Issued Each Week Only One Dollar a Year
 sort can always be purchased at reasonable prices and in view of the popular and quite satisfactory for farm work. This to raise them. Good heavy drafters can be raised on almost the fact, it is most profitable to buy that kind rather than keted, they will command prices much in advance of general purpose feed and no matter at what age they are to be marThe illustration shows some of the work one of the successful competitors inmberland Co., Ont., whose farm was

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## Canadian National Exhibition

 Visitors to the great Canadian National Exhibition at Toronto thi rear, as usual, found much on enter tional features, so far as asriculture was concerned, were, perhaps, ahead of anything ever before attempted at Toronto. In addition to the usuat features, such as the various exhibitsfeation of live stock, fruit, vegetables. dairy products, and so forth, there were ex hibits of great educational value which were arransed under the direc tion of the Ontario Department of Ag riculture
These inciuded displays from the Ontario Agricultural College, showing the results of drainage work and experiments with field crops and corn, and tobacco from Essex County. The Director of Dairy Instruction had of cxhibition samples of milk, which
showed the effect of cow hairs, straw showed the effect of cow hairs, straw,
hay, flies, dust and s, forth, that had hay, flies, dust and sy forth, that had
been placed therein. In each case the been placed therein. In each case the resultant product was repulsive and disgusting to that extent where any one who kave thought to the matter on seeing the display, would never again allow milk to become contaminated with these things, if at all possible to avoid it. The Fruit Branch had a fine display of fruit, showink the great fruits can be grown in Ontario. The grain and sheaf exhibits in connection with the ffeld crops competition, were very tastefully arranged, and attracted much attention.
British Columbia had a very fine display of her fruit. Alberta had on display grains and other products froan that province. The West Indies were represented by a very interesting and attractive exhibit of her fruit, vegetable and nut products, as produced II the several isles of the West Indies.

The Dominion Department of
The Dominion Department of Ag riculture were represented in the Dairy Building by officials of the Dairy and
Cold Storage Branch-those in charge Cold Storage Branch-those in charge if cow testing. Many enquiries about cow testing work were answered, and many farmers were made acquainted with this great work throush the dis play made by the Department.
The dairy cattle exhibits, with the exception of the Guernseys and
srades, are reported elsewhere. The grades, are reported elsewhere. The Gucrnseys were all shown by The
Trethewey Model Farm, Weston, Ont. Trethewey Model Farm, Weston, Ont.
These cattle are a fine lot, and were much admired by those who passed throush the stables.
The beef cattle exhibits, especially the Shorthorns, were well up to the standard. There was keen competition in the Shorthorn classes, where representatives from two great western herds those of Sir Wm . Van
Horne, and II. Fmmert, East Sel kirk. Man., met the old and well-established herds of the Red. White and Roan from Ontario herds

## Hoases

In heavy horses, the main exhibit as usual, was with the Clydesdales.
These were not as strong as they have These were not as strong as they have
been in previous years, so far as the been in previous years, so far as the
aged stuff was concerned; the younkaged stuff was concerned; the young-
er classes were well filled with a very choice lot of stuff. The principal winchoice lot of stuff. The principal win-
nines were made by Graham Bros., Claremont, Ont. Their aged stallion, Claremont, Ont. Their aged stallion,
Mikado, was of a right fleshy sort, a Mood mover, and of fine quality, though of upstanding type. There was only a small showing of Shires,
while Percherons were represented by while Percherons were represented by three main exhibitors; two or three others exhibited individuals. The light horses and harness classes, each and all, were well represented
The weather on several days of the
fair was anvthing but favorable. Rain fell in torrents, at times, yet notwithstanding it, the people came in crowds and the attendance was well up to the average, if not in advance of previous

## Ayrshires at Toronto

It has been many years since the exhibit of Ayrshires at the Canadian National Exhibition has been so few Fin numbers as was the case this year Fanciers of this famous Scottish dairy breed, however, have nothing to be
ashamed of in the display made of ashamed of in the display made of old time exhibitors. Alex. Hume \& Co. Menie, Ont., and Wiliam Stewart \& Son, Menie, Ont., were on hand as us nal. Hector Gordon, Howick, Quebec for the first time in three years had his Stonehouse herd in the fray. The Trethewey Model Farm, Weston, Ont. also showed a number, while Holborn B. Ross Streetsville Ont, and ach had an individual entry. The large herd of R. R. Ness, Howick, Que., Robert Hunter \& Sons, Maxville, Ont., and Peter McArthur's herd, were greatly missed.

## Most

Most notaule among the Ayrshire exhrbits vere the junior and senior championsh.p bulls. Both of these ammals, owned by Hector Gordon, are worthy
were very fine animals. The Senior and Gerand Champion was Hilliouse Bonnie Scotland. He is an animal most difficult to fault. He is of strong dairy and Ayrshire type, as good as can be in the heart kirth, of straigh lines both top and bottom, deep bar-
reled and well-balanced. The iunior reled and well-balanced. The junior
champion, Auchenbrain His Emin. champion, Auchenbrain His Emin-
ence, is a bull over which any Ayrshire breeder would become enthusias-

The aged cow class, an illustration of which is reproduced elsewhere in this issue, numbered etght entries Cordon's Bargenoch Blue Bell, which big atied off the premier award, is a tion, with a good barrel, a splendid udder, and the very best of teats. Her udder was not as level as some Ayrshire men would like, but was capac inus, and the teats were larke and well placed. She was, perhaps, not showing at her best, as she was not in the best of bloom, due, no doubt, to hav ing been newly imported. The second prize cow, Monkland Snowdrop 4th also owned by Gordon, is of the very also owned by Gordon, is of the very
best of quality, and possesses a good best of quality, and possesses a coord
handling skin, a fine udder and is handling skin, a fine udder and is
good throughout. Not having been good throughout. Not having been
fresh it was somewhat against her. If showing at her best, she would, undoubtedly, have been the first cow of the lot. The awards as placed by judge, A. Kains, Byron, follow
Bull, three years old and over-1, Ker of Springhill: 2, The Trethewes Model Farm, Drongan Mains Guarantee 3. Alex. Hume
eck Royal Monarch.
Bull, two years old-1. Hector Gordon, Hillhouse Bonnie Scotland. Alex. Hume \& Co., Spicey Sam Jr Bull, I year old-1, Gordon. Auchen brain His Eminence, 2, Stewart Cashier of Springhill: 3, Hume, Styl-
ish Heir: 4, Holborn Bros., Moum ish Heir: 4, Holborn Bros.
Forest, Duke of Tanglewyld.
Bull, calf, under one year
Bull calf, under one year old-1. 2 and 3. Gordon, Stonchouse Bell and Boy, Stonchouse Earl and Stonchouse Prince: 4, Hume, Royal Scot,
Bull calf, calved after January 1st 1910-1. Wm. Stewart, Sandy ; 2, Gordon, Stonehouse Cheerful Boy; 3, Stewart, Prince.
Senior and grand championships, (male) - Gordon, Hillhouse Bonnie Scotland. Junior champion-Gordon, Auchenbrain His Eminence.
Female senior and grand champion-ships-Gordon, Bargenoch Blue Bell. Junior champion-Gordon.
Cow, four years old and over-1 and 2. Gordon. Barsenoch Blue Bell and Monkland Snowdrop; B, Stewart, Annie I
Ena.

Issued Each We

Vol. XXIX.

Iineneral a n particul inly tion, (2) indus (3) unselfish, ations to his erse, I do n there is no ontrary there

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dent is success i knowledge of the of 8 special busi What kinds of so poses is each one ture of the soil t water to be gottes be conserved. that militate aga economically erad choose for forage, what varieties sh best systems of ha our plants by ju tock shall we ke kinds? How shal economically fed a improve then by from sickness? Al ike questions in duction demand kn *Mr Good was one
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in Farm and Dairy

## EDUCATION - ITS APPLICATION IN AGRICULTURE*

## IV. C. Gouml, Brant Cow, Ont.

## Education in Relation to Production and Distribution -The Farmer as a Citizen-His Political Resoonsibility - A Broader System of Rural Education Needed.

Igeneral any man's value may be estimated in respect to his various relationships; and in particular the farmer may be viewed from several fairly distinet standpoints. He may be (1) Intelligent or stupid in relation to his vocation, (2) industrious or lazy in his general habits. (3) unselfish, wise and publie spirited in his res.
lations to his family lations to his family and to seciety or the reverse, I do not imply by this encmeration that there is no connection between the various aspects of any man's individuality. On the contrary there is the closest conncetion. For convenience, however, we may suitably consider the relation between Education and the farmer in his several relationships as above stated. QUEstons on probiction
We are only heginniag to find cut how depen-

Then in respect to the problem of distribution there arises a host of new questions in whese solis tion not only information bist a certain state of thormal development is required? How shall the vosts of transportation be minimized? How shall the unnesessary middle man be eliminated? Is not the nesd for cooperative selling imperative ; and if so what sacrificos on the part of the individual aro necessary? How are prices determined, and what is a just price?

These and other like questions involve an ex amination of the structure of society from the industrial point of view. The farmer who would usoist in their solution must be no innoramus Not only must he understand the problems of broduction and distribution. He must alse possess skill as a mechanic and builder and must be


A Striog of Jerseys at the Sherbrooke Fair, 1910
 Photo by an Sditor of Farm and Dairy.
dent is success in agriculture upoa in accurate knowledge of the various clements of the farmer's special business-soil, plants and animals. What kinds of soils are there and to what purposes is each one lest snited? How is the texture of the soil tc be improved? How is strplus water to be gotten rid of and how is soil moisture to be conserved? How shall the various weeds that militate against cur crop growth be most eeonomically eradicated? What plants shall we choose for forage, grain, fruit and so forth, and what varieties shall we select? What cultural methods are most satisfactory and what are the best systems of harvesting? How can we improve our plants by judicious selection? What live stock shall we keep? How many and of what kinds? How shall they be most effectively and economically fed and cared for? How shall we improve then by selection and keep them free from sickness? All these and hundreds of other like questions in respect to agricultural production demand knowledge.
Mr Good was one of the sucesagful compotitore for
909 in the Dairy Farms Competition eondtur
 of the artivleg required of him two year. This is ony
petition. Art petition. Articlen by suceeessmil competitors are featured
able to apply his hand to all the varied tasks that present themselves to him.

## MORAL QUALITES ALSO NEGESEIEI

But skill and knowledge in connection with the agriculturist's special problems are not sufficient, even to make a good farmer, much less to make a gord man and citizen. Success is also dependent upon the development of certain moral qualitiespatience, endurance, self control, courage in the face of difficulties, and so forth. We can find not a few who have had all the benefits of a specialized education along agricultural lines and yet whe have been dismal failures as farmers because they lacked either self control, patience, perseverance, cotrage or other quality of soul.
And we have seen the industrious plodder who possessed cool judgment gradually forge to the front in spite of great educational defects along technical lines.
But the good farmer needs not only skill and knowledge of his special business, needs not only thrift, patience, corrage, self-eentrol and persistence, but, especially in our modern eomplex society, needs a knowledge of his status and obligations as a citizen. He needs to have developed within him those eivic virtues which we call pub-
lie spirit, a sense of individual respensibility for

The farmer as a citizen has relations and duties to various institutions-to the family, to the school, to one or more religious or philanthropie rions ramations, to the various political institu-tions-municipal, provincial and federal. He must understand these rolationships and these inties, and no duties, and now knowledge or virtue in other respects will wholly atone for indifference to the chligations of citizenship. Ender the military form of sweecty these obligations have been identified wth military serviee, and any refusal to accept them has been justly visited with vigorous punishment
mis political besponsimilties
In the modern democratic state they are identified with a persistent campaign akainst social atemies-parasites, evil doers and so forth; and public opinien must develop to such a state that it condemns indifference to the obligations of democratic citizenship just as severely as it has teen the custom to condemn indifference to the claims of military serviee. If this bee not so, skill, knowledse, thrift and perseveranee will largely minister to social parasites who will fatton upon the body politic, and thus the gains of civilization will be more apparent than real.
Now, considering the farmer in these varions relationships one legitimately asks: What kind of education will qualify him in these several aspects? What kind of education shall we provide fer our boys and girls whom we wish to see rerain on our farms and become intelligent, contented and hpright agrieulturists? Lot me try to answer as briefly as possible, beginning with the primary schools as it is only in the measure that the oncoming aeneration improves upon its predecosser that we have social progress.
nature stioy and theinical training
Our primary rural sehools should develop still further the beginning already made in nature study, so that from the very first our children are brought into closer and more sympathetic relationship with Mother Earth. We should have more advanced rural education accessible to all high schools with rural environments and devoted in part towards laying the foundation for a techmical training in agriculture
The beginning already made in Ontaric in the establishing of Distriet Representatives is in the right direction. Higher education of a technical nature, such as is now provided by our agricultural colleges should be given to greater numbers, both of young men and young women, and probably wifl be when the demand becomes greater. And in all these institutions there should he kept constantly in mind the prime importance of the commonplace virtues, and the supreme value of the home and its activities in the development of these virtues.
And lastly, in school and college, in home and field, in the press and in the pulpit, there shotld be a centinuous effort to prepare for, and obtain, a real democracy by disseminating information and by practical training in cooperative activities. An education which recognives the various sides and needs of human nature is justified by its results, whereas a one-sided education is condemned by its obvious failures. "Wisdom is justified by her children."

To Organize a Cooperative Fruit Society 1rof. J. II. Crone, 0.A.C.., Fiuelph, Ont.
There is no longer any doubt as to the advisability of comperative action on the part of fruit growers. All of our associations have not Leen equally suceesesfil: but the difficulties, however are not in connection with the idea, but rather in connection with the methods of organization or the methods of operation of the association. Most of our associations have heretofore been organized on the joint-stoek plan. We believe this to be a mistake. The most suitable arrangement for the purpose is a simple, matual, working agreement without share capital, preferring to borrow capital on the seeurity of the members rather than secure capital by selling shares to members or to outsiders.
Those of our associations which organized on the purely joint-stoek plan have had difficulty in kerping close to the truly cooperative idea. Stock has paseed into the hands of a feer men, prohably business men or persons not interested in fruit growing. These men have, of colsse, desired to secure as large a dividend on their investment as possible and the grower (who furnishes the business) has suffered in consequ"enee. Several associations have been broken up simply through this cause. Two of our associations which organized originally on the joint-stock plan are now changing their basis of memLerathip somewhat. They are requiring that each mi cosubsrribe stock to the association and the nilow no one outside of the association to hold stock. In this way, the interest of every member is secured and none but members are interested. The simplest and best plan of all, if capita! is required, is to borrow from a loan or mortgage corporation on the security of all or part of the members of the association.

## coob men necksany

To organize an aseseciation, the steatiest and most reputable men in the commenity should toe interested. With a few men of this type as a foundation a good association may be built up. One of the principal stumbling blocks of the Ontario Associations has been with regard to the remuneration of the manager. It should be established before operations are begun that he is to reeeive good pay for his work. Those of our associations which are the most successful are the ones which pay their manggers the beet.
The manager should, of course, be a first-class business man,-one who understands business dealings, and he should also have the confidence of the best men in the ecmmunity. Some of our associations have tried to get along by paying a manager $\$ 300$ or $\$ 100$ a year. This amount is not sufficient to create any active interest on his part and the association consequently does not flourish. Other associations have paid their manager a certain amount per barrel for every barrel handled by the association. In one case the origual remuneration to the manager was 25 cents a barrel. This has been reduced to 20 cents. The quantity of goods handled has increased to such an extent that the manager now draws a handzome sal. ary, and no one who is at all well informed will say that he gets too much.

> QUALITY, Not QUANTTTY

The experience of Ontario associations points out forcibly that it is not at all necessary to have a large membership at the beginning. A number of associations have had difficulty simply because of the fact that a large number of members was thought to to necessary before the association cotld do business. It is a much safer policy to restrict the membership at the beginning to the better class of growers.
1 am quite convinced that every cooperative association should establish strict rules regarding spraying, cultivating, fertilixing, and pruning orchards, and should in addition adopt striet regulations coveriug grading and packing of fruit. This means of course, that the membership will
at first be limited to those who agree to all these requirements. If a large number of members is admitted, great difficulty is experienced in persuading them to properly care for their orchards and to properly handle their fruit.
Half a dozen men working together to grade and pack the best possible grade of fruit will secure prices that will make the other men open their eyes. This forms the strongest argument for joining the association, and when grower: realize that to sectre profitable prices they will be required to perform thoroughly all operations connected with growing and handling their fruit, they are much more likely to take the necessary

## Views of a N. S. Dairyman

## C. $P$. Blanchard, Colchester Co., N.S.

At the present price of dairy products every dairy cow in the province of Nova Scotia siould give a gross annual return of $\$ 100$. By careful ecmputation there are at present in this province about 150,000 cows making an average gross yield of less than 810 a year. The loss sustained by the farmers of Nova Scotia from the improper selection and care of the dairy cows amounts therefore to the encrmous sum of over $\$ 7,000,000^{3}$ annually. This may look tike an exaggerated etaterent to many dairymen. It is nevertheless


Packiag Apples Cooperatively in Kest Co., Ont.
 this way a better and more uniform pack ti\& obtaimed Mr. W, D. Do Boss, Necretary of the Association, reports that the Association started 13 years ago with a membership of 12, and shipped but two carloads of fruit.
trouhle than if the association is already stoeked up with a large quantity of No. 2 fruit which can only be sold at a low price.
The most successful associations in Oatario and in the Western fruit-growing States and British Columbia are those which adopt the strictest rules from the beginning. Nothing attracts a grower more than the high prices received by his neighLor. A great many of our growers have so far failed to realize that high prices can be secured for good grades of fruit. Once this point is made plain to them, they do not hesitate to enter an association and to go to the extra trotble and expense of producing a high-grade article.

## Sweet Clover the Farmers Foe

T. G. Raynor, B.S.A., Seed Branch, Ottawa

A very aggressive weed is this sweet clover; a biennial it is true, but a very persistent grower. If cut off at haying time in a meadow or elsewhere on it ecmes again, and has plenty of time to produce an abundance of seed if left unmolested. It has got into a large number of clover seed producing districts and many places which know it not now, will soon knew it to their everlasting sorrow. It may become a weed seed impurity in red clover and it can hardly be detected from good clover seed that is not well colered. The seed law only limits its presence in clover seed of No. 1 quality, where not more than one per cent. is allewed of weed seeds of any kind.
It is to the credit of many farmers that they can be seen spudding it out of their clover seed fields this season, which is the safest and 5 - it way of getting it out. It would be better to ) : it out of the first crop at a time after a grod rain as if cut off with a mower it branches out and is diffieult to either pull or spud.
The white variety of sweet clover is the nost prevalent now ; but the yellow is fast gaining on the white and is worse than the white as it is mere persistent in its growth. Farm and Dairy readers who do not know the plant should get to know it at once and net let it rest a minute even if the honey bee puts in his little protest.
true. I havef proved it to my own satisfaction. An average gross revente of $\$ 100$ a cow from a herd is quite possible. In my small herd of 25 cows I have several cows which,-taking the price of butter at 25 cents a lb . and skim milk at 15 cents a ewt-will return a revente of over $\$ 125$ in the year. In putting the average at $\$ 100$ a cow for the whole herd I am quite within the mark
If a cow does not give an anncal return of $\$ 100$ there is something wrong with the cew or its management, possibly both. When the management is at fault better farmers are needed. Better farmers means better care of cows and better care means letter cows. It is possible to double the output of the dairy by improved methods in feed and care.
skizoting a merd
In selecting your herd it should be remembered that there are geod and bad individuals in all breeds. Two things are essential in the dairy cow of any breed before you can expect good re-sults-constitution and conformation. In making up the herd if the would-be dairyman has not sufficient experience to make a proper selection he should get some one who has the necessary experience to do it for him.
The selection of a breed must depend to a certain extent on local conditions. In Nova Sectia the Ayrshire is preferred by many because cows of this breed have those characteristics which enable them to climb over the hills and gather their food in the summer season to the best advantage. To do this they must have a naturally robust and rugged constitution. Under other conditions any cther standard dairy breed might fill the Lill equally well. Selections of breed must therefore be a matter of taste governed by local conditions.

> NOVA scotia a dairy counthy

In these Maritime Provinces nature has deprived us of those fertile plains on which can be grown for generations the wherewithal to feed the more densely poptlated countries of the world. She has, however opened her hand wide in giving us those conditions of hill and valley, river and brook, which give delight to the dairyman's heart
and ensure $f$
Holland better soil w Last year th of dairy pro produced on mistic hower to the time cond $\mathrm{H}_{\mathrm{c}}$ 'iano country.

Til
The laying skilled engine studying up directions car gineer and wi preven in my other farmers in this neight case hav
Many farm of underdruin al.le at the $p$ tem of drains laid through move the wate otherwise be
Three years this way. The
feet long, slop this field were ing from cne side of the fiel been put in $t$ This field able to grew wet so late i fall that roots possibility. inch tile were r and opened intu The lowest detected with


The illustration photo was taken,
feet denp at the r the field was not let, laths were dr $I$ ditch was to go. tecting the fall $f$ ordinate paper tenth of an inch and grade of the the drains runni and on an even to go more than age depth being was complete en at each station
atd unsure the success of this important industry. Holland and Belgium, 50 years ago, with no leetter soil were situated about as we are to-day. Last year they exported about $\$ 100,000,000$ worth of dairy preducts while we, with a larger area. produced only about $\$ 4,000,000$. We are optimistic however and are eagerly looking forward to the time when Nova Scotia will become a second Hofand and stand unrivalled as a dairying country.

## Tile Draining a Wet Field

## E. F. Eatan, Colchester Oor N.

The laying of tite drains is not the work of the skilled engineer only. Any intelligent farmer, by studying up the subject and carefully following directions can lay tile drains as well as any engineer and with much less expense. This has been preven in my own case and in the case of many other farmers as well. Practically all the farms in this neighborhoed are well drained and in no case have the services of the engineer been em-
ployed.
Many farmers whose farms are badly in need of underdraining hold back because they are not able at the present time to lay a complete system of drains. In such cases a few main drains laid through the lowest land would generally remove the water sufficiently to make, what would otherwise be almost useless land, productive.
Three years ago, we drained a 20 acre field in
this way. The field was 832 feet wide and 1090 this way. The field was 832 feet wide and 1,049 feet long, sloping to the west. Running across this field were three main gullies with a fall varying from che to four feot in 100. Along the west side of the field was a four foot ditch which had been put in to prevent the water from ruming off our field on to our neighbors.
This field was so wet that we had never been able to grew there anything but grass. It kept
wet so late in the spring wet so late in the spring and was so wet in the fall that roots or grain on that field were an impossibility. Three drains, 850 feet long of three inch tile were run up the main gullies in this field and opened into the ditch on the west side.
The lowest part of the land oculd easily be
detected with the eye and a complete surrey of
detected with the eye and a complete survey of
the lath with pencil. The fall of the drain between each station was also marked.
In digging the drains, as little hand work was d. ne as possible. Two deep furrows were thrown out each way with an ordinary plow, a crewn being left in the centre. This crown was then plowed and thrown out by hand. The plow was usevl down to a depth of 18 inches or two feet. The whipple trees were attached to the plow by a 10 foot chain. A long whippletree enabled the herses to walk on either side of the diteh. We then used our subsoil plow down to within six inches of the finished depth of the drain. The hottom of the drain was finished by hand.

> aRabine the bitch hottos

In grading the ditch bottem we used a 10 foot plank, with a spirit level tacked on one side. The end of the spirit level was dropped at one end aceording to the grade of the drains. For instance, if the grade was 10 inches in 100 feet the drop in 10 feet would be one inch. In two foet (the length of the level) the drop would be one-fifth of an inch. Hence to get the true grade the end of the level pointing up the slope would be dropped one-fifth of an inch be-
low the top of the board. The bottom of the ditch would then be graded with bottom of the ditch would then be graded with a spade till, when the board was laid on it, the bubble would
the centred. We found this to be a handy and aceurate method of grading a be a handy and aceurate method of grading a ditch bottom.
At the outlet a wooden box was used for the allowed to run to the outlet of thes had been allowed to run to the outlet of the drain, they would have been cracked and heaved by frost and the drain thereby rendered ineffective. We prefer round tile as it is easier to make a good joint with them. In case a good joint could not be obtained, a sod was placed over it, grass side in. We laid the tiles starting at the outlet. We filled in the earth each day. If tiles are left cncovered and a rain should come, it would be necessary to take the tiles out and grade the bettom of the ditch over again. The filling was done with a snowplow arrangement after five or six inches of the earth had been dropped in by hand.
the results of drainager
This drainage was done in the fall of thr year


Ose of the Latest and Greatest Labor Savers Conected with Farm Work.
The illustration herowith shows a traction diteher at work on a farm near Perth.
feet deop at the rate of one rod in two minutes. the field was not necessary. Starting at the outlet, laths were driven in every 100 feet where the I ditch was to go. A spirit level was used for detecting the fall from one stake to another. Coordinate paper marked cut in squares of onetenth of an inch was used in plotting the depth and grade of the drains. We endeavored to have the drains running straight as far as possible and on an even grade, but never allowing them to go more than $31 / 2$ or four feet deep, the average depth being three feet. When the system was complete en paper, the depth of the drain at each station was determined and marked on
of 1907. The following year, for the firat time in the history of the field we had a crep of roots and potatoes. The crop was as follows:

$$
\begin{aligned}
& \text { Five acres of potatoes, } 1,000 \text { bushels } \\
& \text { at } 85 \text { cents } \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots . \\
& \text { Ten acres turnins }
\end{aligned}
$$

Ten acres turnips, 8,000 bushels $\$ 850$ 6 cents $\ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots$
Five acres mangels, 8,500 buhels $\$ 480$
 $\$ 210$
Total ....................... 81040 Previously the best crop we had ever cbtained was 40 tons of hay worth at the very most,
8400. Of course, the crop of roots cost meore to produce than hay, but the extra expense certainly did not amount to $\$ 640$. The expense of putting in the three main drains was: Cost of tiles, 2,550 three inch tiles.... 838.25
Digging, laying and filling Digging, laying and filling .......... 805.00 Or a total cost of $\ldots \ldots \ldots \ldots . \$ 133.25$
We estimated that the first crop off this 20
acres field paid for the acre field paid for the tiles at least twice over. Of course, this is not a ecmplete system of underdrainage and this field is not as easily worked us the other parts of the farm, which have lateruls every 60 or 80 feet. Sometime in the near future, we will run laterals through this field. Where, however, the farmer is unable to put in a complete system of underdrainage through financial limitations a few main drains where they are most needed will le a very profitable investment and will not le lost as they will make up a part of a complete system of drainage to Le installed later on. The Nova Scotia Government this last summor has purehased a ditching machine which is doing splendid work. We expeet that this machine will not enly decrease the cost of putting in the drains but will to a large extent solve the labor problem, which is our greatest
difficulty.

## Possible Combinations Amongst Farmers <br> W. J. L. Hamilton, Nanaimo Co., B.O.

Independence is an excellent thing, but like all other good things it can be carried too far. Yet this is one of the hardest lessons to teach our farmers in British Columbia. Each man goes his own way, raises and markets his own produce, quence is theed to his neightor. The consequence is that this independence, (is it distrust?) if his neighbers prevents cooperation, which, if undertaken by any district, would lead to each ndividual making greatly inereased profits. And 1 am not merely alluding to joining a cooperative association, though this is of the first importance. Besides doing this the farmers of a district should combine to raise certain classes of produce along
the same lines.
The same breeds of cattle and poultry, the same clusses of crops, the same varieties of apples and other fruits should be produced by all; then a district would soes establish a reputation for excelJing in such produce, and, above all, the purchaser would then always feel that he could obtain all he needed of these staple articles without fear of being told that, owing to limited production, it was all sold cut.
In this case local agricultural exhibitions would assume a much greater importance than now, for they would promote a friendly rivalry, stimulating every individual to produce only the very best est possible standardereby maintaining the highest possible standard of quality in those lines of staple products which the district was commercially engaged in producing.
There is no reason why this rivalry should be other than friendly, if that very common cause of discord, distrust of the judges at the exhibition, were avoided. This is best done by avoiding the selection of local men to judge the produce, since these are always suspected of partiality and this often with the greatest injustice.
If men of acknowledged capacity, with no special locat interests, were chosen as judges, the alsurdity of any snch charge would be manifest, even to that very frequent product of each district, the man who knows that his exhibit excels
that of the prize winner.
The first few times the cow is milked, her udder will be tender when the milking begins, so we should be quiet and careful. A young cow is made or spoiled forever by the treatment which she receives in the first few milkings.-R. S. Hoardsworth, Durham Co., Ont.


#### Abstract

Ayrshires at Toronto "Contionued from pouge 2) Cow, three years old-1, Hume, Stoneyontt Lady Helen; 2 , Gordon, Aikenhead Blackbird: 3, Hume, Bells. Alkenhead Blackbird: 3, Hume, Bells- land Nan tth. Cow, dry, in calf-1, Gordon, South- wick; 2, Hume, Bargower Snowdrop. 3, Hoilhorn Hrom 3, Holborn Bros, Sprishtly of Tankle- wyld; 4, Trethewey Model Farm, uyld; 4, Trethewey Model Farm, Brownie of Gienhurst, Heifer. two vears old-1, Gordon, Fancy of Lancaster: 2 , Hume, Less nessock Sprightly: 8, Stewart, Dewdrop of Menic

Lochfergus Daisy: 4, Stewart, Jean Armour, 3rd. Heifer calf, under one year old-1, Stewart, White Heather; 2, Gordon, Stomhoner, house. Brown Guren: Gordon, Monk Helen of Menie Heifer calf cal 1910-1 Gorter calved after Jan. I Stewart, Mavflower 3 , Couse Mary : 2 stewart, Maytlower; 3, Hume, White Stewart, hady Mary Stewart. Graded herd-1, Gordon; 2, Hume 3. Gordon: 4, Stewart. 2 Stewart Younk Hume. Four animals, the progeny of one bull- 1 and 3 , Gordon: 2 and 4 , Stew


Holsteins at Canadian National
Fanciers of Black and White cattle eceld well be proul of the splendid Gowing made by their favorites at the Canadian Nutional Exhibition for 1910. Holstems were out in execedingly large numbers. There were no loss than eight of what might be termad large exhibits. These ineluded the herds shown by G. W. Clements, St. Gieor an; James Pettit, Norwich; It. F. Hieks, Newtonbronk; Lakeview Stock Farm, Bronte; A. F. Hulet Norwich: Eilsar Dennis, Newmarket F, A. Jagase, Jefferson: G. II \& J Mackenzie, Willowdale: John Clarkson \& Sons, Summerville. Other ex

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TORONTO, ONT.

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Farm, Weston; Weir Bros, Malvern and O. D. Bales, Lansing. Large classes confronted the judge, Mr . R. S. Sterenson, Ancaster, in almost every case. The exmpetition in many instances was exceedingly close, thie stock in general being of a very high class, so that the judge had work, and plenty of it, to place the awards.
ravons shost-taciek sont
Throughout Mr. Stevenson favored the low, short-legegen type of Holstems at every the long-rgeded individuals at every turn. speaking of the ex hinit the judge expressed it as his op-
inion that it was the best that had ever been at Toronto, both as regards numbers and the quality of the
individuals. Among the individuals, Among the animals worthy of special note were; Schuil-
ing Sir Posch, cwned by Legre, which ing Sir Posch, cwned by Legge, which
br.ll was awarded the Grand Chambt.ll was awarded the Grand Cham-
pionship. He was the champion last pionship. He was the champion last
year, and is a bull of wonderful conyear, and is a bull of wonderful con-
stitution, of great size, combined with stitution, of great size, combinco wing
the sery best of quality, thus being the sery best of quality, thins bermg
an animal the likes of which are eagan animal the likes of which are cags-
erly sought after. The junior champion was the two year cld Prince Abbekirk Mercena, owned by Hulet. He is an exceptionally good bull, possessing the hest of constitution, and the other strong points of the typical Holstein to that degree which promises that he will be heard from again later. The aged bull, Lord Cornelius Tensen, shown by the Trethewey Model Farm, and which bull was the Junior Champion last year, might moder the scrutiny of some judges,
havee heen placed himher Ho have heen placed higher. He whe awarded third prize. He is a typical Holstein bull, and if L,rought out another year will in all probability be placed a grod deal higher. As shown byside the other two that were awardod places ahove him he did not possess Quite that substance necessary to win
alonuside of the strong company in
and which he was placed, although a very fine bull.
Among the cows Hellon Bonheur Quewn, cwned by Rettie, shown in the aged class, was a very typical Holstein, and a very beautifil one BeFond the fact that she was possibly a dithle short in the neek she would ber Gatticult to fault, De Kol Pauline the four-your-otd class, was mentioned the four-Your-itd clats, was mentioned
by Mr. Anderson, as being one of the by Mr. Andersan, as heing one of the
best types of Holstein cows that has ever been shown at Toronto. The threeyear-old Pauline Colantha Posch owned by Hulet, was an esceptionally
fine individual, in fact one of the fine individual, in fact one cf the
best. She is a strong cow and will be
倍 best. She is a stron
heard from again.
The young stock made a grand display, and were of a very high order in numbers and quality throughout. In connection with the herd prizes it may be said that there were never better females shown than in the old herd class, the first prize for which was awarded to Rettie.
Placings were made as follows :Bull, three years old and upwards 1, F. A. Leegee, Schuiling Sir Posch 2. James Rettie, Count Mercena Poseh: 8, Trethewey Model Farm. Lard Cornelins Tensen; 4, R. F. Hicks Count Faforit Mercena.
Bull, two years old-1, Hulet, Prince Abbekirk Mercena: 2, Rettic, Francis Calamity De Kol; 3, Dennis Sir Wcodland Sarcastic, , Rettie, In Bull, one year oft Tritom Ind's Abbekirk, 2, Non Sons.
Wopke Pasmarville ; K. King Norine
W. \& Kopke Pasma; S, Gummergill Echo; 4, Hulet, Connt Tensen A. Bull calf, under one year old-1 Rettie, Bonheur Fafcrit; 2, Rettie Count Netherland Mercena: 3, H \& J. Mckenzie: Faforit Mercena 10th;
4. Lakeview Stock Farm, Lakeview 4. Lakeview St
De Kol Fayne.

Bull calf, calved after January 1 1910-1, Rettie, Schuilling Prince; 2 Legge, Coral Canary Posch; 3, O. D (Continued on page 9)
legeg

The Nix
 ....n.

# Meal Re 

 1. Should br What would winter feeding clover and titeloeding ford Co., Que. Bran alone very good n oats, one pa would be a meal ration. 2. As a me
with rougha clover and ti gest : bran, 200 ths. ; oats If gluten, available the cake meal to might enter placing bran far as feedi oats are abou cows. Not meals should Ottawa.

## Food for $\mathbf{N}$

 veare old. shever
ver not eat well. A would like to kt feed which wor ront-J. E., C

The Feeders' Corner
The Feedors Corner is for the use of
our subecribers. Any interested are in-
vited vited to ask questions, or send itema of
interest. AIf questions will reeeive interest. Alf questions will receive
 To Winter Sows on Clover Hay periments wne carrind on at the Cago exExperimental Farm with clover hay as a feed for brood sows. I believe they were allowod to run out of doors alt winter. Did the brood sows live on clover hay without supplementary feeds If no, how mueh ex-
tra were they given tra were they given? Would this method here in Wellington County? Sur elimate $\mathrm{O}_{n}$ in Wellington County? - Subscriber On the occasions in question the brood sows did not live on clover alone. During November, December follows: as much clover hay as they would eat up fairly clean, about 3 lbs. a day) roots eight to 10 lbs , and one to one and a half lbs of bran dails Turnips were cooked. Mangels, sul. ar mangels and sugar beets were fed raw. The sugar beets were pulped When turnips were fed they were given hot with the bran added to the en hot with the
time of feeding.
single had no cther protection than single board cabins well Ledded and
properly ventilated properly ventilated. They came through the winter in excellent shape and without exception gave good large litters of thrifty pigs. They were of course fed a more liberal meal ration
during February during February and March, just before farrowing
Such a plan of wintering wot ld prove entirely satisfactory in Wellington county or any other county in Ontario or in Canada for that matter A good windbreak, that is a wind tight quarters and lots of peod for sleeping provided for bedding. I. HeG straw

## Meal Ration with Ensilage

ration with greea corn silage this falls a What would be a good ment mixture foll? winter feeding mileh cows fed silage, straw, clover and timothy hay?-H. I. L., Sheflord Co., Que.
Bran alone would not constitute very good meal ration for use with green corn. Oil cake meal, one part oats, one part; and straw four parts would be a much more satisfactory mea! ration
2. As a meal ration suitable to feed ith roughage of corn silage, straw, clover and timothy hay I would suggest : bran, 500 lbs.; oil cake meal, 200 Ibs. ; oats, 100 Ihs.
If gluten, er cotton seed meal are available they might replace the oil cake meal to a certain extent. Oats might enter in more extensively replacing bran if more convenient. So
far as feeding value is concerned, oats are about equal to bran for milch cows. Not less than three different meals should enter into a meal mix-ture.-J. H. Grisdale, Mgr. C.E.F., Ottawa.

## Food for Mare Without Teeth

 years old. she has lost her teeth mare, 16 not eat well. As she is a valuable mare, I would like to keep her. How can I prepare feed which would keep her in good condition P-J. E., Colchester Co., N.S.For such an animal I would sugeqest erushed oats and bran about equal parts as suitable for grain and
meal ratien. If tran is not readily available then part of the oats might be boiled whole and about one lb of oil cake meal added to 10 lbs. oats. oil cake meal added to 10 lbs. oats.
For roughage, fine clover, oat chaff For roughage, fine clover, oat chaff into four inch lengths or thereabouts would prove satisfactory.
Dampening the roughage an hour or so before feeding by sprinkling with water in which about two tablespeonfuls of salt has been dissolved
per gallon of water will aid digestio
and
facilitate mastication.-JHG.
Grain for Ewes in Winter I have a tlock of 30 ewes to carry through the winter. I will have plenty of grod age. What grain feed should I of eorn in sil dition, and what feed should I need in ad adviseP-T. M. K., Middlesex Co., Ont. Ewes on good clover hay and corn silage will not require very much meal in addition thereto. In fact during December and January it would be as well not to give more than four or five lbs. oats a day among the lot. As the season advances however, the addition of a slightly greater amount of meal to the roughage in question would be found to have a beneficial result upon the lambs produced and upon the progress they will make af ter birth.
As a meal ration suitable for breedimg ewes on the roughage in question would suggest starting with wo-thrids ib. daily and going up to wheat bran 200 lhs., whole oats, 200 lbs., and nutted oil cake meal, 100 the This constitutes likewise, with ed corn a most excellent ration for edecorn a most excellent ration for

FARM MANAGEMENT
केक巾
Applying Manure to Corn
When is the best time to plow and How ean we improve corn next sensont in mossed over and very atony? pasture that Shefford Co., Que.
Manure
during the preceding may be applied tumn, winter or in the spring aulbefore plowing. Best results may be unticipated from applying in the spring just before plowing or during the preceding summer. So many factors other than time of applying, however, are likely to affect the re-
sults that it is really quite impossible to say what is the best time to apply manure for corn land.
The following general principles are hewever worth following as close-
ly as possible. Apply in suly
ner that the soil will, be left as com-
pact as possible. Try to work in when the manure is wet or well tramped down and evenly distributed. Do not apply too heavy a dressing: from 15
to 18 ton an acre to 18 ton, an acre will give hest re2. To improve the pasture mentioned apply barnyard manure, 10 tons an acere in the autumn. Spread evenly and harrow three or four times with a heavy, narrow harrow, Leave till sorimg and then appls 100 lbs , nitrate white dutch clover and twor, two lbs. white dutch clover and two llis, al-
sike sued per acre. Harruw aftersar sike seed per acre. Harrow after seeding with a light harrow. Roll if possfo. If barnyard manure is net available harrow as indicated in the fall following spring. and grass seed the fohowing spring.

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ground in the shade to cool and color for sorting Seven-eighths bushel
Laskets holding 50 pounds net, with Laskets holding 50 pounds net, with
slatted, hoop-rim covers, are used for slated, hooprim covers, are used for
shipping. The haskets are papered placing the tomatoes elosely tegether stem side down with stems removed
so they will not puncture the other so they will not puncture the other
fruit. ruit.
We
We pack as solidly as possible. We fill the buskets level full, fasten the cover with the cross slat and they will ship safely.
When packing
When packing we rejeet sill rough or affected fruit, and put most of th largest and best fruit at and near
tho bottom with most of the smaller the bottom with most of the smaller
and medium sizes at the top. This
men and medium sizes at the top. This
surprises the purchaser and makes a surprises the purchaser and makes a
favorable impression on him. When favorable impression on him. When
using the last of the fruit it influusing the last of the fruit it influences the customer to think of getting another basket as grood. It in
unwise to put in a basket what you unwise to put in a basket what you
would not be willing to buy at your selling price.

If a city whoissaler is not within reach a retail demand must be created where such is possible. We
have a list of about 200 Adirondack have a list of about 200 Adirondack
hotels. camps, grocers and pedlary to whom we send a postcard price list every Saturday. These postals
are printed by us with a ruhber type erstal press, and quotations changed weekly aceording to our supply and
the demand. We do not try to compete with market prices. We cannot and keep good our guarantee of satisfaction with our goods.
These pestals are made as catchy as possible, one day reading like
this: "They say 'If it's from langthis: "They say 'If it's from Langdon's, it's all right.' We say, 'If tyy
mistake it is not right we will make mistake it is not right we will make it right,'" To-day, Aug. 15, they
read, "Tomatoes, those fancy red ones, in better supply, this week,
only 83.00 per bkt., U. C. top, U. C. all. Send on your order for "
nice hasket."

Ancther point-if mistakes are ments are damaged by the express company, or for any reason the fruit is dallaged, it is well to meet the then take a good large dose of the Golden Rule.
This, in a few words, is the way by which we have built up and hold a gocd domand for tomatoes at from gocd domand for tomatoes at from
$\$ 4.00$ for first early to $\$ 1.50$ later in the season when tomatoes are selling in Utica at 50 cents a bushel or less. From two acres of our Northern Adirondack Earliana we sold 400 Adty pound baskets for $\$ 900.00$ last

## Horticultural Notes

No. 1 apples and pears, beth early and late varieties, will find a ready sale. Early apples offered in local
markets as well as in the Northwest markets as well as in the Northwest
are finding a ready market at good prices.
Clarkson fruit growers shipped two cars of berries this season through to Montreal in iced cars. The shipment was a ecmplete failure. They went by ordinary freight and through neglect were not iced. A fruit train from the Niagara Peninsula for Montreal passes through Clarkson each evening. Fruit for Montreal is loaded on to this train and as the cars are ventilated and make the journey
during the nisht, the service gives during the night, the service gives good satisfacticn. The cool night air
circulating through the cars does away with the necessity of icing them.
them.
Fruit growers are very much handicapped by the commission men in Toronto charging a cartage commission they handle. A cemmission of two they handle. A cemmission of two
cents is charged on 24 -box Lerry crates, three cents on 36 -box crates
and five cents on a bag of corn. Thesf
charges are considered to be very unjust since a great bulk of the stuff is never delivered, the hucksters and others coming to the commission men or the preduce and taking it away:
tence this commission goes directly in the pockets of the commission

## POULTRY YARD <br> Appearance vs. Performance

E. Terrill, Northumberiand Co., Ont We farmers have for years in connection with our stock paid too much 1 well retuember as a Eoy hew my father used to admire the cow "Tidy" Her heifer calf must of course, be kept! She gave a very indifferent amount of milk, but then she was nice to look at, and to show to our friends that came to see us. Since the in-
troducticn of individual milk records. dis old idea has been pretty muel displaced in so far as it relates to
cows, but how about hens? Countless cows, but how abott heps? Countlesp
farm flocks are kept more for appear ance than for production. At least the results obtained would warrant such a conclusion
At one time. I kept hens for their appearance. Now 1 want them to
tay. I have had White Leghorns for
over 30 yearn and over 30 years and consider them to be a great farmer's fowl. I always aim t. get new stock from good laying
strains. Our 100 hens during last April, May and June, made over 8101 for us, not counting the higher prices sold. 1 for special settings that we They are laying 50 eggs a day even at this date, August 20th, when so many farm.
differently.

## Crate Fattening of Chickens

W. W. Dods, Middlesex Co., Ont, In former years, I practised crate fattening of chickens. Lately, how-
ever, all the fowls that I have Leen ever, all the fowls that I have Leen
able to raise have been sold for breedable to raise have been sold for breed-
ing purposes. The chickens were fattened in crates for abcut three weeks. They were killed by cutting the vein in the back of the throat.
Bleeding will be much better when the birds are hung up for a few minutes with the head down before When the vein.
When the chickens are dry picked and placed in dressing boards over
night, they have tractive appearance. My chickens were shipped to special customers in Toronto. The price received was never less than 15 cents a pound, the
dealer paying transpertation charges.

## Horse Manure in Poultry Yard

ing strawy horse manure into the hen yard for the hens to scrateh through?Preve Bhefford Co., Que.
Provided the manure was quite strawy and dry, there wetld be no objection to using it as you have mentioned. It should not be allowed to accumulate however in too great quantities and when wet with the
rains should be removed. However it is doubtful if there wculd be any ,enefit derived and the labor of the oxtra handling would be lost. The to a large extent be destroyed. Lying loosely in a yard would give ideal conditions fer the decomposition and loss of nitrates.

Duck culture is like every other industry. It requires some careful study. It is necessary to know what you are doing now, and what you will
do next.-A. G. Taylor, Macdonald

Bales, Prin Demmis, Puforit; Lakevi

Holsteins at Canadian National Bales, Prince Faforit Mercena Dennis, Queen's Setherland Peer's
Fiforit, Fuforit; 5, Lakeview Stoek Furm, Lakeview Count Madura: 6, R. F. Hicks, Count Faforit Tensen. Bull, Senior and Grand Champion Eull, Junior Champion Roseh. Tritom Ind's Ablekirk. Cow, four years
Rettie, Helbon Bonheur GuensHulet, Aulinda Crown De Kol Hule, Aulinda Crown De Kol Ka
Hicks, Rideau Delilah Lena De Kol 4. Rettie, Olive Schuiling Poseh: 5 Clemons, Mary Andersun 3rd: 6, Lake Cow Stock Farm, Rose Rattler.
Cow, four years old and upwards dry in calf-1, Rettie, De Kol Panl ine Sadie Vale: 2, Rettie. Faforit 7 tin 3. Clemons, Beanty It Kol; 4, (Yem-

- ons, Rese De Kol Trake

Pauline three years old-1, Hulet, Pauline Colantha Posch: 2, Rettie Rosa Bonheur Bealty; 3, Rettie Shadelawn Machthilde; 4, Hicks, Faforit Mercena Belle; 5, Hulet, Guza Aconeth Calamity
Heifer, two years old-1, Rettie Cornelia of Homestead; 2, Clemons Alice Wayne 2nd; 3, Hulet, Ladega Idaline Veeman; A, Legge, Fanni Concordia De Kol 5th; 5, Hicks, Delilah De Kol Johanna; 6, Legge, Rosilind Posch.
Heifer, one year old. Senior-1,
Rettie, Pontiac Atlan Maid 2nd; 2, Hulet, Perfection's Toranto Queen; 3 , Dennis, Queen Artis Faforit; 4, 5 and 6. Clarksen, Blue Bell Beauty, Lads Merrena and Lads Beauty.
Heifer, one year old, calved after 1 1st, 1910-1 and 2, Pride Mercena ch and Jessie Posch Ind; 3 and 4 , E. Hulet, Pauline Colantha TenE. Hulet, Pauline
and Alice Tensen.

Heifer calf, under one year-1, Rettie, Sadie Mercena; 2, Hulet ; 3 and i, G. H. \& J. MeKonzie. Dillie Brightest and Prineess; 5, Clemons, Ever-
areen March 3rd; 6, Retue, Beosie prien March 3rd
Ftsch Mercena.
Heifer calved after alan. 1st, 1910.1. Rettie, Mercena Schuiling 4th: 2 , Dennis; Bessie De Kol Faforit; 3, McKenzie, Edgemount Laura; 4, O. D. Bales, Faforit Fairy Beauty; $\overline{5}$, Clemons, Maple Hill Audrey; 6, Lakevien Strek Farm, Lakeview Queen.

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HON. JAMES S. DUFF, Minister of Agriculture, Toronto, Ontario

Four animals, the progeny of one bull, under two years owned and bred Dy exhibitor-1, Hılet: 2, Rettie; 3, Herd A. Clemons.
Herd of one bull and four females
ver one vear 1, Rettie. old, owned by exhibitor 1, Rettiv; 2, Hulet; 3, Legue ; 4, Clemens.
Young herds consisting of one bull and four femakes one year oold and
under two vears , Retin. 3, Clarkson \& Sons: 4, Lanke. Hulet

## The Jerseys at Toronto

Jerseys at the Toronto Exhilition this year were represented principally
in fact almeat wholly in fact almest wholly, by the well known herds owned by David Dun-
can, Don: Wm. Masengen can, Don; Wm. Mackenzie, Kirkfield; and B. H. Bull \& Son, Brampton. It would seem that the Jerseys so far as the Canadian National Exhibition is concerned, have been given over enirely to the larger breeders who ar cut was a commendable one. It is to
col he regretted, however, that reprosent atives frem the smaller herds, of
at which there are many, and in which are to be found many ehoiec animals Evidently the sut Toronto.
Evidently the smaller breeders have mot the couraze to face the competition that can be put up by men of
menes. than is heing siven at present, mors to be handed out to smaller breeders through placing classes in the prize hy for amateurs, or for cattle bred
The Kirkfield Jerseys were exhilit. ed in partieularly fine condition. Geed the awards. Ho A.sdain, A.I., placed well pleasel well pleased with the showing, althongh he was certain that there had been much stronger exhibitions of
Jerseys at previous Toronto shows. He was greatly taken with Mr. Mac kenzie's cow Gelten Jolly Champion,
which cow was awarded Championship of the arded the Grand cording te the of the show, and acThaning animal in any ring. lasses awards throughant the various lasses were as follows
Mackenzie ycars old and upwards Duncan, Fontnine's Boyle. Bull \& Son, Brampton Jolly Oaklani and Brampton King Edward
Brampton Ruhby Foreer-1, Bull of Son Brampton Ruby Fereor; 2, Mackenzie
Beulah's Raleinh of Kind Beulah's Raleigh of Kirkfield; 3 ,
Gruer Eastate, Mount Foreat, Ont, Gruer Fistate, Mount Forest, Ont.
Forest King; 4, Bull \& Son, Bramp ton Cantalas King.
Bull, otre $y$-ar ohd-1 2 and 3. Bull ASon, Brampton Stockwell, Brampton Fox: 4, Gruer Eatate Miton Eminent Bull calf, under che year kensie, Grey Unass Kirkfield; 2,2 , Buncan, Eminent Royal Fern; 3, Bull Fison, Brampton Blue Fox
Fstate, Mount Forest Star.
Bull calf, calved after Jan. 1st, 1910 Fern 3 and 4, Bull \& Scn, Brampton Fern Lad; Brampton Patty Fox and Brampton Merger; 2, Duncan FounCow Oxford.
Cow, four year old and upwards-1,
Mackenzie, Golden Jolly Champion: 2, Duncan, Lady Primrose of Don: 3 , Bnill \& Sons, Marquillas Golden Lassie; 4, Mackenzie, China Mirande of Kirkfield.
Cow, three years cld-1 and 2, Macfield and Invernia's Oueen of Kirk field : 3 and 4, Buil \& Sons, Brolhit Financial Cotntess. Brampton Blue Marjoram, Cow, any age with twe of her pro-geny-1 and 3, Bull \& Son; 2, Dun-
Heifer, two years eld-1, Mackenxie, Mancella's Rose: 2, Bull \& Son, Brampton Rochette; 3 and 4, Duncan, Matinella of Don.
Heifer, one year old-1, Mackenzie, Kirkfield's Mabel; 2 and 3, Bull \&

Sons, Brampton Goldmont Jess and
Brampten Foosy Brampten Fosy Adelaide: 4, Mackenxie, Thoughtftil Pet of Kirhfield. Heifer, one year old, out of milh
Mackenzie, Butterflys Duel Duncon, Fiona of Don: 3, Mackenzie Kirkfield's Invernia; 1, Bull \& Son Brampton Fereor Tister, Bnil \& Son Heifer calf, umbler one year cld.-1, 2, Dencan, Cora of In Fontaine Ril
 Brampton Blue Duchess. Bull if Son. Heiter calf, calved after Jan. 1st,
$1910-1$, Bull \& Son, Brampton Tilly Fox; 2 and 3, Hattie Bell and Aga. than's Cotibe; 4. Bull \& Kon, Bramp-
torrinne. Four animal
one bull, all breel and progeny of exhibitor-1 and 2, Bull \& son:3 and 4. Duncan.

Herd consisting of one bull and heifors to hibitor and alse owned by him.-1 Graded herd, owned by then while. tor-1, Mackenxie; 2, Duncan: 3 aad 1. Bull \& Son. mato-Mackenzie, Prand championship Junior champion- Bull \& Son, Bramp ton Ruly Fereor. Bull \& Son, Bramp-
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not harm ilewh. When you spray for chew ing insecte you also kilf seale presont chew of season should show scale to be exter
minated Only minated. Only one remedy zeeded againat peats upon any vegetation. This year's re-
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FARM AND DAIRY
and Rural Home


## THE EVIL GROWING

During the past ten years a most
andesirable change has been crecping over our ayr ricultural cahibitions. Within thy of many the time was
where arely agnin in nature Of late years,
howryin in the United States and now in Canada, the introduction of -pecial attractions has altered the situation. Exhibition after exhibition has fallen under the control of men more races and grand stand performances than in the encouragement of agriculture. Many societies now spend more on special attractions than they do for all akricultural purposes combined. Some years ago it was shown that the
societies In the state of Connecticut were spending three dollars for attractions to every two dollars they spent on agriculture.
Gradually, but surely, the same change is taking place in Ontario. It is all the more dangerous because in. sidious in character. Whereas a few years ago there was not a society in Ontario that spent as much for attractions as it did on its agricultural features, now there are a number.
The report for 1910, of the superin-
tendent of agricultural societies for Ontario, gives in the tabulated reports
from the societies, published in the back, the following interesting information conererning the societies
named. Other sorieties not quite so had mikht be inentioned.

|  | Total prize | Spent on Attras |
| :---: | :---: | :---: |
| Society | money paid | tions |
| Kineardine | 8399 | *342 |
| Kast Elgin | 687 | 1893 |
| South grenville | 1034 | 996 |
| West Huron | 712 | 845 |
| Caseiman | 203 | 315 | As societics are not required to show

in their government reperts the in ther government reports the
amount they expend for horse races the returns do not indicate the true conditions. Ten years from now, the number of societies like the foregoing will have increased considerably an-
lew something is done in the meantime to bring about an improvement. 1 society that expends more money on horse races and special attractions than it does on its agricutural features can no longer be considered to have the promotion of agriculture as its
maip object. It is no longer entitled really to be called an agricultural so ciety. It is, in fact, apt to work more harm in a comanumity than good, and is no longer en
ernment grant.
This is a matter that should be dis cussed earnestly by the members of the Ontario Association of Fairs and Exhibitions. It is certain in time to affect their interests vitally. Their of ficer- who prepare the program for their next convention, if they are wise and really desire to promote the best interests of all the societies, will make provision for a discussion of this subject. After all, however, it is a matly by the Department of Agriculture. May we ask what the superintendent of agricultural societies and the infinisof agriculture propose to do about Are they going to show courage by dealing with it on a sound, common to merely permit matters to drift from bad to worse? Conundrum.

## ROADSIDE WEEDS NEGLECTED

The indifference with which road hature, are rekarded and allowed to go to seed in so many localities, is ittle short of alarming. It is shor ighted policy to allow these weeds to y to the labors of hundreds of farmers who later on will have an increased strugste in keeping down weeds upon their farms, which adjoin these nestected roadsides.
Roadsides that are neglected would appear to out-number this year those that are being looked after. Herd laws might well be relaxed in such cases rather than to have weeds go to seed. Any inconvenience from having the neighbor's stock at large would be more than offset by the advantage of having the weeds destroyed.
Why do not municipal authorities look after this matter? The railways, in the main, are doing their part and are setting a good example in this regard. Here and there occasional farmers with their scythes have waged war
with the roadside weeds adjoining: their own property. Such is commendable work, and but for it the eyesore which now obtay

METHODS OF SELLING CHEESE
It would be difficult to imagine more unsatisfactory method of selling cheese, both as concerns makers and patrons, than that which is practised throughout Ontario and the greate
part of Quebec. The chewse is graded by the buyer after it has left the hands of the maker and, as practised, the grading is more apt to depend upon
the state of the market than upon the quality of the cheese. Ouebec makers have led the way in bringing about reformation in this matter some of
them now sell their cheese coopera

## tively.

Onder the system as obtains in Ontario, the maker sels various grades tuality of cheese. He is at a loss to know what is wanted. The system of grading is demoralizing, so far as the maker is coneerned. His second class
chese on a rising market sells for finest. On a slow market or upon falling one, cheese of the same quality follows that the maker thinks himself cheated.
Under the new system, as is now current in Quebec, members of the co
operative society of chese have their cheese graded by a kovernment ofticial. Uniform grading is the result. Makers are thereby encourag know full well that a rising market will not in the least smooth over any deficiency. Member of the society
are well pleased with the success of cooperative selling. The member ship in the society is increasing.
The bencfits of kovernment gradin 4 and cooperative selling of cheese have been well exemplified in the case of the Quebec cheese makers. Others in
Quebec and those interested through. out Ontario or other provinces, where cheese is made, should give serious consideration to this new method of setting cheese. It is a vast improvement over the method that more generally prevails, and as such it cannot

## WEALTH FROM THE DAIRY COW

 There are great possibilities of in creasing our national wealth from the ding cow. Increased wealth must ome from increased production, and it is possible to increase the annualproduction of wealth at least 30 per cent. by improved methods in feeding and breeding dairy cows and without increasing the number of cows kept. A Nova Scotia dairyman elsewhere in this issue estimates if the average production of the dairy cow in Nova Scotia could be increased from $\$ 40$ to
$\$ 100$ a year, it would mean an added income of $\$ 7,000,000$ annually for that province. This would mean an increase in the total annual production of the province from all sources of 30 per cent., and in the agricultural products of almost 50 per cent.

The dairy cow can be made to produce $\$ 100$ gross revenue annually. This
has been proven by hundreds of good dairymen in various parts of the Bominion. In no other line of industry is it possible to increase the efficiency of plants by 60 per cent. through bet-
teer methods of management. No other industry offers such opportunities of increasing our national wealth as does the improvement of agriculture, and and dollars spent on akricultural education and in promoting the work of cow testing associations, would do
more for this country than the millions of dollars which are now being spent in building up urban industries, some of which are able to run only because of government aid and are no real addition to the wealth-producing power of the country. Giovernments, both Federal and Provincial, should not hesitate to spend money on agnecutural education where the possible results are so great.

For some years the Ontario law relating to the suppression of games of chance at exhibitions has been fla crantly broken each year at the Cen tral Canada Exhibition, at Ottawa
The city police have stood and calmly watched the kames in progress. Offic ials of the Department of Agriculture at Toronto, who are expected to pay attention to this matter, have neglected to do so, as far at least as the Ottawa Exhibition is concerned. We trust that this mere statement of well known facts, will lead to an improvement this

## Taxation and the Farmer

## Winnipeg Free Press.

An official return laid on the table of the British House of Commons shows that in the Highland crofting counties of Scotland the area devoted to deer forests has been increased to $2,058,490$ acres, which, under the system which the Lloyd George legislation is to do away with, have been assessed at a total valuation of only $£ 132,041$, or less than $101 / 4 d$. per acre. Much of this is suitable for crofting. The crofters have been cleared away, to make room for deer. The great landlords who have thus depopulated vast regions of Scotland have had their deer forests assessed at less than a slilling an acre, while those of the evicted tenants who have not emigrated have crowded into the towns.
If four landlords owning lands which God gave to men, depopulated two million acres of industrious croft ers in 100 years, how long and hat many landlords would be necessary to make it possible for even the Devil to live in Scotland, provided the government continued only to tax the croft-ers-nice little sum in mental arithmetic, isn't it? Here's another
If the province of Ontario in nine years, by her policy of fining men in their rates of industry and improvements, at the same time granting special privileges to all the industrial berons, who own big factories, has lost 63,000 farmers, as the Deputy Minister of Agriculture for that province shews that she has, how long will it be befor the people will have to take stepladders along, when they go to the grocers-to reach the price of living?

## A Bad Weed Deacribed

 GuelphField Bindweed (Convolvulus a vensis) is a perennial weed introduced extensive, cresping cord rooted with root stallis. These throw out numerous slender, twining, suosth stems which form thick mats on the surface of the land and twist around any plants growing within reach, using them us supports and choking them out. The leaves are abent one to one and a half inches longs on slender stalks; they are ovate or heart shapod, arrow shajued at the base; the flower staiks are slender, about the same length as the leaves and are prosvided with small leaves at some dis. tance below the large, open, funneltance helow the large, open, funnet-
shaped, pink flowers, which are over an inch across. The fruit is a round tinc-celled capsule contaning three or rour hrown recels.
Hind
Bindweed is exeoedingly hard to eradicate once it becomes established. Tho creeping root stalks, if lroken up, grow at the joints and produce new plants.
Small mathous of contiol.
Small patchos of the weed may be destroyed by digging them over care-
fully and romaving Then apply a heavy covering of short cut straw or lawn grass clippings; this


Field Bindweed (Coavolvulus Arvensis)
depth and well tramped down and a fittle earth thrown on top. The patch must be watched and, if any of the bindiweed is noticed growing up through the covering or out around the edges, it must be ptiles.
In large patches Bindweed is excoedingly difficult to eradicate and careless cultivation only increases the
trouble by carrying the roots from place to place. Salting is recommendod by some practical farmers whe have succeeded in eradicating this very troublesome pest, but we cannot speak from experience as to the value of this method of treatment.
The weed can be kept in cheok by the frequent introduction of well-cared-for hoed creps into the rotation;
C. The shorter the rotation the better, ally rape, are more effectual than those sown enrlier in the season Be fore the hoed crop is sown the weed may be kept in cheek by going frequently over the field with a broad shared cultivator so as to cut all the plants an inch or two below the surface without bringing up any of the creeping roctstalks.
About the first of July the land may le sown with pasture rape in low ridges about 26 inches apart, lising a
puend and a half of weet an acro, and during the varly growth of the crop the weed may be kept in cheek by means of the cultivator and more or ioss hand hewing. If the land has been woll manured or is naturally rich in vegetable mattor and the seed is sown
whon the mat in When the soil is noist so that it gets
an parly start, rank growth and soother will make a wreds. Tho rape may be pastured in
the fall and in some lowed and in some cases may be folcorn. If another hoed crop, such as and hoeel, most, perhaps all, fe the plants will be destroyed.
In some cases it may be advisable to summer fallow, and in such casess it is best not to plow more than is abmainly on thoury, but to depend Cri. Buckuhat sown on summer ntorw and plowed under when comims vation with followed by surface celtitur, will askist very much in killing the weed. If vecowsary the summet fullow thay hee followed l,y is howed crop.

## A Great Decrease in Hogs

Editor, Farm and Dairy, In gard to the hog situation, Mr. Huffhan weigh-master of Kincardine sealess hal me time more not one half as many hogs weighed in Kincardine in 11099 as in 1908 and there was at hig decrease from 1908 to 1909 and prohe ably between 10,000 and 12.0010 hown coss weighod in tewn in lsw9 than in 1906.

There may be a slight increase in Mumbers next year but not very much. five homs seem more content to grow and there are few so anxions to grow hogs merely to uphold the reputation of the Canadian bacon trade. Neither have they confidence in the paesera to tay more than they can get c'It of it as the lessons they received in the past were sufficient to make them can-
tions. tious.
Anyway what's the use of any row about hogs. Farmers, intelligent ones,
will will grow what suits their conditions
and situations best and situations best and dispose of it in a way in which they will receive
most for it. I doubt if there are who will feed many hoss for four conts a pound for a while.-J.E. Harrison, Bruce Co., Ont.

## Better than a Gold Mine

## Edilir, Farm und Dairy, O

 farmors to not appear to be increasing the number of their breeding stock of hogs. There is not any greater number of hogs in the farmers hands than a year ago. In fact, I believe there are fewer hogs being fed for market this fall than last year.The principal reason that farmer homs in mereaso the number of their supply of coarse crain and athor hog foeding umeler preend atthough grain, and hop products arices of margin of profit, many show a kood ers refue to buy many of our farmchances the brain and rin their At hances on the market price of hegs. At the prosent price of hogs there is no branch of stock raising that will show as great a margin of profit and it looks to me that we are going to have high prices for perk for some time to come. Some of the pork packors think the price of hogs must come down. I do not sce it that way, the stocks of cured meat are very light and the supply of hogs coming in so fimited that there can be no accumulation of eured meats. I douht if there will be sufficient to meet the increne ing demand. Hog raising is a better proposition than buviag steck oner kold mine.-J. E. Brethour, Brant Co., Ont.
Your paper is second to none. Some of our patrons are taking it Geo, Brayman, Carleton Cc., Ont.

## (

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The Great Eastern Exhibition traoke Que. Exan visiting the Shertime, cannot well help bwing the firse "d by its size and general excellence
The exhibition held there from Aug. 27 to. Sept. 3 , was to the province. Everything considered, it compared favorably with the Ottawa, Lomdon and Toronto exhibi tions. While the buildings in some respects are inferior to those at Ot-
tawa, they are ample and well ed as regards their lecation on the The exhibition is well managed. The directors are wide awake and enterprising. Educational features such a
applo packing demonstrations, dairy tests, und butter making competitons, Were a valuable feature of the
show. The grand stand performunee were high-class and except that games of chance flobrished openly on the modway, there was little to which ex-
ception could be taken in the managi ment of the show. Around the hotels grace to the city. cptionally extrit of live stock was ex The presence of horsus imported fros The presence of horses imported from iving in the neighbering state of VerHon. Sydney isher, Dominion Minister of Agriculture, not only attend ed in person, but made a creditabl

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More breeds of horses and cattle
were represented than are commenty
seen at the leading Ontario shows. In addition to Clydesdales there were strong exhitits of Percheron, French Canadian and Belgian horses, as
well as of hacknevs, hannes well as of hackneys, harness hormes
and thoroughbreds. In the cuttle classes, net only were the three standard dairy breeds, Ayrshires, Hol
stecins and deresy well steins and Jerseys well represented
but there were but there Were ulso pood exhibits
of
French-Canadian , (fuerneys Brown Swiss cattle. The beef clases vero represented by Shorthorns, Here icrds, and Poolled Angus.
The fact that the livest
The fact that the live streck seetions were well filled, is hardly to be wondered at, in view of the fact that In several cases for horses, and prizes
of $\$ 30, \$ 20$ and $\$ 15$, and of $\$ 20$, $\$ 12$ and \&s in a number of the cattle chasuses, In the swine division, prizes
 report of prize winness in cach class
will he given in Farm and Doil week.

Cheese and Butter at Toronto here larpest extibith of chesese in the Custory of the Fair was on display at
the Canadian National Exhilition this car. There were over 250 cheesen on Che shelves - not as many as have been here in scme years previous but form-
crly an extibitor mivht coter crly an exhibitor might enter two or
more cheese. last year there wore more echeses. Last year there were
151 exlitibits. Throughout, the display 151 eslibits. Throughout, the display
nas of a very hiiph quality. The
whin chesese were of tuiform sizze and fin-
ish. Although made by makers in many diterent parts of Omtario, and of Quebec, the cheese showed remark
able unifornity. This Mr Paget, of Carrboro, who was in charge attributed to the present system of instruction as carried on by the Da
partment. The June and July chesese on exhibition were of excellent quality. Those
made in Angust were not so towd due in all probability to the extreme warm weather thint prevailed. Three
judkes, each workink indepuedent juckeses, each working independently
scored the chese. The
auards wer made on the basis of these scores. In previcus years one judge has done the
work The throw minently sativequelarge secheme proved tailed a and delayed the matter of makinu the ressilts known. again won by R. A. Thompson, of
 as well, took prizes in almost wery
class. This is the freatest swoep ever
made made at an exhilition.
Tha " butter
exlibit was of excellent quality. While it might have been
larger. still it was more than last year. The Butter Trophy valued at *oso, was won by R. M. Player, of Walkerton. The butter awards were as follows: Siclidss 1 , John Hention 1, Salted Butter 97 points: 2 , Henry Martin, Sew Valentin, Que., $961 / 1 ; 3$, W. H. Stewart, Frontier, Que., 96 , 1, R. M. Player Walketter Solids points :2, Geo. Cayes, St. Hyacinthe Ont., $97=4$, Henry Murtie, Paisley, Onti. 97,4 , Henry Martin, St. Val
entin. Que., $961 / 8 \mathrm{y}$ Section 8-1, H. Patrick, St. Thom-
 Milik Pourder Co., Brownsville, Ont. 991/: 4, C. A. Davies, Oakword, Ont., ${ }^{106}$ S. Section 4-1, John A. Logrie, Paiss
ley, Ont., 97 prints:2, Cey, Ont., 97 prints: 2, W. H. Stewart,
Frontier, Frontier, Que, $961 / 3,3 \mathrm{Jom}$. R, A1-
monte, silverdale, Ont., $96 ; 4$, Henry monte, Silverdale, Ont., 96; 4, Henry
Martin, St. Valentin, Quee, Q5 Sartin, st. Valentin, Que, $95 \frac{1 / 2}{}$ H. Pugh. Milverton, Ont., 93 points 2, Mrs. E. O. McRoberts, Bryanston,

Ont, $921 / 2,3, ~ M r s, ~ J a s . ~ H a m i l t o n, ~$
Living Living springs, Ont., 92; 4, Mrs Secticn 61 , Miss M 10 .
 Mrs. S. H. Pugh, Milverton, 92: Mrs. E. O. Mckoberts, Bryunston, Ont. 911/. .
 itton, Living Springs, $031 / 2$ : 3 , Miss Mrs. And. Thempson, Fergus, Ont.
Creamery class-Winner of Trophy alue sol given to the exhibitor hav
ing the highest score necresaty win three years in succession to to ome pessessor-Won by R. M. Play-

## Class 273. cherse awrims

hass 273 , section 1-June celored Dnt: : 2. John R. Brownson. Atwood Donald Menzies, Molesworth, Ont. J. E. Carter, Blomfield, Out. R. Section 2- July colored chense-1 4. Thompsen, Atwood, Ont.; 2 and cottsville and $C, A$. Barler of tive stock, Ont., id divided betwreen Me-
Kenzin Bros Kenzie Bros., of Ingersoll, J. E. Carter, of Blocmfield, Ont., and Donald Momzies of Molesworth. Thempesen: ${ }^{2}$, Done white-R. A R. Brown, 4, McKenzie Bros.
vided betweren III white- 1 and 2, diton, Ont, and John Cuthhertsen of Bismarck, Ont Section 5 , August colorel Thompson Thompson: 2 and 3, divided between W. Grieve of Listowel, Ont., and W. Grieve of Moorefield, Ont.; 4, Section 6, August whito
Thompson ; 2. T. J. Humphroy, Avonbank, Ont. 3 and 4 , divided between
Donald Menzies and Joln R Sonadion 7 . June Stiltons R. Brown Haction Wune Stiltons-1, H. W R. A. Thempson ; 3, B. J. Connelly, Thamesford.
Thompsen: 2, W. W. J. Goodwin, Bis Marck, Ont.; 3, H. W. Hamilton, Winner of Trophy-
to ther of Trophy-value 8150, piv"n to the exhibitor having the highest ore: necessary to he won three years
succession.-R. A. Thompson, Atin successi
wood, Ont.

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during Fall and Wrowing mushrnoms for us the best time to plant. For full partis the best time to plant. For full particu
lars and illustrated booklet, write, Mon treal Supply Company, Montreal.

## Cheese <br> Mater so matier diatit nogger anbed <br> Dairying

## The Mi

## Chese Department <br>   

## Dairying in Glengarry Co.

A. MacDonald, Dairy Instructor Gengarry Co., Ont
Factory conditions in Glengarry Co. from a sanitary standpoint are better than they have been. There has been a gradual improvement in this res-
pect for the past six or seven vears. pect for the past six or seven years.
There is room for improvement however in the fitting of the curing
rooms in crder that the rooms in crder that the temperature may be controlled. The time is not far distant when the cheese will have or until they are properly cured be fore being put on the market
The output of cheese this year has years With an for the past three years Wrowth of after-grass, prospects for a
gropticnally large arge autumn make are assured. The quality of the cheese made up to date this season has with a few ex-
ceptions been exceptionally good.
the Dairy Commissioner, Ottawa. Th Act comes into force on January 1, The chief Inspector of Weights and Measures, Standards Branch, Department of Inland Revenue, has intimated that he will be in a pesition to
receive glassware for verification any time after October 1 next. This any time after October 1 next. This
will give ample time to have all test Will give ample time to have all test
bottles and pipettes now in use veribottles and pipettes now in use veri-
fied before January 1, 1911, after which date no unauthorized test bot
tles or pipettes may be tles or pipettes may be used.

## begelations

The more important regulations as they now stand in this connection follow
All test bottles, pipettes, or measaring glasses, used in connection with the testing of milk or cream, except in connection with the tubes used In connection with the apparatus
known as the 'Oil Test Churn'. shall known as the 'Oil Test Churn,' shall
te forwarded, charges prepaid, to the te forwarded, charges prepaid, to the
Standards Branch, Department of Inland Revenue, Ottawa, for the purpose of verification.
All glassware sent for verification shall be received at the owner's risk. All glassware sent for verification must be perfectly clean on both the nside and outside surfaces.


One of the factories is a land now our formidable Competitor
A rear view of tha Cambridge Dairy and Factory, New Zealand, is here shown. The plied a considerable part of the trade which at one time tate years, and has sup factories in New Zealand are large and well equipped so that only Canadian. The first grade article.
Mest of the poor cheese was made in the early summer, when the season Was wet, eausing a large growth of
grass. This made the curd hard to firm and open and weak cheese resulted.

## The Milk Test Act

During the past two or three years, numerous complaints have been received respecting the inaccuracy of the glassware in connection with the
Babcock milk test. A prominent Batcock milk test. A prominent
creamery owner sent in to the Department of Agriculture, Ottawa, a 50 per cent, cream test bottle in which the marking showed an error of 10 ber cent. The Chief of the Dairy staff connected with the cow testing cork, have found a large number of ust bottles with incorrect graduation, he error in some cases being as , luch as .6 per cent. The Dairymen's Association of Western Ontario have by resolution asked for legislation to provide pretection against the in(1) thise which may arise from the use this inaccurate glassware.
In view of these facts, the Minister asked Parliament at the last session to pass a law for the proper regulation of this important matter The law is based on the same principle as that which relates to the inspection of weights and measures. The full text of the 'Milk Test Act' and the regulations thereunder were reproduced for general information in Farm and Dairy. April 14th. These wishing a copy of the full text of the

The Chief Inspector of Weights and Measures shall catse each bottle, picorrect within ang glass that is feund per cent. plus or minus, to be inefface ably marked with the outline of a crown, having within it the initial any such the reigning sovereigs and any such glassware not being found correct within the error herein speci-
fied, he shall cause to be destroyed without shall cause to be destroyed
wisation to the owners thereof.
The fee for the verification of milk est glassware shall be five cents for ach test bottle, pipette or measuring cd to the Standards. Branch. Department of Inland Revenue, Ottawa, with ach ecnsignment of glassware to be verified.
Any person who violates any of the provisions of The Milk Test Act or the iable, made thereunder, shall be of, to a fine not exceeding $\$ 50$ for each effence

## The Milk Delivery Problem

Wm. Drew, Prontenac Co., Ont. The patrons of some factories make a great mistake in not gcing to the netory early enough in the mornIn. I start to take milk in at six about 8.15 . The milk all goes in one vat. Just think of it! One vat of milk standing two hours and 15 ripe ates. The milk is getting quite ripe at the end of that time and has
during this warm weather. Especi
ally is this true on Monday ally is this true on Monday merning. venerally the first at the factory There is therefore no at the factory. should not all he here in time they course when the day comes to pay off there are a few who kick because the average is lower than that of the factery that gets all the milk in and the vat set by seven o'clock sharp. books patrons also think the whey morning that richer on Tuesday They than on other days.
heir complaint, come to the maker with talked over among themselves is all taked over among themselves. The
maker hears it, nevertheless. If they would come with their complaints to the maker he could explain where the trouble lies. I would i
would like others, either makers or patrons, to give their opinion cn Farm matter through the columns Farm and Dairy. The patrons this factory all draw their own milk, Wth the exception of one small load Vote.-Farm and Dairy weuld be pleased to hear from readers on this or any of the numerous problems in connection with cheese factory work. -Editor.

## Dairy Notes

The Manchester market requires soft made cheese, showing plenty meat, color as dead white as possible. In some parts of England season great difficulty was found in getting factories to turn on to making this class of goods, altheugh the importer was quite willing to pay a enhanced price for them, and to con tract to take the full make of the factory for the season.
Reports received from 32 factories and creameries show an increase of about 23 per cent. in the amount of milk received this year over that rewhile the increase in the number of patrons is less than two per cent. and in the number of milch cows about five per cent. The increase is due mainly to better feed and better care of cattle. There seems to be some improvement in the quality of the milk although one iactory reports returning $3,000 \mathrm{lbs}$, of milk on milch cows has increased about 12 per mileh
cent.
I pay by the Babcock test, for it lorces the patrons to send you pure milk. Those patrons whose cows do not give a great quantity of milk. the milk is worth. In paying accord-
the ing to the value there is more satiPaction amongst the patrons.- P Bisson, Bruce Co., Ont Have you forgotten to renew your
subseription to Farm and Dairy?

## PROOF

That Farmersallover the World are Dis. carding Common Cream Separators for

## SHARPLES DAIRY TUBULARS

We will mail to you, free, large pictures show. ing the emmense number of common cream newa-
rators recently exchanged for Sharples Dairy fubuiars. These pictures would cover more than on page of chis paper, and are positiveproof that far-
mers all over the world are discarding comer
machinge for machines for Sharples Dairy Tubulars. Thes pictures show just a short time accumulation of these discarded common machines. Write for
these pictures at once.

Sharples Dairy Tubular Cream Separators contain neither disks nor other contraptions, yet
produce twice the skimming force, skimf faster and Dairy Twice asclean as coumon machines. Because times eavicr and wes simple, they wash many common separators. Tubular sales exceed most, place more common separators than any one one
plaker of such machines sells. The Worty
mate maker of such machines sells. The Worlds Best.
The manufacture of Tubulars. is one of Canada's leading industries

## Urs

Write for Catalogue

THE SHARPLES SEPARATOR CO. т TBanta, our. wiwnipe, Mat

IF COWS COULD TALK CHAMPION STAMCHONS
are made of polished stee pipes, will
cause no irritation or chafe the neck.

Absolute Freedom

for the animal
STRONG AND HANDY

Send tor Our Little Leaflet
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тоRonto
ont.

## THE IDEAL GREEN FEED SLLO

Means More Milk
More Profit and Cheaper Feed.
Do not be satisfied with experimental silos, get the one that by years of use has proved its worth. In justice to yourself you CANNOT AFFORD to use any other. Be guided by the verdict of our users, the only men who are the most competent to judge.
One of our Silos will furnish you June Feed in January weather. Built in all sizes, from lumber soaked in our specially prepared wood preservative. A large stock of Ensilage Cutters and Gasoline Engines. Free Catalogue on application.

## Canadian Dairy Supply Company, Limited MONTREAL, P. Q.



$\tau^{0}$O keep one's foot set firmly in the way that leads upwards, however dark and thorny it may be at the moment, is to conquer.

Bansom nodded delightedly with "I thought so! Well, I am poing to do my best and then if everything is not right it is not my fault. Now,
that is the fryer I know and let it good and bet while 1 find the eggs. How many do you suppose the dear creature eats at a sitting, Blossom? A half-dozen?
Again Blossom's head bobbed cheerinto the conversation did the taken "Well. here's the half-dozen and here goes! Dear me, I hope it's as easy to smash potatoes as it is eggs. mix up so? Heavens, the things to sticking to the fryar lue inms are sticking to the fryar! Ill just stir
them around. for I suppose thet them around, for 1 suppose that's
what Mies Selina Lue meant br both dides, to mix them up meant by both sides, to mix them up so they won't
get so black. They seem perfectly hard now so 1 am going to put them in the dish," and Miss Cynthia emptied out dish, and Miss Cynthia emptied out the charred mass
"Of course Blosscm, I have known fried eggs all my life, but we don't have them, and 1 am not perfectly
sure how they ought to look. These sure how they ought to look. These
seem nice and brown, though those seem nice and brown, though those
black streaks are not exactly artistic, are they
With
With reassuring eagerness Blossom reached for the dish "Tm glad you think so, dear, but you don't want that dinner: yours comes later. Now for 'smashing' the pretatoes! When does the smash$\operatorname{ing}_{\text {ed }}$, come in Miss Cynthia pansed to think.
difference, and anfose it makes much difference, and after they are cooked they will be so hot- 1 am going to
do it now. Wasn't it lucky Miss Selina Lue had peeled them! Why, 1 never knew potatoes were so hard Lefore they were cocked! No won-
der the great, grand mogul likes his der the great grand mogul likes his smas, but how am I going to smash Blows
Blossom gurgled interestedls
Yes, 1 hanks for the adrice Blomsom. the table and wash the the pan on and clean, nd smash hatchet mice Cynthia worked with away. ceeded in quickly redueing the After to a watery, lumpy
Arer moment's hesitation she emptied them into the frying-pan to which clung fragments of burned eggs. Her delight was great when no remembered the salt and she poured in a double dose with ex ceeding liberality. Around and around she stirred the mass, which quickly burned to a hue to match done.
"Blossom," she remarked earnesty, why wemen make so much fuss too easy, and nothing but selfish ness makes them not want to do such simple things for their families. am going to put a plate and kni and fork here for him and tuck this agly fryer out of sight. Then he can come and get his dinner when aver he chooses. And, Blossom I don't know whether you and Miss Selina Lue ever do it-but I am go-
ing to put a spray of this petunia here
risk. A. atri a whimper or two thte gurglea atr a whimper of two through the
deor leading into the grocery redoor leading into the grocery re-
minded her of the soap-boxers, and she hastened to answer the summons. Four solemn babies sat bolt upright and four pink mouths flew
wide open. Bless your darling hearts, it's time for din-din, and Miss Cyirhia's a bad girl to get naughty man's dinner first! Here are the bow 1 and spoon right here,
and she is going to hurrs., and she is going to hurry." But in-
stead of hurrying Miss Cynthia stood stead of hurrying Miss Cynthia stood
dumb. She had forgotten where Miss Selina Lue had said the oatmeal and mik were kept
In a panic
search and it she began a hurried utes to exhaust the possible hidingplaces of milk and oatmeal in the liver Binff Grocery. She even tipjed up the vinegar jug and turned en the molasses spigot. No milk and
no oatmeal! In the
In the meantime the plaintive
wails from the lack of the store had leveloped into the roar of a hurri cane which swelled by the instant but never ebbed. The sight of the how and spoon which Miss Cynthia
had set on the stool before them Was the red rag to their rage. The two Flarities had settled down
steadily to the business of making an uproar, and as they screamed each kicked the foot of his box with maniacal strength. Clemmie wasted no force in any exercise save that of the rocal chords, and shrill and startling than the last. Pattie had the wisdom to seek a key and note chral groans and ghastly chokings by the minute. Only Blossom, in her box where Miss Cynthia had put her, was quiet and pale with terror. Her wide, frightened eyes added the finishing touch to Miss Cynthia's plight, and she sat down on the floor by her box and buried her head in the mite's small pink apron.
Then suddenly in the stor
came a calm. deep and breathere Mise Cynthin looked and breathless relief stood on the threshold. In one hand Mr. Alan held a tin bucket full the other a jug of milk, both drip-
be behind time with the quicklunch." His big comforting voice
revived her so that she rose to her

Miss Selina Lue has gone up to the Lock with the Dobbses, and I stayed to take care of them for her Your dinner is on the table." Her meekness was fast vanishing and her eyes drcoped in a way they had that meant mischief

Oh, now, really-you ought not
have troubled about mo ? the girl-his about me, Bother again and hears were getting hot ing at him though why was laugh
"It really was no trouble," she answered, again sobered by her respensibilities. "Let me finish feeding the babies while you eat your dimner." Her voice was positively solicitous.

Aren't you going to have somef me asked politely.
dont think I am hungry now, spoen between intent on, getting the ips. "I-I hope it will Le all right. never cooked that sort of dinger before, but I followed Miss Selina Lue's directions, so it must be the way you like it., "Miss Cynthia was a lovely thing at all times, but in that timid, trustful mood, and in such a beocmingly dishevelled condi tion, as she bent over her charges she Was-ravishing
Ar Kent grasped wildly at his idiotically, "If compore and murmured sure there won't heoked it am matter how much vou prepared ; no mentally kicked himsolf prepared." He the things that ought to have sprumg to his brain to match the girl $\frac{\mathrm{He}}{\mathrm{H}}$ went into the kitchen and sat down The very prospect of the dinner pree pared by those white hands was going to his head; he felt safer with ve table between them. He sat, howand the inner man atd feast his eyes and the inner man at the same time.
It was well that he approached his
dinner in a mood of distraction, for dinner in a meod of distraction, for it was with diffieulty that he remounchful an exclamation at the first mouthful of eggs. But across the mobbing heads of the oatmeal-andmilk diners, Miss Cynthia raised "Is it groud e" eyes to his.
Is it good?" she asked with be"Good" solicitude

##  <br> 15 MONTHS FOR ONLY $\$ 1.00$ <br> New subscriptions sent us for Farm and Dairy, by our old subscribers, will be placed on the mailing list until the end of 1911. With this generous offer, every subscriber to Farm and Dairy should be able to secure one new subscription, at least, before the end of this year. Send in one NEW SUBSCRIPTION, everyone. Let's have yours today. A Record Book Free to any one sending us a new subscriber before October 15 .

well. She sat as motionless as the
labies; and if her month did not stretch open, no will of her own pre rented it
The mixing of the potation was the matter of a few seconds, and the gray raven perched on the stool and ladled out dripping spoonfuls. Miss Cynthia was almost surprised that he failed to offer her some in her turn, but she sat on the floor and watched him with deepest gratitude.
"I couldn't find the dinner." she vaid in a small voice, "Do yout think they will be ill As she spoke she ful eyes that reminded wime, trust pression of all the other five in ex pression of all
"No, indeed,
have heard them do worse than that
with those eyes fastened on him in shining delight, he swallowed all of the six incinerated eggs and devour ed in kulps a panful of half-raw stone-cold, nauseating potatoes,
Half-way through
paused. Should he leave any fose he paused. Should he leave any for her to agonize over, or should he assume a reputation for abnormality of ap-
petite? Better anything than petite. Better anything than that
she should ever find ent the then she should ever find out the truth,
and in a rush he finished the i . If, by that time, fhe hed the j . B d If, by that time, sho had not been
standing directly across the talle, he standing directly across the table, he
would have scraped the dishes, but would have scraped the dishes, but her nearness confused him and he let her set aside a teaspoonful of potaoes and a chip of egg.
She was beaming
She was beaming with satisfaction and at his hastily framed apolegies or having cleared the table, she "Donsed cheerily
"Don't say a word about leaving
hour asleep asteep alreat
fainted rainted from
${ }^{11} 1$ nesure for at least as ho rose a
Lighting a
a Lighting a
tively, hopin tation
hours. Those blessed babies are
asleep already. Could they have asleep already. Could they
fainted from exhaustion fainted from exhaustion ?
fer at least two hours." he lamghed, as he rose and stepped to the door Lighting a cigar, he lingered tenta tively, hoping for some sign of invitation to remain. The petmnia drooped frem his buttonhole. Then she raised hee eyes to his and said sweetly and directly, with grati-
tude tingeing every accent: "Thank you for helping me out with them. Wou-you won't be far if they wake
up and get beyond me." "Those and get beyond mes and that curly mouth!
"Thos. Mr. Alan only really "came to," as
Miss Selina Lue would have put it, when seated by her side later on the steps. In fact, he lived threugh s mind; and when the four-o'clock a the wharf to get a package brought down to him from the Lock, he felt beantifal dream. not such as comes usually at the bidding of a digestion impaired b
egeg-fried.
As for Miss Cynthia, some evil fate or perhaps a sleepy chirp from Clemmie, the roarer, led her to the back regicns of the grocery, and while
there she idly tasted that spoonfal of potato which lad heen left, with misgivings. A shred of egg followed,
and gone was all her complacency. the fruit of Mr. Alan's self-sacrifice. How how wonld she ever face him again after having literally forced such an awfol thing upon him! Her humiliation was complete. Her one
thought was a hope that she wonld naver lay eves $0 n$ him again.
"Well. well. Miss Cynthie, did you ever see sueh anthe, honey, nenimgs as this has been And Miss Selina Lue stood at the door beaming with delight.

## \&

Watch for our special Household
Magazine issue, October 6.

## The Upward Look

## We Should be Strong

For God hath not given ins the spirit a streng mind. Timothy 2,7 .
That is one of the grandest inspiring statements in the Bible. Read it again. God has not given
us a spirit of fear. Instead, H, has given its a spirit of power, a spirit
of love and a strong mind. What does it mean? Why simply that if We are fearing that anything may
happen to us, sickness, doath. loss of power, position or means; that our friends are going to leave us, that re will not be able to obtain those sary for our well being, no matter what, then we have a wrong spirit nly the Devil in one of his reprosent chly the Devil in one of his numerous How can it be otherwise? W6 are
old plainly that God has not given told plainly that God has not given
us the spirit of fear but of power. If we have within us a spirit of power
difficulties able to cope with our them. If we have not a spirit if power then the reason must be that we have refused to accept what God has given us. Instead, we have permitted the Evil One to gain an entrance but God's spirit of power and of love should reign.
It is all so simplet. Instead of loving we are fearing. instead of trusting we are doubting, instead of mast-
ering we are failing. Our hearts are ering we are failing. Our hearts are barometers that if we will but con-
stil them will show us exactly at all
wo are full of donbts nith fears we
we are wandering from God. If we are full of power and of love, then we年 Hew is it we are so apt to misunderstand this simple
ruth God intends that we shall be ful of power and of love and that our
thot, ghts shall be thoughts of strength If this is not our condition it is be cause we are not looking to Him and
asking Him to furnish ns with the power and strength and wisdom that power and love and wisdom. He has promised to Hive us these blessing of we will but ask Him for them. If mind it power, love and a strong H. (God for them as we should.-

## - e e

Aid to the Injured
During het weather, children hav$\mathrm{m} g$ the privilege of being out of
doors without shoes and stockings are in dancer of poisoning by rusty nails. Miss Pearee, ehief nurse of
the Sehool of Akriculture, St. Anthony Park, Minn, says that, whet a child has injured his foot, the first sible what kind of an instrument caused the injury ; and, if a tack or rosty nati, or any rusty metal, make a solution of commen table salt, one water. Take four layers of clean linen or cotton cloth, a little larger han will cover the wound - Wet this compress in the salt solution, place it
on the wound, and fasten securely with a bandage. Moisten the compress every three hours, for forty-
eight hours; then discontinue the meist dressing and use only a dry dressing of
is beealed.

## Staying on the Farm

While calling at a home for a fow moments in this neightorhood the house on the lawn. Curiosity led me to peep into it., and he was pleased wrhe what he saw, for one glance
showed it was used as a playhouse for the children. The little dishes and many odds and ends spoke londer than words of the love that was being en-
twined around these little ones' lives or the love of heme Not very much danger of these voungsters ever forgetting their couthful days or wandering very far ay from the old endeared spot. Country people! Fill your children ath pleasure and amusement, if you rould keep them from the allurements of the city's life, and in later years J. E. O., Middlesex Co., Ont.

## Labor-Saving Contest

We are pleased to note the genormen reast that Was taken by the our Labor Saving Contest, which was anncunced in the June 2nd issue. The contest has now closed and awards will be made to the prize winners in the special Household issue of Farm and Dairy to Le published on October

Watch for the results.

## Putting in Sleeves

An easy way to put sleeves in without trying on the waist is to fit the armhole over the knee as a shoulder,
adjusting it until it fits. Then take
the sleeve by the two seams and pin the sleeve by the two seams and pin
it in so that it hangs in the natural it in so that it hangs in the natural
position up as far as the gathers on position u
Take off, turn shoulder to the inside and after placing the top of the sleeve at the shoulder arrange the gathers evenly.

## When a Japanese expert makes

 tea the foreign spectator is impressed not only with the extrume sensitive ness of his hands but aso with theevident deticacy of his senses of sight and smell. However, any one who wants to may serve tea in America
with the same delicate taste and aroma that are securat by the besi tea-brewers of Japan. The secret lie
in the proper infusion, and that is in the proper infusion, and that it
what 1 am going to tell you about First, as to the ten itself. The
vatiety is a matter of individual taste. Of course 1 cannot recommend any particular kind, but I would say
that in vour chaice, Chat in your choice you should not be commendations.
and not much by price. By this hast 1 mean that you should not think that a high tpriced dea is nectosarily anis
hetter than one of lower price which you fancy. Select the tea you like best and learn whether it is from an
early or a late picking, its name at home, how it is curcel, and then insist upon geting the same tea every
time. And do not forpet that a poor time. And do not forget that a poor
tea propery made is better in every way than a superior tea badly made tiew experiments with a variety you
tike will result in a perfeet tea, so far as your taste is concerned; and after ar of mathodify in any detail the nothing is greater exactitule requir-
biack teas nequine moluing water, Tea leaves subjected to different processes of curing require different methods to get the best beverages. There are two broad rules to follow
and several minor ones. First, black teas require boiling water and green

## Black tol.

Black tea requires fresh water pour come to a decided boil. Hot water that has boiled a long time and lost hould stand for from three to sevent minutes (according to the variety and quality) and only in a porechain
pot. Then all the liguid should be poured off. In other words put only as many cupfuls into the pot as you standing on tea leaves draws out the tannin, which is the main thing to be avoided or socond cups pour boil-
ink water on these once-used leaves. The principal ingredients of tea ar tannic acid and theine. From the former we get all the bitter and delewerious taste, from the latter the aroma and the pleasing and benefieial
effects of tea. To draw out the theine and at the same time not disturb the tannin is the object of good tea-makiree taunic hare mill whe whim as a beverage for some tastes. Always it) is thoroughly dissolved and stirred in before you add the milk-this makes a decided difference chemical-

## ly. (Gontinued next week.)

## e * *

## A Rat Eradicator

## 1 feel sure that many housewive

 we wery grateful to know that Sphir will rid their houses of rats. ets, around the holess where they come in and in barns; the farmer will find his corn will not be troubled by rats.The Belleville Business College
teaehers in a number of prominent Busf.
ness Collegrs, and continual inquiries los graduates for positions, Write for Cata
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 1. tion


 tionss ${ }^{2}$ yd. of ribton 2 in wide for the
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The pattern is eut for a $32,34,36,38$ and The pattern is eut for a $32,3,36,38$ and
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14 yrs, and will be mailed for 10 et chuld's dress asg


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The dress that
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elosed at the left of
the front and worn
with bloomers of of
matching material is mathing material is
macticel and smart.
it is easy for the It is easy for the
child to alip on and
off, the bloomers de
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and mean economy
in laundry. This model is pretty and attractive and ean be
casily made. The waist and skirt portions can be out in
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belt at the waist line
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ones. It is closed at can be cut on rounded outline, or
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collar if preferred. Material requiren
for medium size is $y d s .24$ or 27 size is 6 $32,21, y \mathrm{ds}, 44 \mathrm{in}$. wide, with $21, y \mathrm{yss}$. of em-
broidery, 4 in . wide, $41, y \mathrm{ds}$. of banding to broidery, 4 in . wide, $41 / 2 y \mathrm{ds}$. of banding to
trim a illustrated
The pattern may he The pattern may be out for childron of
1,2 , and 4 yrs, and will be mailed for 10 cts,


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banding
The pal The pattern is cut for girls of 4, 6, and
$8 \mathrm{yrs.} ,\mathrm{and} \mathrm{will} \mathrm{be} \mathrm{mailed} \mathrm{for} \mathrm{10} \mathrm{cts}$.


The pattern is out for
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el Blouse
The tuck blouse cut in one
with the sleeves is one of the newest and prettiest and it serves so many prac
tical uses a favorite. This one can be closed at the
back or at the left
of the front as pre. ferred, and as premany women a find the front closing satisfacfrom many
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 NOVA SCOTIA
## HANTS CO., N.

ELLBRAHOURE, Aug. 29.-We are b ving delightful weather. Orain has ripened well and is about ready for reaping. With the exception of apples this has been a banner year for all crops, particularly hay -which is away above the average. Giain root crops and botatoes have also done
well. Potato bugs were very plentiful ane weil Potato bugs were very plentiful and potatoes. Blight has made its appearance potatoes. Blight has made its appearance of damage, especially in the Hallfax dis triet.-B. B.

## QUEBEC

## COMPTON CO., QUE

COMPTON CENTRE, Aug. 29.-Haying i E. done, Some harvesting is hemint clad Grain is fairly good. Root crope are look ing well and everything points to a goor season. Cattle are very searce. The appl. crop will be puor this fall. The Great East
ern Exhibition opens in a weel. They haye a very large prize list, and expeet to have a record thow.-H. G.
ONTARIO

## PRESCOTT, AME: CO., ONT

 poor. Almost cyery farmer is feding very clover, corn or meal Cows have failed al most one half. Grain is almost all in the barn, and a few of the farmers have threshed. They report a fair vield of grain. Potatoes are looking fairly well considering the dry weather. Corn is looking very well, although phort in stalk Timothy hay is selling for $\$ 10$ a ton: oats 50 c a bush.; corn. $75 \mathrm{c} ;$ bran, 822 a ton,middilings, $824: \mathrm{eggs}, 18$ to 22 e ; butter, 27 e

## HASTINGS CO., ONF

SIDNEY OROBsING. Aug. 22.-Fall wheat are getting ready for canning factories, as great quantities of tomatoes and corn are raised for that purpose. Corn is A sood crop generally.-J. K.
NORTHUMBERIA ND CO, ONT WICKLOW, Aug. 30.-Threshing has com. menced. Grain is going to be a fair yield Apples, owing to the recent rains, will be much better than was at first anticipated The season's output of cheese is not so good so far this season as last year. Prospects of good pasture are enconraging. however. The prices of all kinds of live stock are keeping exeeptionally good. The few who have tried alfalfa this season
seem to be well pleased with the result-seem to be well pleased with the result-DURHAM CO., ONT.
BURKETON Aug. 24 ,-Corn never looked better. There are no silos in this section, lut the corn is cut and fed in connection
with straw. Hecent rains have put the with straw. Hecent rains have put the
land in excellent condition for preparimis for fall wheat. $-\mathbb{R}$. H. $\mathbf{P}$. BLAOKSTOCK, Aug, 30 --Harvesting
once more a thing of the past. We had once more a thing of the past. We had a
very wet harvest. Straw is not in as good very wet harvest. Straw is not in as good
condtion for feed as some years. Fall wheat is turning out well and is a good sample. Spring wheat is not very good. Barley is a good crop but will be dark in color. Oats will be a fair crop. Roets and corn are looking well. Alsike is averaging about three or four bushels to the sure. The prospeot for red clover is good. Apple
crop is a failure,-R. J. $F$.

## $W$ ITERLOO CO., ONT

$\triangle \mathrm{AR}$, Aug. $\frac{22}{20}$-Harveat is well over There are a few oats and peas out yet at the best. Some even plowed them un Oats varied considerably. Some were short Other felds were fairly good. The most stooled ont well in the spring and wert inelined to be thin. Clover is a poor crop. the dry weather having killed it out. There
was a good catch in the opring. Pasturen and second growth meadows are looking well.- Q. C. S.
FALKLAND. Aug. 22.-Harvest is com pleted. The weather was very catehy durculty was experienced in storing the grain in good condition. Oats drawn in too soon are heating badly in the barns. Somr threshing has been done. Wheat is ron
ning 25 to 30 buhels an acre, and is a ning 25 to 30 bushels an acre, and is a
fair sample, testing about $57-58$ lbs, a buah Rarley is below the average yield, aud to
shrunken. Oats are good, vielding 35 to 40
bushels an bushels
here- I. here-L. T. ONFORD CO., ONT.
fine condition. Reliatile help cannot be
had, althoush over 70 ywars old 1 must had; althourh over 70 years old I mus
still work. This will continue as long a still Work. This will continne as long a
we are heavily taxed and our help taken to build puble works to be given away.
J. A. G. BRUCE CO.. ONT. ruther inferior in quality: atout one-third
of a crop as compared with previous ycars Old trees are practically covered with bark touse. Thin is not to be wondered at, as there is absolutely no spraying done.- $G . O$. MIDDIESEX CO., ONT
APPIN, Aug. 25.-Oath are of good quali ffeet on the quality of spring to have it few peas are grown The average of fall Wheat to he nown promises an increase of probably 25 per cent, over last year. Thin is the result of the many rains which have made soil preparation fairly casy and pro mises good germination of seed.-C. M. M.
GL,ANWORTH. Aus 24 -We are harrest GLANWORTH, Aug. 24.-We are harvest ing and preparing land for fall wheat

CLUNY. Aug 29.-The weather is fine
and cool. We have had plenty of rain in the past two weeks. A great deal of dam age has been done to buildings, especially barns, by lightning. Harvest is half over now. Everything but peas is yielding an average crop; a little better than the last wo crops. Hay has been a big crop. The seoond crop is being kept for seed by in the farm

## GOSSIP

A) illustration of a champion Holstein bull, Sir Rooker Posch 2nd, owned by Duff
 Bros., of Warkworth, Ont., was published
81.00 for my subscription for 1910.-J. J
T Farm and Dairy fssues of Aurust 4th
and 11th. This illustration was made from an amateur photograph and did not do the
animal justice. The animal has animal justice. The animal has won first prike during the past three years at ah tand and Kast Peterboro in Northumber bred from stock with high He in richly Duff Bros, are offering the bull for sale to avold intreeding in their own herd. Write them if you want a choiee stock bull to head your dairy herd.

Visitors to the Toronto Exhibition this year cannot afford to leave Scarboro Beach Fark out of their plans. This $\$ 600,000$ amusement resort, modelled after Drean and and Luna Park, the world-famoti ofitutions at Coney Islend, is the finem
outside of New York. Ontario

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To settle it right will save you cost of repairs and a new roof-to settle it wrong means dissatisfaction from the start.
You read many extravagant claims; you are frequently con fronted with high-sounding guarantees; you have heard of countless brands of roofings, but there's only one way to tell the good from the bad. Make them show you what the've done.
We are ready to show you actual buildings in your neighborhood whe NEPONSET PAROID Roofing has been on roofs for years. The money saved in repairs more than offsets the difference in price between BIRD of long service and 115 years of experience in one line of business. We originated the ready roofing idea and make different roofings for different classes of buildings.

## Nepanget PAROID Roofing <br> for your barns, poultry buildings, etc., gives service equal to that of highest grade shingles

Unlike shingles, it resists fire, doesn't blow off or deteriorate. NEPONSET PAROID has been in service for twelve years on United States Government, Railroad, Industrial and Farm Buildings, in all cli-
mates. If it meets these severe conditions, it will surely meet yours,

NEponseT PRCSLATE Roofing and Sidieg, for dwellings and all other buildings where artistic results are desired. It is more attractive than shingles, wears like slate, makes an attractive-looking roof, resists fire, saves money and always gives satisfaction. It may be used on exterior walls in many attractive ways.

## These are facts and not elain

## Consult Our Building Counsel Department



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NEPONSET BLACK WATERPROOF Bailding Puper, under clapboards, shingles, slate, metal, etc., insulates against exterior heat, cold and dampness. It costs little and cuts the fuel bill one-third every winter.
NEPanseT FLORIAN Sound-Deadeaigg Felt, for floors, partitions, etc, to deaden sound. Six times as efficient as ordinary deadening felt.

Market review and forecast

## 

## September 8

8heep-rwes, 84 3.50; lambs, 86 to Hoge-f.o.b, 88.5
ed, 89 a cwt. 86 to 86.25 ; medt ary quality, 84.75 $\$ 3.75$ to 84 rang PETERBOR delivered on Ent totalled 34,000 . T the Old Country
ery of hogs on th what heavier. T shipr
88.65 88.65 a cwt : weil MONTREAI Montreal, Ratur steady this week loted at 89.35 to
meeting with been solling freels EXPORT BUT Montreal, Satur
market for cheese or firmer than dt In the couniry pri during been made ax hip hererse chore $10^{\circ}$
averaget cases colored ches
ium over white, keen demand for now, and prices whould be on a
Great Britain haa furing the past ee a good demand
the fact that we nel, and the offer week. The disturl
wet ket is the fact tha
ing made for the ing ma
land $e$

## I H C CORN BINDERS

 HUSKERS AND SHREDDERS$\qquad$
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$\qquad$
Candolun bracches
 INTERNATIONAL HARVESTER COMPANY OF AMERICA

Chicago
USA
I.H:C LINE

Sheep-ewes, 84.30 to 84.60 ; bueks, 83 to
83.50 ; lambs, 86 to 86.40 . Hogs-f.o.b, 88.50 to 88.75 ; fed and water ed, 89 a ewt.
36 to 8625 , choice steers are quoted at 86 to 86.25 ; medium, 85.25 to 85.50 ; ordinary quality, 84.75 to 85 . Calvels are sell.
 PETERBORO HOG MARKET Peterboro, September 6th. - Danish hogs delivered on Eingli:h markets last week totalled 34,000. The demand for bacon in the Old Country is very poor. The deliv-
ery of hogs on the local markets is ame ery of hogs on the local markets is some-
what heavier. The George Matthews Co What heavier. The George Matthews Co
quote the following prices for this week's anote the following prices for this week's
shipment of hots: f.o.b. country points shipment of hots: f.o.b. country pointe
$\$ 8.65$ a ewt. weighed off cars, $\$ 9$ a ewt.: delivered at abettoir, 88.75 a cwt.

MONTREAL HOG MARKET
Montreal, Raturday, Septomber 3.-The
local demand for live hogs has been fairly local demand for live hogs has been fairly
steady this week with a good demand from steady this week with a good demand from
packers and other dealers, receipts into
ywn being just sufficient to supply the 2Wn being just sufficient to supply the
domand. Prices have been firmly main tained at $\$ 9.25$ to 89.50 a ewt. for selected lots weighed off cars. Dressed hoge are
a meeting with a good demand, and have heen selling freety at 813 to 813.25 a ewt. for freah killed abattoir stock.
EXPORT BUTTER AND CHEESE Montreal, Raturday, September 3.,-The tharket for cheese this week has been rath-
or firmer than during the previous week. In the country prices have ruled a fraction better. The lowest price paid in Ontario
during the week was $10^{\circ}$ c, and andes have during the week was $10^{\circ} \mathrm{c}$, and sales have
been made as high as $10^{\circ} \mathrm{se}$. The bulk of the chcese sold in the country, however, averaget 10 e to 10 , e a lb , in some
canes colored eheese commanded a premium over white, but there is not the same
keen demand for this class of goods just now, and prices during the coming weel should be on a par. The demand from
Great Britain has increased considerably during the past few dave, and we should see a grood demand from now on in view of the fact that we are getting into Septem.
ber, and the offeringsy in the conntry will include some september made cheese next week. The disturbing factor in the market in the fact that contracta ure now be
ing made for the outsut of the Now Zea land cheese, and the dealers gencrally on
the other side are waiting to ascertain the prices to be paid for these cheese be fore stocking up Canadians to any grest
extent. The trade, consegunenty, is more or less of a hand to mouth character. The receipts this week were fairly heavy, smounting to atmost 85 eco. a derfided in
crense over the corresnonding weels sear. Reports from varions seetions of
the country indicate a good make going on. fullv counl to last year, and there in no d unt that the Fall make in Ontario The butter market is very firm, and prices
are stcadity advancing in the face of the are stcadily advancing in the face of the big demand from the home trade, and a
little export demand at full prices. In the little export demand at full priees. In the country to-day prices are expected to rule
at ahout 340 a Th. Prioes nest week in Montreal will probably be advanced to Montreal will probably be advanced to CHEESE MARKETS Madoc, Aug. 31. -640 boxes offered; a! old at $1011-16 e$.
Brockville, sept. 1.- 2059 colored and 805
white offered: 745 colored mold at 10 , White offored: 745 colored sold at $10^{\circ}, \mathrm{c}$,
Bell-ville, Nept. $1-2325$ white cheese fered: 510 sold at $10 \% \mathrm{~s}$, 320 at 10 en- $13-16 \mathrm{c}$, $320 \mathrm{at} 10 \% / \mathrm{c}$. $\qquad$


 Kemptville, Supt. 2-475 boses boarded of which number 860 sold for 100 e.
Victoriaville, Une. Sept $2-1500$ bokes of chnese sold at $10^{\circ}$
Iroquois
Iroquois, Sept. 2.-498 cheese offered; all Colored; all suld for 10 , c .
Brantford, Sept Brantford, Bept. 2.-0 cred, 1225: sold 965 ,
vis., 150 at $100^{\circ} \mathrm{e}, 815$ at $10^{2}$, , vis., 150 at $10^{\circ}, \mathrm{c}, 815$ at $10^{\circ} \mathrm{c}$.
Picton, Sept. , -21 factories offered 1856 boxes, all eolored. All sold at $10 \quad 13-16 \mathrm{c}$.
Ottawa, Sept. white and 657 colored: 571 sold arded; 622 White and 67 colored: 571 sold at $10 \% \mathrm{C}$,
colored. and white at 10 , $11-16 \mathrm{c}$.
Cownnwill. unsold.
London, Ont., Sept. 3-Offered, 1952 boxes,
all colored. exeept 240 boxes; 145 boxes colored sold at 10 11-16e.
St. Hyacinthe. Que., Sept. 3.-800 boxes


## PARTIES

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ling statien will
do





A. M. RUSH Box 127, Preston, Ont.

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 e talkingumn sale. y cars experience with
F. H. McCullough \& Son navan, ont.

Dr. Boll's Vetarinaty Moflicel Woonder aures kideens. The infammatuon of luogs, bowata and nevery countv. Write for a freetrial \$1 bottle. This
offer only good fer 60 days. Limited to 500 botile.

## MISCELLANEOUS

FAMWORTH AND BERKSHIRE SWINE,Boars and sows for sale. J. W. Todd,
Oorinth. Ont., Maple Leat Btock Farm. Eut TAMWORTHS AND SHORT HORNS FOR SALE

 bed to young atook hog, Also io fow man
tured aown. $A$ tow yery chole and two year old Bhorthorn haitere Firat
 Prices right.
PURE BRED HAMPSHIRE PICS FOR SALE


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 duces swelligs, eoothing to a bruise, an-
tiseptic, healing to a eut or laceration, in
and has becin used by most successful ex and has been used by most sucerasful, ex
hítitors and trainern, because AB8OR hibitors and trainers, because ABSOR
BINE does not blister, remove the hair stain or stop horse from work, while re.
moving OAPPED HOCK, SHOE BOII,
SWOLIEN G1ANDS, BIG KNEE, BRUISEA,
THOROUGHPIN, BOG SPAVIN. WIN
PUFP, SPLINT OTRB THOROUGHPIN, BOG BPAVIN, WIND
PUFP, SPLINT URB, or redncing BOWED
TENDON, THOKENED LTGAMENTS OR
8TOPS LAMENESS QUIOKLY-KILLS PLESN IN A MINOTE, You wit find it a money maker for you in getting all your Housk, in better shape for regular imb from them with ABSORBINE. make a Prize Winner by removing some blem
livered. 82.00 a bottle at all druggists, or do
ish from them with ABBORBINE.
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Free descriptive book and lith
og aphed coloured pieture E, YOUNG PD.F 193 "TEMPLE ST, SPRINGFIELD, MASS.
OR LYMANS, LIMITED, AGENTS, ST. PAUL. ST., MONTREAL, CAN.

## AYRSHIRES ravensdale stock farm PHILIPBBURG, OUE, CI.YDESDALES, AYRSHIRES, YORK. SHIRES.-Apecial offering Two bule, 10 SHIRES.-8pecial offering: Two bulle, 10 months old, of good dairy type; also colte months old, of good dairy type; also colta and brood mares, high grade or pure bred.

W. F. KAY, Proprietor AYRSHIRES OF ALL AGES Imported and homebred. Write for
prices, which you are sure to find attrac:n
LAKESIDE FARM, PHILIPSBURG, QUE: ${ }_{15-11}$ aEO. H. MONTGOMERY, Prop.
"La Bols do la Roehes" Stoek Farm Here are kept the eholcest etraing of
AYRSHIRES, imported and home bred. YORKSHIRES of the beat bacon typen
YHITE ORPINGTON, WHITR WYAN. DOTTES and BARRED ROCE Poultry.


BURNSIDE AYRSMIRES
Freah importation just landed of 12 of ed, from the best herde in Bootland, such as Osborne's, Auchenbrain's, Netherhall,
Bargenoch, Barr of Hobeland and Mitchell of Lochfergua, all fit for servioe. Also in
female eows, $s$ year olds, 2 year. olds, and
 Burnstide Stock Farm, Howick, Que.

## SPRIMEHILL AYRSMIRES

 Imported and home bred stoch of aages for sale. Stock shown with grea ROBT. HUNTER \& SONS
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Imported and home bred, are of the choicest breeding, of good type and have been seleoted for production. THREE young bulls dropped this fall, sired by "Nether Hall Good-time" -26641-. (Imp.) as well as a few females of various ages for sale. Write or come and see.
d. W, LOaAN, Howick station, Que.

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## HOLSTEINS

REQ, HOLSTEIN BULLS FOR BALE Daisy Verbelle Lad, 4 years old, No. 5276,
Dam in Ree Performance. Sir Dam in thee. Performance. Sir Rooker Mechthilde 2 nd, No. 7999 , one year old:
also some good bull calves. Priesd right also nome good bull calves, Pried right
for quick wale spply $G$. W. Countryman, Box 153, Tweed, Ont.

## HOLSTEINS

## BULLS! BULLS!

At leas than half their value the next 30 days. Write GORDON H. MANHARD MANHARD, ONT., Leeds Co, 3-11-10

Do you want a first elass Cow or Heifer bred to a flrat clase bullp Francy 3rd'a Admiral Ormaby heade our herd. Dam, Franoy Jrd, Onnadian Champion Butter Oow. Sire, Bir Admiral Ormsby, sire of
A. OAsKEY, Box 144 , Mear heifer,

MOMESTEAD HOLSTEIN HERD Headed by the graat young sire, Duteb Dand Oolantha Sir Abbekerk. Dam, Tidy Pauline De Kol, butter 7 daym, butter 7 davs, 36 , Oolantha th's Johanna, batter 7 days, 35.22 . Average of dam and
sire'g dam, 31.23 ibs sire's dam, 31.83 lbs
months old, from dams up to $25 \%$ the twelve ter in 7 days.

## EDMUND LAIDLAW \& SONS

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Offers bull calves at half their value for
the next 30 daye. One ready for servioe one sired by ay son of King of the Pontiac, Ibs. butter, 7 days, As Jr . in . Revord, 18.37

E-10-6-10
P. J. BALLEY

## LYWDALE HOLSTEIMS

We are now offeriag for sale a 13 mos.
old son of "Oount Do Kol Pretertis Pani" out of a ${ }^{20} \mathrm{lb}$. dam; also a son of Bara Hengerveld Korndyke, from an 18 ib . oow
Both choice individuals, it for serrice. BROWN BROB, LYN, ONT.

## LAKEVIEW HOLSTEINS

heada thengerveld Fayne De Kol, who his get, will be at the Oanadian National Exhibition; come and see them. There are several very choice young bulls amons them. No young atook priced till exhibition time.
ETr
E. F. OBLER, Bronte, Ont.

BULL CALF, handsome and straight, his dam, sire's dam and grand dam, have records over 23 lbs, testing over 4 per cent. Viotor De Kol Pietertje, and a grand laughter of Boutaje Q. Pietertje, record 20,
78 Ibs, milk one year. The rest well bred and first-elass stock.
Will be priced right to anyone taking the lot before Ootober first
Wm. A. RIFE, Hespeler, Ont.

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So put it squarely up to the next fellow who tries to sell you some roofing "as good as Oshawa Stee Shingles," Ask him to agree In writing to replace the roof free if it gives any trouble within the next quarter-century, Then watch him dodge, See him evade, Hear him tell nbout Mr. Somebody, of Someplace, who roofed a barn with his roofing in 884 and it's a gond roof yet. Hark to him ask if that doesn t make you feel sate.
Tell him it docen't prove what the Pedlar Guarantee does prove, Because that guarantee is your absolute protection against roof troubles or twenty-five years to come.
There is your roof-insurance for the future. There is a binding promise to give you a new roof entirely free, to put it on the building for you free, ind to guarantee it for another twenty-five years, if your roof of Oshawa Galvanized Steel Rhingles gives any roof trouble within twenty-five years from the day it's on.
There is 8250,000 capital back of that guarantee. There are 48 years of honorable reputation back of that guarantee. And there is the biggest business of its kind in the British Empire back of that guarantee.
So it is plain common sense for you to refuse to buy any roofing that is not guaranteed And the only kind that ig guaranteed is this kind we make - Oshawa Galvanized Steel Shingles. Guaranteed for 25 years. Actually good for a century,

This is the Roofing For Your Money
Oshawa Galvanized Steel Shingles make the roof you can best afford for any building. (A square is 100 square feet) , Whey per square. from heavy sheet steel- 28 genue steel. Then they are thickly galvanized. That means they are coated with zine-the rusi defying metalin such a way that the zinc is driven right int. the steel. It cannot flake off, as it would if this galvanizing were done the ordinary way.

Thus these Oshawa Shingles require no painting. They will not rust. They cannot possibly leak.

So you are sure you will have no bother with your Oshawa-shingled roof, once it's on the
building. You can depend on that, and you can doubly depend on it because you have the guarantee. Hand it to your banker or tawyer to keep for you; and know that it is good for a new roof right up to the last day of the twenty. fifth year-if the first one gives any trouble whatever.

## Cost Far Less Than Wood Shingles

You must pay about the same price per square for ordinary wood shingles. They will cost you more to lay, because it is a quick and simple job to roof with Oshawasteel And the wood-shingled roof will need repairs ery year or two. Probably it will leak from the start. And it will be no real roof at all at the end of ten years, at the most.

You can be certain that an Oshawa-shingled roos will outiast a wood-shingled roof ten one. Thus it costs but one-tenth as much.

## This is the Roof That Really Protects

Oshawa-shingled roofs are not merely weatharow ronfs. They are fire-proof roofs. They cooler in sight roofs. They keep buildings coole in snmmer and warmer in winter.
Shingles buidding covered with Oshawa Steel thangles is safe agamst lightuing-far more so ning rods.
Put these Oshawa Shingles on a building, following the simple, plain directions that come with them, and you have a roof that is handsome enough for a city hall and that absolutely protects.
Practically an Osllawa-shingled roof is one seamless sheet of tough galvanized steel. Not a crevice for moisture to get through. No way worry it. Dampness cannot gather ond the Worry it. Dampness cannot gather on the under-side of it. It needs no painting. And you need not worry about it needing any repairs, for chenty-five years at heast.
Isn't that kind of a roof the roof for yon p Isn't that kind of a roof worth more than it costs? Isn't it the only roof you ought to con-
sider? -since it is the only roof of which all sider?-since it is the only roof of which al
these things are true.

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With the book will come a copy of our Guarantee. Study that, too, and see how fair and square and strvightforward it is. See what positive protection it gives the man who buys Oshawa Steel Shingles.

## Sample Shingle Free

WITH the book will come a sample of the
Oshawa Shingle itself. It will interest you to study it. You will see the actual construction. You will see that the Pedlar Improved Lock, on all four edges of the shingle, makes it certain that moisture never can get through any OshawaShingled roof. You will see how the Pedlar process of galvanizing drives the zinc right into the steel so it never can flake off. You will be in no doubt about which roofing after you have studied this shingle. Send lor it and the Book and Guarantee-Send now,


0SHAWA STEEL SHINGLES are made of 28 gauge steel, specially toughened and heavily galvanized to make them rust-proof. Thus they weigh about seventy-eight pounds to the square. With the box about 88 pounds to the square. When considering metal shingles always learn the weight of metal per square offered and be sure that the weight is of the metal only. Make the weight test yourself. First be sure the scales are accurate. Then unbox a square of Oshawa Shingles and weigh them. Note that the weight averages 78 pounds without the box.
Don't go by the box weight. Some boxes weigh fourteen pounds or more.


Send to-day for Sample Shingle and "Roofing Right" Booklet No. 9

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"To Pedlarize" means to sheathe your whole home with handsome, lasting and beautiful steel-ceilings, side-walls, outside, roof. It means to protect yourself against cold; against fire; against much disease; against repair-bills. Ask us and we will tell you the whole story. Just use a postcard and say: "How about Pedlarizing my house?" State whether brick or frame. Write to-day.

