## 4 <br> TARM ANDAIIRY




These are a few of the many excellent teatures embiodied in the simplex Separator, Simplicity of operntion becaise there is a minimum of workis parts of any mian.
A child can understand and operate the simpiex fond every The simplex is made to last a life times and into every
machine that leaves our works the conscience and futegrity of the firm is built.
The simplex is the greateat money-naver and labor-aaver on the modern dairy farm. The Link Blade aldmming device akims so clean as to preclade all ponsibility of waste, thereby saving you many dollars in hard caah every year. The large capacity 1,100 Ibs. Simplex once at Yts speed turns double production with half the labor required for the ordinary hand separator.
ary hand separator.
That the Link Blade device is more efficient than other Types, we bave proven many times by testing the shme fi types, we bave proven many thatos. It always results in an increased capacity of anywhere from 25 per cent. to 50 per cent. of even 100 ger cent.
It is when you consider thase features of the simplex that you understand why it is the favortte separator with ths dairy farmers, and the separator "parexcellence" of all makes.
makes.
We icnow that the simplex is the separator you want, but we do not ask you merely to nccept our word. Write us for proof and particulars of our offer of a demonitration of the simplex on your own farm.
D. DERBYSHIRE CO., Limited

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


## Plain Words For Ontario Dairymen

## A Weteru Dairy Authority Submits tho Dairy laduatry of Oatario to Some Wholesome Criticime

0NTATLO ditryomee need no tonser loug for some powar "to se9 ourselves as others see us." It hin address betore the convention of Saskatchewan dairymen held at gae katoon some time ago, the amsistant Dairy Commiseloner for that province, F. M. Logan, B.S.A., expressed him: aelt very cleariy as to dis vlew of the dairy altuation in Ontario. His remarka are particalnely finteresting if view of the fact that since they were made some of the measures shat he advocated have boen enacted by the Ontarlo Legislatare. In part he sald:
"If there is auy faduastry in this country whish should be under government continal, ti is the dairy Indusitry. The gpility of the Anisthed prodact depend. 40 much upon the raw material, and without the ald of some aystem which will tend towards the Improvement of the raw materfal, there is Muttle hope that the is. duatry will rench the perfection that it ahould Bdecate the farmers to better methode is regard to the care of thetr milk and cream, you say, Extucation has its value, but it will fall to bring aboat the desired result. Take Ontarlo, as an example. For the past 30 years the Ontarlo Governinent and Dalry Aspociatlons have kept ap a bombardinent on "The Care of (wilk and Cream"; "The Washing of Dairy Utenatis ? The Eitect of kindred toples, saitielent to make every farmer in Ontario as selentitio every carmer hat ontario as sciential and amstary patron. Yet after ail these years one or the moat reinaid.
experts of the Province, at the Datry. mand Coovention last Jamuary, stat ed, that as regards the quatity of Oq tarle Duttar and eheese they were mabing fittle or no progress. He further addee that the forelgm market tor Ontario futter was nill, that at one time they had a good market to Brition Solamila, tut when broaght into competition with butter from the Prairle Provinces, they were oblliged to tate a second place and an inforior pilce.

## Real Remedies Aveided.

This, to say the feast, io a humilliatIng and serious confession, and an adminelon that they have not followed the right system in developling the diftry industry. They thold their asnual conventions and discuss the same old subjects, such as "How to Bulld up the Dairy Herd," How to Feed the Cait," -ote. They merely tount upon the vital guestloms meh ms grading the aream, grading the butter, and a cooperative marketing syatem. and a cooperative marketing syatem: They mafer to Aiberta and SeakatcheWhen theve the addoption of theite methods, but apparently fook upon the task of reforming the milk and cream producers of Ontario as hopeless. With private and cooperative ereameries and chenee fietorine loeat. ed at from two to ten milles apart, the competitios for mitk and eream is keen, and one operator will not gtart grading for fear some of his patrons
will take cheir cream to some-other Will take cheir cream to some-other ereamery, and so the old miethod in
conthused. There are some excellent dalrymen throughout Ontario and Quebee, but they get-nd more per pound of batterfat for thelr cream than the most carelees patron in the neishborthod, so the tendevoy is for the good dalrymen to become careless, rather than for the careless to become more particnlar, It is theretore, not surprising to read the atatement of an old butter dealer to the effect that 80 years ago Ontario and Quebee butter was of good quality,

## out that it had sroatly deteriorated sinee that time.

## Chesee Quallty, Too, Lags.

As regards eheese making, uttele or no improvement is betiss made in its qually. As high a price is pald for poor millk as tor good, 80 it is only natural that the quality of the millig does not tmprove. The leading dairy. men of the Rast realise that there is oniy one effeotive way of, bringtigg the quality of thelr cheese and butter to the standard already reached by some of the Western Provtnoes, and that ts to grade the milk and oream when It arrives at the factory. They also realize that their present syatem of marketing is unfair, unsatisfactory, and does not tend towards establishlag standard grades or rellable markets, but owiug to unwarranted compotition they do not seem able to aeree on any syatemi more efflelent of antisfactory than the one fo vogue.
It is usually easy to polnt out defecta, but not so sasy to muggest romedies. I think anjone will agree, however, that rome of these old mithods mast be shanged if the dairy producta of Basters Canada achileve any reputation worthy mention fin the markets of the world. One of the drat reforms would be coeperative marketing under Governneat auperviston, acoompanted with and the parment for same, acoording to its quality, inatead of by the expensive "hit and mfse" syatem of auo ponsive "hit and mise" syatemi of auo riagoment. This atep would doubt less lead to the grading of cream and mill, for manuficturers would soon tearn that to obtain the himhest prices, they must obtalu better raw material, and thle will only ootne when it is pald for aceordins to its quality.

## PAID BY TEAT FOR 12 YEARS.

 TCDITOR Therm and Dalry,-RegardIng the Disiry Standards' Act by Which willk tevting at oheese fac teries is made compulaory atter Apri 10t, 1317 I would may that doubtiens Wise ahonld have boen done years ago. In the year 1895, 1 pald for millk on a quality baslo fo in fatotories, and conthneed to poy for miki oo that hasis for about 13 yearsmithout any telp from about is yearmithout any help from Ghousands of dollark. 1 must have toen ahead of my tlme tor I pald very dearly for my experlenoe.

The Iecislation is all rieht, but the practleal working out of the law will be anothep matter. The E:, D. D. A. fhould take the matter fin hend and atpolit then who aro thorouehly comappoint men who ary thoroughly consinitruetors should be able to do the teisthy if thoy could pans the neces aury examlatitions for a eertificate to to the work.-Wm. Kater, Duada LD. Ont.

## Lawath or mptick.-If a perton Pema

 a houne bo the gear, but pan reat by thy twouth, hat melt notiee bo they have give of tiale intention to rive un thWhen a house is reated by the year, the tenancy espires at the end of the Year, when the tenant will either leave or make a new agreement with his landlord. If the tenast stays without making any further arrang went with the landlord, he becomes yearly tenant and will be obliged give sis montha' notice to quit When a house has been rented for year, the tenant is, of course, obliged to keep the house for the year.

## A Veteran Among Canadian Holstein Breeders

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


A. C. Hallman,

His sketch is in recoprition of the services of Mr. A. C. Hailman to the pure bred dairy cattle industry of Canada. Recognition of a man's services atter be is dead is at best but tardy justice. The sutbject of this sketeh is not dead; far from it. A man a little past his prime, and as freah and vigorous in mind and outlook as ever and as anxiously looking for new flelds to conquer, Mr. Hallman is, nevertheless, one of the veterans among Holstein breeders in Canada. He is orie of the tathers of the Holatein Aasociation, and in the pent soverni decntes 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 Hosisteln 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, buit seeting no fature In bis own occupation, except that of a poorly pald wage earner, he picked up bie few belongingy and walked to Canada. It has been well sald that foole don't emigrate, and the ardnons fourney undertaken by the elder Hallman to reaeh his land of promise showed the stuff of which he was made. He finally seftled in the townshlp of WIImot, in Waterleo county, neer New Dundee. Ple
eleared 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 aketch. Both the Pennayivania weaver and his son were thrifty and progressive people, who, seeligg into the future, were content to make good nse of the present.
It was on the farm that these two men eleared from the virgin forest that A. C. Hallman was born and reared, one of a round dozen of sturdy country chlldren. All but one of this large family are living. All are farmers or farmers' wives, and all are doing well. Young A. C. Hallman spon showed his natural bent, "I was the cattle boy at home," he told me once. "I never cared for teaming. I used' to be in the barns sticking up the cattle Just for the leve of tt."
Finally the time came when the cattle boy desired to become a cattle man and make a start for himself. He settled two milles from the old homestead on a ferm that his father had bought as buik land and oft of which he had sold a part of the timber. The amall ares of crops that had been produced there had always been drawa to the home farm. Finally the partly cleared farm was


A String of Holetein Youngsters on the Farm of A. C. Hallman.

- Photo by an editor of Farm and Dalry.
offered for sale at $\$ 5,000$, but could not be sold. Then young Hallnitin 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, hlly farm to which the young


The substantial Farm Home of A. C. Haltman, Waterioo Co., Ont.
Surrouided by trees of Mr. Hallman's own planting, this is one of the fineat ded by trees of Mr. Hallman's own planting, this is one of the
farm homes in Ontario. Photo by an editor of Farm and Dajry.
man moved and not one well calculated to engender optimism. Ferty aeres of steney land had been cleared. The frot season's grain crop welghed out fust bef bushes. The house to which Mr. Hallman took hle bride was built of logs, which at least had the merit of being sabstantial, and there they lived and worked for 15 years. Ipprovements were mate from time to time: an addition to the barn, a modern hog pen, a good drive house, and so forth. When the farm was fnally sold Mr. Hallman reallzed $\$ 500$ more thah he patd for It, and when lie teft the farm produced 2,000 to 2,500 bushels of grain, fed 30 to 35 head of cattle, sind at tities over 100 hogs, of course, for the latter, much feed was purchased. The purehase of this farm Mr. Yallman stiII regards as one of the greatest mistakes of hls life.
"When the rieighbors were rlding the binder and mower I was grubbing around stamps with a scythe," he told me in a chat we had last spring. "If fonly could have devoted that time to something more useful! My gracious, the stones i pleked 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 caitle I would be much farther ahead to-day."

The start with Holsteins.
In the meantime, however, a start had been
made in the cattle business which was deatined to bring Mr. Hallman both fame and prosperity. H!s fathei sat fand good Durham cattle, but he eoon found as he attempted to improve them with Shorthorn blood that he got less and less milk from his cows. Thid was a şerious matter, as a cooperative cheese factory now offered a fatrty good market for the milk. Among the fitends of the tamity was a Ewiss gentleman, who talked nuiuch of the great cattle he had eeen and known. Illastrations of Holateins 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 \& Compant, Av-ora, III. 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 Holstetns in Canada. Later they heard that a few had been passed througb the three months' quarantire by M. Cook \& Sons, of Aultaville, Ont. This long quarantine made importation dimcult and expensive. In 1885, Mr. Brown imported Holsteins \$reot from Holland, bringing them through Canadia. He ted at Toronto. "The two Hallmane, father and son, and a Mr. Hilgartener, went to Toronto to see them. The subject of our sketch had pluck enough to select six helfers, three calves and three yearlines, and one bull. These cor each for the calves eight mon.and and $\$ 360$ for the heifers coming twa Of this lot, Mr. Hallman took three for himself and borrowed the money to pay for them. The rest of the story is beet told in Mr, Hallman's own

The First Disappointment.
"The first helfer to freshen was worde.
a beauty," sutd he. "Bhe was as nice a type of Holstein as it have ever seen. She was a dual purpose type, aplendid for milk and geod for beef. She thed with fibr first calt. That was my finst setback with the breed. I had pald $\$ 360$ for her and kept her from fall to apring, 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 loat it.
"I proposed to Mr. Hitgartener that we go into partnershlp. I caloulated that in this way we would share the losees, as naturally losees were foremost in my mind at that time. I forgot that such a parthership atiso involved, necessarily, sbaring the proftis. In addition to ournolves, my father had some Holsteins, and aiso another neighbor, Mf. Wagler. I was expeoted to do MIf of the selling and correspondence. We made adaitional importations from 8 mith, Howell \& Lamb, of Syracuse, N.F. Finally, Mn. Hilgartener and I had 60 head of pure bred cattle. We had more" cattle than there was a demend for. Had I been doing my own business I could have sold a) I and done much better. As it was, we called a dispolution sale, at which goed cattle sold as low as $\$ 60$ and $\$ 50$, and I then started out for myself to the Holsteln business. That sale was held just 10 years after I started on my farm."

Success in the Show Ring.
Even before this sale whs beld Mr. Hallman had started his career in the show ring. In 1885 he took hall a doten head and went to the Provincial Earhibilion in London. He wenk with much fear and trembling, for, as he explatined to me not long ago, he was "Just a green farm lad."

## (Continued on page 11.)

## -DOMINION HOLSTEIN BREEDERS' ASSOCIATION.

## Dear Sus,

A special Meeting of the D. H. B. will tako place at the Vietoria IIotels Gnelph, on March 81st at 12.30 o'eloek p. m. The committoe appointed at Stratford, after fatty frveatipating, ©o not conilder it to the beat finterest of this Breedera to establish a H.B. in connoetion with the Agrienltural and Arta Association, but are favorable for the A suocialion to form their own herd book, whieh ean be done chesper and niore satisfactory. Mr, D. E. Smith will acoept the Secretaryship and pash the work.
P. 8.-Those not ablo to be present will please communicate their views to the secretary priur to the meeting.

## Aletlall By orien of presilent. <br> Thecidenx, P. STEWART, Secretary:

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

# 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 Grenollle Co., Ont.

I
WHL 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 tenting work. I decided to keep herd records and find out what they would do. 1 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 wetl as the quantity. This could not be done without keeptig 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 satisfled with weighing three times a month, so for 1916 and 1915 I welghed twice daily. For 1913 the result was as follows:

feeda were corn stalks, hay and atraw. Mill feed were bran, shorts, cornmeal and oat chop.

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

WIE have never had much trouble in getting the seeding done on schedule time. ing eeed time everything goes like work. The team is in the field sharply at seven o'clock, one Item of work follows logically atter another, and everything and everybody is speoded up, with the result that the spring seeding fisishes sharply on time, with scarcely a bitch, except when wet weather interferes.
Previous to list 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 havd as during seeding, but seemed to get nothing accomplished. Every job otuck to our hands, and we could not seem to get rid of it. There were so many litts things to do besides getting the root and corn tand ready that fit seemed impossible to make any progress. Just as we got started at olenning out the manure that had accumulated slace spring opened up, we would find a plece 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. during the epring rush the little fobs had been accumutating, but now they muat be attended to, with the result that no end of time was lost in running from one thing ta another. In seeditr time it usually surprised us at the end of each week to find how mucti we had done. As soon as seeding was over, hawever, the surprise on each Saturday night wee to find how little had been accomplished during the week.
Last apring we adopted the new

In 1914 the average value of milk was $\$ 60.63$; feed cost, $\$ 38$, and the average proft, $\$ 29.63$.

After two years' experience in the work and finding even cows the same age giving from 2,000 lbs, to $2,300 \mathrm{lbs}$, more of milk, and also from looking after the feed, finding nome 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 Hir, best cows and feed more theralty. The result for 1915 was as follows:
 feed cast $\$ 72.15$, 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 as good sire at the head of the herd, yet my work in 1915 was with the same cows as in 1914, less one. 1 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 160 lbs , of milk may have been a Hittle high, I aid it without ensilage, lurnips or mangels. My aummer feed whe green peas, outs and cloyer sown at different intervals. Wiater
plan with good results. By it wo fuat about doubled the number of emall jobs wo could get through withlu a week. We began " y making a Uist of all the jobs we could think of that had to be done within the next week or mo. Bach niftht this list was revised. The things that had been done were struck off, and new jobs put on as they appeared. The thingurithat needed attention most were pleked out eo that they could be attonded to the following day. Eich dayn work was therefore carefully planned, and we took great pride in belag able to say at night that everything had been accomplished that day acoording to schedule.
As a remule of this plan, we did in two weels What formerly took us throe or more weeks to do. We therefore got our roote and corn planted that much earller and all the small jobe out of the way, no that we liad, a good long summer meason left open for carrying on olur general plas of farm impnovement which we have under way, and which has occupled our spare time is summor derfag the past few years.

We have reached the point where we cas scarcely advine a man to plant apple trees. For years and years we have been boosting and boent lag the apple business, Our problem now is not planting, but shipping the frult we have.-Prot

Ddisagree one 4 vi the roads ar road drag is of using it lo comes from rule wt.e for in it. The I middle and $p$ In wet weath will not be $m$ implement fo tor drag. It every rain. roadbed in th When the centre it will moisture unt growing alon, it, and thus seil grains to not be allowe travelled part the right am becomes soft, to thet stlek taff amount o it at least - 1 keep it pack middle and to weeds. Whet In. Use the r

Better farm modern scien better busines tion of moder ness- side of t is the builtinn mestle and sc growing attra three-fold sch ground, and w life movement general schen change in the must come ftr

## Dust Prevention <br> 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 whe 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 erery rain. In this way the soll is laid on the roadbed in thin layers and is packed on.
When the roadbed is hard and crowned in the centre lt will hold just about the right amount of moisture unlese it is sandy. Grass and weeds growing along the roadbed send their roots under it, and thus remove the molsture 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 laam will pack hard when it contains the right amount of moieture, when too wet it becomes soft, and when too dry the soll grains to wot stick together. The beat way to keep it faff amount of moisfure in the roadbed is to keep it at least 18 inches above standing water, to keep It packet hard and well crowned in the milddle and to keep a strip on each side free from weeds. When ruts are allowed to form they wilh be ground to duet as soon as drying weather sets in. Use the road drag to keep ruts from forming.

Better farming simply mearfs the application of modern sclence to the practice of agriculture, better business is the no less necessary application of modern commerclal methods to the busisess slde of the farming induatry. Better living is the building up in rural communities of a domestic and social life which will withstand the growing attraction of the modern efty. 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.

DIVERS EICATION is the rule at Spruce Lodge Farm. Nominally, this farm, like the majority of facms in O.Afor county, is a dairy farm. Really the income is derived from many sources, and the plgs are only secondary In importance to the dairy herd. The proprietor, W. U. 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 Dalry representative last spring Mr. Sbearer spoke quite fully of his methods, which have eaused much comment at Institute meetings where he has so often spoken on this subject. He đescribed hls feeding methods as follows:
"Our staple grath feeds are oil cake, middilings and buckwheat meal. We have to be very careful in feeding the latter. We feed middjings and buckwheat meal, half and haif, 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 belag fed but twice a day. I find that I can grow young pigs with a lot of roots and a little ment, but of courve it 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. 1 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 twiceas dily, and in 90 days the hogs gairied 140 lbs . each. 'I was


The Pride of Ownership. Attaches the Boy to the Farm,
"We consider these the best fnvestment on our farm." writes the subserfher who sent us the phota it was
taken on the farm of W. E. Drydon, Quebee.
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


Mr. Shearer Believes in Havipg the Hog Pen Well Lighted. Note the Numerous Windows.
-Photo by an editor of Ferm and Dalry.
feeds a day are -O. K.,' he remarked. 'I -went home from the Institute, selected two lots of pigs of about equal merit, and ted 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 1 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 confliethem. Through this system of pasturing the hoge I expect to raise them up to the finlshing 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 thouse hae 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 flve pens, $8 \times 16$ 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 lightng 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 buflt this hog pen," sald Mr. Shearer, "I went around to neighboring farms to get pointers, and as a general rule 1 found that the hogs were wet. That four inch slope, but more important stilt, that wide gutter, keep my bog pen perfeotly dry."
Over two-thirds of the south wall is in window glase; 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 stII 11ghter."
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 plgs to run under. Here the youngsters can take refuge and the sow cannot tramp or lay on them.
This shart 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 as.-F. E. E.


## Canadå Greatest Seed House

STEELE Bilcgs SEEDS THE BEST BYEVERY TEST

FOR SALE BY RELIABLE MERCHANTS
EVERYWHERE THROUGHOUT CANADA
SYDNEY BASIC
SLAG
The Best Value in Fertilizer on the Market

## SALES in Ontario in $1913 \quad 230$ tons. 1016 3,108

We suppose you have missed our advertisements recently. Well; we have not retired from business, 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 Basie 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, of 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 reasounbly remunerated for your trouble, but, above all, you will earn their gratitude for introducing Sydney Basic Slag into your distriet. Drop us a line end our general Salesman will give you a call and discuss the matter. If necessary, also, he will hely you to canvass your territory. Sydney Besie 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, Ldd., Sydney, N.S.

Some Hints on Lightning Rod Installation And Other Things Learned During a Visit to the Farming Special"Haiton Farmer," Halton Co., Ont.

CRBAT, was the Farming spe-the point must be on top of the
chail A veritable coiliege on capola, " beela! thave attented on capolas." eral farming specials, such an the one model of a properly I learoed from a run last fall over the lines of the Mr. Martin had in hils exhlbit, wat C.P.R. In. Western Ontario, and whe that all metal construction such was taterested ouly in a general sort of the thay fork and the teter such as way. I remember looking ac thls and traok, should be connectet with the that and goligg away without knowing grounded rods, which, to taseth the muoh more than when I came, I
grounded rods, which, to tash mole mill necensitate tourying then
ture, euppose many others have had riml. elght to 10 feet deep. lar experienges. When the Farming in rodaing house special of list November, however, that the nod travelling I wis advised stopped at Cuelph the same day thai hoard should be caing along the ridgo I was in the city attending the trac-chlmneys and not over them, the for demonstaation, I atepped over to then grounded at eave corners dragonthe cars to get some definite informa- ahy opposite. A general rule that Mr. tion. I wanted to know all abont Martin gave me was that the pointi buildings on the farm and wanted to on the roof which absorb the chargn protect them with fome better fasur- the points are long. Mach mare at ance against fire than a good lnsur- learned in conneotion with lightaing anoe policy, allaough I have the m - rods, but I wil not carry thls sult surance policy as well. I got fust the fect any forther. finformation I wanted. Mr, L, B. Mar-
tin gave me fall and complete in. tin gave me full and complete instruetions for making my instaliation. I will not tell here all that I learned trom Mr. Martin, as much of it dealt with my own pecullar problem, but I belleve I may be dotug many othera a tavor in paselug on some thlags i learned that apply gegerally.
We first discussed the type lishtindig rod that it would be most sdvisable to install. I asked about the fron centre rod. For answer Mr. Martin showed me some specimens he had in his exhdilt. On one side was a new fron centred rod in lts copper 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 fron had all rusted out, although the copper was as good as ever.
"I certainly would not advies the iron centred rod under any conditions," Mn Marth informed me. "In faet, the pure fron rod does not rust as fast as the iron-copper rod. The conducting power of the iron is only one-halt as great as that of the cop per rod, but its melting power if is mier. The only place where there is much danger of melting, however, in at the point. Hence we get the ideat rod in a comblnation of a steel tip and a copper condueting strand." Lightning Rod Fastenors.
We then Cibcussed methods of tas tening the rode to bullilings, and Mr. Martin had speolmes comnections right on hand. 1 learned that there sre two general types. Some hold the rod close to the buildting. The claim on behalf of this method is that the copper, coming in contact with the tullding, will remove the charge from the bullding with any danger that that might favolve. A disadvantage, how ever, is that straw and ehalf colleet around the rod. and are held there. Other rod fasteners, and these are considered the most antistactory, fissulate the rod from the bullding by holding it threeguarters of an inel away.

Tile Drainage.
From placards on the car walls noted the following teetimonials
the value of tlle draining: Mr . Beecher draining:
boro county, harvested, of Peten oats, $87 \% / \mathrm{brinh}$ buarvented a crop el a tile-drained deld, whille from lando of exacty similar quality but dratned, the crop threshed only 311 bushels, a dilference of $55 \%$ busheis to the acre in favor of tile dralas At the price of oats last fall 1 cal culated that the lacrease In that one erop nearly paid for the drains, viding it costa about the same drain a field in Peterboro oounty as in Halton county.
Mr, Sandy Matchett, also of Peten buro county, sowed mixed grain, and trom hils drained land harvested 1,427 Ibs. to the acre and from undraian land 923 tbs. The value of the differ ence in yleld was eatituated at $\$ 6.37$ Ariey was the crop reported on in Aibert Snell, of Haldimand county From dratned tand he harvested bushels, from undrained $271 / 4$ busbela and the value of the difference wis Wh
Wheat must respond particularly well to tile dralnage. Nell MoDou gald, of Tara, Ont., threshed 294 bushels of wheat from dralned land and oniy $111 / 4$ bushels from un arained. This, I suppose, was at exceptionally good showing; the dif The in yield was figured at $\$ 19.44$ The value of elfalfa as a crop for ward most atrilicingly on a card whict atated that the average yleld at the Ontario Agricultural College in if years had been 4,77 tons to the acre. The number of pound ${ }^{-}-4$ gestible pro cela in a ton of wheat bramis 237, in a con of altalfa hay 295 , and in a ton of orret, 14. If these figures be hem., an and see no roason- to doub worth in one year folly alfalt hay in Forth in one year fully as much as it present prices would be which $\$ 160$. Altattic has whlways been one of my prinelpat crops, and although 1 have not been able to make as tilgh a yleld as reported for the oollege, it was reasmuring to notice the riti
tive value of alfalta hay as a dalry feed.

## Poultry and Dairying.

It would net do to stop these notem Without some mention of the poultry department of the speolal car, of which J. W. Clark; of Calnaville, wa in charge. One polat I noticed in the exhibit forought home to me very exhibit orought home to me very
clearty a reason why the dalry farm clearty a reason why the dalry farm
Is the wery bent place to ruu poultry as a side line. A cand taformed one
(Conttrued on page 9.)

YOU CANT AFFORD-no matter what your in-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 squeaking and creaking and groaning over the least inequality of the road;

IF IT'S ONE OF THOSE " 2 in 1 " affai;s 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 falls short of the Reo standand-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.

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 Reo Six.
RECENTLY A GROUP OF GENTLEMEN were discussing motor cars-as men so often do, since there's no other peaceful tople that is of such general and such vital interest.

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 unsatisfinctory records.
ONE SAID, "of all the Sixes made, there's just one you can tie to with certainty that it will live up to all expectations-because of its own and its makers' past record.
"THAT'S THE REO SIX-the handsomest as well as the sturdiest Six made.
"TT'S THE GOLD STANDARD of Sixes."
"WE ARE ALL AGREED ON THAT, I guess," exclaimed another-"there never can be any doubt as to the quality of a Reo.
"REO CARS HAVE BEEN the 'Gold Standard' of autompbile values since there were automobiles."
HAD YOU THOUGHT OF THAT-juse in that way?
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 Standerd."
YOU MAY DOUBT, you may question, claims made for other cars; but you accept as a fact firmly established, that a Reo is 24 -karat fine from radiator cap to tire holder.

# 1 (another MoneySaver 

## Griffiths Yokie: Rup

price of \& Leather Breast Strap and price of \& Leather Bresest Strap and
gives you greater strensth where gives you greater strensth where
you need th
Note the hensy ateel alde that Note the heavy ateel slide that
beare the atrain and wasr of the yoke riny-the atrong, hard rope
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68 King St . Esust, Toronto.

## The Renewing of the Farm Flock <br> Can the Problem be Solved by Developing a Long Dittance Strain of Layers

 "Poultry Jack," Wellington Cos Ont.WEEN I was first starting into ood if they were to endeavor to introduc many years as I nicely "doped out" that I would carry several hundred winte. layers and that the entire laying flock should be changed each year. Like most amateur poultrymen whose previous ex. perience had all bein with a small tiock, multiplying the numbers looked simple. One day in a city restaurant 1 found myseff opposite one of the best known poultry authorities in the land. I vubmitted my plans to him with all the eagerness, plus the cock-sureness, of a good mathematician but somewhat amateurisb poultryman.

The first trouble ynu will be up against with a flock of that size wifl be renewing it every year," was the ing to retain the pullets for just one ing to retain the pullets for just one hear 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 oae. You will then be
up against the problem of having a up against the problem of having a great many incubators running at once and a still greazer problem of getting ergs enough in a comparatively short time to fill those inesbators. I think you had better start a little easier."

## A Bit Drawhact

Experience has demionstrated that the expert was right. One of the big-
gest drawlacks to suecess in the poultry industry is the problem of renewing the flock. The plan so often advocated of changing the pullets be aimost impracticable on anything but a small scale and even then I flock of 500 layers would necessitate 500 new pullets each year. This would mean a hatched each spring one hall of whick would be lost ing, one half of whick would be lost in brooding or culled out, and then at least onehalf of those left would be cockerels, which too often are raised at a loss. My coimate may seem high, but gen: eral experience, I believe will bear mie out in stating that at least four times as many eggs must be hatched Is the number of pullets required. du not the fact that most egg pro-
ducers would be glad to buy pullets at the price that they receive for their surplus cockerels a confession that it costs more to produce them to a broiler age than they will bring chickens in such large numbers is an expensive item and the money invested in brooders is used for only a short time each season. The brooding season too is a husy one for the poultryman and in multiplying the number of chicks he more than multiplies his difficulties. The development of a strain of fowl that would be profitable through a longer period of time and thus lower the renewal requirement to one-half or
*-third of its present amount, production as well as the worry and hazard of-the poultry industry.

Work Fir Our Collegee.
So far the efforts of our agricultural colleges seem to have been to produce a strain that will tay the greatest number of eggs in the first year. The theory sounds well. It is
that each hen is destined to lay just so many eggs in her lifetime and the more we can induce her to lay in her first year the more profitable she will be. That would be all right were it not for the cost of renewing the our agricultural colleges would be doing the poultry industry, at least object is eggs, a more decided benefit
three years. I am glad to say thai some such work has been started the Utah Agricultural College and would like to outline some of the results of their work, which I have ust been reviewing in z bulletin from that station.
In this experiment there were seven flocks and their record for egg production runs all the way from onr to seven years. The average procurt ve life of the strain proved to fe about four years. The average was year production for all flocks year production The average seconid year production was exactly the same as the first, while the average of the third was only one dozen less, or 112 eggs.
The Valie of Long Distance Layers Think what the development of such a strain as this would mean the thatening of only it would mean many chicks each year, one-third as much incubator space needed, the difficulty of getting enough good hatching eggs at the right season soo the year eliminated. In short with 500 laying hens it would mean hatching less than 200 chicks. The cost of rearing the poultry to laying age could be divided over three productive years, instead of all charged to the one year. Of course the receipts for old fowls would be lowered prc: more than compensated for in the reduced expense of renewing the flock The dairymen are doing their best nowadays to produce long distance cows. The cow that can make a good cow that makes a poed seven- the efcord. The cow that good seven-day focord. The cow that can keep up her long distance work for two or three years is more valuable still. Poultry from the book of well to take a leaf dairyman the book of wistom of the dairyman and develop long distance laying propensities. I would like to in Canada. similar to thas been done Utah Experimental to that at the Experimental Station.

Facts About Hens and Eggs TV HiLe heavy laying is as a rule desirable, phenomenal egg reeoris are not a guarantee of aing, rugged offspring. There must be a imit.
The hen that lays 150 eggs in a year is doting mighty good laying, and to Hfe as tso the the wheak down earip
to trying to "t dife as is the ohe which is trying to
Pullets and yearling hens that have done such remarkable work in their first senson, are not so apt to do heavy work in the second year.
Extreme, cold and extreme hot weather affect hens alfke.
The regular tayers give the best sized eggs, while the spasmodic layer generally produces an assortment of ${ }^{\text {stzos. }}$
The sise of the egg beormes smaller as the hen Jncreases the number of her product. So atso does the colos gradually change from a dark brown to a light oolor towarde the close of the aitter.
There is not very strong fertility in the eges laid by a hen that will prouce from 30 to 50 wers in succeselon. As a rule, heas that lay oteadily during cold weather are Indifferent bot weather layers.
The majority of eggs are lald between the hoars of $90^{\text {oclock in the }}$ morning and 3 ofolock in the attern noon.

Remember that fall fed chicks are paying chleks. It pays big dividonds to hurry their growth.

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We guarnatee the beyt for your moncy. Our goods have boen tried and proven muperior for over 30 years.


Hials onLightaing Rod Intallation (Continued from page 6.) that in tests at the O.A.C., a pen of fowl recelving buttermilk lajd 32 winter egge out of a possible 100, and that another pen of simflarly bred binde and similarly fed, exeept for the absence of tuttermilk and other anfmat food, produced only 17 egge. In two coops, slde by alder there were two pure-bred Plymouth Rock roost. ers. One of them had a jong head, a long beak, long tail and lack of breast development Tee other was a well-set-up bird with a strong beak, large, oright eye, good breast development atfi every other indication of conet tution. A stuity of these two typer vas s lesson worth carrylne away
Finally, there were two hens, both Plymouth Rocks and, to the anprac tloed eye, looktnes very much allke. One of them, however, was a bred-to lay bird and had produced 268 eggs in her pullet year. The other was of ao epecial breeding and ber prodacLioa was oniy 88 esge. Both birds recelved the same feed and housing.
Having digented theae and several other features of the special car thanted thoas in charge for the moarteons attention they bed atren me, and hied me off to the tractor demonetration at the college.

## Electro Culture

Wm. 8. Aldrich, Colorado Agrioultural College.

## 

 THE range of experimental work in electro-culture has extended all the way from greenhouse work and early forcing of choice marketable verretables to orain and stugar beets. on ten to eirhty acre plats, and in connection with irrigation.As a running summary of results of experimental electro-cntture it may he of interest to note the following: Beets, 33 per cent increased yjeld, carrots, 50 ner, mont. sugar yielded; per cent: strawherries fumbers, it plants, 36 per cent, and one year plants,
plants, 80 per cent increased yield. In plants, 80 per cent increased yield. In
general, the least increase of yield, Heneral, the least increase of yieid,
for all crops, under favorable conditions, should be about four per cent: and, for certain crops it may reach an increased yield of as much as 100 per cent. A carefut analysis of the costs incurred, show that the increased yields should be about 15 per cent, to make electro-culture pay.

Besides the tncreased yietas, the effect of electrical stimulation is markedly apparent in the improvement in quality, and in-shortening the period of growth, in which sometimes as much as 50 per cent is meneral. But electrical stimulation of plant growth will not take the place of the most careful attention to the velalis of every other lnown method in conjunction with it, as cultivation, irrigation, festifising, after the lest sced has been selected. What is sow considered a luyury; the early marketable and succulent vegretables, the lucions fruits, and the choicest mrains and seed crops of the same may well be worth the ndditional, care, and surely more than worth the added cost of production. This applies, not only to the local market, but to dis. tance fochvice, by parkeel post, trxpress, or fast freight.
Another result, and one which some will say, might have been expected, is the remarkable freedort of the electro-eulture stack, from lacierial and other diseases sometinys incident to forced plant erowth. ) (s one writer has nut it, "The installa. tion remuired no attention except to clear sway the cobwebs and stray shoots, etry from the network o may well be attended to even on lart may well be attended to even on large tracts, when twheat 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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Buy Deering hay machines, mowers, dump rates, side dellyry rakes and hay loaders. They take the hard work out of haying and put the proft in. Get catalogues from the Deering local dealer, or write for them to our nearest branch house.

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## Toronto

# Automobile prices are being raised-but the Ford price has been reduced $\$ 120$ since war began 

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The high Ford quality is strictly maintained -and the most exacting government tests have shown that Ford constructive material even excels that used in most high grade cars.
This year the Ford car-always the most economical car to buy and to operatebeats all records for economy.

## In Union There is Strength

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

FARMERE should onganize for their own education and also for the social uplift of the communThe rural mail and teleptone are robbing the rural sections of much tion ts needed to bring an organizatog is needed to bring the tarmers
toger means strength, and the farmer needs such an organization for his own protection. All other professions and busihesses are armed to the teeth, so that the farmer camnot even build a bridge without being responsible to somegne for ft .
Farmers should be organized because otherwise they are without recognition. Until recently they were refused representation to the Chamber of Commerce, and the toast to "Agricuttare" had to be responded to by some professional man who knew bothing about the farm or farming. Farmers are the only tood producers and upon the quality and quantity of the food produced, the prosperity of the nation largely depends.
With the shortage of help experi enced 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 begkis at home. The cry to the farmer to produce more food has met a patriotic reaponse and in this manner tarmers are dolng their part in the great struggle.
TWe ero being told in some quarters that we should apend our money at home and not send it to the catalogue house or the commisaton firm for our supplies, but in this connection I want to point out that no one presumes to dictate to the manufacturer where to bury his goods. If an ofl stove can be purchased at home for $\$ 12$ and at To$\$ 10$ to Toronto for farmer who sends $\$ 10$ to Toronto for a stove saves 82.
If he bought the stove at home, the reIf he bought the stove at home, the re-
taller sends the $\$ 10$ away to the manutaller sends the $\$ 10$ away to the manu-
facturer and keeps the $\$ 2$ proft. The difference lies in this that in-one case the farmer has the fol and in the other the retall merohant has it.

## "Fham an address delivered before the Ont., in Apri.

## A Cooperation Enthusiast

MR. A. J. TAMBLYN, Durham Co., Ont., whose hydraulic water system was described in Farm
Dalry's Machinery Number a couple of years ago, is also an enthusiast on the subject of cooperative enterprise among farmers "There are a dozen ways in which farmers can cooperate," he remarked on the occasion of our visit to see his water power. "Take fruit for instance. We power. "Take fruit for instance. We had $s$ members in our fruit growers
association. A few of us got out to boost the association, and now we hoost the association, and now we
have 50 . I believe that we can make have 50 . I believe that we can make
it 80 . A number of us who like myself believe in cooperation, are looking forward to the day when the farmers in our district will be united to market thicir own hogs, 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 cally than it is now being done. I believe that the United Farmers' Company of Ontario will be a great thing,
One basic point is cooperative organization and success was touched have come to the conclusion that be-
fore we can have cooperation we mist have more men in our community who are willing to take their time and energy and devote it to the organiza tion of their fellow farmers. There has to be a leader in everything, and cooperative enterprise is no exception to the rule.

## Care of Car Finish By R. A. Bradley.

CARELESSNESS in washing and polishing a car is responsible for a great many cars getting to look old and run down so soon.
In washing your car be sure fint to use plenty of water and not mulh pressure. Don't rub the mad and dirt off, but wash it off with water Thoroughly soften it and allow it to soak soft before trying to remor it at all. Do not allow anyone to rnb fingers over a surface covered with dirt sa the small particles of dust will cut the finish.
You should have two sets of pails sponges and chamois for washing, is is a good plan never to use the kamo sponge-or chamois on the body and running gears.
Grease makes a smeary appearance on the body and should be kept of as much as possible.
Keep sponges and chamois clean and free from grit and dirt. Uso s good body soap and luke warm water for the last wash for the body,
If you can find 6 good body polinh, It is good, but never use too much of put it on too heary, be sure and rub it thoroughly and leave the body free from it: or after a while you will notice it making a coating over the body that is hard to remove.
It is a good plan to go to the man was sold you the car and have him for it, if convenient. The nice appears ance may be kept on a car for a year. or tway bo kept on a car for a year Nover allow pror care. Nody if posslble to prevent on tho

## Fertility and Dairying

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

DAIRYING is the system of farming
that will malntaln the fertility that will malntain the fertility of
the farm without the use high-priced fertilizers, For two reil sons, dairying maintains the fercility of the land. First, because in butter there is almost no plant food of ralue. and, second, because 90 per cent all the grain feeds purchased for the cow, as well as 90 per cent of all ton ralsed on the farm and fed to the cont is returned to the furm fed to the com, Weturned to the farm.
caslonal crop of clover, and an 0 casional crop of clover, the land will remain productive in'ffinitely. When we stop to think of it, whenever we sell wheat, corn, or oats, and get one dellar, we sell about 30 cts. worth of our farm. When we get one dollar by selling butter, we seli less than one hall a cent's worth of soll.
The land owner who makes his money gelling the soil fertility, and la 10 or 50 years leaves the farm worn out, ls not a farmer, but a soll robber. He holds the same relation to the soil that a timber thlef does to our foreatiThe tillers of the soll in the future will and their fathers have not been kided to them; that they have inherited barren patchee. We should diairy them, because there is present money and future for the farm in it.

Farmers can individually do a great deal to tmprove the quality of woof placed on the market by taking care to prevent dirt getting into the wool whille on the sheep, and by belng more careful at shearing time in trimminf the fleecos.

One H Is Eno

One Morse Noneed to lose dok Is Enough irsomplete days by Ifyouhaveonshorse -that is enooght You can do ns good worik as the big
itifits on the largeat farms, when

 virasing

Disk Harrows


 The Cutaway Horrow Compay whic Xatar Strout, Higrone

## Cotton Seed Meal

 Linseed Meal and Flax SeedH. FSALEICH, Bez 3. Ferent. Oat.

## PRROFIT FROMO SUMNER FEEDING <br> No matter whether the season

 Io wet or dry, or how rlach or plenulful the pasture-your livestock will do better if given some aupplemovtary rationsfeed them.
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eronm and the calves and etookira, ote, will gain weleht throughout the fummer.

Write for free booklet.


## Veteran Among Holatein Breeders

 (Continued from page 4.)There were over 100 nead of cattle there, but Mr. Hallman secured first
and second on his heifers. That him courage and he wired to Toronto him courage and he wired to Toronto
if they would take his entries at the if they would take his entries at the
exhibition there. The return wires stated that they would if he, Mr. Hallman, would rifk there belng space. He went right to Toronto. The story of his subsequent success in the showring is well known to the older Hol-
stein breeders, and is told briefly in the first farm catalogue whieh in Hallman got out in 1890 . The introductory paragraph to the catalogue reads:
We have exhibited only three seasons, from 1885 to 1887 inclusive and have met with perfect success. We prizes, diplomas and medals, than first other herd with whlch we competed, other herd with which we competed, and we faced the best herds in the country. Some of our animals were never defeated by anything but members of our own herd. Had we exhibited all along we have every reason to believe that our efforts would have been crowned with equal surecess,"
One of the first sirea used in this
herd was Prairie Aigel Prince herd was Prairie Aaggie Prince. He butter record of 20 lbs . 1 with a good reeord in those days. Another noted animal used was Netherland Statceman Cornellus, a grandson of Netherland Prince. Taking his herd as a whole, Mr. Hallman then had the best breeding of the day for show and grand animals, His old cows were grand animals-Mr. Hallman believes
fully as good ns the the oocarion of the best to-day. On brook Farm he showed visit to Springbrook Farm he showed me some of the ins reconds of productiou ever kept In Canada. For instance he had the records that he had taken from to the New Brunor Rooker, a cow sold a threc-year-old she produced 7.815. As 1 oz, of milik in eight months, This record was made without forced feeding and while the heifer was milked three times daily for a part of the time, the last milking at night was atways at six o'clock. Another famous individual in this herd, Dreamy Eyes, that won from Cornelius Tensen Eny the show ring, made $1,570 \mathrm{lbs}$, of milk in show ring, made 1.570 lbs, of millk in a month as a three-year-old.

Holsteins Were Not Popular. roing well with Mr Hall all was not going well with Mr. Hallman, In spite of his show ring successes, hls breed was not popular, and he could not get even reasonably good prices for hls
stock. Fifty dollas stock. Fifty dollars to $\$ 60$ was a good price for a pure bred Holstein bull
ready for service and, ready for service and, compared with the prices which had to be paid for
the cattle, the selling price the cattle, the selling price was not profitable. Mr. Hallman could not always atford to keep the cattle that he desired to, and when selling good animals, he knew of a certainty that he would meet them again in the show ring. Fe usually held his own, however, as he had the faculty of selsecting
and feeding and feeding.
"People called me crazy and foolish to stay in the business," remarked Mr. Halman to me once when speaking of this difficult portion of his career as a breeder. "About that time, however, I took a trip to New York and saw the great herds there. I saw what Hol. stelns could do under right conditions which I didn't have a chance to sive my cattle. I knew that the Holateins would do equally well in Canada, and looking ahend I knew that they would soon find a place in my own country. I knew what was before them as producers of both milk and beef."

A Good Farm Purchased.
In the meantime, Mr. Hallman had cransferred to another farm, after 15 years of almost wasted effort on the
(Conioluded on page 13.)

## Garreth <br> Made in Canada <br> Money Savers for Farmers

## DONT eat more dinner than you can hold simply becanse

 the cook has prepared more than you can eat, 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 doh't need merely because it's cheap. If Robinson Crusoe spendthrift. But, when at moderate prices, then is your time every-day need, selling Sueh products will save you money to economize by buying. modities. This page describes seven of them. Sold by good dealers everywhere.
## Everjet Elastic Paint

Wo have a product called Everjet Elastio Paint that will save you many a dollar every year. It is a wonderful nof paint. Applied to ready roof. appearance. Everjet is invaluales $u$, m lealoproof and improves their appearance, Everjet is invaluable for $\mathrm{A}^{\prime} \cdot \mathrm{m}$ implements. Protects them earbon paint mades. Good now, It never peels, scales or cracks. The best carbon paint made. Good wherever you have exposed surfaces. Try a can. Everlastic Roofing
Insurance agninst wind, weather and water can be had very eheaply by laying Everlastic Roofing wherever youshave a slanting roof. The best
"Rubber Roofing" on the market af the price It it Rubber Roofing" on the market at the price, It is easy to lay, costa littie and gives satisfaction for years, Junt the thing for barns, out-
buildings and poultry houses. Comes in rolls of 12 or 3 ply roll 36 inches wide. You could pay twice as much and not get as goed

Carbonol, Disinfectant and Deodorant
The most necessary thing you could have around the house is a bottle of Carbonol. If is the best disinfectunt, healer and eleanser ever made. which you clean house. Heals euts and wound put some in the water with Wonderful in the sick room because if wounds prevents blood poisoning. your atable and hen house elem, and drive fites away from. It will keep your cattle pens. The best thing you could have for a humdred different uses. Get a bottle today.

## Creonoid, Lice Destroyer and Cow Spray

One of the littie things so often overlooked is the relation between constock is infested or worried by fies rosults cannot be secured if your live stock is infested or worried by flies, spray your horese, cown, pig-pens destroys vermin and lice. Kecps fies away, Makes heality pormanently happy cows, good teapered horses. More flenh from healthy porkers, More egres from your hens. More milk from your cows. Follow direo nions carefally.

## Amatite Roofing.

Amatite Roofing is distinctive for two rensons-its hright attractive, sparkling appearance and its great durability, It has wide fame, too, as the roof ing that needs no paint. Its mineral surftice is waterproof and fire resisting. Amatite is mado in rollo, each roll containing enough to cover 100 square
feet with a 3 inch lap,

## Barrett's Grade One Liquid Creosote Oil

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Barrett's Grade One Creosote Oil. 1 t is the hest wrod preservative on the market. Penetrites doeper than any other Creosote prepervative on the accomplishes more? Weoper than any other Creosote product. Hence it of timber renewrals, iccan show you tests to prove this, Save the expenso to'molisture or earth, preserve it with Warrever you have wood expoeed

## Elastigum W/aterproof Cement

Many a farmer or hoose owner has naved, the day, by having Elastigum handy. This tough, elandc, adhesiye cement is a wonder for those quick repairs that are daily coming up. And it makes those ropairs permanent. If you have a loak to fix, a oint to seal, upe Elantigum. Unescelled for joining or re-
lining gutters of wood or metai, and for lining gatters of wood or metil, and for flaihings around chimneys. Elantifrum is a real "handy man" and you ought to have it on hand. Good for a handred uses.

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## What is an Internal Bath？

## By R．W．BEAL

Improvement of Potatoes by Selection

## By Prof．C．A．Zavitz，O．A．C．，Guelph

W

WHaT I term Individual Hill an －uber Selection for potato Im －
Much has been said and volumes sary for the attainment of happineas
have been wribten describing at length but the most esaential thing the many kinds of bachs olvilized man has nadaiged in from time to time． Every possible resouree of the human mind has been brought into play to tustion new methods of bathing，but portant as well as the ，hose most tim－ of all baths，the＂Internal beeneaticial ofen given Ilttlo＂Inought Thath，＂has been given little thought．The reason
for tuls is probabily due to the fact that fow people seem to realise che tremendous part that internal bathing plays in the acouiring and maintaliz ling of health
to deflne an internal a dosen people have as many different，you would and the probability is that not one of them would be correot．To avoid any misconception as to what conatitutes an internal bath，let it be said that a fernal bath，than a bill of fare is dinner．
If It were possible and agreeable to ple to witneas mass of thinking peo－ ple to witness an average post mor－ dhe things they they weuld see and prove of such instint leara would press them so profoundly thit and im argument in favor of internal furthe would be unnecessary to bathing them．Unfortuantely，however，it is not possible to do this，profitable as such an experfence would doubtless prove to be．There is，then，omly one other way to get this information into their hands，and that is by aoguaint－ ing them with such knowledge as will enable them to appreciate the vilue of tucing necungits－sought－for health－pro－ ing necusalty．
the thing is necassary som a very lit－ fimprove their physical sometimes－to Also，they liave almost no conception of how Hitle carelessness，indifference or neglect can be the fundamental cause of the mont virulent disease For instance，that univerasal diaorder fuffering，known as all humanity is suffering，known as＂constipation，＂ ＂ayto－intoxication，＂＂auto－infeotion，＂ and a moltitude of other terms，is not only curable but preventa＇ble through bething．
How many people realize that nor mal functloning of the bowels and a olean intestinal tract malre it impos－ slble to become sfok？Malre it impos－ day is only fily per cent．efflcient．＂ Reduced to simple English this means that moet men are trying to do a man＇s portion of work on half a man＇s power．This applles equally to wo－ men．
That it is impossible to continue to do this Indefinitely must be apparent to all．Nature never Intended the delicate human organism to be oper A machlne nudred per cent，overhend not break down，and the body and tainly cannot do more than so niachine． There is entlively too thinch unneces－ sary and avoldable sickness in the world．
How many people can you name， Imeluding yourself．who are physical－
ly virorous，healthy and strong？ number is appailingly small．
It is not a complex matter to keep and in these out it fakes a little time． have time to do erenuous days people
that of giving their bodies etheir pere－ per care．
Would you bolleve that five to ten minates of time devoted to systematio internal bathing can make you hent thy and maintain your physlonl eff1－ ciency indefinitely？Grantiag that such a simple procedure as this will do what is claimed for it，is it wot wonth while to learn more about that which will accomplish this end？In－ ternal Bathlag will do this，and it wlil conditions of heople of all ages and in all conditions of dealth and disense．
People don＇t seem to realize，strange to any，how important it is to keep waste body tree from accumulated body－ waste（polsons）．Their dolng so blood prevent the absorption into the the body．the poisonous excretions of vitable regult health would be the in If you woul
If you would keep your blood pure， your heart normal，your eyes clear，
your complexion clean，your keen，your blood preseare normal your nerves relaxed，and be able to enjoy the vigor of youth in your de－ clining years，practise internal bath－ ing and begin to－day．
Now that your attention hes been caired to the importance of internal buthing，it may be that a number of questions will suggest themselves to to know WHAT wili probably want WHy WHY people should take them，and the WAY to take thom．These and countless－other questions are all an－
swered in a booklet entitled swered in a booklet enthtled＂THE
WHAT，THE WHY and TH WH WAY OF INTBRONAL BATHING，＂ by Doctor Chas．A．Tyrrell，the in ventor of the＂J．B．L．Clascade，＂ whose lifelong study and research along this line make＇him the pre－ Not only has internal halling subjeot． and prolonged Dr．Tyrrells of sayed but the ives of，Tyrreils own iffe， but the lives of multitudes of in－
dividuals lave been equally spared and prolonged．No other book has ever been written containing such a vast amount of practioal information to the business man，the worker and the housewife．All that is necessary do secure this book is to write to Dr． Tymell at Room 385， 267 College street，Toronto，and mention College read this artiole in Farm and Dairy and same will be immediately Dairy， to you free of be immediately malled Perhaps yon reall oost or obligation．
Fervans yon realize now，more that and if the fruth of thcse statements， and if the rending of thls artiole whil result in a proper appreciation on your part of the value of faternal bathing，it will have serves fif pur poees．What you will want to do now is to avall yourselt of zene opportunity for learning more abuat the sabject， and your writing for this book wif give you that Information．Do not put off doing thls，but send for the book now，while the matter is fresh a your mind．
＂Procerastination is the thitef of time．＂A thiet is one who steale aomething．Don＇t allow procrastina－ tion to eheat you out of your appor cunity to set this valuable informa－ tom，which is free for the asking．If is minatural to be sick．be henkhy．It natural，when it is asoh Why bervin－ thing to be wedt？－（Advertisement．）

## You＇ll Find the Advertisers fim farm and dairy advertising reliable goods．They want to know you；alable．They are where you asw the Ad．When writing them don＇t forget to tell them gou saw the Ad．In FARM AND DATRY，

rovement can be carried ont the family field，the marlket garden， where potatoes are the nursery plot where potatoes are grown．In ordin ury eulturs，however，the potate sets usualiy vary in sife，and conteguently， the hills vary in produetiveness．In order to select most readily those hWls possessing the power of reproductng aesirable oharacteristies care should which are to plant tubers or sets which are uniform in sise．In com－ menelng the work，therefore，it is not only important to ase the best varie－ ty obtainable for the purpose，but nino to give the potatoes in the individual hills an even chance for develop－ ment．
When the crop is begianing to ripen there is frequently a noticeable varia－ tion in the appearance of the plaits． This permits of a selection of the hilis having vigorous plants with the best follage 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 orop can be another week or ten days and stil recessary some ituter date，and if socording to the appesrance changed plants．A few days after the tops die the selected hills can be carefully dug with a potato fork and examfned in－ dividually．The product of etach hith showing a good yield of finiform twhers of desirable appearance and Iree from scab，rot or other tifseases can be placed in a separate bag－and numbered．The selected potatots chould be kept in a cool，dry，dark cellar durlag the winter and early spring．
At planting time a uniform number of the best potatoes from each bag can be selected and each tuber cut thee lensthwise and once crosswise， thus making four sets comparatively even in weight．Two feet could be allowed between the sets and three foet between the tubers in every row aine teet of the row．The leneth real aine feet of the row．The length of the rows，theretore，would be 45 feet
if ifive tahers 54 feet if if five tabers， 54 feet if $s t x$ tubers， and 63 feet if seven tubers wec 9 used from every wag．Three feet is a a zood ate rows．Comparative er tae alis ar can be made of the tops in the fig season and of the potatoes th ow． sutumn，which have potatoes in the from the findividnal sets，from produced irom the individual sets，from the in－
dividual tubers，sad from the fndivid－
ual hills．This gives an exceptionally fal hills．This gives an exceptionally fine opportunity for deteruining the comparative results of the difrerent selections regarding vigor or srowth， freedon from direase，and type，unf－ formity，production and quality of potatoes．Tubers can be fatian of the best hills，or from the beet－froum of four thills，or from the beat rows for further selection for comparative tents，or for both．The writer re－ commends this Individual hill and tuber selection method as one of the best and most Interssting whloh can be followed in obtaining an improved strain of potatoes，elther for home ase or for commercial purposes．
In developing the foregoing system some intereeting work has been done at our college．For inatanee，Individ－ Dal hill selections were made from the Davies Wartior potatoes in 1810 and
hgain is 1911 ．Eleven of the beet asain is 1911．Eleven of the beet strains rearaising．from the selectlons
have been tasted in duplicate in each of the past three years，and the follow－ Ing table glves the average renults of
each of four of these strains as temted

## 1915：

Selecticas．

## ，

1 $\frac{8}{3}$
$\begin{array}{cccc}191.3 & 258.6 & 127.1 \\ 8 & 145.0 & 177.1 & 86.6\end{array}$
These strains were all starte
characteristics and yils of promising characteristica and yot the ductiveness．The difference． potatoes in the tests Davies＇ potatoes in the tests where do lection was used gave an 136.6 bushels per acre per annum the iname perlod．This work has bee valuable is furnishing Davies＇Warrior potatoes given an average anaual yield one hundred bushels per sere the ordinary varlety．It ha phasized the value of the app if provement of the potato er

Calves on Skim Milk
 WO lota of calvee were ted North Dakota Experimental Sta milk way，the other the skim milk whe At the end of six months，the Fhb，＂Which＇are the skim aleek and The two lots looked aleek and thrifty．Mr．Peters， Ausbandman of the Fxperiment 8 ion，explained that the experi was undertaken to determine how wel datry calves could be grown on skim milk．
ed So，whole millk，From then on，Lot and eight pounds skim mill while Lot Nounds skim milk daily， of akim mill and one pound flax seed，which replaced the of bolle out in the cream．During the then
out replaced the fat take three months L．ot No． 1 made firs what larger gains and looked a litil more thrifty，buhduring the next thre months，Lot No． 2 eaught up． months aeveral experienced dair tle breeders pronounced the
Lot No． 2 equal to those in Lot
dividual merit and dalry development When the onlves were five weeks old they were sliso fed clover grain ration made up of egual parts whole oats and bran．To this was ad ded onetenth by weight of ilnseed meal．It cost \＄19 less per head to feed the slcim millk calves than those fod half whole millk，to the age of sir months．

The reorganisation of sohool boards the doubling of the expenditu introduction of consolidated would not usher in an educationa tnillenium，but they are the things that are manifestly in the direct line of progress and without which we an not going to get very far from on present condition．There was a time hen Ontario made the proud boas of being in the very front tional progress．That time seems have passed，so far at least as rura aducation is concerned． have to arouse oursefves state of complacency and self stion，crane scoffing and self－satisfac ton，cease scolfing at the new move
ments that are purting others in ments that are putting others in the front rank，learn from what is going on around us，and join the march，of we shall soon be hopelessly in the rear．－Riohard Lems，M．A．，Inspeotot
Washing the hasis betore millkieg
rould be atmost s joke on some farms；but all the bemt delrymen do it

 he
have
had

## A Veteran Among Holstein Breeders

first place purchased. He had never rowed money to buy his first Holsteins been satisied with his farm, realizing in his young manhood. He is still that on it he could never attain to his much in demand as a fudge of Hol-
ideal of what a farm should be. $\Delta \mathrm{c}^{-}$steins at the larger fais, in deal of what a farm should be. $\Delta \mathrm{c}$ - steins at the larger fairs. In his her cordingly he purchased 160 acres of he has some of the best blood of the the farm he now occuples. Seven breed and his work as a breeder is acres have been added since. The still far from complete. What a satbuildings were all on the farm, such isfaction it must be to this veteran as they were, wich the exception of the breeder to witness the present day
sila. Mr. Hallman had had a wooden popularity of a breed which he cham. silo. Mr, Hallman had had a wooden popularity of a breed which he chamsilo on his first farm, one of the first ploned so ably when admiration for built in the county. On his present the Black and Whites was considered farm io the arat cement silo in Water- "foolishness"
loo county, and miznt remarik on the side that on the instutute platform Mr. Hallman has made many a convert for corn growing and the silo.
The old stables have been remodel. The the farmer better roads freled, until now they are light, sanitary quently mean the difference betweer, and thoroughly up-to-date. Recently Ernest Flagz Ayres, the top part of the barn has been re- eer of the Oregon Agricultural enginbuilt and red paint with white trim- lege in a lecture io Agncultural Col mings have made the outbuildings on dents at that mings have made wie outbuindings on dents at that institution.
with the quality of the splendid Hol. with the quality of the splendid Hol- bushels of potatons in ber held 1,000 stein catte that they house. The fing for a pood price in his cellar, wai: house has been improved. The plant- 92 cente in $\mathbf{M}$ price. He was offered ing done years ago when Mr. Hallman delivered in town, and the roads were first came on the farm is now begin- so bad he coutd not haul over them. of one of the finest farm homes in On when he finally got them to market, trifla. Att of the 180 acres has been his potatoss brought him 80 cents a cleared except 30 acres of swamp and bushel. The bad roads cost him $\$ 620$, susting land. On this of swamp and man has hind him and heople are worries beank him why he does not retinning to My greatest deas not retire.
"xy greatest pleasure is right here," hiave not yet finished my work. that I had success in the show ring. I now want to gombine records with desirable contormation, and I feel that with time I can do it. I had to work too hard in the early days to care for record cows. Golng to town to retire, I working with pick and shovel or dy. tag."
Connection With Holstein Association,
This sketch would not be complete without a reference to Mr. Hallman's comection with the Canadian Holsteln Breeders' Aswociation. In one capacity or another Mr. Hallman has been on the official board of the Association since itsteln irst inception when a few Holstein eathaniasts mot in the sheds at the old Toronto exhibition and orgraized the present Assoclation. There were fust a half a dozen at that meeting and Mr. Hallman was appointed one of a deputation to meet at the old Parliament Bulldings to get a permit to issue a herd book. They could not. however, get a charter, as they wanted a Dominion charter, and all they could get at Toronto was a Provinclal one, Again he was on the committee appointed to draft a set of rules and reder to get out their own herd book in 1892. Two repurts were submitted in thls committee, one on getting out a spectal herd book for the association. and the other on amalgamation with the Agrleuftural and Arts Eoclety, The the Agricuiturat and Arts society, The
first proposal was voted down on the arst proposal was
ground of expense.
Mr. Hallman was elected president of the Assoclation that year, and E. B. Smith and he were appointed a comwittee. With full power to make arrangements to go in with the Agrieultural and Arts Society. Mr. Smith 6ot the idea that there was too much shorthorn infliance in that assencietion and he offered to do the same work for the same money as the Agricultural and Arts Soclety would do it. Mr Hallman took things in his own hands, and called a meeting of the Associa. for at Guelph to make arrahgements for their own herd book. At that meeting the herd book was established and the Holstein Association started on the independent road that it has since followed.
a breeder and is still as enthusiastic a
Bolsteler that he had when he bor-

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Read not to contraftict and to confute, nor to belleve and take tor granted, but to welsh and con-
aider."-Racon.

## The Nor'West Farmer

Wwish to extend our sympathy to the Nor' West Farmer in the loss it has susvained in the dentruction by fre of the building and plant of the Stovel Company, PubLishers, of Winnipeg, in which it was edited and printed. The Nor' West Farnier, 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 inisures its speedy recovery from the calamity with which it hes been overtaken.

## Condensery S:heme Exposed

THAT 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, acco-ding to the prospectus, to eatablish 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 thelr inflk, naturally appealed stronsly. To the paper issued by the company, the sounding title, "Seven Per Cent. First Mortgage Gold Bonds," was given. A premium of sisty dollers of common stock was given with each $\$ 100$ bond. Te make the bond appear more substantial still, arrangements had been made with a trust company, which egreed 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, delifered at the condensery when built. The fmpreasion was given that the Department of Agriculture approved of the forination of the company.
To the uninitiated, the scheme was attractive.

Suhmitted to the scrutiny of ah expert, however, It whs found that it lacked practically everything that charaoterizes a sound business proposition. Saturday Night, in exposing the scheme, pointed out that the first prospectus of the company violated the Ontario Companles ket, in not glving the proper statutory information. Not having tangible assets, the company was not entitled to issue bonds. The trust company was playtag safe in guaranteeing the so-called bonds, is the twenty-three dollars at the end of thirty years at ordinary rates of intereat, 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 givon an uaqualifed denial.
The publicity given to the scheme and the prompt action of the local distriet representative, seems to have thwarted the plans of the prometers and to have resulted in the fermers who invested having received their poney back. It fs stated, however, that these same promoters have been succesafut is disposing of $\$ 50,000$ worth of stock in another condensery. They wul Hkely stay in the business as long as it can be made to pay. But that will not be long if datry farmers 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 provisces, as there is in Manttoba, that requires a coropany to satisfy the Attorney-General's Department as to its rellability before it can offer its stock to the publie?

## Canada's Railway Problem

THim necessity of a loan of $\$ 13,000,000$ to the CN.R. and another of $\$ 8,000,000$ to the Q.T.P., in order to preserve the solvency of these two rallway companies for another year, has had the effeet of again turning the attention of the people of Canada to the question of the nationalization of rallways. 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 rallways go into the hands of recelvers, or meeting the annual deficits of the companies until population has overtaken raflway conatruction, or of taking over the roads and operating them at a loss for an equal period of time. To the first of these alternatives it is objected that should the rallways 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 apectacle of seelng the millionalre promoters of the roads walking off annually With all they can earry 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 declde.

Although it is an easy matter to overestimate the damage that would result if the railways involved were to go into the recelver's hands, and although the burden of meeting annual deflelts would not be leasened if the people took over the roads, there are other reasons why the roads should be nationalized. Rallways are public service atiltiee, 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 effielent and economical service. Wisely distributed, thay would pay their way and not be burdensome. If they are operated at a loss it is beoause thetr lines have been errtended beyond the neede of the people. Annual defcits, made up by annual draughts on the public treasury, although a very etrong argument againest
leaving the building of rallwaye in the hands tilled Empire wreckers, is no argument against nationalization. Taking over the roads will not atone for our arrore in the past, but it should enable us to evade a repetition of such errors, Canade has accumulated rallway 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 achleved 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

$I^{\mathrm{N}}$N theory, the income tax is superflelally plausible; in practice it is unworkable. That it is unworkable is fully borne out by the findingo 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 $\$ 890,000,000$, whitch ex ceeds by $\$ 111,000,000$ the total amount raised by the tariff during the same time. In the case of one Standard Oll magnate, he shows that the fncome tax due was $\$ 341,000$, whereas the amount actually paid was only $\$ 58,035$.
The discrepancy between the amount collent able and the amount collected may be put down by nome as due to the bad administration of the
law. It may be held that in Canads the tax law. It may be held that in Canada the tax col lector is not so easily evaded. Such a position, however, is untenable. Canadians are as effelent
tax-dodgers as thelr Yankee cousins. The dis tax-dodgers as their Yankee cousins. The discrepaney is primarily due to the impossibility of collecting the income tar with any pretense of
uniform furtice. The fncome of the man uniform Jurtice. The fncome of the man draws a straight salary is easily asseased, but how is the income of the doctor, lawyer,
engineer, and others, whose incomes are in engineer, and others, whose incomes are in the form of fees, or of the business man, whose income is in the form of intersat or profits, to be even approximated. To say it is a reflection on the part of our fellow eltizeas to suggest that they would defraud the country of its lues may be polite, but it does not uhow a clear fnatght Into the human character as recent public dis-
closures have rovealed. One of the most promclosures have rovealed. One of the most prom-
fnent men of pis day in Canadian public and finanelal life endeavored, by the disposition of his property, to defraud the government of over halt a milition dollars of seeceston duttes. If men will falsily their wills, they will also falaify their Income statements. The experience of the Unjted States has shown that the income tax is a failure, its chlef characterletic befng that it puts a premium upon dishonesty and a check upon indutry. The less we hear of such measas of raising
revenues in Canada the bettse.

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

It is absolutely useless to expect a solution of the rural problem from any source outside of the furmers themeelves. We need never expect our merchants and manufacturess and lomber magnates and bank presidents and politiclans to bury their selligh interests and Advocate meanures that will help the farming community, even on the broadest national in the slightest degree.--w. C. Drury.

## The Farm Flower Garden

## Wm. Hunt, Floriet, O.A.C., Guelph.

TH5 prevaling scarcity of tarm one of the most attractive teatures on help owing to so many of our the margin of even the most pretent. for King and Empire, and the secur- oumber Vine garden. The Whit Or ity of our Canadian tomes, makes it also another good elfmiting lobata) is quite possible that the farm fawn and seeds of this and elmoting vine. The garden may of necessity have to be as Convotrulus (Masturtiyms as weli somewhat neglected until the war is be sown out of doors whare they can over. Ponsibly a few practiow sug to grow abcut the thind week in May gestions as to the easlest and best A Hrew abcut the thind woek in May. gestions as to the eaelest and best A Hetit loam soll, ouriohed with some
way to help decorate and brighten up well notted baryard way to help decorate and brighten up well notted barayard manure and flowers may be acceptable, so that dug in, wiek lead sofit from the buah flowers may be acceptable, so that dug fn , whit be best for these climbour boys may not return and and the ers, to get the best resuits from them. and forlorn lootring Wither desolate in riew, the following notes on plants specfally suttabte for the sur roundings of tarm homes may be of service at the present ttme.

## Climbing Vines.

No plants fimprove the appearance and make even the most platn and unpretentious burtidiog look pretty and more homelike than do tratilng vinea. Ampelonsis to grow and secure is the Ampelopais Quinquetolla (Virginian Creeper) or the Ampelopsis Bngelmanna, the laot named being of a
more eelfelingleg nature than the more oeir-cingieg nature than the
first named. Both are quite hardy in Canada. Ampelopels Feltehif (Booton lvy) will celng weli to a stone or brick wall, but in not quite as hardy
as the two first named. as the two first named.

Hardy Perenniale.
A few of the best hardy perennials that may be planted any time during the month of May, are Rudbeckis (Goldan Gtow), Mises Melish (Sumfower), Peronetal tarhopare and Asters or Miloheluns Dalates. These grow to a helght of from tour to slx foet and are saltable for planting as backeround.

## Hardy Shrubs.

The Lilacs, of whioh thore ane now such a number of beautiful varieties of numerous oolors aad shades rang ing trom white and lilae to the deepest purple, are still one of the best lowering shrube grown. Plant a group of four or five kinds of Ciflacs at the elde of the lawn. Their protuse and aweetly pertumed flowers will tend a obarm to their surroundings wherever crown.
Another useful clase of flowering shrubs that will grow three or four feet in helght are the Spireas. Two of the beet are Epirea Van Houttel (Briden Wreath) and Splrea Lemolneli, not quite as atrong growing as is. Vas Houttel. Bpirea arguta thet grows caly two or three teet in heieht is atso a aplendid variety.
Elowering slirubs give endleme pleasure to the owner with very little oare and attention. The vines and eliruts atready mentioned ahould be planted at once, the month of April really being the best time to plant them. An evergreen sharub or two, such as the Thuya oceldentalis (White Cedar) or the dwart growing Thaya Hoveyil, or a plant of the hardy Junfper venusta will also telp to fead a variaty of color to the lawn. Ever greens can be planted unth the end of May euccenstully.

Annual Climbing Flowers.
The best and most eftective eltmber srown from seed ts the Cobea scandens (Oup and Scucer Vine). Seede of this may be started now in a hot bed or in.the whodow. Do not piant
them outalde untal well on in Juene until the weather fis well on in June them a good light rich motis and Give Slowl but surely the farmer if ous growth and numbers of thelr odi sary and most fmportant fanotor th the looldng purple and wiatte oup and material prosperity of the great looking purple and wiate oup and buman family, and with the realigaforethe of bimer in the fion that upon the proper development
 or stump of a tree at the slde of the reats its future, the convilition has some climbing Nasturtioms makes must be educated.

## These are the easleat co crow, and

 the most profitable of all summer flowers for the farm garden. The corms (balbs) cain be garden. The stores from $\$ 2.50$ pev 100 , or about 30 a corm, ap to quite high prices, but good flowars can be had from the about four inchens, Plant the cormas about four inches deep and six liches apart in grolups or rows 如 a munny open part of the garden. They can be planted any time from the necond week in May until carly in June, the third week in May being about the best time. Any fairly good garden sult them of too heavy a matare will splendid flowers wor They make ond of Joty until ar outting from the ont of daite qute in autumn. Ont the spikes if wanted for fadoor decoration when two or three of the Arat lower flowors have opened. Gladioli will well repay for any trooble or care given them.Sweet Peas ahould be sown at onoe if not already sown. They tille a deep, rich soll and an open, fairly ounny position. Sow the seed about four inchee apart $\ln$ a drill neearly two fuches deep.
Put chfolken wire or maple bruah up for aupports about five feet in helght. Plok the flowers every second dey so as not to allow seed to form. If seed forms the plants will soon stop đowering. Sweet Peas are one of our best garden flowers.

## Other Varieties.

Other annuals auch as Asters Zhinntin, Ooreopails, Ten Week Stock Mignonette seopd ahonlasturtium and Misnoaette seed ahould be aown betore Ohe end of May in ala open, suany part of the border. The seed of these ghould be sown about halt an inch in depth and the plants thitined later on from six to eifht inches apart aceconding to hable of growth. These apmuals Just named grow from one to Uhree feet in holght. Good dwart growing annuats for an edgligg for the border are Dlanthus (Cblnese Pinks) Sweet Alyssum, Gandytuft, and Portulaoca. if you have a very hot, dry rako the the flower garden, dig and ralve the ground fine and sow some Portulacea seed on the surface and rake it in tieltily. During the hottest months of summer you will have a very showy bed of flowers with uttle or no care and attention. The piants of all these dwart growing annuuls apart to get the to about atx inches It is set heo beat rosuria.
It is surprising the pleasing effect a few plants and flowers have around a home. These mentioned have been mith as litule care and trouble pos sible required to oblala a bright and ploasing effect.

Slowly but aurety

HINMAN THE UNIVERSAL MILKER

made m canada
When You Write -- Mention Farm and Dairy


## (19) UR opportunities to do good are our talents. -J. G. Holland. <br> * *

## God's Country and the Woman

## (Continued from last week.)

AND then, suddenly, she slipped had placed for her, and buried her face in one of them with a moaning grief that cut to his soul. She was sobbing now, like a child. in
thils moment Philip forgot all restraint. He leaned forward and put a hand on her shining head, and bent hie face close down to hers. His free hand touched one of her hands, and he held it tightly,
"Listen, my Josephine," he whispered. "I am not golng to turn back; am going on with you. That is our pack. At the end 1 know what to expect. 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 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 preclous to him than words, and he knew that he had won. Still lower he bent his head, until for an instan his Ilps touched the soft, living warmth of her hair. And then he leaned back, freetag her hand, and into his face had leaped soul and life and aghting strength; and under his breath he gave new thanks to God, and to the sum, and the biue sky above white from behind them cime skimming over the water the slim birchbark canoe of Jean Jacques Crolsset.

## GHAPTER SIX.

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 belleved that she was conscious of his act he would have begged her forgiveness. He waited, breathing softiy, putting greater sweep into 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 tovely 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 ighing tension which she had been ander, were gone. Until she looked at him through her tears her presence had been llke that of some wonderful and unreal creature who held the control to his every act in the cup of her hands. He thought no longer of himself now. He knew that to him she had rellisqulstied the mysterlous ffigh under which she had been struggling. In ther eyes he read her surrender.

And then, in the moment's sllence hat followed, Philip threw back his ead, and in a voice almost as wild and untrained
"Oh! the fur fleets sing on Temiskaming,
As the ashen paddles bend,
And the crews carouse at Rupert's House,
At the sulien 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 'erons the red moon's face
From the white wind's Aretic wrath."

The suepense was broken. The two men's volces, rising in their crude strength, sending forth inte the atill wilderness both triumph and defance, brought the quick flush of living baek into Josephine's face. She suessed why Jean had stapted hls chant-to give her courage. Ste kriew why Philip had responded. And now Jean swept up beside them, a smile on his thin, dark face.

The Good Virgin preserve us, M'sleur, but our volces are like those of two beasts," he cried.
"Great, true, fighting beasts," whle pered Josephine under her breath "How I would hate almest-
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," sald Philip. "A the end-in the fourth month-it was more like the walling of madmen. MeTavish died then: a young hale Scot, of the Royal Mounted Afler that Radisson and I were alone, and
sometimes we ueed to see how lon we could shout it, and always, when we came to those two last lines. she interrupted him:
"Where the gray geeae race 'cross the red moon's face
irom the white wind's Aretle 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 fron out on the barrens, and we woul walt for the meaking yelping of then before we went on. They haunted ut like litte demons, those foxes, never once could we catch a glimply of them during the long night. T helped to drive MeTavish mad. died beginig un to keep thamfrom him. One day 1 wes wakent by Radiason crying like a baby, and when I sat up in my lee bunk bo chught me by the shoutders and told me that he had seen something that tooked llke the glow of a fire then sands and thousands of miles It was the sun, and it came jus time."

And this other man you speak of Radisson $7^{\prime \prime}$ she asked
"He died two hundred miles bar replied Philip quietly, "But that is umpleasant to speak of. Look ahead Inn't that ridge of the forest glorioks in the sunlight
She did not take her eyes from his face.
'Do you know, 1 think there is nomething wonderful about you," she sald, 30 gently and frankly that the blood rushed to hls cheeks. "Somo day 1 want 10 learn those words that helped to keep you aidve up there. want to know all of the story be cause I think I can understand. There was more to it-nomething after foxen yelped back at you?
"This," he sald, and ahead of them Jean Crolsset rested on hls paddle to Iisten to Philip's volce:
"My seams gape wide, and I'm toseed amide
To rot on a lonely shore,
Whate the feaves and mould like of mboud enfolds
For the last of my trails are o'er But Ifoat in dreams on Northland atreams
That never again III see,
An I lle on the marge of the old Por age,
With grief for company."
"A canoet" breathed the girl, looking back over the sunlit lake
"Yes, a canoe, cast aside, forgotten as sometimes men and wometr are for sotten when down and out."
"Men and women who live in dreams," she added. "And with such dreams there must alarys be grief:
There was a moment of the old pmin In her face, a little catch in her oreath, and then she turned and look. ed at the forest ridge to which he had called her attemion.
"We "o deep Into that forest," she sald. "We enter a creek juet beyond where Jean is waiting for us, and Adare House is a hundred miles to the south and east." She faced him with a quick smile "My name is Adare," the explained, "Josephine Adare,"
"In-or wast" he asked.
"ln," she nald; then, seeing the coreeting ehnllente int his byes she added quickly: "But only to you. To all others I am Madame Paul Dar cambal."
"Paul?
"Pardon me, I mean Philip."
They were clowe to shore, and fearing that Jean might become musplelous of his tartiness, Philip bent to his paddle and was seon in the hall. breedls wake. Where he had thourht there was only the thick forest he
xati a narrow oponing toward which Jean was sppeding his canoe. Five minutes jater they passed under a boughe wast of overianging spruce bougno into a narrow stream so atill and black in the deep shatows of the foremt that ic looked like ofl. There was something a little aweeome in the suddenness and completeness with which they were swallowed up. Over their heade the spruce and cedar tops met and shut out the sunilght. Un both stdes of them the forest was thlek and black. The trall of the strenm itself was Hike a tunnel, stlent, dark, meysterious
There are fow who know of this break ints the forest," sald Jean in a tow volce. "Listen, Mraleur!"
From out of the floom ahead of them there came a faint, olly aplash-
"Otter" whispered Jean. The stream is like this for many miles, and it to fall of life that you can never see because of the darknesa."
Something in the atiliness and the gloom held them sHent. The canoes slippsa along like shadows, and sometimes they bent their heads to escape the lowhanging bougha, Josephine's face shone whitely in the dusk. She was alert and listening.
"It love this ctream," she whispered. It is tuil of life. On all sides of us, in the torest, there is life. The indians do not come here, because they have a superatitious dread of this eter nat stoom and guiet. They eall if the Spirit Stream. tiven Jean is iltile oppressed by it. See how closir ly he keeps to as. I love it, because I love everything that is wild. Listen! Did ycu hear that?
"Mooswa," spoke Jean out of the gloom close to them.
"Yes, a moose," she aald. "Here is Where I saw my first moone, so many years ago that it is time for me to forget," she laughed eoftly. "I thimk I had fast passed my fourth birthday." "You (were four on the day we started, ma Josephine," came Jean's voice as his canoe shot slowly ahead where the stream narrowed; and then his volce came back more talutly: "that was sixteen years ago to day." A shot breaking the dead stillness of the sunless world about him could not have sent the blood rushing through Philip's velns more swifity than Jean's last words. For a moment he stopped hir paddlitug and leaned forward so that he could took close into Josephine's fice.
"This la your birthday?"
"Yes. You ate my birthday cake." She beand the strange, happy catch in his breath as he straightened back and resumed this work. Mile after mhe they wound thelr way throush the mysterlous, subterranean-like stream, snenking seldom, and listenine intently for the breaks in the desth Hike, stiliness that apoke of life. Now and then they canght the shoatly flutter of owly In the gloom. Ifke floating splrits; back in the forest sapltness snapped and brush erashed underfoot as caribou or moose caupht the man-scent; they heard once the montine, penffing inquiry of a bear close at band, and Philip reached forward for his riffe. For an instant Josephinets hand fittered to hls own. and held it back, and the darts glow of her eyes sald: "Dont kill." Here there were no big-eyed moosebirds none of the mellow throat sounds of the bruah snarrow, no harsh janetinga of the emnally colored jays. In the timber fell the soft footpads of creatures with claw and fang. maraudera and ontlawn of darkness. Tipht, sunshlee, everythint that loved the openness of day were bevond. For mors than an hour they had friven thetr canoes steadily on, when. as suddenIy as they had entered it, they sllpoed out from the eavernous stoomt Into the sunlight agatn.

## The Upward Look

Travel Thoughts No. 32
 The Planning, of Our Lives. Honce are diversities of opera thous, but it is the same God XII, 6.
How often we bave looked over pant months and thougthe that if We had knowa what was golng to we - wen, we would have been sure that often almo, we have borne it. How ound have begun to plangt we never happtness begun to plan the joy and us. Though there had in store for tions Though there are so many operanow that enter lato our lives, of moz now and joy, yet we nieed never chtrink at the thought of the great unknown tuture, because it is our God which plans and works all of them.
One afternoon the mate of tha Alaskan Ocean steamer invited us 20 go all over the boat. Gladly we accepted the invitation. We went down the spaclous stainways, then aarrow ones, untll lastly, the onty means of ones, untll hastly, the onty means of
descert were steep, narrow ladderdice steps. Away fown there, they explafied to us the workings of the bells. The men there knew not where they were golng, but had to obey the direotions promptly and explicitly. While there, suddenly swift clianges of these bells followed in rapld succession. As we were out at the wide stretoh near Dixon Eintrance, though the mate and men tried to rilde it, it was easily seen they were decidedly myatified
On our return above, we learned that some passengers had unexpectedly been transterred to another steamer. Though those men below knew aothing of what all those sudden ahanges meant, the officer, bigh up in the pllot house hnew, and he it was that gave all those orders. Then duty was almply to obey them.
Our great Captain above knows all the future. He never, never falls to give definite, explicit orders. Our part is to carry these out with ready. foytul cbedience.-I. H. N.

It is always regrettable if a woman gives up an aocomplishment acquired in girihood when she asoumes the responsibility of homemaking.

# 空静 Gif For Youre3nide <br> Is there to be a June Bride whose marriage 

 will mean a great deal to you ?And is your gif to be something expresshe of your deep feeling ? suinething fine and substantial-perhaps not
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## HOME STUDY

The Arta Courge may be tikn by corse ate must attend one session.
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## RIDER AGENTS W/INTED 

WHITE AND COLUMBIA WYAN-
DOTTES, LIGHT DOTTES, LIGHT BRAHMAS, B. C.
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Probably notuing helps more make a railway joumey really enjoy. 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 form of efficiency in the culinary art, the choicest provisions the market affords, prepared on the scientific principle known Your "Dietetic Blending."
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Beginners or adyanced players. One les
mon weekly, Iluatrations mare Hon weokly. Illustrations make everyday to cover cont of pontage and music plains everything in full. Ameriess Soloal of Meic. 75 Ial

## Amusement Dept.

Conducted by Marion Dallas.

SCMETime ago a hostess who it always looking for something quite out of the usual, decided to entertain her triends in thils unigue way. She had resolved to be more observant. She was going to take time to observe more intently the conmon objects, which greet our eye every day. To impress her resolve upon her friends she issued this invitation:

ARE YOU OBSERVANT?
Then come and prove it

## Friday Evening at eight o'clock.

 At "The Hermit"Naturafly everyone's curiosity was at concert, pitch. When the guests had all arrived, the company was diyided and sides chosen, as for a spell ing bee. The hostess constituted herself the teacier and began asking
questions of cach one. WWill No. questions of each one, "Will No. 1 please tell me does the Reeve of this township wear glasses? "Yes", answered No. 1. "Does he, No, 2?" she asked quickly of the second player. No. a promptly answered " No ". So it was found that as often as they

## satisfied <br> 100,000 CUSTOMERS

## PER NA EAON

have proved their worth. Housewives everywhere have found that the New 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.
It is clean and easy to care for. It burns kerosene-no soot, ashes, smoke or odor. It is mest comomical, 5 to 10 cents is the avrrage daily fuel cost per family.
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had seen the Reeve no one was posjtive as to whether he wore glasses or not. It was the same with several other prominent men. This question Went all down the line "Who is the Minister of Financer" "Describe the Union Jack", "Which churct has the highest steeple in the town?

## her questions.

oostene hostess then passed pictur postards with photographs of pub ic buildings. For one buliding there were ten different guesses. The last oral question the teacher asked was a simple one. She closed her eyes and Even for this question my eyes?' Even for this question there were many random guesses, but the qiestions aroused jolly controversy and good natured differences of opinion.

What a Watch Would Suggest
Before passing the questions around to the guests, the hostess sent a watch around and requested everyone to of serve it closely. When everyone had examined the watch, cards and pencils followed. On the cards were these questions.

1. Support of a flower? Stem; 2. The books of an author? Works; 3. Fousd on a five dollar bill? Number, 4. Sugkested by a doctor? Regulator. 6. Always found in a circus? Ring: of a bieycle? Wheel \& What a police mani should do? Watch: o Insecis? Ticks; 10. Kept by a secretary? Mi, utes; 11. Wedting anniversary? Minstal; 12. Decided in court? Case: is stal; 13. Decided in court? Case; 18
What every one has? Time; 14. What we give the hostess in parting?
Hands. Hands.

Further Observations
The next diversion required a little more preparation. A dozen or more bottles were partially filled with dif-
ferent flulds, each ferent fluids, each having a distinetive odor. Coffee, ginger ale, vinegser, lemonade, and perfume of various sorts, are all suitable. There should be a bottle of plain water.
A number was pasted upon bottle, and the guests were-provided with eards containing corresponding numbers, If possible put a few dr of black dye posisie put a few drops will not effeet the odor bottle. The dye The effect the odor.
and each person was tsld to table and each person was tsld to smell the contents and write on his card the
result of his investigation. No one uas atlowed to speak during the examination.
The answers provoked much amusement, especially the guesses in regard to the bottle of water.

Penny For Your Thoughts
This was the last ching given Observe." Cards or papers hed to to prepared with a list of questions and the fo!lowing "This commonest of all coins may well be a subject for close observance" was written on the card. Pernies were circulated freely;

1. A message? One cent: 2 . Ancient mode of punishment? Stripes: 3 . Mode of inflicting it? Lash; 4. Piece man? Bow: 6. A fruiti Эevoted young man? Bow; 6, A fruit? Date; 7. Place of worship? Temple; 8. Portion of a hill? Brow; 9."Youth and old age united? 1899; 10. A prominent quality in book agents? Check; 11. Best place in the spelling match? Head.

A Cobweb Party.
Now that warm weather is with us this magestion will be in season.
Have as many etringe as players, and bave all the same length, and either numbered or have the name of the player on a stick. At a given signal all the players pick up a stick and begin to unwind the cords which have been twined from tree to tree back and forward and in every avait. able corner. There muat be an endeaver to untangle easily no that none of the cords be broken.

Bach player follows his
dering courte and mis own wanresulte wien any of the linertiment resulte waen any of the lines croas. The one who reachee the end of his lines first is declared the vietor and geta a prize. Sumetimes favors or fortunes are found at the end of all the stringo.

## Wider and Shorter Skirts Predominate

Farm and Dairy patterns ehown in these columns are espectally prepared
 sonding Farm and Dairy most modern foatures of the parder pleane be careful to state battern，When
 terna to Our Foikn， 10 c ，esech．Address all orders to Pattern Popt．Form all pat．
Deiry，Peterboro，Ont．


## G

REAT fallinees in the eldita aeama lly construoted and conven
 or than thoos appenerns fuller and ahort－ enson．Fust founcest overnkitits in many nod verted oultinms hox plevite and rith
 drops in pointer at the froet，back and aldes，also panolep and bastle draperies， are acme of the atyle effocte from which
Wo may mile a chicioe when macin oummer mityons
In blousa，the bleth oolter in itn re－ through many whe deatro peomineoce，rather than extrume etyile，elting to the apen nock．It is pocitis，how over to have it the fruet．
LHetht efredes of tran，Heht and derk brown，and Dertiape more particuevity gray，are cowne of the moot populy vette，fine orepe and envidy margus－ boding a siont waringerle drampes，there

1027－1657－JAAty＇s Cootuma If you ane lociding for a neat oombination of a blouss and elirt here $f$ one that hould

 ahepherdia cheoks，or phest matertal an would be well mitted to such a evkirt． etis for esch ．The thor imo pate ernis， 10 from si to 44 inohes buat meut in eiserf the alkirt，is to 32 inches medot tmeanars 184s－Iady＇s Flouse Dress．The buay pornond atfilie，and mevernd nost house enaly laundered from materiad that enable her to look dinty house drons model，which is．in a

Grisp Bits of Golden Brown－ Light．Alluring Texture－ Your Rolls are Greatly Relished

Baked From
FIVE ROSES FLOUR
ค
Puddings
－Pastries

## WONDERFUL SNAPS IN PIANOS

Read carefully this list of guaranteed pianos－note the prices－and then select one quick．They won＇t last long at these figures and on our easy terms．If you don＇e see just what you want，write us enclosing coupon．De－ seribe just what you want－organ，square，grand or up－ right piano or player－piano．We have many others， and will gladly send you a list to choose from．＇

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## SEVEN SQUARE PIANO SPEOIALS．

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| :---: |
| MILLuR BROS．New York， large carved．legged equare whit emerpenting bone，futi ocile． 7 octave keybr－ierd．A megnificent instru－ <br> aition．in pertoot con－ |
|  |
| R． 8 WILINMMS lenge aquare hem oxpmitine bacoo hay lons over－struns somele if optave dom muke whith an elogent retuat in our own $\$ 105$ |


MASON \＆RISCR Bquare grand piano with carved degs，full metad
schle， frame，over－strung sctele，${ }^{7} 1-3$ octave keyboard．
This is amother atandard Oan－ This is abother ittundard Cani－
adian make of plano with a magmificent tone，has been factory and is prac－ 9125

HRINTZMAN＊ 00 ．grand Goode plane in dark rose－ wood onise，carved leen ant esrpentine bass，has fuil metai 7 ootepe keyoor－strung acale，Fis been canofully robultit in our own factory，has renuine Heints－ man tone and
touch．Bpecial at
at

ASK ABOUT TERMS．
Our terms are gurpriatinety thay．Tou oan earprainesty

Heintrman Hall
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MAIL THIS COUPON．
Fheneac mall me cornplete list of borgntins th ．．．．．．．．．．I hat your add in Farm and Datry，
Name．
Address

Reputation Gained in Short Time ing water and then cool off with cold never hear any complaint of bad but-

Mrs. Chas. Stewart, Algoma Dist.,

## Ont.

ASI have only been on the farm six years and my experience is in that time I have gained quite even 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 milk to start it to sour). After separating sour). down cellar to cool. Then it is cream to a stone jar and every time I add cream and stir well. I have I add cows and I generally churn two or three times a week, so that the two or is never old. I scald everything cream is the making of the butter, with boil-
churning four gallons cream at a churning to which I add searcely half is taken off three times in the first five minutes of churning. When nearwhich helps to a dipper of cold water, butter twice, 1 put a handful of my in the wash water and drnin of salt Four gallons usually makes about 12 pounds of butter and I put in a heaped dessert spoonful of fine table salt to each pound. I work the salt in and leave for a time, then work again and print. I try to make my nrints as neat as I can and fold the wrappers Then the so that it looks attractive. Then the butter is put in a cool place trade and get the best price going and

## Sells Butter on Market

Miss Jennie Beaton, Grey Co., Ont. N the first place all the utensils used for holding cream and butter are thoroughly scalded and then rinsed with cold water before being used. During the hot weather we keep the cream in our cellar, whien is quite cool. In the winter time we keep it in the fantry which is moderately warm. We have two cans, a small one in which we keep the freal 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 chrurn. We always thoroughly stir the cream with a
wooden spoon, after each additional

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## STucco

is the best foundation made for stuceo and plaster, Lalke Bishoprio 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 preasure, kiln-dried-laths spaced as they would be on studding. While In the Lath Doard the edges of the laths are square, as illustrated, in the Stuceo Board they are bevelled inward, forming dovetalled spacen between ench pair of Inth which make perfect keys for the stuceo or plaster. Bishopric Stuceo Board fs nalled direct to the atudding, lath side out, on both exterior and Interior walls and ceilings, and the plaster or stueco is then applied to it as shown in the illustration below. The AsphaltMastie forms a wind, damp and vermin-proof double skin, enelosing a dead-air apace the thickness of the stuading - the warmest kind of a wall you can build.

## Lathinioian

Applying plaster over Bishopric Stucco Board on Interior Walls.


Applying Bishopric Lath Board to Ceiling.
nailed to the studding with the sulphite sbreboend outward, makes a complete inside finish in itself, taking the place of sheathing lumber, builaing paper, furring stripe, lath and plaster. It costa far less, and can be applied in a fraction of the time, Baving $75 \%$ of the labor cost. It is particularly usetul in remodeling houses and finishing atties, as it saves all the musi 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 futl particulars and samples of Bishopric Btuceo Board and Lath Board, and our illuatrated Bishopric Booklet.

## The Bishopric Wall Board Co., Ltd.

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OTTAWA, ONT.
supply has been put in. When this cream is sour enough and thick enough we get the chum inte operation,
We use a barrel churn, We thoroughly scald it and rinse with cold water, then have about a yard of the best cheese cloth, which after scalding in hot water we tie around the top of the churn and strain the cream through into the churn. We churn emitting the gas oecasionally, till we see small grantules of butter. Then we remove the lid and rinse down the sides of the churn with about a aumr of cold water and we give it a few more furns when these granules few into a compact mass of butules inrun int a compact mass of butter. This churn and let the buttermilk of the then add more cold watermilk then add more cold water and mix it through the butter till we get all the
milk out of it. We lift the butter into mik out of it. We lift the butter into the butter basin and add salt enough to give it the desired taste when well mixed. Then we put the butter away into a cool or warm place, according to atmospheric conditions at the time.
We leave it 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 perocess, printed on the butter wrappers.
Sometimes we drive right on the
market and sell our butter to the highest bidder. We find this way the satisfactory as we always get the highest price. Very often we have it sold by 'phone before leaving home. will 'phone grocery men or Butchers will phone up and say "If you bring it to me I will give you a little better than market price".
They are very nice, private gustomers, They are very nice, but it doesn't appeal to me, as they only want small lots and then one customer is on this street, the ctis nearly two or three strects back and one cent more than market price seems to be their limit, As it takes a longer time to dispose of your butter and as you can get cash for it from any butcher or gro-cery-man, the market for mine every ime, unless it is a person whe every a boarding house and can who keeps whole lot.

## Good Service From the Paint Brash

NE of the articles which usually plays a fatrly prominent parc around the houte in the apring. is the paint brush. In these days of rugs, the floors need to be Ikept in good condition. Ot course we are sot all fortunate enough to have hardwood foors is our homes. We can never the lese, keep our floors loolifng ntce with a ilttle care, When tuinig a ifce rug th the centre of the foor, it a large neceasary to grain the floop is only feet around the edice. This, if a few done, locks well in any room if nicely The kitohen and pantry ars
did places in whioh to mize are splendid places in whloh to make good use of the paint bruah. It the Innoleum in the kitchen is varniehed spring and fall, It will keep the colors bright and insure its wearing lonker. Then there are those pantry shelves. Rather hard to keep them foolking neat Aner elean, isn't it? Some people cover the shelves several timas a year with thelf paper which times a year with Another method is to peint the ehelves Another method is to peint the ehelves
in the spring with a good white paint. in the spring with a good white paint.
An extrin nies flish for pantry An extra nies finish for pantry
bhelves if one wishes to go to the exhelves if one wishes to go to the ex-
pense, is enamel. This thakes a hard finlish which is easily wiped off.

Just one other painting rugsestion. A painting task that requires somb skill is to do window samhes without getting gaint on the windows, and we all know how hand it is to remove dry paint from siass. Here in an ides picked up recently. Cat a plece idea piciced up recently. Cut a piece
of enedboart the site of the pane, of earaboard the thte of the pane, cover the glass with it whille paint-
lng and tirus avold the vexation of tocompanying spots and spatters,

Twater

## Meeting of the Live Stock Records Board

Awas held by the representatives eight feet four inches in diameter, on of the different breed associa. of it the cribbing. On the centre tloas eonsdtuthy the Canadian Na iron ring, three feet in diameter-inch donal fife thoct Rooonds Board, in top of this we placed the bracing sysToronto on May 10. Most of the tem (A1, fig. 2). This is made of liresdera aasochatlons were represent- a hoop of two and one-half inch by ed. The atatement of recelpts and ex- quarter-inch iron, eight feet eight pondilares ahowed total reoeipts of inches in diameter, and eross rods of $\$ 38,482.27$ and expenditures almost the same amount.
President Wm. Smith reported a irroat inorense in the number of recistrations during the first four months of this yoar, as well as an fnorease the four montha enaing April 30, 1915, wore $\$ 27,278$. This year they haye 1915 , pas 144 , or an increase of to have bee A murgeatlon was recetrod 88,062 .

A eusgeetion was recelved from the Doculnion Sheed Breeders' Association, that roprosentattres on the Record Commitee ithould be appolnted by the different sasociations whicl they are supposed to represent, This matter was diectused at length, but the mupiseation was not adopted. It was polnted out that the Record Com mittee is practically an exeoutiv conmitite of the reoord boand and cournitiee of the reoord board and gate Ite owa work of sele to delegate its own work of selectiog its own committees to the breed aasociathons.

Herotofore It has been the oustom to appoint ropreaentatives of the dairy oattle, beet eattle, light horses, heavy horees, sheep and awine to set on the record sommittee. Oit motion it was deeided to petition the government for permisslon to ohange the coustitution of the association to en atte the ninoctation to discontinue this prantice in future and to simply seleot the members of the reeord committee from members of the hoard, Irreppective of the clanses of itock they represent Mr. Wm. Bmith, M.P., of Columbus, was re-eleoted chatrman, and the former members of the Gheeord Committee were all reappolnted. They are as follows: Chairman, Wm. Smith, M.P. Columbus, Ont: Peter White, K....4 Toronto, Represent. Ing Heavy Hornes; W, ©, Stephen, Humtinndon, Que, datry cattle; Rob. Ert Miller, Stouffrille, Ont., beef cat-
ert tle; Robert Ness, Howiok, Que., light Ue; Robert Neas, Howlok, Que., light
horees; y. M. Thrdhotse, Wenton, horses; 8. M. Chardhotse, Weston, Ont., swine; Ino. WW, Mrant, Ottaw, Ooh, sec-treas.

## Tank and Milk House

"A Subseriber"
T HE following description and ac compreying thlustrations will, 1 think, give a good idea of how "e constructed our round cement seath
We dug the trench for the foundation three feet deep. The well is two foet thick at the bottom of the trench. tapering to one foot thick at the surface, the diameter at the surface being 10 feet 4 fnchess. The concrete was one to six, with stone added to make it one to eirht. At one point make it one to eikht. At one point
we dug the trench four feet deep to we due the trench four feet deep to
allow for a drain under the wall. In allow for a drain under the wall. In
this drain we nlaced two field tiles, this drain we placed two field thes,
the upper for the sunply pine, the the upper for the supply pipe, the
lower for the drain. The supply pine lower for the drain. The supply pipe passes up throukh a chamber (y, fig: 1) one foot square with six inch walls of concrete. This is packed to prevent freesing.
We erected the inside form with inch boards, four or five inches wide, eight feet long. placed on end with wood circles. For the outnide form we used inches by 06 inches, bolted torether We placed strips 10 inches long at intervals of two feet to keen the at inand wood forms the proper distance apart. These were remoyed as we filled in the cement. The doorway (with placed equal distances windows were We equal distances apart.
We next placed a wood flooring

seven-sixfeenths inch soft steet. Seven inches higher up we nlaced another hoop of the same diameter, one and one-half inches by quarter-inch (A 2, fig. 2), with three-eighth-inch rods passing down through the rods of A 1, fik. 2 , and hooked to the three-foot imon ring underneath. (See e and 8 , Am ring underneath. (See e and $g$,
A fig.2). At intervals of two feet two Anches, uprights -2$)$. At intervals of two feet two inches, uprights one-eighth-inch by seven-eighth-inch iron were bolted on Hoops of five-sisteentho heavy hoops. Hoops of five-sixteenth-inch iron were wired to these aprights at intervals of seven inches ( A 5, fig. 2).
We then filled the concrete floor of the tank to line $c_{\text {, fig, }}$ 1, putting in supply pipe at same time. We set up the cribbing and metal rings, outside diameter 10 feet, making the small six inches thick at the bottom and five at the top, concrete one to five. We put in a piece of one and one-quarterinch pipe at top for overflow. After a few days we took out all the cribbing and gave the wall a coat of dibtilled tar. Then we set up the crib-

ainge on inside, and filled in with concrete, one to four, one inch thick at top. four inches at bottom.
We then made a circular wood roof end, one inch at jour inches, leaving at outer bole at centre (h) half feet above level of tank and oneadded the reinforcing of iron thoops added the reinforcing of iron hoops and rods (A 3, fig. 2), built the wood-
work for crestings and conereted, work for crestings and concreted, pne to five, the whole thing. When we took down the cribbing we trowel-coated the inside of the tank, cement one, sand two. The capacity is 4,635 gallons.
The total cost for lumber, iron, hardware, cement, pravel sand, man and cribbing, and hired belp, was 8175. Without the crestings the cost would have been 318 less.

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.

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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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 BUTTER FAT $\mathrm{T}_{\text {deliver ate }}^{0}$ oper the cream, your separator must be lubricated with an oil exactly suited to its construction. Many oils form "gum," thereby clog. fing the delicate mechanism of the separator, and thus causing rregular spinning of the bowl, reduction of speed and consequent lose of cream.
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## THE IMPERIAL OIL COMPANY

 LimitedbRANCHES IN ALL CITIES

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

WITH the goarcity of farm help, lateness of the season and bod doubt weather conditions, there no Garmers the arise in the minds of many with the work this coming keeasong up is given unto tuan to iccomplish only a certaln amount of work. "We will do all we can and let the rest go," is a statement we hear on every side. In some ways this is a wise concluslon under the present circumstances.
But we feel there But we feel there are some things that we cannot afford to let ga. One of these is the crop of weeds that annually infeet our roadsides.
One of the biggest sinners in the neglect of roadside weeds is the township councll. Many of our weeds that are hardest to eradicate are kept alive by being allowed to go to seed, or propagate in other ways on the roadaide. A ilttle money expended at the right time by township connells would do much to remedy this evil. It would also thelp matters if pathmasters would keep back part of the statute labor to be expended later is outting weeds on the highway. The big objection of most councils and pathmasters to this work, is that the condition of the ordinary roadside will not lend itself readily to the cutting process. It thè 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 saving of time and enengy expended upon fighting weeds which come in trom these neglected places,
The levelting and clearthg of rondsides consd be quite successfully carried on daring 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 horses and men for strenuous labor of spring seeding. If the importance of 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 councll. Is not this a subject worthy of careful consideratlon?

## Horse Notes *

John Gardhouse, York Co., Ont.

TAKE good oure of the cott's feet. Don't allow him 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 lota of treeh air and ezercise.
I would rather teed a ittle under than a tittle over the colt's requirements. I don't belleve it posilble to sive a fixed rule, such as so many pounds of feed per one bundred pounds of live welght, as every colt is a lay unto himself.
This winter it will be necessary to sive extra attention to foeding hay As mach of it is of poor quality. Shake it up well and moisten, The average feeder I belleve, gives too mueh hay.
Raw Hinseed ofl is good to keep the bowels in shape,
Rolled oats, bran, a few roots, a medium quantity of well cured hay. mixed hay or alfaifa, will give good results if fed with moderation.
Rolled oats, 40 per cent: bran, 30 per cent.; molasaes, 20 per cent, and water 10 per cent.: all mixed together, is a splendid mixture for colle.

[^0](8)ABSORBINE Removes Bursal Enlargements, Thickened, Swollen Tissues, Curbs, Filled Tendons, Soreness from any Bruise or Strain;
Stops Spavin Jameness. Allays pio Stops Spavin Lamenes. Allayi pain. Does not Blister, remove the hair of lay up the horse, 82.00 a bottle,
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ABSORBINE, JR., the antiseptie linimentfor mankind. For Synovitis, Strains, Gouty or Rheumatic deposits, Swollen, Painful Varicose Yeins. Will tell you more if you write. $\$ 1$ and $\$ 2$ per bottle a dealert or delivered Manufactured only by
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Write for our catalogue of farm books, it is gent free on requesit.
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Our service to farmers is the ver
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415 Water St., Peterborough L. A. Peek B. D. Kerr V. J. MaEldemy

## A Shortage of Live Stock

SPRCAKING st the 11th anaual meeting of the Oanadian National
aive Stock Recond Boand, heli in Toronto, May 10, Domindon held in Blook Commisaloner, John Brlght, yointed out that there is a nationsi scarcity in Canads of practleally all elasses of Ifve stook. Mr. Brieht classes of inve stook. Mr, Bright
urged the breeders' associations to take steps to explain the situation to farmens fan ordor that they suay be to farmens in order that they may be em-

Che trade in hoorses has been dull during the pent three reart, the outlook how is muoh brighter than ever beitselt Canada if ahority going to find 30,000 deplorably short of hories: $s 0,000$ have been sent to the war some 6,000 to the weot and thoumands to the States. The price on all grades of honses has advanced more rapldiy during the inst couple of months that possibly ever before. There is a posshlility that farmers, not reallzing this poaltion, may breed fewer mares

The beet eattile Eftantion is much the same. Too many farmers have their foepending on others to bresd are handtins ind how many of them are handting ivterior teeders for Which they have had to pay unduly hish prices. The thme has come when it will pay them to go book and treed their own feeders. The enttle we have been produclig have lacked in breeding and fialah. Better bulls must be used. Sheep are equally scarce. Whate It is not threly that the price of wool wh continte for any great
length of time at the presont high level, still it will be is long time belore wool will be as cheen ss it has been during the last 20 yearg. The price being paid for lambs is sumh as to make sheem rataing wery proftable. As reirards the thog sitmation, the supply has not bean nearly eount to the demandi begn nearly equal to been impond; 367,000 hoge having been imponted from the States during the past four months, Dven were the price of hogs considerably lower then it is there would still be an exceilent proftrt from hog raising.


Even if it cont more, Page Fence would stin be a good investment, because of its proven superiority. But by aelling direet from factory to firm, we enable you to securs it at prices the lowest that anyone can suote you even for ordinary fence.
For years, regarded as the standard, this is the

fence that has won the fermerts confidenioe by a steady adherence to high quality and full-gauge-we have steadfastly refused to cheapen it by cuttlag down Weight to meet competition. The reault is an unbroken chain of satisted customers -any one of whom will advise you to get this proven fence, rather than take chances with any lesaer make.
Our heavy fence quoted below, is all No .9 full gruge, tocka also No. 9 gauge.
No. of Helght Stays in.-

| No. of bars. | Height | Stays in. apart | Spaeing of | Price in |
| :---: | :---: | :---: | :---: | :---: |
| 6 | 40 | 22 apart. | Horizontale. | West. Ont. |
| 7 | 40. | 22 |  | . 2931 |
| 7 | 48 | 22 | 5-61-7 | . 38 |
| 8 | 42 | 1616 | - ${ }^{\text {a }}$ | 41 |
| 8 | 47 | 28 |  | 41 |
| 8 | 47 | 161/4 |  | … . 40 |
| 9 | 48 | 22 |  | + 491\% |
| 9 | 48 | 16\% |  | 43 |
| 9 | 58 | 28 |  |  |
| - | 52 | 161/4 | 4-5-51/27-816-9. |  |
| 10 | 48 | 161/2 |  |  |
| 10 | 48 | $18{ }^{10}$ |  | 49 |
| 10 | 52 | 16\% | \% -7, | 54 |
| 11 | 55 | 16\% |  | . 49 |

All reace manufacturers are gooting higher prices than lant, year-but higher prices still are bound to the next few years, now ts the time to fuyee withit Fnetert paid

## PAGE GATES

## match Page fence in despendability

Our "Railroad" gate is a good example of Page superiority in this line, Note how it is braced. And note the Prices-
prices which would be quite $\quad 3 \mathrm{ft} . . . . . . .$. . 82.50 capofully, strongly gate so but for our large output and but for our large output and
our "direct-to-gou" way of our elling.

12 rt. ......... 4.75
13 r. ......... 5.00
14 ft. ......... 5.20


## Page Poultry Fence

is made in a variety of styles, of which the most popular is our Special, a medium weight, small mesh fence that will turn amall chickens and large stock as well.

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

## PAGE LAWN FENCE FOR PROPERTY PROTECTION

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various prices. The one here shown is quoted as followe :-
Wehavelt in various neat designs, at
Height. Painted. Not Painted.
12 in .
18 in.
30 in.
36 in.
36 in.
42 in
48 in.
6 e
7 e

FREIEMT PAID on enders of $\$ 10$ or more, Write to us atreet, and and our bis catalogue containing moneysaving prices on all farm requirements. you complete fence price list,

## Market Review and Forecast


#### Abstract

 orop, of the thitted states, os com- 60,000 horses have boen taiken out of th Pased with the eatimate made thia time Dominion since the war started, and Report. This, tossether with reports of Westem Fhermare in in Partorn Canath. of the douth has bad a the wheat orop strensthen the mariket. Feportey to Western Caneda indioate that seeding is is sheep have aison boon meof aatile and an West- United States. These indsoste thot Channdicmitame that asedin: has been further adio of live stock, whikit a would rearlt in tions in Manitoba and Bastern Saakatohe- They Also indlioete of hish price lovele. Wun. in Ontario the fall wheat came and energy ahould be devoted to live through well and promises a good yleid, affeot the market. Purtint ooninence to made by Gormany to the United States Market quotatione show an all-round proposa, regarding the dinking of mer- cents per buithel in wheat. The marked chantmen, also hed a strengthening ef- wes quiet with availlable supplles tighty Interesting figures ave siven by Live follows: Quotations at Ft. Whilam are an


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## PROOF:

$\mathrm{M}^{\mathrm{n}}$ 1. WH. BALD, Mitetiell, Ont. sends in an account of his
sale reoenty held. He stated that he advertised in Farm and
Dairy, and hils unle of otock and Dairy, and his inie of stock and
implements on 100 acres amounted to \$5,945.58. Did it pay him? He to 35,94s.68. Did it pay him? He
thinks no. it will pay you as well.
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31. Sy: No 2, 11.nN: Ontario what is
 Whock, 880 COARSE GRAINS.
 aiso and mintuined by hat woeks re-


 The: Canalinn, 720 to 720 Dote, No 2

 white $650 \mathrm{Na} \mathrm{N}^{1}$ toed bic: Na 2, loom
 MH Fools MILL FEEDS.
leveli at reported het wook the amme he wetwo and the prioes firm. Durine the weok salos were mate as the followe.
 H. 60 to in in intig sood foed hour, ha.

 Looal merchants are now buiving batiol hay; bost grode on troak hero hit tait to 57 to PR . Monireal guved No. hay in art loth of tato
the price of potatoes commanmiln ofr in guotations of tant woack with the troukht 31.60 to 8170 a woek, out ontarioe

 Special EGOS AND POULTRY.
 egrs wore quoted at 2. to wo new hids. Poutry- Live. Dresene


 Wholemars are seds.
trade:--thace:- red olover, owt. . 525 00 to 12750

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No.

## No. 3 do diati.......: <br> $\begin{array}{lll}\mathrm{Na} & 2 \\ \mathrm{Na} & 2 \\ \mathrm{Na} & 1 \\ 0\end{array}$ <br> 

$\qquad$
Thene in a simy prodaruce, the commencement of the prosent season pros tated hish and ndvanoed to iswe ready thla year, if weather is favorable the proepoota are that the makre in Chunada will be even darger than that of as to whether or not inat year's inith prions will be maintained. A prospeotive ghort make in Enctand and eurtilied dhipmentes from New Zoaland, owing to
the soarcity of ocean frelsht, are expected to inoreane pricea. On the other hand. it Inited States will the exports from the Thited states will be largsty inoreased. Tris, together with an increased nurplas depresuing effect, the prioe of butter dur Ing the last fow weeks in due princlpatio the large stooks of held qoods. Indiomrenshed. Shat bottom prioes have been
Should hish prioes of cheese contintie, a portion of the millk of the country will he divarted from butter to ehepse factories, the result being a BW: Butter-
Croumery prints, frosh made 39e to 31 e Crenment solida, storage. Ordinary dalry printi
 $\begin{array}{lll}28 \mathrm{c} & 10 & 29 \mathrm{c} \\ 2 \mathrm{c} \\ 2 \mathrm{c} & \text { to } & 2 \mathrm{c} \\ 3 \mathrm{fe} & \text { to } & 26 \mathrm{c}\end{array}$ Cheese-New large, $191 / 4 \mathrm{c}$ to $194 \mathrm{c}:$
 LIVE STOCK
Trade oontimied strong, paekers taking
up ail offerings at prioes siendy with the udvanoed levels of the beginning of the week. From Chiongo ecmes the report that a new recond price for May was set on Wedneaday, When Armour a Company pald $\$ 10.25$ for a carlond of Angus year; cattle may bring $\mathrm{Bl}_{12}$ within a fow weelo. Buteher cows and bullir were in strons dernand and firm prices ruled. Quota-
tionn are about as follown: Hieavy ohotoe ateers Heandy choice steers Bateliers' pood
do medinm
do medinm
Butoheril' cows, ohoipe do good
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When the higheet prioed ferm manager in Cunada flrit read this book he was no fimpressed with it Cornell to have a falk with the author. Why was he so jmpreased? Becauso he realized that pusiness proposition, and that thata $s$ the freatemt farm boot ever

FARMINC AS A BUSINESS What is your object in farming? Is it to work out fine-spun theorlies
of to malee your farm a buainesu quecoss If it is to make it a buniness ificcess you will need WARREN'S FA RM M MANACE IENT is the MRAT MANAGE becure.

DO YOU WANT TO KNOW how to choose a farm, what sise
of a farm in most prohtable, how
to start farming with the leat to start farming whth the least capital, how to equip and lay out
a farm, how to keep farm aca farm, how to keep farm ac
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Dairy at $\$ 1.00$ each and this bool riil be sens to yotu free of charge. tions and many more.
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## Butcherst bulk, cholee da

 do boolotia' : . . . Tho ders, getha to $1,1,000$ ibi Stockerlis oholoes' 800 ' to900 lifs. do good, 700 to $800^{\circ}$ divi,
do medium, 650 to 700 Cutters....... Cutters:
Cunners:

| Cunners, |
| :--- |
| Mulkers were not out in aumbelent nam |
| to | torn to fill the damand. Fromn $\$ 60$ to $\$ 110$ was pald. Ordera are on hand from Havitern souroes. Quotationg follow: Mikers, Thiob, 175 to $\$ 110$, mod, to mood, 360 to cuives were fisiry tange and found rondy male at oterdy to frm ratee at $\$ 7$ to $\$ 10: 26$,

wih odd dhotoe veals as high is $\$ 11$. Whih odd chotoe veats as high as \$11. puid wore taken at $\$ 9$ to $\$ 10.50$ for ewes
 $\$ 12$ each for spring lembs, Good spring iminhs were wanted and wore fairly heda,
Hogs woinhed offecars were quoted at sil. 50 to $\$ 11.75$; fed and watered, $\$ 11.35$

 Clexinese BoAR May QUOTATIONs. Board held to-day 382 boxes were offered; ail sold at is $9-16 \mathrm{c}$.
Kineaton. May 11 . Kineaton, May i1, At, the Frontenac Cheese Bond here to-day, 263 white and
arf coloped chneve were poarded: 175 white aold at $197-16 \mathrm{Ce}$, end 166 oolored and 53 whtte sold at 198.80 .
 boses white; rulings, 19 ye to $191 / \mathrm{oj}$ board
offerings, 2980 sates on boord, 90 white at 191 sc , 60 codored at $19 \% \mathrm{he}$

## FARMERS' CLUB

Correapondence Invited.

## QUEBEO.

SHERBROOKE COUNTY, QUE. LeNNOXVILLE, May 2.-The jugar ful yield. The diantisy wheught a bountiprice ronlized wan thleth. The and the reason is opentins most favorably meeding acreage under orop will probably not be White ${ }^{30}$ large as lait year but every. where there is evidence of bettor methoutlonk is good for a suecenteftut your.

## ONTARIO

MIDDLESEX COUNTY, ONT APPIN, May 5 . Sleeding is being very much delayed by wot weather, a very The ruins have been no continued that very little plowing has been done for even if all fine. will bo a rush month, Cattle are nearly alt in ntable yot, though. come lots are out on buarture, whioh is coming slowiy. Farmera arb in frope hature will repeat her past bounsy in
rapid prowth when it does oome. C. M. MELLAND COUNTY, ONT. BriDGEisura, May hi-We are havmin very weet wisther heme now and not and clover look fine, Fotatoos are being brought from New, Brunswiok and boing for 31.50 a bum. Apples are $\$ 1$ a bus. chickens, 20 c th.; pork, 101 kc , dreased
 WOODSTIOCKRD CO., ONT. seoding done in this nection ao far, little w*l be aome daws follore far, and work is done on the fand, as we have hat "vary heavy rain ail day with a hish you. The great many have not a stanted A grost dena of the land fis wait water. bat the ditohes are runing full. Fherm, hely is very acaros and hight prioed Ourm a number of the farmers haves bold Qutes
cows on soogunt of the cown on socount of the soaroity of help. are $\$ 11$ to aldy. weok-it. M. MoD. drop of 25 c since last

## BRITISE COLUMIBIA.

NEW WESTMINSTER DISTRICT, B.C. OHILLWACK, April 28.-The weather milil remaina cloudy and chatty, with frequent rains and weiterly winds. titto or no Eriala has yet beon mown. Cattle has advanced to 10 lice a ib. Ilive of plighe This in the hifrieet price that has ever boen known here proef inat has ever
chenp, fo a it on toot very Nhep, wa th, on toot-N. WE C ,
 needing has been done in this a tistriot. Anpther week will finidh it. Furm anit, Dadry'a mectal acont Aroin Peterboro is canynmeing this diletrlet for neww subotock are atioying out now, andy all liwe work honvan betre loft tn the atables Hayy is aelling fant it \$i0, Bran and
 jority of tham ame being inapioted and eflipped to the statem.-N. Inapho. C.


## A Binder is a Big Investment

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 world.

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. W. logan, Howlek station, P.
(Thone in house). $\quad 1+8-1$

## HOLSEEM-PRESUN MEWS

Marm and Dairy is the Joedting expanent of dairyng in Caning The treat mejority of the members
of the Cansalan Honteln-Friesian of the Cantaian Hoostetn- Friesion
Ansocintion are ronders of the

 ost to Holatelin breeders for pub-
ilcation in this column.

## A BULL FOR sERVICE.

## 1

I may Echtunity of waing a wire like F, Hiche io thim ismpo of Favericaud by 1 . Syivia and a fill brother of May Echo two of Cannawnersent May Echo Posch, ofro an exceptional inctividunl with Ho bis oalves conetitution and with plenty beling weil markedt and May Eivorio strais, Service foes ure moderate. it is chance of a lifetime to kot a fore or
foundation cow of this high producters
otrain.
THE PELLATT SALE OF HOLSTEINS. THe Aipperion of the Hobstaln berd
 siow of the rocecon of the cocoesaful cow and the sucoses of the anding wan bleni however, and hiter in realized even prito mocome mare trine and good in thever 88,000 for the sile totinhed the malowity bull calivin and onive soon daye old, the averneiprico roonived, siow, need sis, the heiters two cowd theroaifizing from sion tio.75, fower of thea, 381.

 Orev eounty, where thlowing tifo oow yive tiped, but where rood ouws are beopraine


 The to the Betlowill Dlative, for. $328 \%$ limenecor st suyor ot the sele were bave abter foio-wor fammend ont. who
 follows irtioes realised over sho0 were as

## Sople Sotiulling Malee


 the Abbertiert, $123, \%$. Hountion, Wes-

## ton

## Females.









 lamity proct Prian, Wootbridel Ca


 OFFICIAL ARCORDS OF HOLOTEIN | If TO APKIL. FROM AP |
| :--- |
| 1016. | Mature Clase, Over 27 tbe.

Tr. Princens Sytve Tenke Dokod, 12318 , ${ }_{2} 2.04$ Mas butter 3 . BI Wytho Ammonto
 3. Forum Hiencruald boko Iri, 24135, 28.81 te butter
 Mation Bras, Clientervile.


 buiter is, FiN Muybee, Trenton



8 Bn Four- Year Class, Over 20 lbs. 1. Dotyy Genten Kormdyke, 1ritis,



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eyery inat a
very inch a show bull. An from
and Coring to ouit purchaner,

## HOTEL CARLS-RITE

##  <br> 

 iinit ibs buttor, B, G. Jemver, Ingemeil
 45.6 he milk, $16.2 s^{2}$ the, fiat, 20.19 dis. bettor. Wm. H. Goush.

Sr. Three-Year Class.

1. Minnle Polhdin Weynes. 24361, $2 y$.




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Three-Year Class, Over 18 lbs .



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| Korndyle |
| Sogla Harton |
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geoond rooord for 7 days: $2 y, 21 \mathrm{~m}$.







 8 Hanmer, Nowwich

$$
\text { Jr. Two-Year Class, Over } 18 \mathrm{lbs} \text {. }
$$

 32.61 lba buttor. Anlisos Bros., Chouter:
 Nown May Ormbly Faforit, sagnt, 2y, am
 Durtio the lisu hati of Avrill the re colved and aocoptod for satry in the toond of Yortt. Prinooss sytur Twake, yo a hew nddition to the so-lh. Wot mi of milk in a cisy she made ${ }^{30.04}$ the ould Marion Doakoi ami, For Mum Henger.
 coven daye In the nory frour-year-ond suith 25.88 itha, while Duldy Mattio Beauty
 yair-old with 26.84 tbe whue Fuforit


SEMI.OPFICIAL RECORDS OF HOL. STEIN-FRESIAN COWS FROM MARCH 25 TO APMIL 20,1916 ,
 ${ }^{2}$. Korndyike Princoin Dekat, ity
 ${ }^{3}$ Baimalo givi shuwer Mantid I1651, 5y
 Four-Year Class, Over 600 lbs .


 butter, P. B. Nelson, Campbeilitord.
Threo-Year Class, 500 lbs , and Over.

 ter. Tis. Dent se son, Wooditook.
 button P. J. Batley, Lachlne Raplad,
Que. Two-Year Clans, Over 600 ms. 1. Muidrod Plotort50 Atbbekenks 21509 ,皆. 2is 1bi buitter. De. It do Io Herwood,
 butter Wifoo Buther Ahromeas, i0206, $2 y$, the buttor Hooptial for Ineune, Hamilheifere moy toat report, 39 eows and herfers have qualiflod for admutaston to
the Reoord af Performance, In the ture dord ao new champlion appearm lif 1067.5 Ha . butter firom 2409 i ibs. mille Lalu Plotertio Koved tade tho fourYoin the mille In the threo-year-codd plen, Plue Pontiac Artis do a naw cham: piens whe a reoord of peo thes. buttor and kerk wituds higheet in the two-yenr-old
cinas with 686.25 tha, butter anid 18132 l ibe milic. W. A. cummons, Sempetery.

A CANADIAN OHAMPIONBHIP.

## E

 DITOR, Farm and Dalry ill have se. for millk in the oris. record of 93.8 Mins Merome Pooch with a he. in 7 day and $2,522.8^{\circ}$ be in 30 daya. She londa for all throe periole mone alas 7 hays. and 19.66 in 10 dins day, 23.66 in L. V. Boghrt, Jlapanee, Oni.

> SOME POETRY

O Nom upon a tumes, to the attory rose ${ }^{4}$ Fronctiman viluing the tomb of the linest, wa a mrent man, a moldier onave and true." comtng alonis a lutte ain handthiming comptng atons a lutte But Wellington did beat hifm at the batule of Waterlon ald beat him at the who, neelins the foregning nu Ameontriban, rushod into the competation infth ati of the roptuint that obaractisrlane the mem"But braver art nation. He wrotec War Wathington, the man whio could have Holked them both together.

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EWEL CORNEILA POSCH-7 yrs, ald. 7-day record, 23.48 the butter R.O., recond, 23,963 tha, millk. Bred to Lakeview Hengerveld sylvia. Duo to freetien June, 1916. She in a very large cow of wonderful conattitution and large oupacity; a beautifully balanced udder.

IMRIE DIXIE QUEEN-She ts another large cow of extra good type as her ahow rocoed of $\uparrow$ list prizee ond four 2nd ahows." She is under test at prosent, giving 70 lbs , per day four days after freahentug. She has two prosent, giving 70 lb , per day
EMERY CALAMITY PRINCESS-A COW of big capacity for food and nilk, Who as a 8 -yr.-old made a record of 19.11 lha butter in 9 daya after giving birth to twin oalvoa. She will be teated again botore the anle.
EMERY LILY POSCH-A cow wlith great mamuary development, very long and erooked veins, and large woll batanoed udder; also goed constitution 14.605 ibs , mill has a recond in R.O.M. of 24.15 ibs , and R.O.P. reeord af $14,605 \mathrm{lbe}$ - millk and 641.25 lbe , butter, with aversge toat of 3.51 por cont.
EMERY CALAMITY POSCH-A Es, 3 -y5,-old, who as a two-year-old mode a record of 12.24 ihs. She la a nice smooth cow, in aplenild condition,
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[^0]:    *Extmet from an eddrans at the Ontarie Frovineind Winter mur at Guciph, De-

[^1]:    
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