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These are a few of the many excellent features embodied in the Simplex Separator. Simplicity of operation because there is a minimum of working parts of any machine made. A child can understand and operate the Simplex. The Simplex is made to last a life time; and into every machine that leaves our works the conscience axid integrity of the time is built. The Simplex is the

of the drm is built. The Simplex is the greatest money-saver and labor-saver on the modern dairy farm. The Link Blade akimming de-vice akims so clean as to preclude all possibility of weats, thereby saving you many dollars in hard eash every year the large capacity 1,400 Hb. Simplex cance at a. This means double production with hat the labor required for the ordin-double production with hat the labor required for the ordin-

ary hand separator. That the Link Blade device is more efficient than other types, we have proven many times by testing the shme in bowls of other makes of negarators. It dways results is nan increased capacity of anywhere from 25 per cent. to 59 per cent., or even 100 per cent.

It is when you consider these features of the Simplex that you understand why it is the favorite separator with the dairy farmers, and the separator "par-excellence" of all makes

We know that the Simplex is the separator you want, but we do not ask you merely to accept our word. Write us for proof and particulars of our offer of a demonstration of the Simplex on your own farm.

D. DERBYSHIRE CO., Limited Head Office and Works: BROCKVILLE, ONT.

Branches: PETERBOROUGH, ONT. MONTREAL and QUEBEC, P.Q. WE WANT AGENTS IN A FEW UNREPRESENTED DISTRICTS.



Plain Words For Ontario Dairymen

A Western Dairy Authority Submits the Dairy Industry of Ontario to Some

O NTARKO dairycnes need no long-ourselves as others see us." Iz his address before the convention of Cheese Quality, Teo, Lags. Saskatchewan dairymen held at Sas katoon some time ago, the assistant Dairy Commissioner for that province, F. A. Logan, B.S.A., expressed him-solt very clearly as to his view of the dairy situation in Ontario. His remarks are particularly interesting in view of the fact that since they were ade some of the measures that he advocated have been enacted by the Ontario Legislature. In part he said:

Ontario Logistature, in part ne said: "If there is any industry in this country which should be under gov-ermment control, it is the distry in-dustry. The cyrsity of the finished product depend, so much upon the raw material, and without the did of some asystem which will tend towards the improvement of the raw materthe improvement of the raw malor-isl, there is Mithe uppe that the in-dustry will reach the perfection that it should. Educate the farmers to better methods in regard to the care of their milk and cream, you say. Education has its value, but it will fall to bring about the desired result. This Cherchen as its argued. Take Ontario, as an example. For the past 36 years the Ontario Govern-ment and Dairy Associations have kept up a hombardinent on "The Care of Milk and Cream": "The Washing of Dairy Utensils"; "The Effect of Feed on the Quality of the Milk," and kindred topics, sufficient to make every farmer in Ontario a scientific and sanitary parcent of the most reliable experts of the Province, at the Dairymane' Convention last January, stat-ed, that as regards the quality of On-tario butter and cheese they were making little or no progress. He further added that the foreign market for Ontario butter was nil, that at one time they had a good market in Brillah Oolumbia, but when brought into competition with butter from the Prairie Provinces, they were obliged to take a second place and an inferior

Real Remedies Avoided.

This, to say the least, is a humiliat This, to say the feest, is a aumiliat-ing and serious confression, and an administon that they have not followed the right system: in developing the defry industry. They field their an-mual conversions and discuss the name old subjects, such as "How to Provid up Cat," were and "they to provid up Cat," were and "they to touch upon the vital questions such as evalue to seems, scatters the pattern and a cooperative marketing system. They refer to the progress that has been made in Alberta and Saskatch been made in Alberts and Saskistche-wan shoce the adoption of these methods, but apparently look upon the task of reforming the milk and cream producers of Ontarlo as hops-less. With private and cooperative creameries and cheese factories locat-ed at from two to ten miles apart, the commatition for milk and ensuin the competition for milk and cream keen, and one operator will not start grading for fear some of his patrons will take their cream to some other creamery, and so the old method is sontinued. There are some excellen dairymen throughout Ontario e, but they get no more per of butterfat for their cream Quebec, bound than the most careless patron in the Chan the most carbons parron in the neighborhood, so the tandsacy is for the good dairymen to become care-less, rather than for the careless to become more particular. It is, there-fore, not surprising to read the state-ment of an old buttler dealer to the effect that for mone configuration and

MAY 18, 1916.

As regards cheese making, dittle or no improvement is being made in its quality. As high a price is paid for poor milk as for good, so it is only natural that the quality of the milk does not improve. The leading dary-men of the East realize that there is one effective way of bringing the quality of their cheese and butter to the standard already reached by some of the Western Provinces, and that is to grade the milk and cream when is to grade the mark and cream when it arrives at the factory. They also realize that their present system of marketing is unfair, unsatisfactory, and does not tend towards establish-ing standard grades or reliable markets, but owing to unwarranted com-petition they do not seem able to

agree on any system more efficient or satisfactory than the one in vogue. It is usually easy to point out defects, but not so easy to suggest remedies. I think anyone will agree, however, that some of these old methods must be shanged if the dairy products of Eastern Canada ever achieve achieve any reputation worthy of mention in the markets of the world. One of the first reforms would be cooperative marketing under Govern-ment supervision, accompanied with the grading of all butter and cheese and the payment for same, according to its quality, instead of by the ex-pensive "hit and mise" system of aution sales, consignment, or private ar-rangement. This step would doubt less lead to the grading of cream and milk, for manufacturers would soon learn that to obtain the highest prices. they must obtain better raw material and this will only come when it is paid for according to its quality.

PAID BY TEST FOR 12 YEARS. - DITOR Form and Dairy .- Regarding the Dairy Standarda' Act by which milk testing at cheese fac-tories is made compulsory after April tories is made compulsory after Apri-tet, 1917 I would any that doublies this should have been done years aco. In the years 1855, I paid for mile on a quality basis in 32 factories, and con-tineed to pay for mile on that basis for about 12 years without any help from This milk testing cost me thousands of dollars. I must have been ahead of my time for I paid very arly for my experi

The legislation is all right, but the practical working out of the law will be another matter. The E*-O. D. A. ould take the matter in hand and appoint men who are theroughly com-petent to do the work. This cheese instructors should be able to do the testing if they could pass the necessary examinations for a certificate to Ao the work.--Wm. Eager, Dundas AO Co., Ont.

LENGTH OF NOTICE.--If a person rents a house by the year, but pays rent by the month, how much motios do they have to give of their intentions to give out has house?--F. D., Peterboro Go., Ont.

When a house is rented by the year, the tenancy expires at the end of the year, when the tenant will either leave or make a new agreement with his landlord. If the tenant stays on neighborhood, so the tendency is for landlord. If the tenant stays on the good dairymene to become earce without making any further arrange-less, rather than for the careless to ment with the landlord, he becomes become more particular. It is, there-become more particular. It is, there-ment of an add butter denies to like when a house rent and will be obliged fore, not surprising to read the state-to give nix months' notice to give nix months' notice to guit, ment of an add butter denies to like When a house has been rented for a effect that 30 years ago Ontario and year, the tenant is, of course, obliged Quescle outlier was of good questly, to keep the house for the year.



Trade incre

VOL. XX

A. C. Halle

in Canada. H stein Associati he has done n country. The an interesting Holstein breed

The Hallman county. His g that section, a weaver by own occupation earner, he pi walked to Car fools don't en undertaken by land of promis made. He fina mot, in Water



VOL. XXXV.

PETERBORO, ONT., MAY 18, 1916

A Veteran Among Canadian Holstein Breeders

A Recognition of the Services of Mr. A. C. Hallman to Canadian Dairying-By F. E. Ellis, B.S.A.



HIS sketch is in recognition of the services of Mr. A. C. Hallman to the pure bred dairy cattle industry of Canada. Recognition of a man's services after he is dead is at best but tardy justice. The subject of this sketch is not dead; far from it. A man a little past his prime, and as fresh and vigorous in mind and outlook as ever and as anxiously looking for new fields to conquer, Mr. Hallman is, nevertheless, one of the veterans among Holstein breeders

A. C. Hallman.

in Canada. He is one of the fathers of the Holstein Association, and in the past several decades he has done much to popularize the breed in this country. The story of his early life is therefore an interesting chapter in the development of the Holstein breed.

The Hallman family is an old one in Waterloo county. His grandfather, the first of the name in that section, came from Pennsylvania. He was a weaver by trade, but seeing no future in his own occupation, except that of a poorly paid wage earner, he picked up his few belongings and walked to Canada. It has been well said that fools don't emigrate, and the arduous journey undertaken by the elder Hallman to reach his land of promise showed the stuff of which he was made. He finally settled in the township of Wilmot, in Waterloo county, near New Dundee. He

cleared a farm from the virgin forest, and the work that he left undone was completed by his son, the father of the subject of this sketch. Both the Pennsylvania weaver and his son were thrifty and progressive people, who, seeing into

the future, were content to make good use of the present.

It was on the farm that these two men cleared from the virgin. forest that A. C. Hallman was born and reared, one of a round dozen of sturdy country children. All but one of this large family are living. All are farmers or farmers' wives, and all are doing well. Young A. C. Hallman soon showed his natural bent. "I was the cattle boy at home," he told me once. "I never cared for teaming. I used to love of it."

Finally the time came when the cattle boy desired to become a cattle man and make a start for himself. He settled two miles from the old homestead on a farm that his father had bought as bush land and off of which he had sold a part of the timber. The small area of crops that had been produced there had always been drawa to the home farm. Finally the partly cleared farm was



A String of Holstein Youngsters on the Farm of A. C. Haliman. - Photo by an editor of Farm and Dairy.

offered for sale at \$5,000, but could not be sold. Then young Hallman made his first bold bid for a home of his own. "I will take that farm at your price," he told his dad.

It was a rough, hilly farm to which the young



The Substantial Farm Home of A. C. Hallman, Waterloo Co., Ont. he in the barns slicking Surrounded by trees of Mr. Hallman's own planting, this is one of the finest un the cattle just for the farm homes in Ontario. Photo by an editor of Furm and Dairy.

> man moved and not one well calculated to engender optimism. Forty acres of stoney land had been cleared. The first season's grain crop weighed out just 666 bushes. The house to which Mr. Hallman took his bride was built of logs, which at least had the merit of being substantial, and there they lived and worked for 15 years. Improvements were made from time to time: an addition to the barn, a modern hog pen, a good drive house, and so forth. When the farm was finally sold Mr. Hallman realized \$500 more than he paid for it, and when he left the farm produced 2,000 to 2,500 bushels of grain, fed 30 to 35 head of cattle, and at times over 100 hogs. Of course, for the latter, much feed was purchased. The purchase of this farm Mr. Hallman still regards as one of the greatest mistakes of his life.

> "When the neighbors were riding the binder and mower I was grubbing around stumps with a scythe," he told me in a chat we had last spring. "If L only could have devoted that time to something more useful! My gracious, the stones I picked on that place! I worked terribly to make that farm go, worked till all hours of the night, and could I have put all that energy into cattle I would be much farther ahead to-day."

> > The Start With Holsteins.

In the meantime, however, a start had been

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made in the cattle business which was destined to bring Mr. Hallman both fame and prosperity. His father and find good Durham cattle, but he soon found as he attempted to improve them with Shorthorn blood that he got less and less milk from his cows. This was a serious matter, as a cooperative cheese factory now offered a fairly good market for the milk. Among the friends of the family was a Swiss gentleman, who talked much of the great cattle he had seen and known. Illustrations of Holsteins had attracted the elder Hallman, and in 1883 he decided to buy some Holstein cattle. Accordingly, three pure bred females and two bulls were purchased from Geo. E. Brown & Company, Au-ora, Ill. Thus was the herd started that has wielded a great influence in the development of the black and white breed in Canada

At the time they made their first importation, Mr. Hallman and his father did not know that there were any Holsteins in Canada. Later they heard that a few had been passed through the three months' quarantine by M. Cook & Sons, of Aultaville, Ont. This long quarantine made importation difficult and expensive. In 1885, Mr. Brown imported Holsteins direct from Holland, bringing them through Canada. He fed at Toronto. The two Hallmans, father and son, and a Mr. Hilgartener, went to Toronto

Dear Sir,

to see them. The subject of our sketch had pluck enough to select six heifers, three calves and three yearlings, and one bull. These each for the calves eight old and \$360 for the heifers mou coming two. Of this lot, Mr. Hallman took three for himself and borrowed the money to pay for them. The rest of the story is best told in Mr. Hallman's own

The First Disappointment.

"The first heifer to freshen was worde

a beauty," said he. "She was as nice a type of Holstein as I have ever seen. She was a dual purpose type, splendid for milk and good for beef. She died with her first calf. That was my first setback with the breed. I had paid \$360 for her and kept her from fall to spring, and it was borrowedmoney at that. I decided, however, that the only way to recover my loss was to keep right on and get it where I had lost it.

"I proposed to Mr. Hilgartener that we go into partnership. I calculated that in this way we would share the losses, as naturally losses were foremost in my mind at that time. I forgot that such a partnership also involved, necessarily, sharing the profits. In addition to ourselves, my father had some Holsteins, and also another neighbor, Mr. Wagler. I was expected to do all of the selling and correspondence. We made additional importations from Smith, Howell & Lamb, of Syracuse, N.V. Finally, Mr. Hilgartener and I had 60 head of pure bred cattle. We had more" cattle than there was a demand for. Had I been doing my own business I could have sold all and done much better. As it was, we called a dissolution sale, at which good cattle sold as low as \$60 and \$50, and I then started out for myself in the Holstein business. That sale was held just 10 years after I started on my farm."

Success in the Show Ring.

Even before this sale was held Mr. Haliman had started his career in the show ring. In 1885 he took half a dozen head and went to the Provincial Exhibition in London. He went with much fear and trembling, for, as he explained to me not long ago, he was "just a green farm lad."

FARM AND DAIRY.

Cow Testing and Herd Improvement

A Practical Farmer Relates How Cow Testing Enabled Him To Almost Double the Production of His Cows in Three Years-By E. B. Beach. Grenville Co., Ont.

WILL try to relate a little of my experience in herd improvement. In the early spring of 1913, Mr. Freeman Brown, Dairy Recorder for this county, wanted me to take up cow testing work. I decided to keep herd records and find out what they would do. I became quite interested in the work. I found that it paid to know what the individual cow would do, the quality of milk she gave as well as the quantity. This could not be done without keeping a record of her work, so for the first year I weighed the milk three times a month and took samples for testing. But I wasn't satisfied with weighing three times a month, so for 1914 and 1915 I weighed twice daily. For 1913 the result was as follows:

ba. of milk. Average for 6 cows 5.145 Best cow, aged 4 yrs. 5.922 Poorest cow, aged 4 yrs. 3,871 For 1914 for a herd of 7 cows:	lbs. of fat 178.9 190.2 114.4
Ibs. of milk. Average 5,461 Best cow 6,459 Poorest cow 3,136	lbs. of fat 186.3 199.4 111.6

.DOMINION HOLSTEIN BREEDERS' ASSOCIATION.

Parkhill, March 20th, 1691.

of fat

A Special Meeting of the D. H. D. will take place at the Victoria Hotel, Guelph, on March 31st at 12.30 o'clock p. m. The committee appointed at Stratford, after fully investigating, do not consider it to the best interest of the Breeders to establish a H.B. in connection with the Agricultural and Arts Association, but are favorable for the Association to form their own hard book, which can be done cheaper and more satisfactory. Mr. D. E. Smith will accept the Secretaryship and push the work.

P. S .- Those not able to be present will please communicate their views to the Secretary prior to the meeting.

By order of President. aleftallman Bresident, P. STEWART, Secretary.

Twenty-five years ago last March the above notice was sent out to members of the Dominion Holstein Breeders. Mr. Haliman was then President. The Holstein has made a lot of dairy history in Canada since this notice was first sent out.

> In 1914 the average value of milk was \$60.63; feed cost, \$38, and the average profit, \$22.63.

> After two years' experience in the work and finding even cows the same age giving from 2,000 lbs. to 2,300 lbs. more of milk, and also from looking after the feed, finding some cows responding to the same feed more than others (for in 1914 and 1915 I kept feed records as well). I found one boarder, and so decided to keep the six best cows and feed more liberally. The result for 1915 was as follows:

	lbs. of milk.	ibs. of fs
Average	9,456	341.2
Best cow	10,287	445.4
Poorest cow	8 194	991.4

The value of milk at \$1.30 a cwt. was \$122.93, feed cost \$72.15, and the profit \$50.78. The increase in production and profits was due to weeding out and more care and better feeding, and while I think it pays to keep a good sire at the head of the herd, yet my work in 1915 was with the same cows as in 1914, less one. I will be able to say more about breed in a couple of years from now if I stay in the work. While the cost of producing 100 lbs. of milk may have been a little high, I did it without ensilage, lurnips or mangels. My summer feed was green peas, oats and clover sown at different intervals. Winter

feeds were corn stalks, hay and straw. Mill feeds were bran, shorts, cornmeal and oat chop.

May 18, 1916.

Cleaning Up the Small Jobs Jos. Irwin, Dufferin Co., Ont.

WE have never had much trouble in getting the seeding done on schedule time. During seed time everything goes like clock work. The team is in the field sharply at seven o'clock, one item of work follows logically after another, and everything and everybody is speeded up, with the result that the spring seeding finishes sharply on time, with scarcely a hitch, ex. cept when wet weather interferes.

Previous to last year, however, we always had difficulty just after seeding. Just as soon as the seed was in the ground things seemed to come to a standstill. We tore around and worked as hard as during seeding, but seemed to get noth. ing accomplished. Every job stuck to our hands,

and we could not seem to get rid of it. There were so many little things to do besides getting the root and corn land ready that 'it seemed impossible to make any progress. Just as we got started at cleaning out the manure that had accumulated since spring opened up, we would find a piece of fence that had to be attended to immediately. When we ought to be planting the garden a trip to town would demand our time. All during the spring rush the little jobs had been accumulating, but now they must be attended to, with the result that no end of time was lost in running from one thing to another. In seeding time it usually surprised us at the end of each week to find how much we had done. As soon as seeding was over, however, the surprise on each Saturday night was to find how little had been accomplished during the week.

Last spring we adopted the new plan with good results. By it we

just about doubled the number of small jobs we could get through within a week. We began by making a list of all the jobs we could think of that had to be done within the next week or so. Each night this list was revised. The things that had been done were struck off, and new jobs put on as they appeared. The things that needed attention most were picked out so that they could be attended to the following day. Each day's work was therefore carefully planmed, and we took great pride in being able to say at night that everything had been accomplished that day according to schedule.

As a result of this plan, we did in two weeks what formerly took us three or more weeks to We therefore got our roots and corn planted that much earlier and all the small jobs out of the way, so that we had a good long summer season left open for carrying on our general plan of farm improvement which we have under way, and which has occupied our spare time in summer during the past few years.

We have reached the point where we can we have teached the point where we can excredly advise a man to plant apple trees. For years and years we have been boosting and boost-ing the apple business. Our problem now is not planting, but shipping the fruit we have.--Prd. J. J. Orow, O.A.C., Guelph.

May 18, 19

D disagree one livi the roads an road drag is of using it is comes from

ruts were for in it. The r middle and p in wet weath will not be m implement fo log drag. It every rain.

roadbed in th When the centre it will moisture unl growing along st and thus soil grains to not be allowe travelled part Clay or los the right am

becomes soft, do not stick fair amount o it at least 1 Wep it pack middle and to weeds. When be ground to in. Use the r

Better farm modern scien better busines tion of moder ness side of t is the buildin. mestic and se growing attra three-fold sch ground, and w life movement general scher change in the must come fir



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Dust Prevention By W. C. Palmer.

DUST is one of the nuisances of a road. It is disagreeable both to the traveller and to the one living near the road. In many places the roads are olled but this is expensive. The road drag is a good dust prevention, and the cost of using it is small. Much of the dust in a road comes from the wearing down of ruts, and the ruts we e formed in the road before water stood in it. The roadbed that is well crowned in the middle and packed hard will not loosen up much in wet weather, and if no ruts are formed there will not be much material to form dust. The best implement for crowning the roadbed is the split log drag. It should be run over the road after every rain. In this way the soil is laid on the roadbed in thin layers and is packed on.

When the roadbed is hard and crowned in the centre it will hold just about the right amount of moisture unless it is sandy. Grass and weeds growing along the roadbed send their roots under it and thus remove the moisture that holds the soil grains together. The weeds and grass should not be allowed to get within several feet of the travelled part of the road.

Clay or loam will pack hard when it contains the right amount of moisture, when too wet it becomes soft, and when too dry the soll grains do not stick together. The best way to keep a fair amount of moisture in the roadbed is to keep it at least 18 inches above standing water, to Keep it packed hard and well crowned in the middle and to keep a strip on each side free from weeds. When ruts are allowed to form they will he ground to dust as soon as drying weather sets in. Use the road drag to keep ruts from forming.

Better farming simply means the application of modern science to the practice of agriculture. better business is the no less necessary applica tion of modern commercial methods to the business side of the farming industry. Better living is the building up in rural communities of a domestic and social life which will withstand the growing attraction of the modern city. This three-fold scheme of reform covers the whole ground, and will become the basis of the country life movement. But in the working out of the general scheme there must be one important change in the order of procedure-better business must come first .-- Plunkett.

Hogs a Profitable Sideline to Dairying Feeding and Housing Methods Advocated by Mr. W. C. Shearer, Oxford Co., Ont.

IVERS FICATION is the rule at Spruce Lodge Farm. Nominally, this farm, like the majority of farms in O.for county, is a dairy farm. Really the income is derived from many sources, and the pigs are only secondary in importance to the

dairy herd. The proprietor, W. C. Shearer, has acquired a reputation as a hog feeder through his advocacy of the two feeds a day system for market hogs. To a Farm and Dairy representative last spring Mr. Shearer spoke quite fully of his methods, which have caused much comment at Institute meetings where he has so often spoken on this subject. He described his feeding methods as follows:

never able to do it on three feeds,' he wrote. "On another occasion I spoke on the same subject at the Farmers' Institute at Innerkip. Some time after the foreman of one of the big farms near there stopped me on the road. 'Your two

(5)

"Our staple grain feeds are oil cake, middlings and buckwheat meal.

We have to be very careful in feeding the latter. We feed middlings and buckwheat meal, half and half, and add a little oil cake. Mangels rank of almost equal importance with the grain, and it is here that my methods differ from the common way of feeding hogs for market. I put so much dependence on roots that they constitute the whole of the noon feed, grain being fed but twice a day. I find that I can grow young pigs with a lot of roots and a little meal, but of course I cannot fatten them on this ration.

The Method Spreading.

"I have advocated my method of leaving out the grain feed at noon at many an Institute meeting, and I know that the method has been adopted with satisfaction by at least a few of my hearers. I received a letter from an attendant at one meeting who told me that he had been feeding grain three times a day. After attending the Institute, he started to feed dry grain twice a day, and in 90 days the hogs gained 140 lbs. each. 'I was

The Pride of Ownership Attaches the Boy to the Farm. We consider these the best investment on our farm," writes the subscriber who sent us the photo. It was taken on the farm of W. B. Drydm, Quabec.

Mr. Shearer Believes in Having the Hog Pen Well Lighted. Note the

feeds a day are O. K.,' he remarked. 'I went home from the Institute, selected two lots of pigs of about equal merit, and fed one lot twice a day and the other three times. I sold the two-feed lot three weeks ahead of the three-feed lot, so much faster did they develop.'

"Hereafter I am going to run my pigs on clover in the summer. I have 40 rods of hog fence. This will be tacked on short stakes to confinethem. Through this system of pasturing the hoge I expect to raise them up to the finishing stage on one-half the usual grain allowance. Grain is too high to feed to hogs at present war prices."

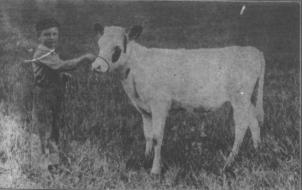
In the Hog House.

Mr. Shearer's hog house has some features which may be new to some of Our Folks. The walls are a combination of brick and stone, with storage space for hay and straw above. In it there are five pens, 8 x 16 feet, with a feeding alley along the north side. The floors are of cement and the feeding troughs are cement. So far it is just an ordinary hog house. The two unusual features are the dryness and the lighting of this particular house. The front 11 feet of each pen has a four inch slope to a gutter at the back, which is four inches deep and three feet wide. "When I built this hog pen," said Mr. Shearer, "I went around to neighboring farms to get pointers, and as a general rule I found that the hogs were wet. That four inch slope, but more important still, that wide gutter, keep my hog pen perfectly dry."

Over two-thirds of the south wall is in window glass; big windows, which flood every corner of the pens with sunlight and also add considerably to the warmth in winter. "I have seen it below zero outside and as warm as a kitchen inside," remarked the owner. "I think it is a great thing to have the hog house facing south and with big windows. We whitewash every fall, which tends to make the house still lighter."

In the farrowing pen there is a plank all around the outside about 12 inches wide and set up high enough from the floor to allow space for the young pigs to run under. Here the youngsters can take refuge and the sow cannot tramp or lay on them.

This short sketch is not intended to be a full dissertation on Mr. Shearer's methods with hogs. We have merely made mention of a couple of features that proved interesting to us .- F. E. E.













1916 3,108

We suppose you have missed our advertisements Well; we have not retired from business recently. but the fact is, we had more orders than we could execute, and we had to lie low for a bit. We are now, however, booking orders for the Fall Wheat trade, and we want you to make a start in using Sydney Basic Slag this season. We know you have been thinking of doing so, but now is the time to place your orders. Write us, and we will give you the name of our agent in your district, or if we do not happen to have a man representing us, perhaps you could take a carload of 20 tons and distribute same among your neighbors. You will be reasonably remunerated for your trouble, but, above all, you will earn their gratitude for introducing Sydney Basic Slag into your district. Drop us a line and our general Salesman will give you a call and discuss the matter. If necessary, also, he will help you to canvass your territory. Sydney Basic Slag was first sold in Ontario in 1913. That year we placed 230 tons. This season we have sold 3,108 tons. Think that over for yourself.

Interesting descriptive literature will be sent on application. The Cross Fertilizer Co., Ltd., Sydney, N.S. May 18, 1

Duty

Pai

Some Hints on Lightning Rod Installation

And Other Things Learned During a Visit to the Farming Special-"Halton Farmer," Halton Co., Ont.

"Halton Farmer," Halton Co., Ont. The state of the starming special scale of the s my own peculiar problem, but I

with my own peculiar problem, ball i belleve I may be doing many others a favor in passing on aome things I learned that apply generally. We first discussed the type of lighting rod that it would be most advisable to install. I a skeed about the from centre rod. For answer Mr. Martin showed me some specimens he had in his exhibit. On one side he had in his exhibit. On one side was a new iron centred rod in its copper sheath. Right near it was a secper sheath. Right near it was a sec-tion of an iron centred rod that had been used in rodding a building eight years ago. The iron had all rusted out, although the copper was as good as ever

"I certainly would not advise the on centred rod under any condiiron Mr. Martin informed me. "In tions. the pure iron rod does not rust as fast as the iron-copper rod. The conducting power of the iron is only one-half as great as that of the cop-per rod, but its melling power is higher. The only place where there is much danger of melting, however,

is at the point. Hence we set the well to tild ferinance was difference was the well to tild ferinance. Nell Molocity is a cooper conducting strand, the well to tild ferinance. Nell Molocity is an event from drained last the source of the strand sector of the source o

"A metal roof does not protect in "A metal roof does not protect in the was reasouring to notice the role-tive arise of alfalfa hay as a day method with points to draw the endarge and is properly grounded at all four corners. The metal roof differ i would bave the proper points at the roof. At each of four corners tides and weided into the metal dor yould corne to stopper on and man down deep encesh into the ground to the roof. At each of four corners the no corner are cupolas on the root.

notes the value of the draining: Mr. Beecher Matcheit, of Peter-boro county, harvested a crop of oats, 67% bushels to the acre, from a tile-drained field, while from lands a the dramed heid, while from lands of exactly similar quality but un-dramed, the crop threshed only 31½ bushels, a difference of 35% bushels business, a unreference of sea Dusness to the acre in favor of tile drains. At the price of oats hast fall i cal-culated that the increase in that one carbon caracty paid for the drains, pro-viding it costs about the same to drain a field in Peterboro county as in Halton county.

Mr. Sandy Matchett, also of Peter boro county, sowed mixed grain, and from his drained land harvested 1,433 lbs. to the acre and from undrained land 923 ibs. The value of the differhand 933 the. The value of the differ-once in yield was exclusioned at \$5.7. Barloy was the crop reported on by Albert Sneel, of Haldimand could From drained ind he harrested B bushels, from undrained 27% bushel, and the value of the difference was \$6.61.

rod close to the building. The claim stand that the store was tailed at he compared to the method was the store of the set of the se

(6)

May 18, 1916.

Duty C Paid

general and such vital interest.

past record.

way?

as the sturdiest Six made.

as to the quality of a Reo.

cap to tire holder.

Reo Six.

THEY WERE TALKING SIXES, pro and con, and "wondering whether" such and such Sixes were really good cars this year—in view of their past unastifiatory records.

ONE SAID, "of all the Sixes made, there's just one

"THAT'S THE REO SIX-the handsomest as well

exclaimed another-"there never can be any doubt

"REO CARS HAVE BEEN the 'Gold Standard' of

automobile values since there were automobiles."

HAD YOU THOUGHT OF THAT-just in that

IF NOT, JUST CONSIDER for a moment the tremendous significance of that fact-for it is a fact that all motorists look upon Reo as the "Gold Standard."

YOU MAY DOUBT, you may question, claims made

THAT BEING THE CASE, seems as if prudence dictates only one choice for your automobile—the one Six of which you can be absolutely sure—a

for other cars; but you accept as a fact firmly established, that a Reo is 24-karat fine from radiator

"IT'S THE GOLD STANDARD of Sixes." "WE ARE ALL AGREED ON THAT, I guess."

you can tie to with certainty that it will live up to

all expectations-because of its own and its makers'

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FARM AND DAIRY.

The New REO "SIX"

The "Gold Standard" of Sixes

1916 tion pecial

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CO WAS icularly McDou-1 29% ed land m un-

n un-the dif-\$19.44. rop for t for-which

notes

YOU CAN'T AFFORD-no matter what your in-**RECENTLY A GROUP OF GENTLEMEN** were discussing motor cars—as men so often do, since there's no other peaceful topic that is of such come-you can't afford to experiment in so important a matter.

> FOR IT ISN'T THE PRICE-goodness knows that is lower than anyone ever dreamed a first-class sixcylinder car could ever be bought for. It isn't the price that counts.

IT'S THE UPKEEP-cost of operation and maintenance; and the still more important fact that if the Six you buy fails to live up to the glowing praises of its makers your pleasure will be marred on every trip you take and as long as you own it. And the longer, the more unsatisfactory.

THAT'S WHAT COUNTS. If it proves to be a racing car—and therefore a "gasoline hog"; or so light it will soon show its flimsiness by squeeking and creaking and groaning over the least inequality of the road:

IF IT'S ONE OF THOSE "2 in 1" affairs that looks simple from the outside but proves as inaccessible as a burglar-proof safe when you try to make some adjustment or replacement or repairs;

IF IN FACT, IT FAILS to make good on any one of a hundred counts—then it fails short of the Reo standard—and you will be greviously disappointed.

SO THE ONLY WAY to be absolutely certain that the coming year's motoring will be as pleasurable as you can desire, is to take no chances—choose the "Gold Standard" for yours.

UNALLOYED PLEASURE of ownership is assured when you select this car that all the world considers the "Gold Standard" in value at its price and in enduring qualities with the lowest depreciation from year to year-a Reo Six.

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TREO MOTOR CAR COMPANY Lansing Mich.

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ats you less than a third the of a Leafther Brant Strap and you greater strength where meed R. to the heavy steel slide that its strain and wear of the ring-the strong, hard

steel slide that and wear of the rong, hard rope ter strength.

Bergen and a sector of the sec need. Out acquainted with dfrif th's SpecialQuainted with dfrif while to be a special of the state of the while to be a special of the state of the What's New for the Stable."

G. L. GRIFFITH & SON 76 Waterloo St. - Strutord

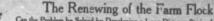


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and Return \$35.00 d Return \$82.75 and Return. 39.75 and CALGARY GINA and SKATOON MONTON 43.00 ay to October 30th. e fares from and to

pointa. tric-lighted Tourist Cars. our Bookiet, "Hornamoker's etiter's Guide," tickets and ation, apply to City Ticket 52 King St. E. Toronto, or Station, or write R. L. Fair-General Passenger Agent, 5 St. East, Toronto.

CANADIAN NORTHERN



Can the Problem be Solved by Developing a Long Distance Strain of Layers ? ultry Jack," Wellington Co., Ont.

"Poutry latek," Wellington Go, Ont. While N was first statisk," Wellington Go, Ont. While N was first statisk, and the sound lay well, for say anicely "doped out" that I would carry anicely "doped out" that I would carry anicely "doped out" that I would carry the entire laying flock should be changed each year. Like most ann-teur poultrymen whose previous ex-performed all bear with a amal-teur poultrymen whose previous ex-reat I found myself opposite one of the bask known poultry authorities the hand. I the day in a sign look be hand in the day in a sign look ed simple. One day in a sign look the hand. I authority plans to him with all the agerness, plus the colors and the recent for the seven years. The average spon-ties to many poultry authorities on him with all the agerness, plus the colessureness, of a good maintematic cian but somewhat austeurieb poul-trymen.

cian but somewhat amsteurish poul-tryman. "The first trouble you will be up against with a flock of that size will be renewing it every year," was the answer 1 received. "If you are go-ing to zetain the pullets for just one year you will have to have them all hatched out good and early as only carly pullets will lay enough eggs in their first winter to make the plan a profitable one. You will then be up against the problem of having a great many incubators running at once and a still greater problem of getting erge enough th a comparaonce and a still greater problem of getting ergs enough in a compara-tively short time to fill those incu-bators. I think you had better start a little easier."

A Big Drawback

Experience has demonstrated that Experience has demonstrated that the expert was right. One of the big-gest drawhacks to success in the poultry industry is the problem of renewing the flock. The plan so often advocated of changing the pullets every year now appears to me to to be almost impracticable on anything but a small scale and even then I question if it is the best plan. A question if it is the best plan. A flock of 300 layers would necessitate 500 new pullets each year. This would mean an average of 2,000 chicks batched each spring, one half of whick would be lost in brooding or willed out, and then at least one-half of those left-would be cockerels, which too often are raised at a loss. We scients may seem high, but gen-My estimate may seem high, but gen-eral experience, I believe will bear me out in stating that at least four

eral experience. I believe will bear me out in stating that at least four inners as many eggs must be hatched as the unmber of guides required. Is not the fact that most egg pro-different statistical statistical statistical and the statistical statistical statistical and the statistical statistical statistical and statistical statistical statistical that it costs more to produce them that it costs more to produce them to a broiler age than they will bring? The equipment required to breed chickens in such large numbers is an expensive item and the money in-vested in brooders is used for only a thort time scats season. The brood-polityman and in multiplyion the number of chicks he more than mul-tiplies his difficulties. The develop-ment of a strain of fow that would be profitable through a longer per-sed of time und that longer there and requirement to one-hall or multiplical strained fow the strain of the head in grades the cost of pharard of the produce the cost of pharard of the podury industry. Werk Far Our Colleges

haard of the poolity industry. So at the poolity industry. So at the foot of allogs tural colleges seem to have been to produce a strain that will igy the greatest number of eggs in the first year. The theory sounds well. It is that each ten is destined to lay just so many eggs in ther lifetime and the more we can induce her to lay in her first year, the more profitable she that of the cost of remeving the flow of year and I believe that our agricultural colleges would be doing the poultry industry, at least that sech not of poultrymen whose object is eggs, a more decided benefit

production runs all the way from one to seven years. The average pro-cut-yee life of the strain proved to be about four years. The average first year production for all flocks was 134 eggs. The average second year production was exactly the same as the first, while the average of the third was only one dozen leas, or 112 eers or 112 eggs.

The Value of Long Distance Layers The Value of Long Distance Layers Think what the development of such a strain as this would man the hatching of only one-third as many chicks each year, one-third as many chicks each year, one-third as many chicks each year, one-third as difficulty of getting enough good hatching eggs at the right season of the year eliminated in short with 500 laying hems it would mean hatch-ing leas than 700 chicks. The cost of rearing the poultry to laying age could be divided over three produc-tive years, instead of all charged to the one year. Of course the receiptor tive years, instead of all charged to the one year. Of course the receipts for old fowls would be lowered pro-portionately, but the loss would be more than compensated for in the re-duced expense of renewing the flock. The dairymen are doing their best nowadrys to produce long distance case. The cow that can make a good end the state of the state record. The cow that can keep up her long distance work for two on three states of the state of two on three states of the state of two on three states of the state of two on three states of two on thr record. The cow that can keep up her long distance work for two or three years is more valuable still. Poultry ...eders would do well to take a leaf from the book of wisdom af the dairyman and develop long distance laying propensities. I would like to know if any such work has been done in Canada, similar to that at the in Canada, similar to that at the Utah Experimental Station.

Facts About Hens and Eggs W HILE heavy taying is as a rule W desirable, phenomenal egg rec-ords are not a guarantee of strong, rugged offspring. There must be a limit.

The here that lays 150 eggs in a year is doing mighty good laying, and she is not so apt to break down early in tife as is the one which is trying to "break the record."

Pullets and yearling hens that have done such remarkable work in their first season, are not so apt to do heavy work in the second year.

Extreme cold and extreme eather affect hens alike.

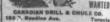
The regular layers give the best sized eggs, while the spasmodic layer generally produces an assortment of stres

The size of the egg becomes smaller as the hen increases the number of her product. So also does the colo⁸ gradually change from a dark brown to a light color towards the cit the litter. There is not very strong fertility in

There is not very strong fertility in the eges likely by a hen that will pro-duce from 30 to 50 wgs in succession. As a rule, heas that is y steadily during cold weather are indifferent hot weather layers. The majority of eggs are laid be-tween the hours of 9 ofclock in the morning and 3 ofclock in the after-morn

Remember that full fed chicks are paying chicks. It pays big dividends to hurry their growth.







MAY 15, 1915.

May 18, 1

1 BEFORE barn or

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May 15, 1916.



Brook you build or enquir your Benor or house, let us show you have an arch manay we can aver you. Here are the "Metallis" Enegred, sempord and timeproof specialities "Earlishe" Galvanized Shingles. "Earlist" Coringiand Wall Plates, (or lands area). "Metallis" Brick and Wall Plates, (or lands area). "Metallis" Brick and Rock Face and Clapboard Sidlays. "Acheson" Roof Lights. "Earlist" Silk Roofs, etc. We ausentes the het for your

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FARM AND DAIRY.

Hints on Lightning Rod Installation

(Continued from page 6.) that in tests at the O.A.C., a pen of fowl receiving buttermilk hald \$2 winter eggs out of a possible 100, and that another pen of similarly bred birds and similarly fed, except for the absence of buttermilk and other ani-mal food, produced only 17 eggs in two coops, side by side, there were two pure-bred Plymouth Rock room. ers. One of them had a ong head, a there is one of them had a one head, at long beak, long tail and lack of breast development. The other was a well-setup bird with a strong beak, large, bright eye, good breast development and every other indication of consti-tution. A study of these two types was a lesson worth carrying away.

was a lesson worth carrying away. Finally, there were two hens, both Plymouth Rocks and, to the unprac-ticed eye, looking very much alike. One of them, however, was a shred-to-lay bird and find produced 288 eggs in her pullet year. The other was of her fullet year, and her preduce by bird and had produced are easy in her pulket year. The other was of an especial breeding and her produc-tion was only \$2 eggs. Both birds re-ceived the same feed and housing. Having digested these and several

thanked those in charge for the courteous attention they had given me, and hied me off to the tractor demonstration at the college.

Electro Culture

Wm. S. Aldrich, Colorado Agricultural College, THE range of experimental work

The range of experimental works in electro-culture has extended and early forcing of choice marketable wegetables to orain and sugar beets, on ten to eighty acre plats, and in

connection with irrigation. As a running summary of results of experimental electro-culture it may be of interest to note the following: he of interest to note the following: Beets. 33 per cent increased yield, and 14 per cent, more sugar yielded: carrots, 50 per cent; curumbers, 17 per cent; strawberries — five year plants, 35 per cent, and one year plants, 50 per cent increased yield. In plants, 50 per cent increased yield. In for all crops, under faverable condi-Gons, should be about four per cent; and, for certain crops it may reach an Gons, should be about hour per cent; and, for certain crops it may reach an increased yield of as much as 100 per cent. A careful analysis of the costs incurred, show that the increased yields should be about 15 per cent, to

cells. A circle analysis of the costs incurred, show that the increased make electrical should be per cent, to make electrical stimulation is mark-edly apparent in the improvement in outlify, and is-shortening the period of growth, in which sometimes as unch as 30 per cent is general. But electrical stimulation of plant growth will not take the place of the most every other knows the best seed has been selected. What is tow con-sidered a luxury, -the centry market and end the additional care, and locous furths, and the choicest grains and seed crops of the same may well be worth the additional care. And every other additional care, and locous furths, and the choicest grains and seed crops of the same may well be worth the additional care, and cost of moduction. This the addies only to the local market hour to dis-tance, as freight. A mother result, and one which some will as, might have been ex-pected, is the remarkable freedoy, of the electro-culture stock, from has been which the cobustos and stray whote, etc., from the network of wirtes. This new thind of chore worth who the testended to even on large traits, when wheat has a yield of

may well be attended to even on large tracts, when wheat has a yield of from 30 to 40 per cent increase, and sold for 7.5 per cent better price by reason of its very superior quality.



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In Union There is Strength

Why Farmers Should Organize* R. H. Halbert, President U. F. O.

FARM AND DAIRY.

ARMERS should organize for their own education and also for the social uplift of the commun-The rural mail and telephone

ity. The rural mail and telephone are robbing the rural sections of much are robbing the rural sections of much of their sociability and an organiza-tion is needed to bring the farmers together. Organization means strength, and the farmer needs such an organization for his own protec-tion. All other professions and busi-nesses are around to the internet nesses are armed to the teeth, so that the farmer cannot even build a bridge without being responsible to someone for it.

Farmers should be organized be-cause otherwise they are without re-cognition. Until recently they were cognition. Until recently they were refused representation to the Cham-ber of Commerce, and the toast to "Agriculture" had to be responded to by some professional man who knew pothing about the farm or farming. Farmers are the only food producers and upon the quality and quantity of the food produced, the prosperity of the nation largely depends. With the shortage of help experi-

rended in production on the farm at the present time, the cry that goes out to the farmer that they should send more of their sons to the battlefield is nonsense. Patriotism begins at home. The cry to the farmer to pro-duce more food has met a patriotic response and in this manner farmers are doing their part in the great struggle.

We ere being told in some quarters that we should spend our money at home and not send it to the catalogue house or the commission firm for our supplies, but in this connection I want to point out that no one presumes to dictate to the manufacturer where to buy his goods. If an oil stove can be purchased at home for \$12 and at To-ronto for \$10, the farmer who sends \$10 to Toronto for a stove saves \$2. If he bought the stove at home, the re-tailer sends the \$10 away to the manufacturer and keeps the \$2 profit. The difference lies in this that in one case the farmer has the \$2 and in the other the retail merchant has it.

*From an address delivered before the Central Dumfries Farmers' Club, Galt, Ont., in April.

A Cooperation Enthusiast

MR. A. J. TAMBLYN, Durham Co., Ont., whose hydraulic water system was described in Farm and Dairy's Machinery Number a couple of years ago, is also an enthusiast on the subject of cooperative en-terprise among farmers . "There are last on the subject of cooperative en-terprise among farmers. "There are a dozen ways in which farmers can cooperate," he remarked on the oc-casion of our visit to see his water power. "Take fruit for instance. We power. "Take fruit for instance. We had 25 members in our fruit growers' association. A few of us got out to boost the association, and now we have 50. I believe that we can make have 60. 1 believe that we can make it 80. A number of us who like my-self believe in cooperation, are look-ing forward to the day when the far-mers in our district will be united to market their own hose, eggs and all other farm produce. We have four drovers in Orono and one man could do all the work. We could have our middleman and handle the marketing of our produce much more economi-cally than it is now being done. I believe that the United Farmers' Com-pany of Ontario will be a great ting."

One basic point in cooperative or ganization and success was touched by Mr. Tamblyn when he said: "I have come to the conclusion that before we can have cooperation we must have more men in our community who are willing to take their time and energy and devote it to the organiz-tion of their fellow farmers. There has to be a leader in everything, and cooperative enterprise is no exception to the rule."

May 18, 1916.

Care of Car Finish By R. A. Bradley.

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running gears.

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Fertility and Dairying

J. P. Fletcher, Fulton Cu., N.Y.

<text><text><text><text><text>

Farmers can individually do a great deal to improve the quality do a great placed on the market by taking care to prevent dirt getting into the wol while on the sheep, and by being more careful at shearing time in trimming the floeces.

May 18, One H





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CANADA LINSE

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May 18, 1916.

One Horse No need to lose dol-lors these days by is Enough is complete tillage. If you have one horse

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10-15-20 Years from now the Bis-self Silo will be giving good service. It is built good service. It is built ups, that prevent decay line, that prevent decay air-light door right walks of heavy tele. There-fore it haavs, simply be do anything tele. Our folder exclaims more folder, exclaims more folder. A. Dissell, C., Ltd., ELORA, ONT.

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CANADA LINSEED OIL MILLS TORONTO & MONTREAL

FARM AND DAIRY.

Veteran Among Holstein Breeders (Continued from page 4.)

(Continued from page 4.) There were over 100 mead of castle there, but Mr. Hallman secured first and second on his helfers. That gave him courage and he wired to Toronto if they would take his entries at the exhibition there. The return wires stated that they would it he, Mr. Hall-mea, would risk there being space. He went right to Toronto. The story for subsequent success in the show-the well known to the older Hol-stin swell known to the older Hol-stin farm catalogue which Mr. Hallman got out in 1800. The intro-ductory paragraph to the catalogue reads:

"We have exhibited only three sea-"We have exhibited only three sea-sons, from 1885 to 1887 inclusive and have met with perfect success. We took a larger share of honors and first prize, diplomas and medals, than any ofter hard with which ve competed, and we faced the best herds in the coulty. Some of our animals were defeated by anything but mem-bers (one of the summals of the sea-hibited all along we have every rea-son to there that our efforts would have been crowned with equal suc-cess."

The other provided with equal success: One of the first sires used in this herd was Prairie Aaggie Prince. Ho had a fourycaid dam with a butter record of 20 dam with a butter record of 20 dam with a stateman Cornelius, a prandation Netherland Prince. Taking his herd as a whole, Mr. Hallman thier had the best breeding of the day for show and butter records. His old cows were strand animats—Mr. Hallman bierves hilly as good as the best to day. On broke framats—Mr. Hallman bierves hilly as good as the best to day. On broke framats—Mr. Hallman bierves hilly as good as the best to day. On broke framats—Mr. Hallman bierves hilly as good as the best to day. On broke framats—Mr. Hallman bierves hilly as good as the best to day. On the first for the first the frame of the first the first the form of the first the first the form of the first the first the form of the first the first the first the the of the first the first the first the first the first the first the state of the first the first the the first the first the first the the first the first the first the the first the state time the state the first the the first the first the first the the first the first the first the state time the first the first the first the state time the first the first the first the state time the first the first the first the state time the first the first the first the first the state time the first the first the first the first the state time the first the first the first the first the state time the first the first the first the first the state time the first the first the first the first the first the state time the first the first the first the first the first

Holsteins Were Not Popular.

Holsteins Were Not Popular. Financially, however, all was not going well with Mr. Haliman. In spite of his show ring successes, his breed was not popular, and he could not get even reasonably good prices for his stock. Fifty dollars to 690 was a good price for a pure breed Holstein bull ridy for service and, compared with the selling price was not al-ways and the selling price was not averofiable. Mr. Haliman could not al-ways after Mr. Haliman could and al-ways after Mr. Haliman selling good ani-mains, he knew of a certainty that how price, she he have the selling to was how ride, the usually held his own, how price, as the faculty of sel setting and feeding.

ever, as he had the naming of sevenae. "Teople called me crazy and foolish to stay in the business," remarked Mr. Hailman to me once when speaking of this difficult portion of his career as a kreeder. "About that time, however, I took a trip to New York and as when great herds there. I as what Hol-sielen could do under right conditions which I didn't have a chance to give would do under right conditions would her have that the Bolateins about the Holateins there are a seven and the seven would constrained to seven would constrained to seven they would on the seven the seven and the seven they are a seven what was bace in the seven ducers of both milk and beet."

A Good Farm Purchased.

In the meantime, Mr. Hallman had transferred to another farm, after 15-years of almost wasted effort on the (Concluded on page 13.)



DONT est more dianer than you can hold simply because the cook has prepared more than you can est. If you do, you'll probably have "inside information" that things are not quite right. By the same token, don't buy something that you don't need merely because it's cheap. If Robinson Crussoe had paid one cent for a postage stamp he would have been a

But, when you find things that have an every-day need, selling at moderate prices, then is your time to economize by buying. Such products will save you money. We make such com-modities. This page describes seven of them. Sold by good dealers everywhere.

Everjet Elastic Paint

We have a product called Everyte Elasis plant that will save you many a dollar every year. It is a wonderful roof paint. Applied to ready roof-ings, it adds years to their life, makes the minimum structure of the appearance. Everyte is invaluable for fs m implores, scales, are brokets the from rust and keeps them mov. It never peeks, scales, are kets. The best earbon paint made. Good wherever you have exposed surfaces. Thy scan.

Everlastic Roofing

Everifies Roofing Insurance against wind, weather and years can be had very cheaply by laying Everlastic Roofing wherever years a slanting roof. The best Rubber Boofing" on the market at the price. It is car to lay, costs little and gives satisfaction for years. Comes involution of 1, 24 no 5 ply weight, each rollidings and polurly houses. Comes involute af 1, 24 no 3 ply weight, each roll 36 inches wide. You could pay twice as much and not get as good.

Carbonol, Disinfectant and Deodorant

The most conserve this group could have around the house is a both of Carbonol. Second the second have around the house is a both of Removes greates the best disinfectant, healer and cleanser ever made. Would set the second heave around the house the water with Would set the second heave the second second heave the Would set the second heave the second second heave the Would set the second heave the second second heave the Would set the second heave the second second heave Would set the second heave the second second heave the Would set the second heave the second second heave the Would set the second second second second heave the second second heave the second second second heave the second second second heave the second second heave the second second heave the second heave the second second second heave the second second heave the second heave the second second heave the second second heave the second heave

Creonoid, Lice Destroyer and Cow Spray One of the little things so often overloaked is the relation between con-tented live stock and profits. Best results annue he secured if your live stock is infested or worried by files. Spray your he secured if your live and hen houses lightly with Creoroid. It positively proves, pispean destroys vermin and lies. Kerps files away. Makes healing machine heavy of the secure the barries. More milk from your live sates toma carefully.

tions carently. Amatite Roofing. Amatite Roofing is dialnetive for two reasons—its bright attractive, spark-ling appearance and its great durability. It has wide fame, too, as the roof-ing that needs no paint. Its interest surface is waterproof and fire resisting. Amatite is sunde in rolls, each roll containing enough to cover 100 square feet with a 3 inch lan.

Barrett's Grade One Liquid Crossote Oil

Barrett's surface One Laquid Creasone Oil The best fance post make will not protected with a good preserva-tive. You can make an ordinarily good fence post last 20 years by mains larrett's Grade One Grossoto Oil. It is the best wood preservative on the accompliance more? We can also you test to prove this. Save the expense of timber movels. It's a big item. Wherever you have wood exposed to monstance or earth, preserve it with Barrett's Grade One Creason Oil.

Elastigum Waterproof Cement

Languin Waterproof Cement Many a farmer or house owner has averifted beity, by having Elastigum handy. This tough clastic, adhesive cement is a wonder for those quick repairs that are daily coming up. And it makes those repairs permeasive provide the set a leak to fix, a joint to seal, use Elastigum. Unescelled for joining or re-gum is a real "handy man" and you ought to have it on hand. Good for a landred uses. Sand for illustrated be

hlet describing Barrett Money Savers in detail. Address noarest off

THE PATERSCN MANUFACTURING COMPANY, LIMITED TORONTO WINNIPEG VANCOUVER

THE CARRITIE.PATERSON MANUFACTURING CO., LIMPTED ST. JOHN, N. B. HALIYAX, N. S. STONEY, N. S.



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FARM AND DAIRY.

Much has been said and volumes have been written describing at length the many kinds of baths civilized man the many kinds of baths divillated man has indulated in from time to time. Every possible resource of the human mind has been brought into play for fashion new methods of bathing, but strange as it may seem, the mast important, as well as the most beneficial portant, as well as the most beneficial for all baths, the "internal Bath," has been given little thought. The reason for this is probably due to the fact that few people seem to realize the tremendous part that internal bathing plays in the acquiring and maintaining of health

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If you were to ask a dozen peop to define an internal bath, you would have as many different dufnitions, and the probability is that not one of them would be correct. To avoid any misconception as to what constitutes an internal bath, let it be said that a bot water ensma its no more an in-ternal bath, than a bill of fare is a them would be correct.

If it were possible and agreeable to take the great mass of thinking people to witness an average post morple to witness an average post mor-tem, the sights they would see and the things they would learn would prove of such lasting benefit and im-press them so profoundly that further argument in favor of internal bathing would be unnecessary to convince them. Unfortunately, however, it is not possible to do this, profitable as such an experience would doubtlees prove to be. There is then, only one other way to get this information into their hands, and that is by acquaint-ing them with such knowledge as will enable them to appreciate the value of this long-sought-for health-producing necessity.

Few people realize what a very lit-Few people realize what a very liv-tle thing is necessary sometimes to improve their physical condition. Also, they have almost no conception of how little carelessness, indifference or neglect can be the fundamental For instance, that universal disorder from which almost all humanity is suffering, known as "constipation, "auto-intoxication," "auto-infection, and a multitude of other terms, is not only curable but preventable through the consistent practise of internal bathing.

How many people realize that normal functioning of the bowels and a clean intestinal tract make it impos-sible to become sick? "Man of to-"Man of day is only fifty per cent. efficient." Reduced to simple English this means that most men are trying to do a man's portion of work on half a man's This applies equally to wo-

That it is impossible to continue to do this indefinitely must be apparent to all. Nature never intended the delicate human organism to be operated on a hundred per cent. overhead A machine could not stand this and not break down, and the body cer-tainly cannot do more than a machine. There is entirely too much unneces-sary and avoidable sickness in the world

How many people can you name, including yourself, who are physical-ly vigorous, healthy and strong? The The number is appallingly small.

It is not a complex matter to keep in condition, but it takes a little time, and in these strenuous days people have time to do everything else necessary for the attainment of happiness but the most essential thing of all, that of giving their bodies their proper care

Would you boliove that five to tan minates of time devoted to systematic internal bathing can make you heat-thy and maketan your physical effi-ciency indefinitely? Granting that clency indefinitely? Granting that such a simple procedure as this will do what is claimed for it, is it not worth while to learn more about that which will accomplish this end? In-ternal Bathing will do this, and it will do it for people of all ages and in all conditions of health and disease.

People don't seem to realize, strange to say, how important it is to keep the body free from accumulated body-waste (poisons). Their doing so waste (poisons). Their doing so would prevent the absorption into the blood of the poisonous excretions of he body, and health would be the inthe be evitable result.

If you would keep your blood pure, your heart normal, your eyes clear, your complexion clean, your head keen, your blood pressure norm your nerves relaxed, and be able normal your herves related, and be note of enjoy the vigor of youth in your de-clining years, practise internal bath-ing and begin to-day.

ing and begin coday. Now this your attention has been called to the importance of internal bathing, it may be that a namber of questions will suggest themselves to your mind. You will prohably want to know WHAT an Internal Bath is, WHY poople should take them, and the WAY to take them. These and couldes an other manifers are all as the WAY to take them. These and countless other questions are all an-swored in a booklet entitled "THE WHAT, THE WHY and THE WAY OF INTERNAL BATHING," writen by Dootor Chas. A. Tyrrell, the in-ventor of the "J. B. L. Cascador," wentor of the "J. B. L. Cascade," whose lifelong study and research along this line make him the prealong this line make him the pre-eminent authority on this subject. Not only has internal bathing as yead and prolonged Dr. Tyrrel's own life, but the lives of multimdes of in-dividuals have been equally spared and prolonged. No other book has seen here writing country in the second ever been written containing such a vast amount of practical information vast smoult of practical information to the business man, the worker and the housewife. All that is necessary to secure this book is to write to Dr. Tyrrell at Room 385, 257 College street, Toronko, and mention having read this article in Farm and Dairy, and same will be immediately mailed you free of all cost or obligation.

Perhaps you realize now, more than ever, the truth of these statements, and if the reading of this article will and at the reasting of this article will result in a proper appreciation on your part of the value of internal bathing, it will have served in our-poses. What you will want to do now it to avail yourself of the opportunity for learning more about the subject. and your writing for this book will give you that information. Do not put off doing this, but send for the book now, while the matter is fresh in your mind.

"Procrastination is the thief nt "Fourier and the second you would be natural, be healthy. It is unnatural to be sick. Why be-un natural, when it is such a simp thing to be well?-(Advertisement.) simple

You'll Find the Advertisers in FARM AND DAIRY advertising reliable goods. They want to know you; also want to know you; also want to know you saw the Ad. In FARM AND DAIRY.

Improvement of Potatoes by Selection By Prof. C. A. Zavitz, O.A.C., Guelph

WHAT I term Individual Hill and in each of the years 1913, 1914 and Tuber Selection for potato Im. 1916: provement can be carried out Yield of Potatoes per acre (bus) in the large field, the market garden, Selections. the family patch or the nursery plot where potatoes are grown. In ordin-ary culturs, however, the potato sets usually vary in size, and consequently, the bills usually vary in size, and consequently, the hills vary in productivaness. In order to select most roadly those hills poissessing the power of reproducing desirable characteristics care should be taken to plant tubers or which are uniform in size. In comencing the work, therefore, it is not menoing the wors, therefore, it is not only important to use the best varie-ty obtainable for the purpose, but also to give the potatoes in the individual an even chance for develop-

When the crop is beginning to ripen there is frequently a noticeable variation in the appearance of the plauts. This permits of a selection of the hills having vigorous plants with the best foliage and the least amount of late blight and of other diseases. The hills can be marked by driving stakes or laths beside those selected. An-other examination of the crop can be made in a week or ten days and still another at a little later date, and if necessary some of the stakes changed according to the appearance of the plants. A few days after the tops dis the selected hills can be carefully dug with a potato fork and examined in-dividually. The product of each hill showing a good yield of uniform tubers of desirable appearance and free from scab, rot or other diseases can be placed in a separate bag and numbered. The selected potatoes should be kept in a selected potatoes should be kept in a cool, dry, dark cellar during the winter and early apring

At planting time a uniform number of the best potatoes from each bas can be selected and each tuber cut once lengthwise and once crosswise, thus making four sets comparatively even in weight. Two feet could be allowed between the sets and three feet between the tubers in every row Each tuber of four sets would require block tuber of four sets would require nine feet of the row. The length of the rows, therefore, would be 45 feet if five tubers, 54 feet if six tubers, and 63 feet if seven tubers were from every use. Three feet is a cood distance to allow between the sevarate rows. Comparative examinations can be made of the tops in the growcan be made of the tops at the grow-ing season and of the potatoes in the autumn, which have been produced from the individual sets, from the infrom the individual sets, from the in-dividual tubers, and from the individ-ual hills. This gives an exceptionally face opportunity for determining the comparative results of the different selections regarding vigor or growth, feedom from disease, and type, and-formality, production and quality of mescame regarding visor or growth formity round disease, and type, and formity round disease, and type, and potatose. Tubere a model of the potatose. Tubere a model of the other best hills, or from the basis reperior of our hills, or from the basis reperior of our hills, or from the basis reperior of the best hills, or from the basis the best and most interesting which can be followed in obtaining an improved train or potatose, either for home attain or potatose, either for home attain or potatose, sitcher for home attain or potatose, sitcher for home at our collers. For instance, individ-tat our collers. For instance, individ-uat hill selections were made from the Davies' Warrior potatose in 1910 and spain in 1911. Eleven of the baset of the wast three years, and the follow-of the sast three years, and the follow-ing table gives the arreap results of work of four of these strains as tested in

1913. 2 teets. 2 teets. 2 teets. 2 tests. 2 vears. 8 years. 6 years. Selection No. 5 210.0 321.0 199.2 243.4 2 197.6 285.7 166.3 216.2 1 191.3 263.6 127.5 190.8 8 145.0 177.1 86.0 1362 40

May 18, 1916.

These strains were all started from carculy selected hills of promising characteristics and yet the result show most decided differences in pro-ductiveness. The Davies' Warrier ductiveness. The Davies' Warner potatoes in the tests where no hill se potatose in the tests where do him so-lection was used gave an average ed 136.6 bushels per acre per annum for the same period. This work has been valuable in furnishing a strain of the same period. This work has been valuable in furnishing a strain of Davies Warrior potatees which has given an average annual yield of over one bundred bundles per acre over the ordinary variety. It has also en-phasized the value of the application phasized the value of the application of a good system of selection in the improvement of the potato crop.

Calves on Skim Milk

WO lots of calves were fed at the North Dakota Experimental Sta-tion. One lot was fed the whole North Dakofa Experimental Si-tion. One jot was fed the whele milk way, the other the skim milk way. At the end kim months, the puzzle was, "Which are the skim milk and the state the skim milk aleek and thrity. Mr. Peters, Animal Huahandman of the Experiment Si-tion, explained that the experiment Si-tion, explained that the experiment was undertaken to determine how well dairy calves could be grown on akim dairy calves could be grown on skim

The first three weeks both lots were The first three weeks both loks way fed whole milk. From then on, Lot No. 1 was fed eight pounds whole milk and eight pounds skim milk dally, while Lot No. 2 was given 16 pounds of eikim milk and one pound of boiled fax seed, which replaced the fat taken out in the cream. During the first three monthe Lot No. flax assod, which replaced the fat later out in the cream. During the first three months Lot No. 1 made some what larger gains and looked a little more thrifty, buidduring the next three months. Lot No. 3 caught up. At is months several experienced dairy of the breeders pronounced the calves in the Vereders pronounced the calves in the Vereders. Let No. 2 equal to those in Lot 1 in in dividual merit and dairy development. When the calves were five weeks old they were also fed clover hay and a grain ration made up of equal parts whole oats and bran. To this was added one-tenth by weight of linsed meal. It cost \$15 lens per head to feed the skim milk calves than those fed half whole milk, to the age of six

The reorganization of school boards, the doubling of the expenditure, or the would not usher in an educational millenium, but they are the things that are manifestly in the direct line of progress and without which we are of progress and get very far from our present condition. There was a time when Ontario made the proud beas of being in the very front of educa-tional progress. That time seems to have passed, so far at least as rural education is concerned. We shall have to arouse ourselves from our state of complacency and self-satisfaction, cease scoffing at the new move-ments that are putting others in the front rank, learn from what is going front raink, team from what is going on around us, and join the march, or we shall soon be hopelessly in the rear.—Richard Less, M.A., Inspector of Schools, Peterboro Co., Ont.

Washing the hands before milking would be almost a joke on some farms; but all the best dairymen do it.

1

first play been sat that on i ideal of cordingly the farm acres ha huildings as they w silo. silo on h built in farm is th loo count side that Hallman

COTD RTON The old led, until and thore the top pu built and mings hav the Halln with the stein catt house has nouse has ing done y first came ning to ad of one of t tario. All cleared exgenting las hind him a

"My grea he explain have not ye want to ge able confor time I can hard in the cord cows. notice, is a working wi Ing.

Connection This sket without a r connection v Breeders' A city or anot on the offici-Holstein ent ganized the were just a ing and Mr. one of a dep Parliament to issue a he however, get a Dominion of get at Toron Again he way vise the Am der to get or 1892. Two r this committ special herd and the othe the Agricultu first proposal ground of ex

Mr. Hallmi of the Associ Smith and he mittee with rangements t and A zot the idea thorn inf and he offere for the same r and Arts So Hallman took and called a tion at Guelpi for their own eting the h and the Hols on the indepe since followed Mr. Hallma

a breeder and Holstein that

May]

first place purchased.

loo county, and I might remark on the side that on the Institute platform Mr.

house has been improved. The plant-ing done years ago when Mr. Hallman first came on the farm is now begin-ning to add its touches to the making of one of the finest farm homes in On-

working with pick and shovel or dy

Connection With Holstein Association.

Again he was on the committee ap pointed to draft a set of rules and re

vise the American constitution, in or-der to get out their own herd book in

1892. Two reports were submitted by this committee, one on getting out a special herd book for the association.

and the other on amalgamation with the Agricultural and Arts Society. The

first proposal was voted down on the

Mr. Hallman was elected president of the Association that year, and E. B.

or the association that year, and is, is Smith and he were appointed a com-mittee with full power to make ar-raagements to go in with the Agricul-tural and Arts Society. Mr. Smith got he idea that there was too much Shorthorn influence in that association and he offeed to do the second

Subtraction insteame in that association and he offered to do the same work for the same money as the Agricultural and Arts Society would do it. Mr. Hallman took things in his own hands

ground of expense.

on

18, 1916

1914 and cre (bus.)

tests. 007 00 99.2 243.4 166.3 316.8 127.5 190.8 86.6 136.2 rted from promising e resulta es in pro-Warrior Warrior No hill se verage et nnum for has been strain of hich has d of over Warrior d of over cre over

also em-plication n in the prop. ke ed at the

ie whole silk way, e puzzle equally Animal ent Sta-eriment ow well on skim ts were on, Lot ole milk

ing.

daily. pounds boiled t taken ne first some some-a little t three At six ry cat-lves in l in in-pment-ks old and a parts as ad-Inseed o feed se fed

oards, or the hools, tional hings t line e are time boast duca-15 10 rural shall our sfac-

the 1, 01 the otor

A Veteran Among Holstein Breeders (Continued from page 11.)

FARM AND DAIRY.

He had never rowed money to buy his first Holsteins first place purchased. He had never rowed money to buy his first Holsteins been satisfied with his farm, realizing in his young manhood. He is still had on it he could never attain to his much in demand as a judge of Hol-deel of what a farm should be. Ac- steins at the larger fairs. In his kerd ordingly he purchased 160 acress of he has some the base bood of the the farm he now occupies. Seven breed and his work as a breeder his area have been added since. The still far from complete. What a sat-mildings were all on the farm, such lisfaction it must be to this veteran as they were, with the exception of the breeder to the set block sevent day silo. Mr. Haliman had had a wooden popularity of a breed which he chan-silo no his first farm, one of the first pioned so threed which he chan-ter outry. On his present, the Black and Whites was considered he consult, and I might remark on the

Good Roads Wisdom

Hallman has made many a convert for corn growing and the silo. Halman has made many a convert for corn growing and the allo. The old stables have been remedel d, until now they are light, sanitary ad thoroughly up to date. Recently Ernest Flags Ayres, highway engin-the top part of the barn has been re-seer of the Oregon Agricultural Col-ball and red paint with while trim-lege in a lecture to the summer stu-mings have made like outbuildings on dents at that institution.

mings have made the oktouridings on the Hallman farm quite in keeping with the quality of the splendid Hol-stein cattle that they house. The house has been improved. The plant-"A Wisconsin farmer held 1,000 bushels of polatoes in his cellar, wait-ing for a good price. He was offered 92 cents in March, but chey must be cellvered in town, and the roads were so had be could arther the roads were so bad he could not haul over them. When he finally got them to market, his potatoes brought him 30 cents a bushel. The bad roads cost him \$620, and now he is an ardent booster for any movement promising relief. "While the farmer receives as great

of one of the infest farm homes in On-tario. All of the 160 acres has been cleared except 30 acres of swamp and goging land. On this farm Mr. Hall-man has left his financial worries behind him and people are beginning to ask him why he does not retire. financial gain from good roads as any one, he has the added social benefits ask him why ne does not return "My greatest pleasure is right here," he explained to me. "I feel that I have not yet finished my work. I have had success in the show ring. I now Under present conditions it is often impossible for his children to go to school regularly, his family to go to clurch except when the roads are dried out, his doctor to reach him in time to have not yet missined my work. I have had success in the show ring. I now want to combine records with desir-able conformation, and I feel that with but, ins dector to reach nim in time to be of most help, or his mail to be de-livered regularly. With better road: this can all be changed, and graded schools and larger churches always follow these improvements." time I can do it. I had to work too hard in the early days to care for re-cord cows. Going to town to retire, I notice, is a choice for many between

The Mother's Lament

This sketch would not be complete By F. G. H. Pattison, Winona, Ont. without a reference to Mr. Hallman's connection with the Canadian Holstein DID not raise my boy to be a colonel But had I known how simply it Breeders' Association. In one capa-city or another Mr. Hallman has been were done,

No need to face the murd rous foe infernal,

No need to slay the sanguine Hun.

No need to flay the hide from off the Kaiser, Nor pull his teeth out slowly one by

one; If I had only been a little wiser, And "Savvied" how to train my only

son.

city or another Mr. Hallman has been on the official board of the Association since its first inception when a few Holtein entbusiast met in the sheds at the old Toronto exhibition and or-junised the present Association. There were just a half a dozen at that meet-ing and Mr. Hallman was appointed one of a deputation to meet at the old to issue a here book. They could not, however, get a charter, as they wanted a Dominion charter, and all they could get at Toronto was a Provincial one. Again he was on the committee apa could have raised my boy to be a Colonel.

And kept him far from either shot or shell, He would have had a nich in fame

eternal,

And drawn a double salary as well.

Entirely freed from all my fears maternal.

And only proud of duty nobly done, would have raised my boy to be a Colonel,

Of course I mean an "honorary" one.

Hog Feeding Notes

Log recently routs The fattening hog should never be overfed, just enough so that every-thing is eaten before the pig leaves the trough the first time. Young pigs are best kept decidedly bungry. An exception to this case would be where appettes are satisfied on roughage or when

and called a meeting of the Associa-tion at Guelph to make arrangements tion at Guelph to make arrangements for their own herd book. At that A necessary concomitant to good meeting the herd book was established hog feeding is exercise. Young ples and the Holdstein Association started and breeding stock aread it particular-on the independent road that it has the followed. We have a start to be a start to be a start up to the final finishing period, when Mr Hallman is still as enthusiantic they may be encouraged to leave out a foreder and has the same faith in the exercise and make the parting on of Bolatein that he had when he bor fat the business of their lives.



is composed of very small ball, or globules, which roll between the parts oiled—that is the action of lubrication. As soon as these balls become broken, as they quickly do, they are useless—worse than useless for they keep away fresh oil. That is why the old-time splash system of olling fails—it uses and re-uses "worn-out" oil. Following the lead of big automobile makers, we use in the "Superior" Separator

"Direct-to-Bearings" Oiling System

Fresh oil is dropping on the im-portant bearings all the time, and yet less oil is actually used in a year than with the 'Splash'' or ''Bath in oil'' system.

Write to-day for book of "SUPERIOR" Separator facts, showing why our muchine is not only the easiest to turn, but skims the closest of all.

(13)

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When You Write---Mention Farm and Dairy

(14)

AND RURAL HOME PUBLISHED EVERY THURSDAY

p 47

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OUR GUARANTEE The second seco

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

The Nor'West Farmer

W E wish to extend our sympathy to the Nor' West Farmer is the sympathy to the

tained in the destruction by fire of the building and plant of the Stovel Company, Publishers, of Winnipeg, in which it was edited and printed. The Nor' West Farmer, of which Mr. C. D. Stovell is managing director, is one of the outstanding agricultural papers of the west. Its wide circulation and the firm position it holds in the estimation of western farmers insures its speedy recovery from the calamity with which it has been overtaken.

Condensery Scheme Exposed

HAT the farmer should exercise the greatest. caution in investing his money in schemes

which the glib tongues of promoters can make so alluring, has received additional emphasis by the attempt to float a company, the object of which was, according to the prospectus, to establish a milk condensery at Brampton, Ont. To the average man, who, of course, does not pretend to have an expert knowledge of stocks and bonds, the affair looked plausible. To dairy farmers a condensery, which would supply an additional market for their milk, naturally appealed strongly. To the paper issued by the company, the sounding title, "Seven Per Cent. First Mortgage Gold Bonds," was given. A premium of sixty dollars of common stock was given with each \$100 bond. To make the bond appear more substantial still, arrangements had been made with a trust company, which spreed that upon the deposit of twenty-three dollars when the bond was purchased they would guarantee its payment at par at the end of thirty years. Bonds could also be paid for in milk, delivered at the condensery when built. The impression was given that the Department of Agriculture approved of the formation of the company.

To the uninitiated, the scheme was attractive.

Submitted to the scrutiny of an expert, however, it was found that it lacked practically everything that characterizes a sound business proposition. Saturday Night, in exposing the scheme, pointed out that the first prospectus of the company violated the Ontario Companies Act, in not giving the proper statutory information. Not having tangible assets, the company was not entitled to issue bonds. The trust company was playing safe in guaranteeing the so-called bonds, 1 . the twenty-three dollars at the end of thirty years at ordinary rates of interest, would amount to \$100. The milk bonds were not subject to the guarantee. To the statement that the Department of Agriculture in any way favored the formation of the company, the Minister, in a letter to the press, has given an unqualified denial.

The publicity given to the scheme and the prompt action of the local district representative, seems to have thwarted the plans of the promoters and to have resulted in the farmers who invested having received their money back. It is stated, however, that these same promoters have been successful in disposing of \$50,000 worth of stock in another condensery. They will likely stay in the business as long as it can be made to But that will not be long if dairy farmers Day. profit by what has come to light in connection with the Brampton company. In the meantime why is there not a law in the other provinces, as there is in Manitoba, that requires a company to satisfy the Attorney-General's Department as to its reliability before it can offer its stock to the public?

Canada's Railway Problem

HE necessity of a loan of \$13,000,000 to the C.N.R. and another of \$8,000,000 to the G.T.P., in order to preserve the solvency of these two rallway companies for another year, has had the effect of again turning the attention of the people of Canada to the question of the nationalization of railways. The tabling of the correspondence in the House of Commons, showing that the G.T.P. has been formally offered to the Dominion Government, has stimulated interest in the question. The country is faced with the alternative of letting the railways go into the hands of receivers, or meeting the annual deficits of the companies until population has overtaken railway construction, or of taking over the rouds and operating them at a loss for an equal period of time. To the first of these alternatives it is objected that should the railways pass through a receivership the nation's credit would be seriously damaged at a time when circumstances require that it be kept in as good a condition as possible. To the second it is acknowledged that the people are becoming disgusted with the spectacle of seeing the millionaire promoters of the roads walking off annually with all they can carry of the people's money. The question of nationalization; therefore, promises in the near future to be a question of public policy on which the people will have to decide.

Although it is an easy matter to overestimate the damage that would result if the railways involved were to go into the receiver's hands, and although the burden of meeting annual deficits would not be lessened if the people took over the roads, there are other reasons why the roads should be nationalized. Rallways are public service utilities, paid for and maintained by the earnings of the people, against which they are the greatest single charge. They should be operated, not with the object of making profits, but of furnishing efficient and economical service. Wisely distributed, they would pay their way and not be burdensome. If they are operated at a loss it is because their lines have been extended beyond the needs of the people. Annual deficita, made up by annual draughts on the public treasury, although a very strong argument against

May 18, 1916

leaving the building of railways in the hands of titled Empire wreckers, is no argument against nationalization. Taking over the roads will not atone for our errors in the past, but it should enable us to evade a repetition of such errors. Canada has accumulated railway experience rapidly during the last ten years, and by now should be able to publicly administer her railways with at least approximate efficiency. The success we have achieved in the administration of our postal service furnishes reason to believe that our railways may in time, be made equally efficient.

The Things That Are Caesar's

N theory, the income tax is superficially plausible; in practice it is unworkable. That it is unworkable is fully borne out by the findings of Basil N. Manly, of the United States Commission of Industrial Relations. In his able analysis of the income tax situation, Mr. Manly shows that last year in that country, the income tax was dodged to the extent of \$320,000,000, which exceeds by \$111,000,000 the total amount raised by the tariff during the same time. In the case of one Standard Oil magnate, he shows that the income tax due was \$341,000, whereas the amount actually paid was only \$58,035.

The discrepancy between the amount college. able and the amount collected may be put down by some as due to the bad administration of the law. It may be held that in Canada the tax collector is not so easily evaded. Such a position, however, is untenable. Canadians are as efficient tax-dodgers as their Yankee cousins. The discrepancy is primarily due to the impossibility of collecting the income tax with any pretense of uniform justice. The income of the man who draws a straight salary is easily assessed, but how is the income of the doctor, lawyer, civil engineer, and others, whose incomes are in the form of fees, or of the business man, whose income is in the form of interest or profits, to be even approximated. To say it is a reflection on the part of our fellow citizeus to suggest that they would defraud the country of its dues may be polite, but it does not show a clear insight into the human character as recent public disclosures have rovealed. One of the most prominent men of his day in Canadian public and financial life endeavored, by the disposition of his property, to defraud the government of over half a million dollars of succession duties. If men will faisify their wills, they will also falsify their income statements. The experience of the United States has shown that the income tax is a failure, its chief characteristic being that it puts a premium upon dishonesty and a check upon industry. The less we hear of such means of raising revenues in Canada the better.

Farmers who have sons or daughters will do well to subscribe for plenty of farm papers. What are a few cents a week compared with the value received if they read about agricultural matters? Before us lies Farm and Dairy for March 23, in which several boys outline the methods which brought them success in the Acre Profit Competition. Such practical articles as these cannot help but stimulate other boys to try their hand at some of the experiments .-- The Canadian Statesman, Bowmanville.

. It is absolutely useless to expect a solution of the rural problem from any source outside of the farmers themselves. We need never expect our merchants and manufacturers and lumber magnates and bank presidents and politicians to bury their selfish interests and advocate measures that will help the farming community, even on the broadest national grounds, if their own interests are to be affected in the slightest degree .- E. C. Drury.

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The Farm Flower Garden Wm, Hunt, Florist, O.A.C., Guelph,

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Climbing Vines.

Climbing Vines. No plants isonrows the appearance and make even the most plants and unpertentions building iook pretty and more home-like than i look pretty and the easiest to grow such atling vines. Ampelopais Quiloquefolia (YP) is the Ampelopais Quiloquefolia (YP) is the Ampelopais Quiloquefolia (YP) is the Ampelopais Quiloquefolia (YP) is chande. Ampelopais Netty in Canada. Ampelopais Vieth if Gloston (YP) will offing weil to a stone or brick will, but is not quilts as hardy as the two first narod.

Hardy Perenniale.

A few of the best hardy perennials. A few of the best hardy perennials that may be planted any time during the month of May, are Radheckia (Goldan Glow), Miss Malitah (Sun-flower), Persennial Larkapurs and Asters or Michelmas Dalsies. These grow to a height of from four to six foct and are suitable for planting as a becksrowed. a background.

Hardy Shrube

The Idiacs, of which there are now such a number of beautiful varieties of numerous colors and shades, ranging from white and lilac to the deep ing from while and Hiae to the deep-est purple, are still one of the best flowering shrubs grown. Plant a group of Jour or five kinds of tidiace at the eide of the lawn. Their pro-fuse and aveily perfumed flowers will iged a charm to their surround-

will fend a charm to their surround-ings wherever grown. Another useful class of Bowering shrubs that will grow three or four feet in height are the Spireas. Two of the best are Spires Yan Houties (Brided Wreath) and Spirea Lemon-bell, not quite as along growing as 6. Yas Houtie! Spirea surgits that grows only two or three feet in height is also a spiendid variety. Flowering shirth grive endices

beight is also a spiendid variety. Flowering shrubs give endless plasars to the owner with very little ours and skirtion. The vince and abrubs already mentioned should be planted at once, the month of April really being the best time to plant such as the Thurys coddnessitis. (which Colar) or the dwarf growing Thurys Hoverit, or a plant of the handy Howeyi, or a plant of the hardy Juniper venuesta will also help to iend a variety of color to the lawn. Ever-greens can be planted until the end of May successfully.

Annual Climbing Flowers,

Annual Climbing Flowers. The best and most effective climber grown from seed is the Cobea scan-dens (Gap and Baucor Vine). Seeds with as little care and trouble to an bed or in the window. Do not plant them outside unit well on in Jrues that the wenther is quito warm. Give them as could light rich soil, and you will be amply rewarded with a luxur, total gap the and sumbers of their odd. Slowy but surely the farmer is shown by the angle the second light rich second the side to total gap the and sumbers of their odd. Too the of a time at the side of the world's agricultural resources as the second second second the farmer is shown by the surely the second second second the second too the support of the soil too that you of the second too the of a time at the side of the rest is farmer is the stand runner and sumbers of the soil too that you on the proper development matterial properties of a time at the side of the rest is farmer is form the stand the side of the rest is farmer is form the second the proper the stand with the second second the sport of the form the save or house covered with theses and some climbing Nasturitame makes must be educated.

hle or care given them. Sweet Peas should be sown at once if not already sown. They like a deep, rich soil and an open, fairly sounny position. Sow the seed about four inches spart in a drill nearly two inches deep.

inches deep. Put chicken wire or maple brush up

trut chroken wire or maple neues up for augports about five feet in height. Pick the flowers every second day so as not to allow seed to form. If seed forma the plants will soon stop flowering. Sweet Pans are one of our best garden flowers.

Other Varieties.

Other Varieties. There and the series of the

Apart to get the pear result. It is surprising the pleasing affect a few plants and flowers have around a home. These mentioned have been selected with a view to effectiveness with as little care and trouble pos-sible required to obtain a bright and



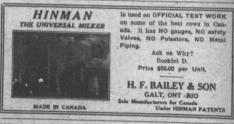
Then if you go a step farther and turn the cranks of the two machines side by side for fifteen minutes, running milk or water through the bowl, you will see still more difference.

And if you will run the two machines side by side in practical use, as any De Laval agent will be glad to have you do, the De Laval one day and the other machine the next, for a couple of weeks, you will see still greater difference in the work of the two machines.

will lee still greater unterence in the work of the two machines. Every De Laval agent considers it a privilege to show the difference between the De Laval and other separators and to afford every pros-pective buyer the opportunity to try out and prove the difference to his own satisfanction, if on first examination he f.c.s the slightest doubt about it. If you don't know the nearest De Laval agent write to the means office a builty. earest office as below.

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(DUR opportunities to do good are our talents -J. G. Holland.

God's Country and the Woman

(Continued from last week.)

A A lower among the cushions he had placed for her, and buried her face in one of them with a moan-ing grief that cut to his soul. She was sobbing now, like a child. In this moment Philip forgot all rethis straint. He leaned forward and put a hand on her shining head, and bent his face close down to hers. His free hand touched one of her hands, and he held it tightly.

he head it tightly. "Listen, my Josephine," he whis-pered. "I am not going to turn whatk, I am going on with you. That is our pack. At the end I know what to ex-pect. You have told me; and I, too, belleve. But whatever happens, in spite of all that may happen, I will still have received more than all else in the world could circu me from the in the world could give me. For I will have known you, and you will be my salvation. I am going on." For an instant he feit the fluttering

pressure of her fingers on his. It was an answer a thousand times more precious to him than words, and he knew that he had won. Still lower he bent his head, until for an instant his lips touched the soft, living warmth of her bair. And then he leanback, freelag her hand, and into his face had leaped soul and life and fighting strength; and under his breath he gave new thanks to God, and to the sun, and the blue sky above, while from behind them_c.me skim ming over the water the slim birch bark canoe of Jean Jacques Croisset.

CHAPTER SIX

At the touch of Weyman's lips to At the touch of Weyman's lips to her hair Josephine lay very still, and Philip wondered if she had felt that swift, stolen caress. Almost he hoped that she had. The silken tress where for an instant his lips had rested seemed to him now like some precious communion cup in whose sacredness he had pledged himself. Yet had he believed that she was conscious of his act he would have begged her forgiveness. He waited, breathing soft jy, putting greater sweep hat his paddle to keep Jean well behind them. Slowly the tremulous unrest of Josephine's shoulders ceased. She raised her head and looked at him,

her lovely face damp with tears, her eyes shimmering like velvety pools through their mist. She did not speak. she was woman now-all woman. Her strength, the bearing which had made him think of her as a queen, the fighting tension which she had been under, were gone. Until she looked at him through her tears her presence had been like that of some wonderful and unreal creature who held the con trol to his every act in the cup of her hands. He thought no longer of himself now. He knew that to him had relibquished the mysterious fight under which she had been struggling. In her eyes he read her surrender.

ND then, suddenly, she slipped From this hour the fight was his. She from this nor the agat was his, one told him, without speaking. And the glory of it all thrilled him with a sacred happiness so that he wanted to drop his paddle, draw her close into his arms, and tell her that there was no power in the world that could harm her now. But instead of this he laughed low and joyously full into her eyes, and her lips smiled gently back at him. And so they understood without words.

Behind them, Jean had been coming up swiftly, and now they heard him break for an instant into the chorus of one of the wild hall-breed songs, and Philip listened to the words of the chant which is as old in the Northland as the ancient brass cannon and crumbling fortress rocks at York Factory:

"O, ze beeg black bear, he go to court,

He go to court a mate; He court to ze Sout',

He court to ze Nort',

He court to ze shores of ze Indian Lake."

And then, in the moment's silence that followed, Phillp threw back his head, and in a voice almost as wild and untrained as Jean Croisset's, he shouted back:

"Oh! the fur fleets sing on Temiskaming,

As the ashen paddles bend, And the crews carouse at Rupert's

House, At the sullen winter's end.

But my days are done where the lean wolves run, And I ripple no more the path

Where the gray geese race 'cross the red moon's face

From m the white wind's Arctic wrath."

The suspense was broken. The two men's voices, rising in their crude strength, sending forth into the still wilderness both triumph and defiance, brought the quick flush of living back into Josephine's face. She guessed why Jean had started his chant-to give her courage. She knew why Philip had responded. And now Jean swept up beside them, a smile on his thin, dark face. "The Good Virgin preserve

M'sieur, but our voices are like those of two beasts," he cried.

"Great, true, fighting beasts," whis-pered Josephine under her breath. "How I would hate almost----"

She had suddenly flushed to the roots of her hair. "What?" asked Philip.

"To hear men sing like women," she finished.

'As swiftly as he had come up Jean and his canoe had sped on ahead of them.

"You should have heard us sing that up in our snow hut, when for five months the sun never sent a streak above the horizon," said Philip. "At the end—in the fourth month—it was McTavish died then: a young half Scot, of the Royal Mounted. After that Radisson and I were alone, and



sometimes we used to see how loud we could shout it, and always, when She interrupted him:

"Where the gray geese race 'cross the

red moon's face From the white wind's Arctic wrath."

"Your memory is splendid!" he oried admiringly, "Yes, always when we came to the end of those lines, the white foxes would answer us from out on the barrens, and we would wait for the sneaking yelping of them before we went on. They haunted us before we went on. They haunted and never once could we catch a glimpse of them during the long night. The helped to drive McTavish mad. They died begging us to keep them away from him. One day I was wakened by Radisson crying like a baby, and when I sat up in my ice bunk he caught me by the shoulders and told looked like the glow of a first house and the sand sand house and a sand sand house and so of a miles away. was the sun, and it came just in time.

"And this other man'you speak of, Radisson?" she asked. "He died two hundred miles bacs,"

replied Philip quietly. "But that is unpleasant to speak of. Look ahead. Isn't that ridge of the forest gloriosz in the sunlight?"

She did not take her eyes from his face.

"Do you know, I think there is something wonderful about you," she said, so gently and frankly that the blood rushed to his cheeks. "Some day I want to learn those words that helped to keep you aive up there. I want to know all of the story, be-cause I think I can understand. There was more to it-something after the foxes yelped back at you?" "This," he said, and ahead of them

Jean Croisset rested on his paddle to listen to Philip's voice:

"My seams gape wide, and I'm tossed anida

To rot on a lonely shore, While the leaves and mould like a shroud enfold, For the last of my trails are o'er;-But I float in dreams on Northland

streams That never again I'll see

As I lie on the marge of the old Port-8,60

With grief for company."

"A cance!" breathed the girl, look-ing back over the sunlit lake. "Yes, a cance, cast aside, forgotten,

as sometimes men and women are for-

"Men and women who live in dreams," she added. "And with such dreams there must always be grief!

There was a moment of the old pain in her face, a little catch in her breath, and then she turned and looked at the forest ridge to which he had called her attention.

called her attention. "We go deep into that forest," she said. "We enter a creek just beyond where Jean is waiting for us, and Adare House is a hundred miles to the south and esat." She faced him with a quick smile, "My name is Adare," she explained, "Josephine she explained, Adare,"

"Is-or was?" he asked. "Is," she said; then, seeing the cor-recting challenge in his eyes she added quickly: "But only to you. To added quickly: "But only to you. To all others I am Madame Paul Dar-cambal." "Paul?"

"Pardon me, I mean Philip." They were close to shore, and fear-ing that Jean might become suspiciby addie and was soon in the half-breed's wake. Where he had thought there was only the thick forest he

an fo WI th 0 toj thi da lov the etr and nev 15 glo slip tim the fac was "It in diar nat the ly h love Did gloo "Y whe vear forg I had start vole when his hig 'that A of th not throu than ent h ed fo into "TI She in his and t mHe the stream death Now ly flu floatin saplin under the m pantin close ward Joseph and he of her there none (the br of the timber tures 1 and on shine, ness o than a canoes Iv as th out fro the sur

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May 18, 1916

haw a narrow opening toward which Jean was speeding his cance. Five minutes later they passed under a thick mass of overhanging spruces boughs into a narrow stream se still and black in the deep stadows of the forest that & looked like oil. There was something a little avesome in the undernness and completeness with which they were availowed up. Over their beads the spruce and cedar tops met and shatt out the aunight. On both sides of them the forest was like and black. The trail of the att ital was like a tannel, silent, eart, mysterious. dark, mysterious

dars, nyserroum. "There are few who know of this break into the forest," said Jean in a low voice. "Listen, difficurt!" "from out of the groom shead of them there came a faint, olly splash-

thein there came a faint, oir yeparah-"C"
"Otter," whispered jean. "The extrem is like this for many miles, and it is full of life that you can show this in the of the darkness." Something in the of the darkness." Something like shadows, and some-times they bent their heads to scange the lowhanging boughs. Josephine's face shone whitely in the dusk. She was alert and listening. "I love this *i*-tream," she whispered. "I is full of the one har, because they have a superstillow dread of this ster-hard gloom and quile. They call it

have a superstitious dread of this eter-nal sloom and quiet. They call if the Spirit Stream. Even Jean is 7. little oppressed by it. See how closs-ly he keeps to us. I love it, because 1 love everything that is wild. Listen! Did you hear that?" "Monewa," spoke Jean out of the sloom cleam it. hear

"Yes, a moose," she said. "Here is where I saw my first moose, so many

where I saw my first mode, so many years ago that it is time for me to forget," she laughed softly. "I think I had just passed my fourth birthday." "You were four on the day we started, ma Josephine," came Jean's voice as his cance shot slowly ahead where the stream narrowed; and then his voice came back more faintly: "that was sixteen years ago to-day." A shot breaking the dead stillness

A shot breaking the dead stillness of the sunless world about him could not have sent the blood rushing through Pullip's vehics more swiftly than Jean's last words. For a mon-ent he stopped hir paddiling and iean-ed forward so that he could look close its concertime's face. ed toward so the face. "This is your birthday?" "Yes. You ate my birthday cake."

"Yes. You all my birthday cake." She beard the strange, happy catch in his breath as he straightened back and resumed his work. Mile after mile they wound their way through mile they would their way through the mysterious, subterranean.like stream, seeking seldom, and laten-ine infaulty for the breaks in the death-like, stillness that spoke of like. Now and then they caught the ghood-by futter of owly in the ghood. Its flatter of owly in the ghood, the flatting spirits; back in the forest suppless snapped and brish crashed underfloot as caribou or moose caught the man-scent; they heard once the undericot as carbon or mose caucht the man-scout; they heard once the waltage, and the search of the search of close at hand, and Phillip reached for-ward for bis rifle. For an instant Josephine's hand fluttered to his own, and held it back, and the dark rlow of her eyes said: "Don't kill." Here there were no blowed kill." Here or ner eyes said: "Non't kill." Here there were no bja-syst monos-birds, none of the mellow throat sounds of the brush rearrow, no harsh janglings of the axually colored jays. In the timber feil the soft footpads of crea-tures with claw and fang, morenulers and outlaws of davianes. Licht, sum-shine, order some harowd have more. then an hour they had driven the poen-than an hour they had driven their cances steadily on, when, as sudden-ly as they had entered it, they slipped out from the cavernous gloom Inte the sunlight again.

(To be Continued.)

FARM AND DAIRY.

The Upward Look Travel Thoughts No. 32

The Planning of Our Lives.

HERE are diversities of opera-tious, but it is the same God which worketh all in all.--1 Cor. XIL 6.

mystified. On our reliam above, we learned hat some passengers ind unexpected-by been transferred to another steam-er though these une holow knew nothing of what all those sudden changes meant, the offecer, high up in the pBot house knew, and he it was that gave all those orders. Then: duty was simply to obey them. Our great Lopatin above knows all the fature. He never, never fails to give domine, explicit orders. One part is to carry these out with ready, part is to carry these out with ready.

joyful obedience .- I. H. N.

It is always regrettable if a woman gives up an accomplishment acquired in girlhood when she assumes the re-





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ATTRACTIVE DINING CAR SER . VICE.

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Probabily notimize helps more to make a railway journey really acjus-able than a visit to the "Dining Car," especially if it be a Canadian Pacific Dining Car, where the passenger is assured of the highest forms of effici-ency in the cuilnary art, the choicest provisions the market affords, pre-pared on the scientific principle known as "Dietetic Biondiag." " may be enjoyed at a say on like it, amidst ideal aurroundings, while a tre yelling on the Canadian Pacific. Probably nothing helps more to

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Amusement Dept. Conducted by Marion Dallas.

S COMETIME ago a hostess who is always looking for something quite out of the usual, decided to way. She had resolved to be more observant. She was going to take time to observe more intently the common objects, which greet our eye every day. To impress her re-solve upon her friends she issued this invitation

ARE YOU OBSERVANT? Then come and prove it Friday Evening at eight o'clock. At "The Hermit"

At "The Hermit" Naturally everyone's curiosity was at concert, pitch. When the guests had all arrived, the company was di-ing bee. The hoatess constituted her-self the tracker and began asking questions of each one. Will No. 1 please tell me does the Reeve of this swered No. 1. "Does how the second player. No. 2 promptly answered "No". So it was found that as often as they

had seen the Reeve no one was posi-tive as to whether he wore glasses or not. It was the same with several other prominent men. This questions the Minister of Finance? "Describe the Union Jack", "Which church has the Union Jack", "Which church has the Union the provide the theory of the several several second several severa highest steeple in the steeple in the other questions. The hostess then passed picture postoards with photographs of pub postoards with photographs of public there is a state of the steeple steeple

Ince nostess then passed picture posteards with photographs of pub-lic buildings. For one building there were ten different guesses. The lass oral question the teacher asked was soral question the teacher asked was said. "What bit closed her eyes and said. "What bit closed there were tions aroused joily controversy at good natured differences of opinit." What a Watch Would Suggest. Before passing the questions around to the guests, the hostess sent a watch around and requested everyone to ob-serve it closely. When everyone had examined the watch, cards and pencils followed. On the cards were these questions.

questions.

1. Support of a flower? Stem; 2. The books of an author? Works; 3. Found on a five dollar bill? Number, Found on a five dollar bill? Namber 4. Suzgested by a doctor? Regulator. 6. Always found in a circus? Ring: 6. Used before? Second hand. T. Parie of a bicycle? Wheel; 8. What a police-man should do? Watel; 9. Insects; Ticks; 10. Kept by a sccretary? Min-utes; 11. Wedding antiversary? Cry-stal; 12. Decided in court? Case; 13. What every one has? Time; 14. What we give the hostess in parting?, Hands.

Further Observations

Hand. Further Observations A little more preparation. A dozen or more total seven partially filled with dif-ferent fluids, each having a distinc-tion of the seven seven and the seven sorts, are all guitable. There should be abolite of plain water. A number was pasted upon each bottle, and he guests were, provide with cards containing corresponding or more dye into each bottle. The dye with each is seven placed on a table meach distance and his card the weak of the sevent work of the owner the content send was table to smell the content send was table to seven was allowed to speak during the ex-metation.

the contents and write on his card the researd of his invastigation. No one was allowed to speak during the ex-amination. The answers provoked much amuse-ment, especially the guesses in regard to the bottle of water. The mass of the start thing given to "Denerve". The last thing given to "Denerve". We will be a subjurct of all the following "This of questions and the general provide and old age united 1894, 10 years of the general place in the spelling match's 1. Best place in the spelling match's 2. A Gobweb Payre, and have all the same length, and of this suggestion will be the season. This suggestion will be the season. The as the source length, and the player on a stick At a given signal all the players pick up a stick and begin to unished the cords which have been twinned from tree to tree back and forward and in every axis the corner. There must be an every and have all the same length, and the secure follows the matchinest results water and on the player for the secure for the secure the secure follows the matchinest for an event and begin to reached the without and place a prize. Sometimes favors and for the and secure the end of all the secure.

gets a prize. Sometimes favors or fortunes are found at the end of all the strin

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May 18, 1916.

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have proved their worth. Housewives everywhere have found that the New

100,000 CUSTOMERS

Perfection brings comfort, economy, safety and good cooking to the kitchen. It regulates easily, instantly and surely. It concentrates the heat on the cooking and will not heat up the kitchen.

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A S I have only been on the farm six years and my experience is perhaps rather limited, but even in that time I have gained quite a re-putation as a butter-maker. I will follow my summer method of making butter (my winter-method is similar, only that cream requires to be kept

only that cream requires to be kept in a warmer nlace and support butter-milk to start it to sour, but the cream down cellar to cool. Then it is put in-to a stone iar and every time 1 and cream and stir well. I have the cows and 1 generally chura two or three times a week, so that the cream is never old. I scald everything I use in the making of the butter, with boil-

FARM AND DAIRY.

Reputation Gained in Short Time ing water and then cool off with cold never hear any complaint of bad but-ter. Stewart Alexand Dist. I short for callons cream at a Ing water and the two the tweeter. T churn four gallons cream at a churning to which 1 add searcely half a teaspoonful of butter color. The gas is taken of three times in the first five minutes of churning. When near-ip butter, the add a dipper of cold water, which helps to gather it. I wash my butter twice. I put a handful of sait is taken of the three times a sut pounds of butter and train wells bounds of butter and train a wells bounds of butter and the abat in and to each pound. I work the sait in and leave for a time, then work again

Sells Butter on Market

Joint Dutter on MARKET Miss Jannis Baston, Gree, Co., Ont. I Nuclear the state of the utensils used for hoding cream and butter are thoroughly scalded and then rined with cold water before being used. During the hot weather we keep the cream in our c-llar, which is quite (coil. In the winter, time we keep it in the Lantry which is moder-ately warm. We have two cans, a small one in which we keep the fresh separated cream until it is quite cool. then we empty it into an eight gallon can, in which we keep the cream until it is ripe enough to churn. We always thoroughly stir the cream with a wooden spoon, gfter each additional

Bishopric Products Ensure a. Better House-More Quickly Built --- for less Money SURFACE READY FOR DECURATION

to each pound. I work the salt in and leave for a time, then work again and print. It yo to make uw vrints as neat as I can and fold the wrappers evenly, so that it looks attractive. Then the butter is put in a cool place till wanted. I have a good . private trade and get the best price going and

The modern way of building, using Bishopric Stucco Board and Lath Board instead of sheathing lumber, metal lath, and lath-andplaster, saves weeks of time, hundreds of dollars, and makes warmer, dryer, more comfortable and more durable houses.



is the best foundation made for stucco and plaster. Like Bishopric Lath Board (see illustration of section), it is made by heating Asphalt-Mastic till it is a thick liquid, spreading it over sheets of heavy sulphite fibre board, and imbedding in it, under enormous pres sure, kiln-dried-laths spaced as they would be on studding. While

in the Lath Board the edges of the laths are square, as, illustrated, in the Stucco Board they are bevelled inward, forming dovetailed spaces between each pair of lath which make perfect keys for the stucco or plaster.

Bishopric Stucco Board is nailed direct to the studding, lath side out, on both exterior and interior walls and ceilings, and the plaster or stucco is then applied to it as shown in the illustration below. The Asphalt-Mastic forms a wind, damp and vermin-proof double skin, enclosing a dead-air space the thickness of the studding-the warmest kind of a wall you can build.



nailed to the studding with the sulphite fibre-board outward, makes a complete inside finish in itself, taking the place of sheathing lumber, building paper, furring strips, lath and plaster. It costs far less, and can be applied in a fraction of the time, saving 75% of the labor cost. It is particularly useful in remodelling houses and finishing attics, as it saves all the muss and delay of lath and plaster.

Both Stucco and Lath Boards are made in sheets 4 ft. wide and from 4 ft. to 10 ft. long, as desired.

Write us for full particulars and samples of Bishopric Stucco Board and Lath Board, and our illustrated Bishopric Booklet.

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enough we get the churn into oper-tation. We use a barrel churn. We thor-oughly scale it and rinks with cold water, then have about a yard of the best cheese cloth, which after scale-ing of the churn and strain the crean weight in the the churn. We churn enoughly scale cloth, which all the pool the churn and strain the crean weight in the the churn. We churn enough we are and we give it a few more turns when these granules ions of do avater and we give it a few more turns when these granules ions the add more cold water and me give the add the butter till we get all the mide of the butter till we get all the mide the butter till we get all the mide the butter till we get all the mide the de and add salt enough the butter the de and add salt enough the butter till we get at the mide the de and add salt enough the butter till we get at the state of the de and add salt enough the butter till we get at the state of the de and the stater into the butter the de and the stater into the butter the de add salt enough the state of the stater into the stater to a compact conditions at the stater to a compact of the stater into the butter the de add salt enough the butter the de add salt enough the states of the stater into the stater the states of the stater into the stater into the butter the de add salt enough the states of the stater into the stater into the states of the stater into the stater into the states of the stater into the stater into the states of the stater into the stater into the stater the stater of the stater into the stater into the stater the stater of the stater into the stater into the stater the stater of the stater into the stater of the stater the stater of the stater of the stater into the stater the stater of the stater of the stater of the stater of the stater the stater of the stater of the stater of the stater of the stater the stater of mixed. Then we put the butter away into a cool or warm place, according to atmospheric conditions at the time. We leave it there for four or five hours then mix it again so as to be sure and get all the water out of it. This time we put it into pound prints, we have our name, phone number and process printed on the butter wrap-

where our mane, phone number and who can printed on the butter wars. The second second

Good Service From the Paint Brush

Brush NE of the articles which usually plays a fairly prominent parc around the house in the spring. Is the patts thrush. In these days of russ, the floors need to be kupt in good condition. Of course we are not all condition. Of course we are not all fortunate concept to have hardwood floors in our homes. We can never the less is a floor floor in the set with a little care. When using a large rug in the centre of the floor, it is only necessary to grain the floor a for feet around the edge. This, it nicely does loods well is never

feel around the edge. This, if nicely done, tooks well in any room. The kitchen and pantry are spice-did places in which to make good of of the pants brush. If the lineold use of the pants brush. If the lineold use fall, it will keep the colors bring and fall, it will keep the colors bring and insure its wearing longer. Ther there are those pantry shelves. Rather Then there are those pantry sheltes. Rathor hard to keep them looking neat and clean, isn't it?. Some prople cover the sholtes everal times a year with shelf paper which does very micely Another method is to paint the sholtes in the spring with a good write paint. An extra these finish for paintry shelves if one wishes to go to have

melves if one wishes to go to the sr-pense, is semich. This makes a hard finish which is easily wiped off. Just one other painting suggestion. A painting task that requires some wild is to do window suches without atting paint on the windows, and we all know how hard it is to remove dry paint from glass. Here is an idea picked up recently. Cat a piece of cardboard the size of the pane, cover the glass with it while pain-ing at thus avoid the versation of ac-companying spots and spatters. npanying spots and spatters

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neath. We dug tion three feet thick a tapering to face, the d ing 10 fee was one to make it on we dug the allow for a this drain the upper lower for th passes up t 1) one foot concrete. vent freezin

We crecte boards, four feet long, r circles. For rings made inches by 9 We placed si tervals of tw and wood fi The apart. ed in the ce uble door placed equal We next



A- LATH B-ASPHALT MASTIC

Section of Bishopric Lath Board AA-Laths. B-Asphalt-Mastic.

Applying plaster over Bishopric Stucco Board on Interior Walls



May 18, 1916

Meeting of the Live Stock Records Board A Walk reacessful and the Live Dutch Accords Dodid A Walk reacessful annual mast in the first fort four inches in diameter, on of the different bree associae of the cribing. On the critic tons constituting the Canadian Na itor time placed a three-quarter-inch itoral fare fitters the constant Na itor time placed a three-quarter-inch itoral fare fitters the constant on the placed a three-quarter-inch itoral fare fitters the constant of the term (A 1, fig. 9). This bar inches receiver associations were requested, a hoop of two and one-half linch by ed. The statement of receipts on these in diameter, and cross ods of states 227 and expenditures atmost

43.45.27 and expendences almost the same amount. President Wim. Smith reported a great information in the same and the president with a same and the same and the four mousts ending when the same and the four mousts ending when the same and the four mousts ending when the same function of the same and the same and the four mousts ending when the same and the same and the same and the same transformer is the same and the same and the different same and the the same and the same an was pointed our that the inscore Com-mittee is practically an executive committee of the record board and that the board has no power to dele-gate its own work of selecting its own committees to the breed associa-

tions. Hierotofore it has been the custom to appoint representatives of the dairy costile, beef cattle, light horses, heavy horses, sheep and swine to act on the record committee. On motion it was decided to petition the govern-ter summining to change the to appoint representatives of the dary cettle, beer at the period committee Ω and Ω and

"A Subscriber"

THE following description and ac-companying illustrations will, I think, give a good idea of how we constructed our round cement water tank with milkhouse under-

ware tank with milkhouse under-neath. We dug the trench for the founda-tion three feet deep. The well is two feet thick at the bottom of the trench, tapering to one foot thick at the sur-face, the diameter at the surface be-ime 10 feet 4 inches. The concrete was not to sits, with stone added to was not to sits, with stone added to was not to sits, with stone added to allow for a drain under the wall. In this drain we placed two field tiles, the upper for the supply pipe, the lower for the drain. The supply pipe passes up through a chamber (y, fig. 1) one foot source with six inch walls we fur the train of the supply pipe.

The operation of the second set of the second se

4635632:17:0 5 0 ib Drain U Fig 1

10 -10

bing on inside, and filled in with con-crete, one go four, one inch thick at ton, four inches at bottom. We then made a circular wood roof of inch, boards, four inches at outer end, one inch at immer, leaving a man-bole at centre (h, fic, 1), one and one-half feet above level of tank wall. We added the reinforcing of iron hoops and rods 14.8, fix, 2), built the wood-wood room tA, 8, fix, 2), built the wood-wood room the which thing. When we cook down the which thing. When we cook down the which thing we trowel-coat-end the inside of the tank, coment one-and two. The capacity is 4,030 rallons.



reduc d 20 revo-ns. Los i of butter

Which pile did you lose?

These figures from the Purdue Experiment Station Bulletin No. 116, show the loss in butter resulting from not turning a fixed-feed separator at exactly the speed stamped on the crank.

And investigations showed that 19 out of every 20 separator operators throout the country turned their machines too slow much of the time.

HE SUCTION-FEED

is the only separator made which will not lose cream at varying speeds. The wonderful "Suction-feed" always feeds the milk to the bowl in exact proportion to the separating force being generated. At 45 revolutions it skims clean; at 55 it skims clean and at 35 revolutions it skims equally clean. No other separator can do it.

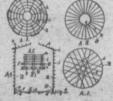
No matter how you turn the New Sharples you always get even thickness cream. Just set the cream screw at the desired thickness and it will come out velvety and even-no matter how you vary the speed. No other

separator can do it.

The Sharples Tubular bowl is the simplest and lightest in existence. It has only one plain part in itno discs to wash and bother with.

> All these and many other features explain why the New Sharples is the profitable separator for you to use. It is described indetailin catalog "Velvet" for Dairymen. Send for your copy today. Write Dept. 77.

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FARM AND DAIRY.

Destroy Roadside Weeds By Burnbrae, Ontario Co., Ont.

W ITH the scarcity of farm help, hateness of the season and bad weather conditions, there no doubt will arise in the minds of many farmers the problem of keeping up with the work this coming season. It is given unto man to accomplish only a certain amount of work. "We do all we can and let the rest go, "We will 14 a statement we hear on every side. In some ways this is a wise conclu-sion under the present circumstances. But we feel there are some things that we cannot afford to let go. One of these is the crop of weeds that an-nually infest our roadsides.

One of the biggest sinners in the neglect of roadside weeds is the town-ship council. Many of our weeds that are hardest to eradicate are kept alive by being allowed to go to seed, or pro-pagate in other ways on the roadside. A little money expended at the right time by township councils would do Ume by township councils would do much to remedy this evil. It would also help matters if pathmasters would keep Gack part of the statute labor to be expended later in cutting weeds on the highway. The big ob-jection of most councils and path-masters to this work, is that the conmasters to this work, is that the con-dition of the ordinary roadside will not lend liself readily to the cutting process. If the roadsides were level, free from stones, stumps and other unsightly and unnecessary things, the problem of dealing with the weed nuisance would be greatly simplified. A nice appearing roadside also adds many dollars to the selling value of the place, to say nothing of the saying of time and energy expended upon fighting weeds which come in from these neglected places.

The leveling and clearing of road-The leveling and clearing of road-sides could be quite successfully car-ried on during the early spring days of such seasons as these, when noth-ing can be done on the land and yet some work is needed to harden hor-ses and men for strenuous labor of spring seeding. If the importance olearing the roadside is realized, the time will be found to do it. It may be necessary to bring pressure to bear on the township council. Is not this a subject worthy of careful consideration?

Horse Notes*

John Gardhouse, York Co., Ont. AKE good care of the colt's feet. Don't allow frim to run on hot manure or the feet will grow out

of shape. Overloading with fat does not lead

to the best development of joints and limbs. Give the colts lots of fresh air and exercis

I would rather feed a little under than a little over the colt's require-ments. I don't believe it possible to give a fixed rule, such as so many pounds of feed per one hundred pounds of live weight, as every colt

pounds of live weight, as every our is a law unto himseld. This whiter it will be necessary to give extra attention to feeding hay as much of it is of poor quality. Shake it up well and moiston. The average feeder I believe, gives too much haw much hay.

Raw Hinseed oil is good to keep the

Raw Hinseed oil is good to keep the bowels in shape. Rolled cast, bran, a few roots, a medium quantity of well cured hay, suixed hay or alialfa, will give good results if fed wish moderation. Rolled cast, 40 per cent, inan, 30 per cent; mohases, 30 per cent, and water 10 per cent, all mixed to-gents. is a splendid mixture for order, is a splendid mixture for colta

*Extract from an address at the Ontario wowincial Winter Fair at Guelph, De-ember, 1915.

May 18, 1916. **ABSORBINE**

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e supply cans, both small and large, and de all that any other reliable firm can do-and then

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FARM AND DAIRY.

A Shortage of Live Stock Transformer of the States of the trade in horses has been dull dur. The these trades of the States of t

imputs of time at its present high israd, still it will be a long time be-fore wood will be as alway as it has been during the last 30 years. The price being paid for lamp, the start to make sheep rataing very profiltable. As regards the fog simulation the supply has not been marry equal to the domaid. 387,000 hogs bering been imported from the Starts during the past four smotths. Yown were the price of hogs considerably lower than it is there would still be an excellent profit from hog raising.

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Even if it cost more, Page Fence would still be a good investment, because of its proven superiority. But by selling direct from factory to farm, we enable you to secure it at prices the lowest that anyone can quote you even for ordinary fence.

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For years, regarded as the standard, this is the fence that has won the farmer's confidence by a steady adherence to high quality and full-gauge-we have steadfastly refused to cheapen it by cutting down weight to meet competition. The result is an unbroken chain of satisfied customers -any one of whom will ad-

vise you to get this proven fence, rather than take chances with any lesser make.

Our heavy fence quoted below, is all No. 9 full gauge, locks also No. 9 gauge.

No. of bars.		Stays in. apart.	Spacing of Price in
6	40		Horizontals. West. Ont.
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All rence manufacturers are quoting higher prices than has year-but higher prices still are bound to come. If contemplating a purchase of fence within the next few years, now is the time to buy.





match Page fence in dependability Our "Railroad" gate is a good example of Page su-periority in this line. Note how it is braced. And note the Prices-prices which would be guite 3 ft...... \$2.50

impossible for a gate so		100
carefully, strongly built	12 ft	4.
but for our large output and our "direct-to-you" way of	13 ft	5.
selling.	14 ft	5.

Page Poultry Fence

is made in a variety of styles, of which the most popular is our Special, a modi-um weight, small mesh fence that will turn small chickens and large stock as

20 bar-60 inch-61c per rod. 18 bar-48 inch-55c per rod. (Uprights 8 inches apart).

PAGE LAWN FENCE FOR PROPERTY PROTECTION

We have it .		eat designs, at Not Painted.	ETTTTTTTT
12 in. 18 in.	6c 7c	iner i annieu.	
30 in.	90	Bc	
36 in. 42 in	10½c 12c	9c 10c	Internetersterster
48 in.	13c	110	

FREIGHT PAID on orders of \$10 or more. Write to us direct, and we'll send you complete fence price list, and our big catalogue containing money-saving prices on all farm requirements.

The Page Wire Fence Company

1138 King Street West, Toronto.

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FARM AND DAIRY.

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May 18, 1916.



When the highest priced farm manager in Canada first read this that he took a trip all the way to Cornell to have a talk with the author: Why was he as in-author: Why was he as in-to run a farm successfully first howiness proposition, and that the is the greatest farm book ever published, because it transit of

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FARMING AS A BUSINESS What is your object in farming Is it to work out fine-spun theories or to make your farm a business succeas? If it is to make it a business wucceas you will need some farm books, but be sure that WARREN'S FARM MANAGE. MENT is the FIRST book you secure.

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CIRCULATION DEPARTMENT Farm and Dairy Peterboro, Ont.



* OBD/NTO. May 16.— A failing of a field Commissione Relating regarding the second of the control of the second of the second

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Interesting



Advertistng Department, FARM & DAIRY, Peterboro, Ontario

When You Write --- Mention Farm and Dairy

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May 18, 1916.

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FARMERS' CLUB Correspondence Invited.

OUEBEC.

QUEBEC. SHEREROKE COUNTY, QUE. LENNOXVILLE, May 3.-The augure nearm, luid over, has brought a bound-price realized was high. The seeding search is operating most favorshy. The quiet so large as last probably not be quiet so large as last probably not be quiet so large tarking in the batter meth-ods and more tharough cultivation. The I. Mol.

ONTARIO

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BRITISH COLUMBIA.

ARTITISH COLUMENTA THE WESTMINSTERN DISTRICT. A.C. MILLING, April 32, Article 1998, Article 1998,



A Binder is a **Big** Investment

8.7.04

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The man who buys one without investigating the Frost & Wood is throwing away the 25 years of fruitful experience we have had in making Binders, and seeing them used for all kinds of crops in every part of the

FORCE FEED ELEVATORS.

The old bugbear, choked grain, is entirely done away with. Frost & Wood elevation is positive-

the grain must pass, no matter how tangled it is. A special Relief Roller, always revolving, passes the straw from elevator to packers and "keeps ilings

RELIABLE BINDING ATTACHMENT.

The Voice of Experience Talks Loud in Frost and Wood Binders

Building Binders has always been our special study. We watch our machines at work more critically than any individual owner, and we are satisfied that for sure cutting, sure clevating, sure tying, light draft and fast work the Frost & Wood Binder cannot be equalled.

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LIGHT-DRAFT-EASY WORK.

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The Frost & Wood Binder is built of high-carbon steel, displacing heavy cumbersome castings and wood. It can stand a drop into a hollow, it can stand wood. It can exact a strop into a nonlow, it can stant work in the roughest land, it will handle any crop you ever saw with ease. It has a big margin of strength, yet it is the lightest in draft on the mar-ket, due to our extensive use of finest roller bearings, expensive for us to give but mighty good for you to but might any advantage of the ket but her but have. No pulling or straining to work the handily-placed levers, either, we place strong springs to do the work for you.

SPECIAL CUTTER BAR.

Knives are on same level as platform canvas, so no short grain is lost. Platform and cutter bar readily tilted so as to just skim the ground and get every straw. Knife blades easily changed when necessary.

RELIABLE BINDING ATTACHMENT. Can be adjusted to give you large or ramil bundles exactly as you wish. The whole machine is built to suit any harvesting condition. The Knotter is a wonder of aimplicity and aureness. Hundreds of joitorp from estinated users always comment on the spiendid F. & W. Smotter. Many F. & W. Binders have been in use 15 and 30 years and are in excel-lent shape today. Put time and thought into buying your Binder. Write us to-day for our special Frost & Wood Binder Bool



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FARM AND DAIRY.

FARM AND DAIRY.



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ALBERT MITTLEFEHLDT, Port Davison Stn., T.H.B., Wellandport, Ont.

AYRSHIRES

PEACH BLOW AVRSHIRES

Loung Stock for sale, always on hand (both sexce), from high-teach beavy producers. Good udders and large teats a special feature of my head Three fine young Sirce ready for service. Get particulars of them if yo need a sirc. R. T. BROWNLEE, Peach Blow Farm, HEMMINGFORD, Gu



Parm and Dairy is the leading exponent of dairying in Canada The great majority of the members of the Canadian Holztein-Frieslan Association are readers of the Paper. Members of the Association are invited to send items of inter-set invited to send items of inter-tet to Holstein breeders for pub-lication in this column.

A BULL FOR SERVICE.

A BULL FOR BERVICE: I is not offen Heleton breaders ha the opportunity of using a size if the opportunity of using a size of Pitche and Lamylon, adverded the bull is a full brother of May Ec as a size of the size of the size of the bull is a full brother of May Ec as an ecceptional individual, with Hes also, constitutions and using the size of the size of the size of the Border of the size of the size of the brother of the size of the size of the conductor of the size products then.

THE PELLATT SALE OF HOLSTEINS

E dispersion of the Holstein at Lake Marke Parm, the pro-of Sir Heary M. Pellatt, man ed down as one of the succo of the season. At first bidding and the success of the sake w Fair prices were realized Fair prices were realized ownover, and inter in the aff become more brisk and pere realized. The sale to wer \$5,000 for the 74 heat a crace \$5,000 for disc to tensor there were shown young early only a few majority built any non-strong only a few wold, the survey were so and strong strong 5 not fargen. The 56 maintencould strong of \$139, the heatiers there and of \$139, the heatiers there and a \$159, the heatiers there and a \$150, the heatiers there and a \$150, the heatiers there are a \$150, the a \$150, the heatiers the heatiers the heatiers a \$150, the heatiers the heatiers there are a strong the heatiers the heatiers the heatiers the heatiers and the heatiers the heatiers the heatiers the heatiers a \$150, the heatiers the heatiers the heatiers the heatiers a \$150, the heatiers the heatiers the heatiers the heatiers a \$150, the heatiers the heatiers the heatiers the heatiers a \$150, the heatiers the heatiers the heatiers the heatiers a \$150, the heatiers the heatiers the heatiers the heatiers a \$150, the heatiers a \$150, the heatiers the heatier

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May 18, 1916.

Norine, 7 yrs., \$240, F. Rountree; Centro View Gentle Canary, 6 yrs., \$296, Wm.

OFFICIAL RECORDS OF HOLSTEIN-FRIESIAN COWS FROM APRIL 16 TO APRIL 29, 1916.

Mature Class, Over 27 Ibr

Mature Ciasa, Over 27 Ibs. 1. Princees Saya Tosko Dokko, 12835, 17. Jin. 6d; 868.4 Ba. malik, 24.03 Jbs. 7a.) 24. Joseph Const. J. E. Wylie, Abmonto. 25. Macone Dok. J. E. Wylie, Abmonto. 26. Joseph Const. J. S. Wylie, Abmonto. 26. Joseph Const. J. S. Joseph Const. J. Joseph Const. 26. Joseph Const. J. S. Joseph Const. J. Joseph Const. 27. Joseph Const. J. Joseph Const. Joseph Const. 27. Joseph Const. J. Joseph Const. Joseph Const. 27. Joseph Const. J. Joseph Const. J. Joseph Const. Joseph Const. Joseph Const. J. Jose

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: 576.5 Hos. man., series and states. butter. i-day record: Sy. im. 24d.; 1215.5 Hos. R. 47.03 Ebs. fat, 55.79 Hos. butter. R. Richardson, Chabdonia. R. Richardson, Chabdonia.

Mart. Hichardmor. Caledonia. 5. May Echo Keyes, 8557, 9y. On. 26d.; 663.5 fbs. milk, 22.54. Mo. fat, 28.18 lbs. butter. M. E. Mayhes. Transform.

atter. M. E. Maybee, Treaton.
 Francy Calamity DeKol, 10414, 7y
 Im. 1461; 577.7 Est. polit, 22.18 She. fat.
 7.73 Est. butter. D. C. Fratt & Son.

Sr. Four-Year Class, Over 20 II Duisy Gerben Korndyke, 18715, 4y.
 10m. 18d.; 520.4 hbs. mälk, 21.03 hbs. fut,
 26.29 hbs. butter. Wm. H. Gough, Bloom-field. 2. Annie Paladin Wayne, 24360, 4y 10m. 19d.; 473.2 liss. milk, 18.01 lbs. fat 22.62 lbs. butter. Peter Smith. Stratford

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You should have some colts on hand. Science and system must be used in the profitable production of horses for the market. Dr. Carl W. Gay is known from coast to coast as one of America's most efficient horsemen. He gives you in this book, which is already used by the hustlers in every State in the Union, the most modern methods of successful horse breeding. Every man who owns a mare should purchase this book.

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d. Cadama m. 19d.; 10 kbs. b Jr. Fou Dalay 540.7

1. Minnie 8m. 28d.; 4 26.84 Ibs. b 2. Ennery 18d.; 486.1 Ibs. butter. 2. Cornuc 11m. 12d.; 23.61 Ibs. b 4. Vida 1 11m. 14d.; 29.44 Ibs. 4 Nove. Jr. Thre

Faforit 481.7 bs. butter. 2 Madolli 3d.: 485.2 H bs. butter. 3 Leora 408.3 abs. I butter: W.

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Three-Year Class, Over 18 lbs

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butter. day record: 3y. 11sn. 38d.; 651.0 Bbs. c. 25.41 Bbs. fat, 31.77 Bbs. butter. W. E. aby, Villa, Nova.

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 P. Toro-Vear Class, Over 18 lies.
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Three-Year Class, 580 lbs, and Ov

Three-Year Class, 580 lbs, and Over. I. Phus Poutino Artis, 16792, 37, 32364; 2016 B. mails, 199 fbs, fas, 16792, 37, 32364; 2016 B. mails, 199 fbs, fas, 199 fbs, 1014; I. Frydds Bestey Bobbox, 11223, 37, 4764; 12717 Bas, milk, 469 Bas, fas, 189 Bas, 1014; 2017 J. Due & & Roll, Weoolstoch, 37, 1664; 14564 Bas, fast, 580 Bas, 1014; 14564 Bas, fast, 580 Bastreev, P. J. Statley, Lachine Rapida, Nutrev, P. J. Statley, Lachine Rapida,

Two-Year Class, Over 600 lbs

Two-Year Class, Over 600 ms. 1. Mikicred Poiotrija, Abbiokark, 21500, 77, 2304.; 38,31 mb, errike, 549 bios. fet, 648,55 ind, bactere, Dr. L. do E. L. Bierrood, 70, Binnery, Laly Posch, 21362, 37, 2444.; 14065 Das. millik, 151 Bas., not, 641.25 lbs. batter, Wim. Sharicey, Weston, 5. Tiffcon Bitter Barronses, 19306, 29, 3364; 12508 Bas. milk, 505 Bas. fished, 5275 Bas. Worter, Exoprime for Passan, Hanni, 4575 Bas. Worter, Exoprime for Passan, Hanni, 4575 Bas. Worter, Exoprime for Passan, Hanni, 4575 Bas. Worter, Exoprime for Passan, Hanni, Hanni

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W. A. CLEMONS, Secretary.

A CANADIAN CHAMPIONSHIP.

HOMESTEAD HOLSTEIN STOCK FARM offers very reasonable for quick sets sight chains yearding heiters. Four are doubters of Judge Hongoweld Dokol Sth. Imp., whose dam has a record of 52.22 has butter. B. R. BARR R. R. NO. 1 MOSSLEY, ONT. R. R. NO. 1 MARRIETSVILLE STN., C.P.R. MOSSLEY, ONT. 100% Healthy abies whith disease ingle case of disease is a state of disease of disease ingle and sAFE, SURE and sAFE, SURE and state is a state of the state of CHEAP. 19 Ourses, Barns, A deal of the second and the second strength of the second second strength of the second st ENDLEUM ZENNER DISINFECTANT CO., WINDSOR, ONT. .

DISPERSION SALE

-OF-

20 Head

> AT EMERY, May 31st, 1916 **A FEW OF OUR CHOICE ONES**

> JEWEL CORNELLA POSCH-7 yrs. old. 7-day record, 23.48 ibs. butter; R.O.P. record, 23,963 ibs. milk. Bred to Lakoviow Hengerveld Sylvia. Due to freshen June, 1916. She is a very large orw of wonderful constitution and large capacity; a beautifully balanced udder.

> IMRIE DIXIE QUEEN-She is another large oow of axtra good type as her show record of T lat prizes and four ind shows. She is under test at present; giving 70 lbs. per day four days after freedening. She has two daughters with R.O.M. records.

EMERY CALAMITY PRINCESS-A cow of big capacity for food and milk, who as a 1-yr.-old made a record of 13.12 ibs. butter in 7 days after giving birth to twin calves. She will be tested again before the sale.

EMERY LILY POSCH-A one with great mammary development, very long and crooked vena, and large well balanced uddar; also good constitution and vigor. Bie has a record in R-O.M of 2413 Bia and RO.P. record ed 14,666 Bis: milk and 641,25 Bia, butter, with average test of 3.51 per cent.

EMERY CALAMITY POSCH-A Sr. 3-yr.-old, who as a two-year-old made a record of 12.34 has she is a nice smooth cow, in meanide condition, that will make a good record when ale freshens May 20, due.

Wm. Sharkey, R.R.2. Weston, Ont. J. K. McKewen, Auctioneer

LAKEVIEW STOCK FARM, BRONTE, ONT. Breeder of high Offer for make Choice Noutre Buile of various ages, all some of Grand-some of the latent for the standard of the standard of the standard then latent for the standard of the standard of the standard of the Table of the standard of the standard of the standard of the Br, Gestand, Freeprints. T. A. DAWSON Managar.

T. A. DAWSON, Manager.

18 HOLSTEIN BULLS

Grandsons of "King Segis Pontiac," "Rag Apple Korndyke Sth." and othera. Dame have milked from 100 ibs. a day down. Aged from 18 months to a frew days. Write us to-day if you want a bull R. M. HOLTBY R. R. No. 4 PORT PERRY, ONT.

2 CRESCENT RIDGE SIRES

I-Sired by Correct Change and out of a dam that has milked nearly 14,000 Hbs. per year, averaged 611.5 hbs. butter, and produced a calf every 14,000 HBs. per year, averages with the year. 2-Out of one of our choicest 2 yr, olds, Johanna Fairmont Hengerveld, 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 young sows of breeding age. F. J. MCCALPIN, Korngold Stock Farm, GANANOQUE, ONT.





Pure Bred

Holsteins

(27)

May 18, 1916.



top class

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This car is the result of a definite purpose to supply a definite need with definite finality.

It is built for the man whose purse cannot afford a big expensive car-

For the man whose pride cannot afford an unsightly, little, uncomfortable car-

And it is a very definite success.

Beauty is not necessarily a matter of size.

Neither does size altogether control comfort.

But skill, experience and facilities are required to build a smaft, beautiful, comfortable, economical car.

In a word, this car required Overland organization.

And here is the small, light car-complete to the last detail.

Its performance is on a par with its beauty, comfort and completeness.

And its price—\$850—is far below any former price for any completely equipped automobile—regardless of appearance or comfort considerations.

A glance at the car impresses you immediately with its beauty and finish.

As you look it over and read its specifications, you realize its absolute completeness.

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You can own one of these cars.

But act promptly-for no car was ever in such demand.

In spite of record productions and advancing prices, there is a shortage of cars.

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And no other car at anywhere near its price can compare with this one for beauty, performance, comfort, completeness and economy.

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