeders and the general interest of the Ayreline breeders and the Ayre

Fairmont Holsteins

Tours buils for sale, all sons of Young buils for sale, all sons of King Segis Aloartra Cakamity, the Zamous son of the \$50,000.00 Sire. One is about ready for service and overy inch a show buil. All from tested Dams. Prices reasonable and terms to sait purchaser. AREOGAST, R. R. No. 5. Mitchell, Ont.

HOTEL CARLS-RITE

CUM

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dam Cou Seri old full

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4, 1916.

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SALE DATES CLAIMED.

CUMMINGS BROS, SALE OF AVR-DIMMINGS INDIGS, of Lancaster, Ont., disposed of x7 head of Ayrachies possible state and hefere control and hefer for the state of the

THE ORMSTOWN SPRING SHOW

HE ORNETOWN SPRING SHOW.

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#### HOLSTEIN-FRIESIAN NEWS

Farm and Dairy is the leading ponent of dairying in Canada, be great majority of the members the Canadian Holstein-Pricsian sociation are readers of the per, Mombers of the Association of interest of the association as a include to send items of inter-tal and the send of the canada and interest of the canada and the canada and interest of the canada and the canada and the interest of the canada and the canada and the interest of the canada and the canada and the send of the canada and the canada and the canada and the send of the canada and the canada and the canada and the send of the canada and the canada and the canada and the canada and the send of the canada and the

TO APPL, 15, 1946.

Mature Clans, Green Fr. De. Butter, 124, 1948.

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mille, 42.32 Sec. Sec. 55.27 Res. better J. W. Hichesteen, Oxfordonia, C. Sec. 52. Res. 52. R

Sr. Three-Year Class, Over 20 lbs. Ielena Sylvia Posch, 21373, 3y. 10m.

 Riverside Korndyke Toltilla, 31902,
 3y. 2m. 7d.; 406.5 bbs. milk, 18.42 bbs. fat,
 23.03 lbs. butter. 16-day record: 3y. 3m. 7d.; 796.8 lbs. milk, 36.72 shs. fat, 45.90 lbs. butter. E. S. Baker, Guelph. 23,16 Ba. butter.

14-day record: 3y. 1rn. 0d.; 909.5 lbs.
rulk, 33.59 Bbs. fat. 41.99 lbs. butter.

Alison Bros. Chesterville.

3. Biverdale Lyons Inka, 23742, 3y. 3m. 1d.; 348.7 lbs. rulk, 17.69 lbs. fat; 32.12 lbs. butter. Allison Bros.

day record: 2y. 1sn. 2d.; 556.5 lbs., 21.84 lbs. fat, 27.30 lbs. butter. Peter ribogast, Mitchell. Adeline Schufling Posch, 31634, 2y, 20d.; 218.9 fbs. milk, 13.09 lbs. fat. 6 bs. butter. J. W. Hichardson. Fairmont Bessle Walker, 31927, 2y, 22d.; 332.4 lbs. milk, 12.36 lbs. fat. 6 lbs. fat.

W. A. CLEMONS, Secretary.

WM. J. BALD'S DISPERSION SALE.

### AVONDALE FARM

### SECOND PUBLIC SALE OF 70 HEAD **OFFICIAL** HOLSTEINS

BROCKVILLE, ONT., MAY 17, 1916

### King Pontia Artis Canada

has 32 tested daughters and several in test. 2 with over 23 lbs., 3 others over 22 lbs. and 15 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 lb. 4 yr. old daughter of King Pieter and Countess Segis, a 31.7 lb. daughter of King Segis. One full sister to 231/2 lb. 2 yr. old from a 28 lb. 4 yr. old dam-a grand one. One 2 yr. old with over 21 lbs. Three full sisters from a 23 lb. 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 lbs. 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 are bred to sons of this great cow. One was sired by Francis M. Jones' 44 lb. bull, most 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.



### Six Daughters of Woodcrest Sir Clyde

who is a son of Pietje 22nd Woodcrest 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 "CHAMPION." We shall also offer several exceptional young bulls, one extra good one from a 31.70 daughter of King Segis, several grandsons of Prince Hengerveld Pictje 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

Brockville, Ont.

### 100% Healthy



(38)

is SAFE, SURIS and CHEAR. It
as a gray fined House, being a
a gray fined House, being
PREVENT DIFFERENCE AND CHEARLY
PROMISE AND CH

ZENNER DISINFECTANT CO., WINDSOR, ONT.

### TWO CHOICE HOLSTEIN BULL CALVES

For Sale at Highland View Far One is from May Echo Keyee—butter 28.18, manufacter of May Echo Keyee—butter 28.18, manufacter of the above cow with a junior two year utter and 10.25 bbs. milk in one day. The sire egis Walker with five aisters averaging 100 bbs. milk of the control of the con

FOR SALE - HOLSTEIN BULL CALF

6 mcs. old—Good Individual—Black and White—White slightly predominating. Dem—Fremona 2nd, Champion 4-year old in R.O.F. least, 20,315 ha Mik and 811 hbs. Butter in leas than one year. BURD.—31 Dora Segis Pontiac (Tracy's Herd Bull). The home of Lulu Keys.

GOBOURG, ONT. COBOURG, ONT.

\_18 HOLSTEIN BULLS.

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

Dams bave milked from 100 lbs. a day down.

Aged from 18 months to a few days. Write us to-day if you want a bulk.

R. M. HOLTBY

R. R. No. 4

PORT PERRY, ONT.

BEAVER CREEK STOCK FARM Offers a few yearling Holstein heifers-Korndyke breed. Will sell right for quick sale. Apply to ALBERT MITTLEFEHLDT, Port Davison Stn., T.H.B., Wellandport, Ont.

### -AVONDALE HOLSTEIN BULLS-SIX BULLS 5 to 12 months from high record dams and sired by our KING PONTIAC and PIETLE (18.60 lb. dam) bulls. We are offering heart KING PONTIAC and preserved the second for our power services, and are seeiling fast. Service of the service of th

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

### FARMERS' CLUB

Correspondence Invited.

QUEBEC

RICHMOND CO., QUE.

DANVILLE MOD TO. The moor is all gone, and roads are drying up quickly. Cuttle have done very well this winter. Cuttle have done very well this winter to 47th Hope Cows are milking well and brid haps. Cows are milking well and brid haps. Cows are milking well and brid haps. Cows are milking to 47th Hope are 61.00, and feed is very high; hay, \$30. Begs are selling at \$5c. cheaper. The \$10 to 400 and 10 and

**ONTARIO** 

ONTARIO
DURIANO, N. N. Campbellever, A. G., N. Whost, rye and clever have come through the winter well. No seeding has been doin as yet. A sumber on high land are plowing and been come through the winter well. No seeding has been doin as yet. A sumber on high land are plowing nade. Cattle are a high price, and have wintered well. Store stalls and have wintered well. Store stalls. Light and general purposes as the stall and general purposes as the stall and being around \$8 a pair at six weeks and cattle years are picking up fat hogs and cattle years are picking up fat hogs and cattle years are sufficiently and the stall and t

NORFOLK CO., ONT.
POUR BURWELL, April 24.—Weather conditions to the process of th

GREY CO., ONT.

GREY CO., ONT.
THORNNINT, April 22.—Show has all disappeared and we are having nice warm weather with plenty of rain. The warm weather with plenty of rain. The have come through the winter looking fine, and we do not hear any complaints of searchy of feed. A number are team-reactive of the control of the

SASKATCHEWAN QU'APPELLE DISTRICT, SASK. FORT QU'APPELLE, April 20.-Very

BRITISH COLUMBIA

NEW WESTMINSTER DISTRICT, B.C. NEW WESTMINGTER DISTRICT.

Chilliwack, April 15.—Sooding will
general here about April 20. We had quite a had quite a proceeding a party apples, pluma, proceeding a party apples, pluma, proceeding are out in bloom. Trees are out in and the grass in the pasture field three to four inches high.

CHILLIAWAGE, April 31.—We are long very backward weather. It has sown yet, wash no grain has sown yet, wash no grain has sown yet, wash no grain and the sound of the sound of

AyONDALE FARM SECOND PUBLIC

AYONDALE FARM SECOND PUBLIC

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LAKE MARIE FARM DISPERSION

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All Roads Lead To Brockville, May 18th, THE OF-BROCKVILLE BREEDERS'

Sixty head of richly bred animals, many with 100 lbs, blood behind them. Nearly all stock of milking age, officially tested. This is the district where big records are made. We have 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 MAIDA SEGIS—a senior 2 yr. old, under test, expected to reach 20-lb, mark.

RETTA DE KOL MAIDA—who has a record of 29.03 butter and 701 lbs. milk in seven days, 117 lbs. butter and 2976 lbs. milk in 30 days with 110 lbs. as best day's milk.

PEARL LILY DALE—who has a record of 23 lbs., her dam's record of over 20 lbs.

SARA JEWEL HENGERVELD A-record of 24.14 lbs. and who has a daughter with a record of 27.70

TIDY KORNDYKE WAYNE 2nd—who has a record of 18.65 lbs. as a 2 yr. old.

MONKLAND DIONE-A fine 3 yr. old, tracing into the Inka Sylvia family.

Same choice young buils and heifers of very highest breeding, all in excellent condition and fit for

G. A. Gilroy, Secretary Glen Buell, Ont.

Each

Separate

Ridge with Double

Rafter Locked at

Steel

Braces

lay 4, 1916.

ABIA













Mr. Fence User:

You will notice that both "Canadian" and "American" Fences are manufactured by



# The Canadian Steel & Wire Co., Limited Winnipeg, Man.