Issued Each Week-Only One Dollar a Year


PI PRIZE WINNING BOVINE ARISTOCRACY AT THE NATIONAL DAIRY SHOW, CHICAGO

- Quality was the outstanding characteristic of the 450 cattle of the six dairy breeds in the stalls at the fifth annual National Dairy Show held recently in Chicago. Our illustration shows the first and second prize Ayrshire cows, the one in the foreground, Boghall Snow Drop 2nd, (Imp.), being the grand champion. The other cow is Oldhall Ladysmith 4th. W. W Ballantyne, of Stratiord, Ont., was judge of the Ayrshires. Fanciers of the great Scottish dairy breed, the Ayrshire, have

before them in this champion Ayrshire cow something well worthy of study.

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WE WANT AGENTS IN A FEW UNREPRRSENTED DASTRIOTS



Lifting Manger.
The "BT" Lifting Manger


National Dairy Show at Chicago
So far as the 450 cattle of the six dairy breeds in the stalls at the fifth ago, were concerned, the show, Chic-
agas a quality show. Ayrshires, Holsteins, Jerseys, Guernseys, Brown Swiss and Diteh Bulted cattle, each had their represert tives on exhibition. There were no Canadion exhibits. W. W. Ballantyne, Stratford, Ont, one of our well known expert judges, placed the Ayrshire awards.
The educational feature was the key note of the Daify Show throughout. The wid firit tonehed by the dairy Andatry is evident by me'e relerence to some of the contributors to this
dairy show. These pedigreed. These were breedery on pedigreed dairy eattle; the United the Illinoi oad and Daigy Compo sion ; the Chicage Health Department the Chicago Public Schools; the (ia, the Chicago Public Schools; the Cine figo Cilted Charities; makers of milk for creamery and bottied trade, orHinaty and certified; and manufacthers of all the accessories of dairy farms, dairies, will, routes and creameries.

## PRACTICAL EXHIBITLONA

Interest and education were stroris If mingled in the practical exhibitions of the Chicago health bepartment. An cffeinl statement of the support given the how by the Chicago Health Departmiont follows:
Babies fed upon inilk which has heen propery hept and properiy prepared. Eembhstiations of the proper
method of preparing mulk for method of preparing milk for a baby, Demonstration of the proper methed of keeping milk. Serres of milkmen is Chicaso. Scores of country dairy-
men. These scores show the cleanlinrss of wilk producers. Charts and maps shosing methods of producing milk: also pretures showing the development of tlies and their life habits. A branch of the eity laboratory int full operation, examining Chicago milk as found on the streets.
some or tire attractions
Atrracticns to amuse the caaual visitor were staged in the judging
arena lceated in the centre of the arena lecated in the centre of the Co-
liseum where the show was held. Each liseum where the show was held. Each
afternoon and evening parades of afternoon and eveniug parades of
prize winning cattle were given, when the ring was not in use for judging, and at night a "calf scamper" proved to be a delight to spectators. A uumber of calves representing the difierent breeds on exhibition were turnod inte the ring and left to their own capers. The world's champion three-year-old butter bow, a Guern-
sey, 'Dairy Maid of Pinehurat': sey, "Dairy Maid of Pinehurst", stood throughout the week of the show in one corner of the arena. Her ownor, it is reported, refused during the show th sensational offer of $\$ 10,000$ for this cow. A grade Jersey cow,
having a record of 700 pounds of buthaving a record of 700 pounds of but-
ter in one year was a feature in another corner of the arena. These two cows, as the Breeders' Gazette well puts it, were educational features of the mest persistent and convincing appeal.

## thg attindance

Although the weather was propitious and the show deserving of the most generous patronage, the attendance was not all that could heve been desired. The show as a whole was the best conducted and staged the most pleasing exhibits of any yet held by the Association. The attendance if not heavy was sufficient to be noticeable about the hotels even if not in the Chicago newspapers. It has always been difficult to interest the city public in the National Dairy Show owing largely to a lack of support from the Chicago papers.
Breeders of pedigree cattle rallied stoutly to the support of the show by their exhibits, which made spectreular presentation of the results of their Work, and by bocths on the floor of the Coliseum, and their banquets. The
Jersey, Guernsey, Holstein and AyrJersey, Guernsey, Holstein and Ayr-
shire breeders each kept official open
house near the judging areana. which were headquarters for adhereuts of their respective Lreeds.

## Winter Fair Seed Department

T. G. Naynor, Seed Hranch, Ottawa

Less tian one month and the Wint er Fair at Guelph will be in full blast again; thr ze is now but little time for again; thr ze is now but little time for
farmers who intend to make an ex farmers who intend to make an ex-
hibit of s. Is to make their entries. hibit of t. as to make their ent
November 12 th is the last day.

An even larger exhibit of seeds than aver befere should be shown this year It has been a good year for the production of most grain crops and samples of seed generally are good.
The prize list at Guelph is $\frac{a}{\text { a }}$ gen
rous one, there being, $\$ 6, \$ 4, \frac{\sim}{2}$ and erous one, there being, $86,84, \$ 3$ and
$\$ 1$ in the general elases, $\$ 1$ in the general classes, and in the Canadian seed Growers Association sections. Members of the C\& $Q A$ should not forget tias chey are aligible to compete in the general classes an well as in the C.S.G.A. class.
It is expected that a better arrange. ment for showing the seeds to advantago vill be made this year and that tago
every precauticn will be made to preevery precauticn will be made to prê-
vent the grain exhibited from getting vent thed.
mixed.

## Items of Interest

The Toronto Medical Health Otticer a. reconmended that all milk not up, to the standard of certified milk or scientifically pastourized be heated to the boiling point in the homes before being used. Eleven cases of typhoid tever in the city have re
traced back to one dairy.
It is officially announced that the C.P.R. has decided to build four new steamers for a fast direct steamship service between Nova Gcotis and Buston and Now York. These vessels will be larger, faster, and stronger than any at present engaged on the Nerth Atlantic Coast steamship trattic.
An outbreak of rabies is reported from the vicinity of Tecumseh, Ont. A cow bitten by a mad dog some time ago has developed a virulent case of the dread disease and had to be do-
stroyed. The local authorities stroyed. The local authorities are much concerned at the failure in observing the muzaling law.
The annual report of the Minister of Justice shows that crime, like everything else in Canada, is on the u crease though apparently the growth is much slower than in other and bette: trings There were 15,350 charges and 11,400 convictions for indictable oftences during the year ended Sep oftences during the year ended Sep-
tember 30,1909 , an increase of 110 tember 30,1909 , an increase of 110
chargea and 115 convictions duritg charges a
the yoar.

## the yoar

Last year the four largest occupations in Canada employed the followog numbers: Agriculture, 716, $\% 3$, aanuiacturing, 389,873 ; domestic, sif,wo ;ransportation, 234,236. Beer $3,6 \% 3$, muing employed 36,408 , the fisheries gave work to 25,054 , the forest and lumber industry employed 16,213 , and a miscellany of occupa tions engaged 4,413 . In considering matters of trade, the fact must be morne in rind that agriculture is to-day, and is likely, so remain for atl time, the chief industry of Canada, and cannet be ignored
In spite of fickle weather, which tenced to mar the attendance at the Canadian National Apple Show, Vancouver, during the first two days of the show, the attendance is reported to have been phenomenal. Kelowna in fertile Okanagon Valley won the grand sweep and stoed pre-eminent in the exhibition. Quebec exhibits of good hard sweet apples were ad mired by visitors. The Untario fruit, grown under various climatic conditions presented a dazzling difference in color, though uniform in sige, and excited the admiration of all. The shew is said to have been the largest


Ouly $\$ 1.00$
a Year

## ONIARIO AND THE APPLE-A MOST PROFITABLE BUSINESS <br> J. W. Crow, B.S.A., Professor of Pomology, O.A.C.

## The Second Article by Prof. Crow. Apples as Protitable as Peaches. How the Smaller Growers of Apples may Solve the Great Problems that Confront Them. Smaller Growers of

THE tone of the preceding article in Farm and Dairy, October 20, might lead an unthinking person to conclude that apple growing in the Province of Untario is an unsafe and an undesirable commercial proposition. As a matter of fact, ne conclusion could be farther from the truth. The apple industry offers to-day a better opportunity for money making than ever before. While it is true that conditions previcusly referred to have resulted in a general depression of the industry, it is also true that there has been gradually brought about a condition of affars anprecedented in our history. The vast increase in our consuming population and the remarkable extension of our shipping facilities, both boat and rail, have placed an almost unlimited market within our easy reach, and at the present time demand is vastly greater than supply
It is quite true that in recent years there have Leen seasons of low prices, and it is also doubtless true that within the next few years similar periods will recur. It is a significant fact, however, and one which cannot be too forcibly brought to the attention of present and prospective fruit growers, that at no tims within the last 10 years have strictly first-class upples been over plentiful; nor is it at all possible,--in fact, one might say it is almost impossible,-that such a condition will arise for many years to come.

## decrieasm in quantiay

As has already been stated, the proportion of strietly first-class apples and, likewise, the actual quantity of apples of first grade have decreased within the last 15 years. The decrease has been so marked one would seem to be entirely safe in predicting that a number of years must elapse before the production of high-grade fruit begins to equal the demand for it. Low prices, when they come, as they are certain to do, will be caused, not by a surplus of high-grade fruit, but ty the placing on the market of large quantities of second-grade and inferior stock. Low-grade fruit when marketed in considerable quantity does affect more or less seriously the selling price of best grades. As a general rule, however, there is practically no difficulty experienced in dispes ing of fruit of high grade. Growers who will givo the necessary attention and care to their orchards are sure of a market, provided they grow sufficient quantity to attract buyers, or to enable them to place their own product on the market indepen-
dently.
apples as propitable as peaches
I deem it distinetly a misfortune that so many of our best growers decline to permit the publication of the returns they are receiving and the profits they are making in apple growing. I have been fortunate enough, however, to have been admitted into the confidence of a number of grewers, and I have no hesitation in saying that apple growing in the Province of Ontario when conducted by intelligent, thorough, business men pays to-day equally as well as peach growing.

We have been accustomed for many years to regard peach grewing as the most profitable Lranch of the fruit industry. There may have been reason for this opinion in the past, but now the above statement will stand the closest scrutiny. I am quite convinced that an orchard of apples is fully as good financially as a peach orchard, and I can name more than one apple


Trees too Thick to Produce High Class_Fruit
grower who wculd not exchange his apples, acre for acre, for the best peach orchard in the famous Niagara fruit belt.

## extensive planting justified

The situation in Ontario to-day is one which will amply justify the planting of extensive orchards by men who have sufficient capital behind them. I am continually in receipt of letters from merchants and professional men concerning the opportunities for investment in apple growing. No man with a keen eye for profits can fail to be at-
tracted by a study of the ciportunities offered trected by a study of the opportunities offered in apple production to-day.
In general, the most difficult phase of the sub-


Trees too Thick and Badly Matilated
These two illustrations show oharacteristic orchards near Oollingwood. Ont., in the Georgian Bay apple
growing distriet. Think you growing district. Think you that the owners of these orchards will not give heed to them after seelng the re-
sulte obtained from the demonstration sulta obtained from the demonstration orcharde in the
distriet? One demonatration orchird before returned its owner 850 . This yeare had never son under tmproved orchard management, it fret season
\$N0
after all expenges had been met.
ject presenting itself at present is the problem of marketing. A man of means going into the business on a fairly extensive scale would have littie difficulty on this score. All that is necessary is to grow and pack first-class fruit in quantities not less than carloads.

## PROBLEM FOR SMALL GROWERS

The problem for the small grower, on the other hand, is much more complicated. For him the only solution seems to be ccoperative selling. At present a small producer, if he is isolated, cannot attract a buyer to his district. If he is situated in a large producing section he will not, of ccurse find it so difficult to dispese of his erop, but even in such sections cooperative marketing has very considerable advantages for the small grower.
I am quite aware that many persons will be inclined to bring up the fact that co-operative selling has not in the past been so uniformly successful as could be desired. It is true that some of cur associations have become noted for the quality of their packs and the businesslike administration of their organizations. On the other hand, it is also unfortunately true that a large number of our associations have failed entirety, and several others seem at present to be going backward instead of forward. Ncne of these facts can, however, be taken as refiecting on the correctness of the principle involved.

## cooperative mateeting

True cooperation is the remedy for the present depressed condition of affairs. It is rather a remarkable fact that up to the present time we in Ontario have made very tittle use of the results secured by other ccuntries in cooperative marketing. Associations have come into existence here and there, and after a short period of greater or less activity have disappeared and quit the business. Various reasons can be assigned for the many failures. The ordinary joint-stock plan of organization, in which the steck is all held by a few individuals, is not cooperative in prineiple and has been the direct cause of more than one failure among our associations. Limited liability has been another stumbling block. Older countries adopted unlimited liability many years ago, finding it truly cooperative in principle and perfectly satisfactory in operation.

## labge membership unsafe at btart

Another fruitful cause of disuppointment in cooperative work has been the practice of taking in a large number of members at the start. Experience shows that it is much safer to begin with a small number of first-elass men. If five or six careful, thorough fruit grewers will make up their minds to stick together in spite of any opposition that may be offered by buyers or others, and it they will at the beginning estallish definite, positive rules concerning spraying, eultivating, grading and packing, they will have no difficulty in disposing of their crop, or in securing additiens t. their number as the results of their work become known throughout their district.
A few good growers banding together in this way will get higher prices than if they were handling the crop from a larger number of more or less neglected orchards. The object lesson by which their neighbors will profit and which serves
to attract them into the business is the high price secured. If they can once be brought to realize that good apules properly grown, graded, and packed are actually saleable at high figures, they will be much nore likely te give the requisite care to their orcha:ds than if they had been admotted into the association at the beginming. In the latter case, the association would have on its hands, a large quantity of second-grade stock and prices thronghout the asociation would rule kcw in consequence. This would tend to dissatisfy the men in the association and would, of course, have the additional cffeet of keeping others from joining.

## What Care Does for a Binder

Rust and neglect, not legitimate wear, cause many piecess of farm machinery to be sent to the scrap heap long before they have served their proper time. Binders as they ate ordinarily known are not used save for a comparatively short time. Notwithstanding the intricacy of their mechanism and their initial high cost, binders in general receive only ordinary care and in many cases flagrant abuse. That a tinder of reliable construction will last and render satisfactery service if given proper care throughout a long series of years is evidenced in the case of a Peter Hamilton Binder that has been used by Wim. T. Payne of Peterboro Co., Ont., for 19 years and is still serviceable and is good for harvesting ancther crop. Some of its work last year is illustrated on this page.

My implements always get geod care and xo far as the binder is concerned it is nearly always housed at night and kept dry," said Mr. Payne as he handed the photo, from which the illustration is reproduced, to an editor of Farm and Dairy. "Plenty of oil is the cheapest machmery we have. 1 never stint it and 1 give such machinery as the binder pienty. In the case of our ohl binder, any depreciation in its usefulness is due alone te natural wear, not to any rusting out."

## The Colt Throughout its First Winter

## T. R. James, Middleste Co., Ont.

After the colt is weaned it should be allowed to run in a box stall with plenty of bedding. If tied up in a stall there is danger of something going wrong with its legs. Exercise is of prime importance, and the celts should be allowed to run in a field or yard every fine day, morning and afternoon, being brought in to the stable for its three feeds a day. Plenty of good hay can be fed, but care must tee taken to feed only as much hay or grain as the colt will eat up clean. Abcut four pounds of oats with one pound of bran a day is a fair average for the winter. Start with considerably less than this and gradually increase the amount. An abundance of good water shculd be obtainable at all times whether the colt is inside or out.
When two colts are kept loose in the same box stall, it is advisable to tie and feed them separately at meal time, as one is sure, sooner or later, to become the master and get the larger share. Some roots added to the ration will keep the colts in better growing condition. Grooming every day will have a beneficial effeet on their general thriftiness, and make them look and feel tenfold better when turned out to pasture in the spring. Lice are a great menace to young colts, and every attention should be paid to see that they are kept free from these pests.
A colt will usually live if allowed to run areund a straw stack all wintor and forage for himself, but there is too much good money in a draft horse for one to be content with giving it this kind of attention. Give the colt every ehanee to grow and thrive during the first winter of its life, and the effects will be evident all through his later years.

## Common Unsoundnesses of the Horse*

## Dr. A. S. Alexander, Madison, Wis.

The student should acquire a fair degree of skill in detecting the more common and serious unsoundnesses of horses. The diseases and unsoundnesses should, as follows, be studied secording te each part involved:
Hzad.-"Poll evil" is an enlargement of the poll, containing or discharking pus; due to bruise ; not hereditary; a serious unsoundness; often difficult to cure; recovered case may leave neek permanently stiff. Look for scars.
Eres.-Test for blindness. Pupil of the eye sheuld contract in the light. Cloudiness or opacity denote "moon blindness" (periodic ophthalmia ) or cataract. Specks may be due to injuries; unimportant if the sight is not impaired therely.

Eus.-Excessive mobility may indicate impaired vision, viciousness, or nervousness; lack of mobility may indicate deafness, or tetanus (lock jaw). Base of ear sometimes seat of troublesome discharging fistula.
Muzzle.-Nostrils should be free from discharge of chronic catarrh or glanders. Sometimes plugged with sponge to hide "roaring." Lining membrane should be healthy pink in color; free from ulcers, or purple spets or bad smelling discharge. Lips not torn; free from chronic sores from bit at angle of mouth.
Terth.-Examine for diseased, missing or pro-


## A Goed Crep of Buchwheat, Well Harvested

Not many binders ean do much better work, if as good, as that shown in this illuatration after they have
becn used a few years. The illustration shows some of the work donc by a Peter Hamilton binder in its 19th year of use on Peterboro County farms.
jecting molars: overlapping incisons mouth") molars; overlapping incisors ("parret mouth"): "bishopping" (artificial marking of the incisor teeth to alter indications of age) and under-shot jaw.

Tonace.-See that the tongue is intact and healthy. Part of it may be missing, or mutilations present. See that floor of menth is sound where bit rests.
Undea JAw:-Look for discharging, or plugged fistula of salivary duct or one connecting with a molar tooth root ; abscesses and tumors.
Neck.-Brcken crest in stallions; sores; skin disease; watch for artificially "braided in" mane.
Withers.-Fistula of the withers acute, chronic or healed; collar sores.

Shovlder.- Collar Loils ; fibroid tumors from 1."ing; "sweenes;" fistula or abscess.

Elbow.-"Shoe boil," from bruising of point of elbew.
Kner.-Scars from "broken knee," due to falling; puffs; "buck knee" (bent forward) ; "calf knee" (bent backward) ; high splint; capped knee.

Cannons.-Splints are abnormal bony growths
od at the sides of the cannon bones where the small splint bones (metacarpals in front, metatarsals in hind leg) overlie the large cannon bones. They are otjecticnable, may cause lameness when forming, are often an indication of light bone, but ordinarily should not be deemed to constitute hereditary unsoundness. If found on all legs, of large size and associated
An extract from a recent bulletin, from the Univer-
sity of Winconsin, entitled Draft Horse Judging.
with cther bony growths (exostoses) they may indicate a hereditary tendency to such bony growths (bony diathesis) and the animal should
ejected for breeding purposes. Examine back tendons for thickening of "bowed" condition. In examining horses having hairy legs search for evidences of grease and grease heel, such as eld scars, fissures, grape-like growths or discharge having bad odor: also for "scratches."
Fettooks.-Scat of puffs (wind galls) ; interfering sores: "knuckling" or "cocked" ankles grease, grease heel and scratches. Examinjust above or below for scars of "unnerving" (reurotemy).
Psistenns.-Seat of ringtones; a serious, herelitary unsoundness. These bony growths are the upper, middle or lower portions of the pastern bones, may partially or wholly encircle the bone, and in aggravated cases, canse lameness and invelve and interfere with the proper action of the fetlock joint above, or with the coffin joint at the lower end of the pastern bone. They give a bulging appearance to the part of the bone affected, have the feel of bone and constitute unsoundness. In werk horses ringbone involving a fore pastern is much more serious than ringbots on the hind pastern.
Cononkrs. (hoof heads), Sidebones are located under the skin of the coronet, at the quarters. They are due to the lateral cartilages at these parts changing to bone. When present they may be detected as preminent, hard, bony masses protuding above the hoof at the sides of the feet towa he heels and bulging the hoof under the part iavolved. When sidebones are absent the cartilages can be grasped between the fingers and thumb and moved or hent from side to side as is they were formed of stout rubber. Sidebones are common in draft horses and constiute unsoundness. Horses having wide, flat low heeled hoofs are most subjeet to this unsoundness. Horsex afilicted with sidebones and ringbones should not be used fer breeding purposes. "Quittor," a fistinlous alscess, is also a common unsoundness of the coronet.
Ferer. "Navicular disease" causes hardenin. and contraction of the hoof and chronic lameness The affected horse "points" his lame foot forware when standing at rest, starts off lamé and "warm: out of" lameness. The tendency to the disease ideemed hereditary. It constitutes a grave unsoundness for all purposes. Other common unsoundnesses to be looked fer are "tounder", indicated by rings and ridges on the hoof wall, abnormal projection at the toe, convexity at the sole ("dropped sole") and tameness; sand crack (in wall at front of toe) ; quarter crack (in wall at quarter) : corns, in the sole at the angle of bar and heel; and "thrush," a diseased condition of the frog characterized by a bad smelling discharge from the cleft.
Hips. Examine for fractures of the point shaft of the hip (ilium) indicated by distortion on comparing one hip with the other from the rear also examine fer similar distortion on haunch at side of tail (from fracture of the tuberosity of th ischium).
Tail. The black skin of the under side of the tail and nearby parts often is the seat of cancerous, malanotic or "pigment" tumors in agin: white or grey horses. The disease is incurable and constitutes unsoundnss in beth work and breeding horses. Examine end of tail for diseased or unhealed conditions due to docking and sit that the tail is not artificial and "joined on."
Stifle. Should be free from dropsical swellin,s and the knee cap (patella) should remain firmly in place during motion.
Hooss. These important joints should be free from "Lone spavin", "bog spavin", "thorough pin", and "curb". Each constitutes an unsounc ness in both work and breeding animals; tendency to them is considered hereditary. Bone spavin
(Oontinued on page 10)
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Crushed Gravel and Stone for Highways

## IV. A. MeLean, C.E., Enpineer of Hightrays for

## Ontano

Rock crushers with screen attachments are used for breaking quarry stone, field stone, and for treating gravel. They are Leing largely purchased throughout the Province of Ontario. Under suitable local cenditions they are an essential part of a road-making plant. They are subject to severe strain, and in selecting one o ${ }^{*}$ these machines, municipal councils should seek strength and coonomy of operation rather than a low first cost. Portable crushers such as are rated at 100 cutie yards in 10 hours are more economical than small sizes, as the cost of opcration is neariy the same in either case. Or-shed quarry or field stone c t reasonable quality is much more durable pilan is common gravel. 'I he c 0 mp p a rative life of stone and gravel rouds depends on the amount of trattic, Grav. d) may give bcod service under light tra-


Stone Crushing in South Oxford-Coarse Gravel being used to make "Metal"
Forty-eight miles of Oxford County, (Ont.,) roads have been graded, metalled,
travel pits. The metal used consiste prineipally of of oruahed gravel, procured ial and fully
 ans rom which it in loaded into wagons with a minimum of labor.
vel. But the heavier the travel, the more favorable becomes the use of broken stone, which is more durable and does not wear and rut so read. ily as does gravel. It is erdinarily assumed that one load of crushed stone is equal to two loads of gravel.
Crushed and soreened gravel very often does not cost any more, on the road, than does gravel in its natural state. This arises in two ways, frem reduced cost of teaming and loading.
(1) Coarse or loamy or sandy pits near the work may furnish a supply of gravel suitable for crushing or sereening, but not ft for use in its natural state, and in this way the shorter haul and reduced cost of teaming offsets the cest of crushing.
(2) By elevating the crushed gravel to a tin, wagons may be loaded in three minutes, instead of in a quarter of an hour or 20 minutes, so that teams are not paid for standing in the pit.
Bins should

Bins should always be used to receive stone from the crusher. Unless this is done, $t$ he crusher must frequently be stopped, keeping the entire equipment of men and machinery idle while waiting for empty wag. ons. For the same reason, if field stone is ased, it should be piled in advance of crushing, so that the out fit will not be idle while waiting for loads of stone to ceme up. By piling stone in the winter when farmers are idle the cost is usually lessened.
A rotary screen should be used on each erusher, elevating the crushed gravel or stone to the sereen by means of chain buckets. The size of perforations in the screen will depend on the material being crushed. For ordinary quarry limestone or field stone when a roller is used,

This fine material should be wasted. When spread on top of the stone to a depth of two or three inches as is sometimes done, the effect of sereening is largely lest, as the fine stuff turns into slush in wet weather and ruts are commenced. There is usually plenty of sand and mud on the road without paying for hauling more. Clean stune, well consolidated by rolling, is what is needed on the roads.-Extract from "Highway Improvement".

## Reasons for Practicing Winter Dairying <br> Parnham Allison, Dundas Co., Ont.

My first and greatest reason for practising winter dairying in preference to summer dairying is that we get 50 per cent. more for our milk which is shipped to Mentreal in the winter than We do from the cheese factory in the summer, Also we get more milk in a year when we practise winter dairying. Cows that freshen in the fall give a good flow all winter and when they


## Getting oest Resd Metal to Improve the Rends of Perth Co., Ont. <br> The illustration shows a "gang" at work near St. Mary's, eruahing

Legin to shrink in yield they are turned out to pasture and get a fresh start. They are then dry during the fly season when fresh cows naturally slacken in their milk flew.
I prefer winter dairying also because it gives us a better division of labor. We are milking in the winter when we have not much to do and the work is that much lighter in the busy season. I also believe that we can produce milk more cheap-
ly in winter than we do in summer.
it is desirable to separate into three grades.
(1) Such as will pass a 1 -inch mesh; (2) such as will pass a 3 -inch mesh; (3) tailings.
The "tailings" or crusher should be put coarsest size passing the The 3 -inch matd be put in the bottom of the road. The 3 -inch material should be spread over the tailings. And the 1 -inch material can le used as a surface dressing. Care should be taken not to lise tco much of the surface dressing-merely enough to assist consolidation with a roller.
For crushed gravel the
vor crushed gravel the screen should have a wire dust jacket wrapped around part of the 1 -inch section of the screen to remove sand, dust and loam, using a $\%$-inch mesh for this purpose.


## Hints on Storing Vegetables <br> A. H. MacLennan, O.A.C., Guelph

The oummonest places for storing vegetables are house cellars, specielly constructed houses, barn basements, and outside pits. The place of storage should be cool and moist with good air circulation so as not to allow of excessive collection of moisture. The most desirable temperature for the store room for most vegetatiles runs from 32 degrees to 40 degrees above zero. Pits, if used, should be on well-drained land and protected from nerth and west winds. On the whole pits are
unsatisfactory as unsatisfactory as they entail double work. Pits should run north and south so as to give even
distribution of the distribution of the sun on warm days.
Potatoes keep best at 34 degrees to 38 degrees. The air should be sufficiently moist to prevent shrivelling. If the potatces are puiced in bins in the cellars, the bottom and sides of the bin should be boarded. It is not advisable that these bins be more than three or four feet deep. If the
air in the store room is te0 air in the store room is too dry, cover the tubers with sand and keep it moist. All potatoes sheuld to sorted thoroughly before finally storing.

## oblery and cabbage

To store celery place it in a cool, damp cellar at 32 degrees to 34 degrees temperature. Plant
the heads in good soil, close together, in beds the heads in good soil, close together, in -beds
abcut six feet wide with passages from in abcut six feet wide with passages from 12 to 18 inches wide. Water the celery well after bedding. Air circulation between the plants is essential. Cabbage must be kept near the freexing point. Leave a part of the stump on. Place the cabbage in double rows with stumps inward on slatted shelves, about two feet above each other. They may also be stored in trenches or pits. Three cabbages are placed in a row acress the pit, tucking the outer leaves which have been left on under the head. Then two calbages are placed on top of these, letting the outer leaves hang over the heads below, tucking in the leaves on the inner side of each cabbage. another head is then put on top, letting the outer leaves hang
over. This makes a kind of thatched reef to over. This makes a kind of thatched roof to
protect the heads. Snch protect the heads. Such a pile may be run to any length desired. Ventilation in the trench can be secured by tiles run in at equal distances apart. Cover the cabbage with six inches of straw and then with earth. If very cold weather comes, the ventilators should be olosed and the
rest of the roof covered with more coarse straw

## other veartables

Carrets are stored on slatted platforms. They are laid two feet thick and lightly covered with
sand. Ventilation must be good as the carrots sand. Ventilation must be good as the carrots are apt to heat.
Beets, parsnips, turnips and salsify are stored
in bins or boxes, two to three feet deep and eov in bins or boxes, two to three feet deep and covered with sand or soil to prevent shrivelling.
A dark, dry cellar, below 40 degrees is idea!
for onions. Place them in tiers, the layers of for onions. Place them in tiers, the layers of allow being eight to 10 inches deep. Never allow them to freeze. As the warm weather apday. If held for spring nale thand close in the day. If held for spring sale they may be kept
frozen all winter. in layers eight to 10 inches deep and after they are frozen solid, cover with waste hay. Do net handle when frozen.
Sqaush should never get frozen. If stored in a cellar there should be good ventilation with plenty of heat ( 40 degrees) without using artific-
ial heat. Store on tiers of shelves ial heat. Store on tiers of shelves twe feet apart. For large quantities have a separate building.
The chief thing to remember in storing any vegetable is to have good ventilation and a suit-
able temperature, which is able temperature, which is generally just above
freesing.

## I believe there are more Helstein cows with

 inficial records of from 20 to 30 pounds of butter in a week. in Leeds Co., Ont., than in all therest of the province.- $\mathbf{G}$. A. Gilroy, Leeds Co

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## Farm management

M********************a
Management of a Peat Swamp In a peat swamp which 1 am plauning to
bring under caltivation there are from two to three feet of vegetatere soil on a
mubsoil of gravelly loam. How would you subsoif of gravelly loam. How would you
wutere me to proceed to mate this tillablep
The first ponnt to we observed in

## nt.

 bringing the peat bog in question into suca a condition that it will grow bood eryps is thorough drainage. If laid deeply ce used, they they shouthe lat wrought under cutivation, the peat surface wall gradaaliy decrease in derply in the first place, they would The peat soil owing to
The peat soil owing to the large ter is cortan to be sour, so sour in ter is cortain to be sour, so sour in
fact that the bacteria that are so necessary to a fertile soil are unable
te work. An applicntion of lime of te work. An application of lime of say 2,000 or 3,0 pounds to the acre
would be advisable. Where the sur would be advisable. Where the sur-
face accumulation of peat is exeossave. face accumulation of peat is exeossive,
plowing, arying, lauling into piles plowing, arying, hauling into piles
and birning is advisable aitnough this means a larke loss of valuable fertilizing material.
Peat soils unless underlaid by a clay subsoil are not liable to prove brost results the subsoil and peat must be incorporated. Various plans are Advoceted whereby the surface and peat bogs have been rendered proiliz able by opening wide and deep ditches and spreading the subsoll so obtained on the surface of the peat soil. Where the subsoil is andy, twen as very little
chance of the swamp ever being chance of the swamp ever being
brought inte a fertile condition. Hauling soil to carar the surace of the
pent. whule practised to some extent peat, whale practised to some extent
where land is dear and labor cheap, is too expensity in Canada exeept under ideal conditons. Applications
of mineral manures and of garion of mineral mantires and of garifen fertile.

When to Trim a Cedar Hedge Kindly let me know throurh yoar valo-
able paper, Farm aud Dairy, if it would be able paper, Farm aud Dairy, if it would br
any harm to as cedar hedge to clip it at
this time of year.this tim
Ont.
The fall of the year is the most adantageons time to trim a cedar hodge or any of the evergreens, afthoupon
they may be trimmed at any season of the year without any noticeable ill
effects. The majority of those who have cedar hedges prefer to have them
trimmed in the fall.

## Notes on Swine

To get the best results frem feedimg skim milk to pigs, it should be mixced with grain feed. One pound of
cornmeal in three or four pounds of cornmeal in three or four pounds of
skim milk makes a splendid balaneed ration for shoats. Wheat shorts
mixed with skim in.ilk just se it wall run, and fed in addition to all the soaked corn the pigs will eat, will produce excellent gains.
If a man wishes to know just what profit, he can figure it out according to the following formula: On the dehit side-Price of sow. keeping
spring pigs, keeping fall pigs; and on the credit side-Value of spring ligs sold, spring pigs on hand, value
of fall pigs sold, fall pigs en hand, of fall pigs so
sows on hand.
What \& tlessing it is to the poor, leng suffering hog that men every-
where are hoginning to realize that where are heginning to realize that
he is naturally as clean as any other he is naturally as clean as any other
animal and will avoid filth if allowed to. For many years he has been
forced to live and sleep in foul, unhealthy quarters; but now intelligent
swing raisers are providing clean tronghis, clean beds and clean yards better.
In preparing scws for breeding it is necessary to feed well and koep
them zaining. A poorly fed, weak them zaining. A poorly fed, weak
sow will have little chance to proAisee a sod erop of pigs, when all her fred is needed to keep her up to living condition. She should be in thrivths condition when bred, so that she
can use the nourishment given ber not slone for herself, hut for the youngsters she is producing. In
Creading a large number of sows in brevding a large number of sows in part at a time, shipping a few days hotweon lots. so that at farrowing time in the spring the owner will be Bille te ret a little siewp occasionally Rreenir from Novemher 16 to 20 to $14,-\mathrm{N}^{2}$,

## Economy in Cement Work

Peter de Linde, Zion City, IIt.
It is said that every year in the in smoke, that is, are burned and that the insurance on these is $\$ 500$. 000,000. When people wake up to this immense loss and the danger to human life enough to realize the immensity of it, they will begin to see the economy of building with concrete. Just think of saving, and adding to the
permanent wealth of this country $\$ 500$, 000.000 every year. It scems like a dream, but it can be made a reality
Tons and tons, and thousands
Tons and tons, and thousands of
ons of good building material ar going to waste every year on the farm going to waste every year on the farms
an dprairies of the great West, and the forests and everywhere that can so easily be converted into fireproof and dirt-cheap building mater
ial There are many places in thi country, especially in the prairies of the great West, where the ordinary building material is very scarce. Lum830 to 850 a thousand teet. At sum prices many farmers can scarcely afford to build comfortable dwellings for their families; and hence the neens ary outhouses in which to store
their hay and feed and in which to shelter their live stock are beyond their ability to furnish. On this account a grest deal of material goes
to waste, and still worse, a great num. to waste, and still worse, a great num-
ber of horses and cattle and sheep are suffering and perishing every winter for lack of shelter. All of this can be changed if the farmers only knew of that is going to waste all around them every year.
Prairie fires also consume millions of dollars worth of property every year that could and would be saved by the economic plan of building. Great
straw piles are burned every year in straw piles are burned every year in
order to get rid of them, great stocks of corn cobs are often disposed of in the same way. This is extravagant and sinful waste.
All of this is excellent building material, us are also the tons of dry crass and stubble that are likewise wasted. The corn cobs should be dried and ground in the feed mill, the straw and the hay should be cut as fine as possible in the feed cutter and then mixed with sand and Portland cement, and it makes one of the finest build ing materials for outbuildings. Pilus of wasting sawdust in some places can be used-nothing better
To one barrel of Port
To one barrel of Portland cement and one barrel of fine sand add six barrels of ground corn cobs, or fine cut hay or straw, or sawdust. The wood fibre must be thoroughly satur-
ated for 24 hours and then mixed with ated for 24 hours and then mixed with the dry sand and cement until it is in a good working condition. This quanfeet of solid wall
Such building material is unexoel led for the construction of stables, barns, and granaries; for it is almost
frostproof, and is fireproof. Not only
can the wall be luitt of such material but also the floors and the roof can be made of it, if it is inlaid with wire
netting. The loft and the roof should be only three inches in thickness. It should then be finished with a thin paste made from Portland cement on water which can be applied with whitewash brush. Such houses ar much warmer and far more durable than those constructed of lumber
If these materials of vegetable fibr are ground into a fine flour-like bolted corn meal, and then mixed with the cornenea, and then mixed with the
eement as fiescribed in part of my book, it caa le manufactured into fine grained, strong, solid hard wood or lumber, as good as oak, and can b nicely polished. Unlike wood, it will not split, nor crack nor rot, and is fireproof. From it can be made floors doors, door frames, window frames mop boards, window casings, shingles and all kinds of fine furniture,
Of course the articles have to be made in molds. Some may be disposed to laugh at, or doubt these statements but they must know that the beautifu. white sheets of paper upon which we write, and the envelopes which we use are made from the dirty and cast-a. rags that many consider worthless. "Gather up the fragments that nothing remain," is a holy command, Which fow of us have learned to obey Obey this command and poverty flees and wealth abounds.--Extract from 'Cement

## Shapes of Horse's Heads

A tapering shape of the head-that is. tapering towards the muzzle-is a most attractive feature and characEnglish Exchange. It is partienlary pronownced in thoroughbreds and in horses nearly so, as well as in the Arab. The profile of horses' heads raries considerably, and the way in which it is shaped, perhaps, more than any cther point imparts individuality
to them. The line of the face, from forehead to muzzle, the face, from Corehead to muszle, may be straight, or more or less so, or it may be dished in tho other direction, imparting curve roxity to it: and when this last is at all marked we get the sc-called Roman nosed head.
In some horses, further, the fore wad is found to be prominent, it, so to speak, bulging ont at the eyes and from the appearance of the head, giv. ing a heavy look and spoiling its gracefulness of contour. Although its straight profile undoubtedly looks the bent, a slight dishing of the nose is by no means objectionable as it does not in the least impair the good shape of the head or its locks. Such a slightly dished face is to be seen in plenty of thoroughbreds.
thereto, on the or any tendency thoreto, on the other hand, is no light breed, becanse it does not look particularly well in them. It certainy imparts an unduly pronotnced cast of feature, and a head of this kind seems to lack in refinement as com pared with a straight or slightly concave profile. But, unpleasing though this feature is usually considered, it is widely held among horsemen that the fact of a horse being Roman-nosed is an indieation that the animal is of a tough, strong constitutional and good wearing sort. So far as regards English-bred herses there may be some truth in this theory, but it does not apply to the horses of foreign extrac try. Which are imported in this coun try. These frequently have a Roman
nose, yet such are, nevertheless, nose, yet such are, nevertheless, not that foreign-bred horses generally prove themselves more or less soft; at least, in regard to Continental breeds
I must congratulate you upon the advancement of Farm and Dairy.-
J. W. Richardson, Haldimand Co.


## Oat Straw for Dairy Cows

 Thave a large quantity of well cured oat will se fed in connection with enallhew, It roots, if such a plan is desired.would you and Would you advise me to feed this straw
when hay is searcest- 1 . W Oxford

Fe
-n comnection with ronts palatable for dairy cans made very should be run through a cutting bux and mixed with ensilage or roots 24 hrurs betore feeding. The straw will the flavor of the considerabiy and the Havor of the ensilage or reots, the straw making it it quite palatable. in is well to spread six or elght inches of straw on the feeding flow Crver this with ensilage or roots in
such quantities as yan are feed followed by straw and rate alternate layers. A tes handfuls salt scattered through this mistury makes it more palatable
When the straw is to take the place of hay to a largo extent its inte consideration and the caten supplemented with feeds high in prowin. Oat straw contains only clover hay will contain 6.8 . while anI timothy hay 28 per cent. ni. Cotton seed meal, otil calke. pluten meal lightened up with wheat bran would be good to feed complementary to the straw and ensilage raion. The main point, however, in
feoding such feeds as oat straw is cet them in as palatable a condition as possible, and this can only be obtrined through mixing with the ennotare or reots several hours previous

## Sheep and Corn Silage

The results of three yeaus of experi-
Thits in feeding corn silage to sheen ments in feeding corn silage to sheep
at the Purdue University Farm, are summarized by Prof, J. H. Skinner, and W. W. Smith, as follows:
palatable feed and a de an extromely suceulence for tha desirable form of bot ewes and young lambs
2 Experience in the use of corn silage would indicate that it has a desirable eflect upon the digestive system and benefits the general health and thrift of breeding ewes in the
3. The pregnant ewes on the silage rations, gained on an average for the winter, while those receiving similar rations without silage gained $151 / 2$ pounds.
4. The ewes due to lamb in the spring, which received the silage rathons, consumed 7.06 per cant. less grain and 32.25 per cent. less clover For than those eating the dry rations. For each pcund of hay coasumed by the pregnant ewes on the dry rations, the latter ate 2.48 pounds of
silage. silage
5. The average weight of fleece for the pregnant ewes during the three fed on was 11.06 peunds for the ewes pounls for those on the dry rations 6. The ewes with fall lambs at their sides and reopiving silage, gained on an average for two years, 25.3 pounds gained an average of 16 dry rations 7. The average weight of fleece
ewes with fall lambs was 10.8 peece for for those receiving silas 10.8 pounds for those receiving silage, and 10
pounde for those not redeiving sila 8. The ewes with fot receiving silage. 8. The ewes with fall lambs, receiving silage, ate, on an average, 4.82 per cent. less grain and 29.86 per
cent. less clover hay than those not recerving silage. Fer each pound of tion consumed by the ewes on the raof that eaton by the silage fed ewes tho latter ate 3.24 pounds of silage. 9. The fall lambs in the silage lot gained, on an average for the two yours cords a head daily, and these in the ot receiving no silage gained . 47 fakors. These gains, however, are in lambs of the silage rations, for the shorter on the former were fed for a shorter time upon the forcing rations supplied during the last 50 days of 10. Of the fall lambs sold as "hothouse lambs" during the spring of 1909, thase recciving the silage ration showed a sliphtly fitter condition of the carnes than those receiving the dry rations,
11 . The avorare daile, gain of the snrin.
the silage lot was three years in
lam pound per The shage lot was 46 pound per no silage, it was 48 pound. tima after the close of the regular ofperiment, four laml.s died from the or decom. assigned to poisonons The cause was sulting from poisonons products silnge. which was favorition of the posire of the silage to the air in exweather and the poor condition of the

Grain Ration for Cows roots and mixed hay. What mill staffe would you advise me to buy to feed in cows. in full wills Ont. purehes all grain feeds have to be purchased, the grains advisable will your locality and on the prices roughage that you are about to fee will consist of ensilare the roughage lairly high percentage of digestible protein in bought feeds is advisable as a sufficient quantity of carbonaceous material will be obtained from the roughage fed.
As a keneral rule protein can be of more mere cheaply in the form cake or cotton seed than in the less concentrated and cheaper feeding stuffs such as bran or oats. Heeding feeds such as oil cake meal, howeavy cannot be fed alone, they need to be lightened by other grains. Fer this purpose, wheat bran is unexcelled. milk pounds of, a ration composed of 3 . roots, 16 peunds of hay, five pounds of bran and two of cotton seed meal or oil cake, wenld be about rimht The concentrated feeds most right. able to purchase will depend largely

A Paying Proposition
When hogs for some time bring more than ordinarily high prices the ing pellmell into swine raising rushlikewise to be ino swine raising, and obtaining quantity been se, It has always But sc, and probablv alwavs will be, it has anthors otservation is that misman taken persistent and skilful mismanagement to lose money in hog raising with prices as they have rang. ed for 30 years past, barring, of course, some such epidemic as the socalled cholera. There is no branch of farming or stock husbandry which conducted with a reasonablv amount of fair horse sense and stayed with systematicnlly, one vear with another will do better by its proprietor and micre sncessafully keen the wolf and heriff from his door thane wolf and of well-bred swine. This, if he is satisfied with reasonable gains and such tains to the better growth as pertains to the better class of farming,

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conducted with skill and intelligence. If the experience of the best men is worth anything, if their observa-
tions and book-keeping have any ralue as standpoints from whieh to judge, there is surely a profit in wisely bred, wisely fed hogs, and there always has been, at any price for which they have been sold price for in succession within the observation of men ncw in active life. From CoLurn's "Swine in America."-Price


## Why Hogs Root

It in said by ohererere thit a boy roots in the ground for alkali which it finds in the soil and which aids him in digeston. Nature helps him cut in this way when man is foolish enough to neglect him. In the amount of carbonaceous feed that we feed the hogs there is too little phosphate for them. Anything that we throw to the hogs, whether lime, bones or oyster shells seems to be greatly relished and seems to be a great help to them in digesting their other feed, and promoting their general health.
Taakage is an excellent feed to prevent the sows and pigs frem having an apparent craving for uncommon feeds like bones, old leather and also killing chickens. It also aids them in gettng more nutriment out of their other feed by keeping them in a healthy condition. A good plan is to satsfy the craving for "something different" by planting a patch of artichokes, which will give them their fill before putting them on clover or grass.
Pork and the Jews.-By some of the ancient nations the hog was considered a sacred animal. By others it was regarded as unclean, and pro-
hibited as food. This prohibition hibited as food. This prohibition
among the Jews was regarded by among the Jews was regarded by
Tacitus and others as having been Tacitus and others as having been
tecause of a feeling that poric was often unfit to eat in warm climates, and apt to encourage the spread of leprosy. Moses is thought to have forbidden the eating of pork because it was liable to give the Israelites diseases that would make them unable to endure the long march out of Egypt. In those days, when cooking was crudely done, there was no doubt
much reason to fear trichina.-From Coburn's "SWINE IN AMERICA."


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## HORTICULTURE <br> 

## A Profitable Orchard

Five miles northwest of Forest on the shores of Lake Huron is one of the most profitable orchards in Lamb-
ton Co., that al Johnston Bros, In ill about 70 acres of this farm are planted in orchard. Apples, plums, and peaches are grown. The apple trees range in age from 65 years to
this ynar's planting. There is a 12 acre plot of three-year-old peaches, and 15 acres of Lenring plums.
This orehard demonstrates strongly the value of scientific treatment. grow without attention, the yearly product was about 200 or 300 barrels, Last year 2,300 barrels of apples were exported and 2,000 barrels made up into the evaporated artiele. This re presents a gross return of cyer $\$ 10.000$ from 35 acres of bearing

## Protection of Strawberries

K. A. Kirkpatrick, Eirp. Station, Minn.
Plan now to protect the strawber$r y$ bed when the ground freezes. Preb-


If you would have Thrifty Strawberries Next Spring, Pcotect Them in Winter
strawherry plants should be protected by a covering of strawy manure or litter tions for protecting the strawberry plantation in win permanently frozen. Dire. tiele. The illustration shows a well cultivated strawberry plantation in an orehard
on L. A. Hamilton's farm, Peel Co. Ont. on L. A. Hamilton's farm. Peel Co., Ont.
pose will be a light covering of marsh
hay. This will be least likely to inhay. This will be least likely to introduce seeds of weed pests into the bed. Material useles; for feed, such
as reeds. rushes and the grasses, will be ideal the coarser not pack so closely to the greund and at the same time it is not so easily lifted by the wind.
The whole surface of the bed should be covered rather lightly, an even depth of three inches being very desirable. On small beds, the material can be hauled up to the edge of the plantation while the weather is fine, placed in a neat pile, and, when the ground is frozen, it can be scattered over it with a fork. On larger plantations, the work of hatiling may be
deferred until the ground has frozen when the loaded wagon may be driven, astride a row, the driver pitching the material cff on either side of the load, while two helpers scatter it to the proper depth over a convenient swath

> retiining the covering

The problem of retaining the covering during the windy weather of early winter, before the snow has fallon to weight it, and in early spring
after the snow has left is a serious one. On small beds it may be advisable to use stalks cut from the cornfield after husking, or gathered from the racks where bundle-corn is being fed. These may be used alone, or in conjunction with a light cover-
added after the ground is frozen solidly. In the spring the heads coms out erisp and delicious. This is time-honcred method which has defied attempts at improvement.
Heads intended for early
Heads intended for early winter may be put in paper sacks which are tied closely about the stems, then hung from the wall or celling of a cool, dry cellar. They will keep for several weeks, but are liable to dry out mo
spring.
To store cabbage so that it will be crisp and fresh when wanted is not differlt. It is among the easiest ot all vegetables to keep. With a fittle care it can he had in good condition at all times from fall till spring. Only such heads as are solid and mature should be selected. Those that have They to split should be discarded They will do for immediate ase, bat do not keep well. Pull them and if not perfectly dry stand them on their beads under cover till they are. It will do nc harm to treat them un this way, anyhow, for a few days.
In the crchard of Johnson Bros. Forest. is a Baldwin tree, 35 years old, which has a fondness for making big records. Its last year's orcp was 20 barrels, but in 1908 it excelled even this, vielding 26 barrels of apples, mostly of the first grade of apples, mostly of the
selling altogether for $\$ 84$.
ing of the marsh grass. In extreme situations, such as points of knolls or exposed hillsides, it may be neces-
sary to resort to small brnshwood poles to retain the covering. These should be laid on top er the hay, at right angles to the prevailing winds and about three feet apart.
The great danage is done to strawmonths, when the snow has dispopeat d, allowing the thawing of the sur face through the day, followed sursharp freezing at aight. This results in the heaving of the plants or the killing of the crowns through the rupure of the prematurely-distended
cells. While the damana comes cells. While the damage comes at the fall in order to must be done in

## How to Store Cabbare

For keeping ealbage till spring there is nothing better than the cldfashioned pit. To make it, a trench is dug wide enough for the heads and so deep that when the cabbagey are in it, heads down, only the root. will be above the surface. The pit is lined with straw or loose leaves broken frem the heads. Over the heads a little straw is placed, or a fow leaves with earth. Before winter sets in the trench is filled to make a ridge shout the roots and a covering of litter is

ELM
FOR BALE
be following the following
single 0omb
it $\$ 2.00$ each.
J.M. RUTMERF

## POULTRY YARD

## Winter Eggs Profitable

Mrs, A. Johnston, Brome Co., Que. Poultry is only a side line with us on our dairy farm. Here there is
always plenty of work for the men with the general farm stock, se the with the general farm stock, se the
care of the fowls is left entirely to care of the fowls is left entirely to
I endeavor to make a profit out of them from winter eggs, Our poultry house is a cheap open fronted build ing and we practise dry feeding al together. A mixture of equal parts of whole corn, oats and wheat is ceattered in the litter morning and nikht, about two small handfuls being given to three birds. At noon a dry mash of crushed oats, two parts, and cracked wheat, one part, is given in troughs nailed to the wall. Water t milk when we have it, is befor
hiem constantly. Twice a week they re given green cut bone. As they get milk frequently, meat foods ar ot so necessary
With this system of feeding, the birds are kept constantly busy and Ifind the busy hen to be the laying ben. In this section of Quebec, there 5 never any trouble in disposing of winter eggs at good prices. In sum mer eggs will drop to 12 cents a dozen. This is when most of our neishbors are getting exgs. We prefer to get them when they are 35 to 40 cents and more a dozen.

## Mashes for Hopper Feeding

M. A. Jull, Poultry bapurt for B. $\mathbf{C}$ The majority of poultrymen are in favor of tha dry-mash method, es in large numbers. There is much less labor in the dry-mash method. The fowls may be kept in a healthier confowis may be kept in a healthier con-
dition on dry mash than with wet dition on dry mash than with wet
mash. If wet mash is used, it must mash. If wet mash is used, it must
be fed with very great care, although with small flecks many by-producis may be disposed of to good advantage in the wet mash. The principal thing in dry-mash feeding is to have o feed it in a hopper that will preOnt any waste
One good dry mash which is found give satisfaction is
By measure-4 parts bran.
1 part shorts. 1 part ground oats. 1 part ground har 1 part corn meal. purt beef scraps. $1 / 2$ lb. salt
This is a very
argely composed of brantion, being ne of our hest foods, and which is other heavier foods in good proportion

FOR SALE AND WANT adVERTISNG TWO CENT'S A WORD CASH WITH ORDER IF YOU WANT Barred Rock or White Leghorn Cockerels write Maple Leaf Poultry Yards, Brighton, Ont.
PURE BRED FOWLS GIVEN AWAY FREE In return for new yearly subscriptions to submecribers will bring you a of four new bred standard fowls. Write Oireulation Manager. Farm and Dairy, Peterboro.

OR SALE-Thorough bred Barred Roek cockerels; bred from 200 egg strain: 81

## ELM GROVE FARM

##  bot tollowinf hreedow food comb Brovo of

it $\$ 200$ each Black Minoreas, Barred Rocks,
J.M. RUTHERFORD, Box 82, Celedon E., Ont.
\% Another good mash may be made
By weight -4 parts wheat bran. 6 parts ground oats. 3 parts corn meat 2 parts wheat fings. Wheat midd2 parts ground alfalta This fation prevides foct scraps. in the mash, and if this ration is used, the alfalfa must be well cured. otherwise it may do a great deal of These to the laying stock.
Which are not the only rations Which are used in reeding laying sotivfection are tro which have given of the an, although the proportion if thougreund grains may be varied If thought advisatle. If green bone can be procured at a reasonable price beef scraps may be omitted altogether from the mashes. If beef scraps that they the pouitryman should see scraps are preferable to beet meal.

## Notes on Poultry Housing

## 1/rs. Annie L. Jarh. Whatesuing

## Cleanliness and an ab.undance of

 air and light in the house are im-portant reqniremons portant requirements, along with
plenty of fresh. plenty of fresh, cool water and a variety of food, to success with poulbuilt in an ouve a small poultry house

We now use small colony winter that can be moved to new locations lurimg the summer. The chickens are hatehed in these houses in the spring and usually go home to ro st. A coating of lime, with a little dissolved copper smphate and kerosene in it to prevent the germs of disease and
mites from increasing, is given the houses in early spring, and again midsummer.
Whin
When the poultry are housed
fall, it is well to have the rr
the house low at first. Ron oit more than two and a ha in diameter make mood roosts thohes should be painted with kerosene, in which is a little linseed oil. The latter dces not evaporate but hardens with holes and destroys any insects

## Grading Eggs for Sale

## For crdinary purposes, two grades

 of eggs will be found sufficient to satis fy the demands made on the producer, Anothew laid selects and No. 1 Another grade of ecmmon stock may or time be marketed, but they must Canadian Poultry Producers Aswoctation.New laid selects :-To consist of strictly new laid eggs, not over five days old, weighing not less than 24 oas, to the dozen. Clean, of uniform size and color, packed in substantial neat cases, having elean fillers. not over five days of new laid eggs. not over five days old, weighing not packed in oxs, to the dozen. Clean, ithed in substantial and neat cases Common fillers.
oregoing egga not covered by the keted under the brand of the Associa-tion.-F.O.E

## Where "Systems" Fail

There are yet individuals think they can tell how profitable a cow is by her looks, how much milk she can produce and how rich in butter-fat. Other claim to have the same superhuman ability regarding the producing proclivities of laying hens. Perhaps there never will come a time when some one will not be realy to claim such distinction. Experience and common sense should prove the sbsurdity of either pro-
position. Nevertheless there axist position. Nevertheless, there exist advertised "systems" whereby a person is premised the "secret" of selecting the highest layers and even estimating the number of eggs a hen
will lay during a year.

If people did not patronize these "systems" they would not be adver-
tised. Fach year they aro taking on tised. Fach year they are taking on
ome suckers. ome suckers.
There is
There is no man living who can judge accurately by eye what the record of a hen or cow will be. He may hit the mark eccasionally-he cannot very well heln it. But it takes the trap nost and Babeock test to toll absolute results. There is no getting around the reliability of these mes
thods, and there is no "ssatem", wheme possible which will provide like knewledge of the productive amalities of hen and cow. When it comes to guessing, one man's Ruoss neither can he depended upon.

## Poultry Pointers

The busy hen is the laving hen Plan to have lots of litter in the Hams witer
for the winter? in a supply of gri for the winter. A load ef conrse
sand makes good, cheap grit. Get it now.
The young cockerels are still run ning with the pullets in many floeks Separate them and prepare them for market. Likewise the old hens whiel are not going to be carried over this long ago.
It is not necessary to have the pullets in the basement to keep them warm. Give them a drv, light honse never will in that damp basement. Nothing is gained bs basement. Nothing is gained by having a male th the laying flock all winter. It imuch better to keep the sexes espar-
te. You will get more eggs and hetter eggs.

One Hundred Dollars in Gold.-As which they have bepn of the campaign more and better poultry carrying on for past summer, Gunn boultry during the Montreal, are offeri Langlois \& Co.. $\$ 50 . \$ 90$, are offering three prizes of shimments of $\$ 20$ for the three best shipments of bonltry to reach them The een Docomber 13th and 16th The shipment must consist of 12 turkevs, and one of the following 24 chickens, 12 dincks or 12 following, 24 to be understood that the company
can purchase all shipments st current market prices. This competition is open to farmers only. The poultry must be packed in cases containing twelve birds. See their advertisement on this page of Farm and Darry and

## - Just Out

Every eqge is virtually ${ }^{\text {an }}$ a bird in the
hand backed by expert knowledge that ellm-
inates filure of mones hime and assures the greatest of money-making success, This know, a book. It must corne to you frat-hand -from experts who are making big money ralsing poultry and who know You get in the home course of poultry Falsing condueted by the International Correspondence schools of Ecrunton. Every phake ts eovered - from solecting eges
marketing for profl. Thesutiect sing How to select most profitable breedsincludes marketing egess and profitable breeds; feeding:
and antiry for prefits antoral and artificiaf brooding: aatural and artificial ins-*
cubationt laying heast cubation: laying heas; combination plant; poulfry
appliances; esemies of noultry: poulty appliances; egemies of poultry; poultry houses and
management; turieys; water towls; squass, tl Additional vatue of this courre to fometc. the fat that the experimentar plant of tha
I. C. in the larert poulty 1.C.s in the largert pouitry firm in the world
-the extebrated fancocui Poultry Farms-
whore experine -the evebrated Fancocy Proultry Farmid
where experiments of evwry kind aro mado
for the benelto for the beneflitof those takilir kind aro mad
The I C. S. Coure
 Tnsures succesk The sea
isthe money-making way.
For full partimily
For full particulars write to-dey to


## REWARD, ONE HUNDRED DOLLARS

## POULTRY PRODUCERS

We will pay top market price at time of delivery, and a prize of

## $\$ 100.00$ IN GOLD

Divided First, Second and Third, for the best 12 Turkeys and 12 other barn yard fowls delivered between the 12th and 16th December

JUDGE.-Professor Frd. C. Elford of McDonald Agricultural College.

## Write for particulars and entry blank

## Gunn, Langlois \& Co., Ltd.

 MONTREAL, QUE.CANADA'S LEADING PRODUCE AND POULTRY HOUSE

Interesting Comparisons
Editor, Farm and Dairy,-During the seascn of 1910, there have been such noteworthy variations in the average yield of cows month by month in different testing associations that it occurs to me you will be interested in the follewing table:

ONTARIO-LOW AVERAGES Lbs. Lbs
Milk. Fat
April, Wallace
May Brooklin.
June, Camalachie
July, Corinth
August, Spencerville
$\begin{array}{ll}583 & 19 \\ 647 & 22\end{array}$

September, Dalmeney
Avril, East Oxford.
May, Peterborough
June, Black Oreek.
July, Warsaw
Angust, Central Smith
September, Trewern. $\begin{array}{ll}1114 & 35 \\ 1044 & 38 \\ 3\end{array}$ 1162 vields almost invariably the the high where some attention has are found to dairy records thereby emahling owners to cull out such cows as do not pay; this is naturally followed by better feeding, and breeding to a pure bred sire of decided dairy type.-Chas.
F. Whitley, In Charge of Dairy Records.

## Farmer's Institute Conference

A conference of members of Farm
ers' Institutes and of Farmers' Instiers' Institutes and of Farmers' Insti-
tute Clubs has been called by the Sunerintendent, Mr. George A. Putnam to be held in Toronto. Thursday and
Friday, Nov, 17 and 18 . The meeting Friday, Nov, 17 and 18 . The meetinc
is intended primarily to assist Institute officers and lecturers and officers of Clubs in making their work more uniform and effective during the com-
ing season. The Convention will be held in the Temple building.
The meeting it is thousht should Institute officers and members and will be the means of inducing farmers in many sections of the province to
form local clubs. On arcount of the Provincial Horticultural Exhibition from Tuesday to Soturday. Nov, 15th to 19 th, return tickets within a radius
of 83 miles of Toronto. can be boucht of 83 miles of Toronto, can be brucht
for single fare, plus 25 cents. Delegates from greater distances may re-
ceive reduced rates on the standard certificate plan. A most interesting programme has been prepared. Copies may be had George A. Putnam, Toronto, Ont.

## Asked to Let the Tariff Alone

 Editor, Farm and Dairy.-In viewof the evident determination of the of the evident determination of the
Canadian manufacturers to use all of their influence to keep the tariff at a high level, it is up to us farmers to have our say in the matter
That the farmers or Uanada should let the tariff alone was the opinion expressed by Mr. R. J. Younge, of Mentreal on the occasion of the visit sociation to Regina last month. Such a condition of affairs would suit the protected interests to perfection. Continuing Mr. Younge said: "The differences between the manufacturer and the farmer are only on the surface. At heart, all are protectionists because any study of actual conditions would show that some tariff is tions would show that some tariff is
necessary if industries of all kinds necessary if industries of all kinds
including farming are to be developed in this country. Canada is thriving as never before. No one is really
suffering thrcugh the tariff, ther suffering thrcugh the tariff, therefore go carefully about altering it.'

## parmene intrrebted

No class of people in Canada are
more vitally interested in tariff ques tions than are the farmers. Farmers are the largest buyers of all kinds of manufactured goods and hence are most affected by a protective tariff.

The manufacturer is enalled by means of our tariff to charge an aver age of 25 per cent. more for his goods price which we can ast the tariff. The price which we can ask for our pro-
ducts however, is not affected by our dacts
tariff. The production of agricultural produce in Canada is greatly in exproduce in Canada is greatly in ex-
cess of home consumption. Therefore the price of our products is determin ed almost altogether by the price which we can get in the foreign mar-
ket in competition with the wcrld. ket in competition with the werld. To ask ${ }^{\text {a }}$ class of people so vitally
interested in tariff questions and so greatly affected financially as is the farmer to let the tariff alone altogether, or in other words to leave it in the hands of the Canadian Manu-
facturers' Association is ridiculous in facturers' Association, is ridiculous in a keen business man. He will not bo content to leave "well enough" alone. If he finds that by changing the tariff, his business and the prosperty of the coutury in general will be increased helf heard.
prospeaty due to naturil caubrs The fact that the farmers of this country are fairly presperous in spite ne-fourth which makes us pay fully have to buy is due to the fact that we have a new country with all kinds of undeveloped resources. It is the acconnts for our prosperity; not the accrunts for our prosperity : not the
nrotective tariff as the Manufacturers' Issociation would have us believe. An industry which cannot survive without a pretection of 20 or 30 per cent. instead of being a benefit to
the country is a positive iniury. There ire many articles on which a reduc tien in tariff would be of most de-
cided benefit. Individually or througir ur various organizations we should do our utmost to impress on our legislators at Ottawa the fact that we mont tariff reduction and that we will have it.-L. K. Shaw, Welland Cc.

## Unsoundnesses of the Horse

(Continued from page 4) a bony growth upon the surface er among the small bones, on the inner involve the true jock joint, or may A bony prowthe joint higher up outer growth appearing upon the outer part of the joint is called a
"jarde". In spavin lameness the horse starts In spavin lameness the horse starts out lame and improves or re
covers with exercise. Bcg, or so-called "blood" spavins, are soft, fluetuating distensions of the capsular ligaments (symovial or joint oil sacs) of the hock joints, and give a bulging appearance to the front of the part involved Curb appears as a bulging, calloused enlargement upen the rear portion of the hind leg, just under the hock joint, involving the tendons and liga-ments and sometimes the bone of the part. Crooked or sickle hocks are most prone to curh which follows undue strain when at play or work. Actua! unscundness, implicating the hock joint and objectionable conformation, disease or become unsound contract carefully avoided in the selection of breeding stok and work animan.

> OTHER UNSOUNDNESEEs

Uhorra, Shivering, ob St. Vitus DANCE is considered a hereditary dispave and also constitutes unsoundness in work horses. It is commonest in dervous, tall, narrow animals. The disease is most readily detected when noving the horse from one side to the other, or in backing out of the tall. The leg is jerked up once or twice at these times and the tail and muscles quiver momentarily. The smptoms disappear when the horse is exercised. "Stringhalt (akin to choron) is the term applied to the exaggerated jerking up action of the hind in sem th scme horses. The trouble oneration (peroneal tenotomy)
Rosming. (laryngeal hemiplegial)
characterized by noisy breathing when the horse is exercised. It con-
stitutes unscundness in both work stitutes unscundness
and breeding horses.
and breeding horses.
Haves,
Hasives. (emphysema of the lungs), indicated by double bellowslike action of the obdominal muscles as the horse breathes ; cough also is present. Like roaring it is an unsoundness of the breeding animal and work horse
ricks such as cribbing windsucking and weaving are best discovered when the horse is in the stall and altheugh not certainly hereditary are highly otectionable and detrimental unsound nesses.

All the prize grain from the Canadian National Exhibition has been sent to the fcurteen agricultural re will distribute it in half-bushel lots
among representative farmers in their sections. These men will sow the grain, and next year will return to the representatives an equal quantity, and this will le handled on to other farmers.

The Ontaric Agricultural and Experimental Union will hold its next annual meeting at the Gnelph Agricultural College, Jan. 10, 11, and 12. Formerly the meeting has been held at the time of the Winter Fair; it is now to be held at the time of the Short Cot rse on Seed and Stock Judging. A better cpportunity than ever before will be given at the forthcoming convention for bringing out the results of the cooperative exueri ments in agriculture that are now boing conducted on about 5,000 farms throughout Ontaric.

## It Does More Work For You

Because the feed opening will take larger chargee of hay, because the compound leverage nower is greater, because the sweep is shorter enabbling the
plunger to give more strokes in a given time, the Dain Pull Power Hay Press plunger to give more strokes in a given time, the Dain
has much greater capacity than a push power press.
With the Dain the horses never complain of heavy draft. The ingenious
equalizing device shifts the weight so that the load is always moderate. There is no pitiman or other high obstruction for the horses to stumble over. There is no heavy rebound, no whipping of the tongue to ma le the horses' necks
sore, an with pitman-presses. The simplicity of the conpound levernge consore, an with pitman-presses. The simplicity of the ecmpound leverage con-
entruction reduces the draft to the lowest degree. The Dain is the easy hay struction reduces the draft to the
press-enes on horsen, easy on men.
You can set the Dain Pull Power Hay Press quickly anywhere as it does
not need to be level. Recause it delivers the bales towards the horses and , way rom the stock, it can be set at the centre, or any part of the stack. Thy we do not have to fork the hay so many feet as with preses you have to set at end of stack. You stand up all the time you fre tying, too.

"CHAMPION EYYPORATOR MAXES THE BEST SYYUP"


THE GRIMM MFG. CO.
58 Wellington St., MONTREAL, QUE.


## Which of These Pictures Represents Your Stable?

IF your stable is of wood, you'll do well to tear down those old, decrepit and unsanitary stalls and mangers and build new ones of Concrete.

In fact, to be properly ventilated and sanitary the entire stable-inside and out-should be built of Concrete.

Because of the continual dampness which prevails in the stable, lumber soon rots away and requires almost constant patching and repairing, besides the expense of renewing it every few years.
Lumber, too, because of its absorbent nature, soon becomes impregnated with the odors and filth of the stable and forms a prolific breeding ground for disease germs of every kind. Then rats will infest a timber-built stable and another dangerous source of disease is developed.

To build your stable of Concrete is to have it as modern as it is possible to make it.

Concrete stables are cheaper than lumber, viewed from the standpoint of ultimate cost. They are germ-proof, free from vermin, durable, saritary, fireproof, and are easily kept clean.

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The cost of a Concrete stable is less than you think and is more than made up by its lasting durability.
If you would know something of the possibilities of Concrete, fill out the coupon and send it to us. By return mail we will send you free a copy of our new illustrated book, "What the Farmer Can Do With Concrefe." This took is just off the press and is
priced at 50 c , but we intend to distribute them free for a while and charge up the expense to advertising.
"What the Former Can Do With Concrete" gives you a mplete instructions for the construcion of almost everything you can think of in the way of farm utilities, such as stables, mangers, feeding troughs, and so forth.

There is nothing technical or hard to understand in this book. It is written in plain, simple language, easily understood by the layman. It tells you how to mix and use concrete, make the necessary preparations, forms, molds and the like, so that you can do much of this work yourself or have it done under your direction.

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FARM AND DAIRY
and Rural Home

## Publifited by The Rural Pubtlatitg Com pany, Limited. 4

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Dleased to receive practical articles.

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FARM AND DAIRY PETERBORO, ONT.

## THE PRICE OF MILK IN CITIES

The city consumer is quite right when he feels that any undue increase in the price of milk is a very real hardship, and it leaves permanent results in the impaired health of many children of the poor whose usual supply on account of the increased price has to be shortened. Milk dealers in Toronto have announced their winter price to be eight cents per quart for unbottled and nine cents for bottled milk.

It may be that this price is unduly high to the consumer, but it is certain that the consumers are not getting too much. Let anyone acquaint himself with the value of fresh milch cows, the high cost of feed and labor, and the abundance of both of which it takes to care for the dairy cow, also consider the exceedingly perishable nature of the product, and they will not consider the $\$ 1.65$ per can that the producer receives one whit too much.

The whole matter of Toronto's milk
supply, as the Globe puts it, needs careful consideration from its economic aspect. Decent roads leading into the city and the more general use of auto trucks, trolley cars and a less exhorbitant charge for the carriage of milk into the city and empties back to the farm, would in all probability enable the retailers to lower the price to the consumer one cent a quart and still make fair returns.

## IGNORANCE NOT BLISS

It is quite proper to be wise to the danger to health that attends the drinking of water not known to be ab solutely pure. Over 25 persons that attended the Orono fall fair recently were stricken with typhoid. Five of the victims have since died; others are in serious danger. Each of these typhoid victims had partaken of wate drawn from a well at the local hostelry.
The greatest care should be taken in regard to all water used for drinking, culinary or dairy purposes. The vells and other sources of water supply not above suspicion are legion. We ought to ask ourselves serious questions concerning our wells and about any water used for drinking or brought into contact with things we eat. Only recently eleven cases of typhoid fever in Toronto were traced to one dairy that supplied milk to the city.
When there becomes a general appreciation of the untold suffering and the imminent danger to human life caused by impure water, people will not be caught unawares by polluted water, as has been altogether too common in the past.

## LONG TERM LEASES THE BEST

Why are Canadian farms that hav been rented for a few years almost invariably to be found in a run down condition? In older countries, England for example, where almost all of the agricultural land is farmed by tenants, the soil is in a higher state of fertility than is the soil on most of the best farms in the older settled parts of Canada. Our system of renting farm lands is at fault. Shert term leases are the rule, they should be the exeeption.
A farmer cannot reap the full benefit of improved cultivation and fertilizers in one or two years. At least four years are necessary to get out of the soil all that is put in. Crop retation is essential to good farming, and the shortest rotation advisable for general farming extends over three years. This plan of cropping, however, is not encouraged bv a shert lease. No one can blame the tenant for nct improving his farm when he knows that he may not hold it long enough to get the full benefit of his industry.
In England or Scotland rents are frequently made for terms of 50 or even 100 years. long term leases are invariably the rule. Then it is to the advantage of the tenant as well as of the landlord to keep the land in good tilth. The remedy for vur run-out, rented farms lies with the landlord. All should bear it in mind that long term rents are the best from every point of view.

## THE PATRON'S PROBLEM

Some equitable basis for the payment of milk should be adopted by each and every factory. The pooling system, or paying for milk by weight, regardless of its quality, must forever stand without one sound argument to support it. There is nothing just about the system. It is grossly unfair. It places temptation in the way of the producer, which, as records show, is irresistible on the part of many. Under the pooling system no encouragement is given patrons to produce milk of quality ; cheese manufactured is of poorer quality and year by year reports of the dairy instructors have shown that more pounds of milk are being required to make a pound of cheese.
There are three methods other than that of the pooling system any one of which is greatly to be preferred to the pooling system. These are to pay accordinz to the "straisht percentase of fat," the "fat plus the estimated casein," and the "fat plus the actual casein," as determined by the Hart cascin test.
Dairy authorities have never agreed as to which is the more correct meth od of the two most commonly known, the straight fat and the plus two method. And on that account, the general adoption of a system of paying for milk according to quality, has been sadly delayed. A mere handful only of the factories make any pretense at dividing proceeds on a basis other than that of the pooling system.
Casein is known to have definite value in cheese making. It is right that it should be considered. Actual work with the Hart casein test shows that in general the casein content of the milk increases as the reading of fat increases. Hence paying for milk according to its fat content is to a great extent taking account of its casein content.
Until some system is devolved whereby official testers will be appointed to do all the work of testing, it is not at all probable that the casein test will be adopted in cheese factories generally. The Hart test is comparatively a delicate one and it requires more time and knowledge than the average maker for some years to come will be able to devote to it. Payment on the straight fat basis is the simplest method that can be recommended. It is decidedly progressive and has been extremely helpful to the dairy interests where it is in vorue, and until the day dawns when official testers will become a part of the scheme of our great cheese industry, payment according to this basis should be adopted.
The question of dividing proceeds is one of vital concern to patrons. It is their problem, and largely theirs alone. At the forthcoming annual factory meetings, progressive patrons will serve their own interests and the best interests of the industry if they agitate and carry through to a successful conclusion the adoption of pay. ment for milk according to its fat content.

The motorists, who are ready to ac cept, and by deputation have asked for, a substantial tax Higher Taxes based upon the power on Autos. of their automobiles, if that tax shall be applied in increasing Provincial aid to counties for road construcion, should be granted what they ask in this re gard. The license or tax on automo biles should amount to a figure that would more nearly represent the dam age they work on highways. To anyone who can afford an automobile, a tax of $\$ 25, \$ 50$, or even more, would not be burdensome, and it would re sult, if applied to the cause of good roads, in greater justice to all. The low cost of the present tax or license amounting to $\$ 4$, is little short of a burlesque.

Did you ever notice that in sumars nature hides and smooths over the unsightly conditions that
Appearances prevail around so many in Winter farm outbuildings. A dilapidated barn or a tumble down snake fence may be picturesque when seen in the shade of trets and surrounded by green fields. It is much different in the winter months, is it not? Then those things stand out in all their ugliness. Winter is the proper time to have a look around the farm and see where improvements are needed in buildings, fences, and so forth.

Bill board advertising detracts so much from the beauty of a rural land. scape that it should be Billboard discouraged. The adAdvertising vertising agents of some pushing concern may add a few dollars to your income if you allow them to put large sign boards up in your fields, but these will detract much more than their earnings from the value of your farm.

We regret that the table computing the sums lost, from herds of various numbers, when the

## Inefficient

 cream separator for any Separators cause is doing ineffic ient work, was not inserted in the creamery page of Farm and Dairy Nov, 3rd, as announced. It is published this week and should receive the careful consideration every Farm and Dairy reader who has a cream separator in use.Our old subscribers generally understand that we cannot furnish the post office address of a
Anent our contributor, and we Correspondents make this explanation now largely for the benefit of new subscribers. Naturally the publishers of a magazine cannot be made a clearing house for the enormous volume of correspond ence which would accumulate but for this rule. To aid those, however, who from time to time want more light on certain subjects, we suggest that they send their inquiry direct to the editor, who will try to handle it in a manner helpful to all, perhaps securing further details from the original contributor.

Use Farmers' Money to Make $\left\lvert\, \begin{aligned} & \text { indication of a good feeder. I prefer } \\ & \text { also }\end{aligned}\right.$

## More

Now, that the fall seeding is done people are ha ang time to talk again, and even to do a little thinking. A man whose elocutionary manner was bad-he made too many gestures and his voice was harsh and uncultivated and me in a corner one day recently and unburdened himself of his sum
mer thinking. "Why don'
bout the banks? you write semething about the banks? I tell you what it is, young man, we people in the country and the smaller towns have got to look into this banking question. One morning when I was milking I thought of a thing about the banks
that knocked me all of a heap. Bethat knocked me all of a heap. Be-
fore that time I had always thought fore that time I had always thought where a man could to to get his sale notes discounted, or, perhaps, if his name was good, te borrow a hrndred or so to tide him over till he sold his Wheat. But do you know what these banks really are? They are chronic
borrowers. They have tranches in borrowers. They have tranches in
every part of the country to berrow every part of the country to berrow
money from us farmers at a low rate of interest. Of course, the security is good, but they are simply borrowing from us every time we make a deposit. That's exactly what putting money in the bank means. We go arcund swelling out our chests and being proud that we have moner in the bank, when we are simply lending it out at a low rate of interest.
"They get us to lend them all ou spare cash and then they send it away where it helps to build up the away where it helps to build up the
big cities. They take it away from big cities. They take it away from
the small places where it shot the small places where it shorld be
used to improve the farms and to build up local industries. Now what are we going to do about it?"' As I couldn't solve the difficulty for him off-hand I promised to pass it along to someone who might be able to give a satisfactory answer. I have nc comment to make. I am simply putting this on record as a phase of country thinking. There are many more who think as this man does.-Peter McArthur, in Saturday Globe.

## Selecting a Brood Sow

R. H. Harding, Middlesex Co., Ont.

The price of hogs the past two seasons will no doubt cause farmers to dip into the industry a trifle stronger notwithstanding the fact that the packers slaughter prices in a most cold blooded way as soon as opportunity affords itself. For that reason many scws have been spared the slaughter and have of late been selected for breeding.
Care needs to be taken in selecting the ycung pig that is intended for a brood sow. The selection should be made before the pigs are put up to finish, as it will net improve the sow to be on forced feeding but will more likely injure her. In making the selection be sure to get one with 12 or mere teats so as she will be able to suckle at least 12 pigs if that many arrive in safety. Look for one with legs and feet well placed and bone of good quality, not too round. It is important that the legs be such as will earry the sow aleng sprightly after she has attained full size and heavy weight.
The brood sow should have a straight even back, not too lroad, but with ribs well sprung, with a long deep side-flat rather than oval, with bottom line out abcut even with the spring of rib. The shoulder should be mooth and blended gently into the neck and side, projecting sliphtly wider than the side in order to give plenty of room for the heart and plenty of room for the heart and lungs to perferm their necessary functions. This is important because if We have a hog with a weak constitution it cannot be expected to produce good vigorous or prefitable feeders. A face broad between the yes is an
also in a sow a good thick cont cf
silky hair rather silky hair rather than thin curly or
Wcolly stuff as I believe in weolly stuff as I believe it denotes a
better quality of meat better quality of meat. I like a sow
also with the fon let with the flanks and hams well sity on thong legs are not a necesintended for trood sow as she is not intended for travel.
In selecting for length be sure to yet it between the shoulder and ham. A great many hogs are almest as long from the shoulder forward as they are backward.
Having selected a sow along the to foed suested, next in order will be muscle her liberally on bone and fattening fcods foors rather than on develop her well without making to too fat if the best results are to be obtained.

## A Simple Method of Water Purification

lime level teaspoonful of chloride of lime should be rubbed into a teacup of water. This solution should he
diluted with threa cunfuls of water and a teaspoonful of the whole quter. titv shoull he added to each two gallon pail of drinking water. This will give . 4 or .5 parts of free chlorvill in 10 minutes parts of water and ind colon bacilli or other all typhoid producing organasms in the waterMoreaver, all traces of the chlorine will rapidlv disappear.
This method of purification has leen tested with Toronts Bay water inoculated with millions of bacteria it hery ferm has been destroved and water been unnecessary to boil the valuable Tor method should be very campers, for miners, prospectors, resorts, and those living in summer resorts where the ecendition of the Waters might not be above suspicion - G. G. Nasmith and R. R. Gricion of Health of the Provincial Board of Health. Toronto

## Prayer of a Horse

By order of Acting Police Commissioner Bugher, who as First Deputy Commissioner has charge of the traf fic squads, New York there has been posted in every stable and cther places, where police horses are kept a neatly printed card bearing this Prayer of a Horse."

POLICE DEPARTMENT NEW York
$T_{0}$ thee, my master, $I$ offer prayer:
Feed me, water and care for me, and when the dav's work is done provide me with shelter, a clean, dry bed and a stall wide enough for me to Your woice comfort. Talk to me. me as the reins. Pet me sometimes that I may serve you the sometimes, and learn to love you the more gladly the reins, and love yout. Do not jerk geing up hill Never stripe, beat or kick me when I do not understand what you mean, but give me a chance o understand you Watch me chanc Ifail to do your bidding see if some thing is not wrong with my harness or feet.
Examine my teeth when I do not eat. I may have an ulcerated tooth and that, you know, is very painful Do not tie my head in an unnatural position or take away my best deposition or take away my best de-
fence against flies and mosquitoes by rence against flies and mosquitoes by
cutting off my tail. cutting off my tail.
And, finally, oh ! my master, when my useful strength is gone do not turn me cut to starve or freeze or sell me to some crsel owner, to be slowly tortured and starved to death. But do thon, my master, take my life in the kindest way and your God will reward you here and hereafter. You may not censider me irreverent if I ask this in the name of Him who was born in a stable. Amen.


That's what you do when you lock out loss and distress from the Dairy by putting in the

## De Laval Cream Separator

You Get The Money's Worth
Catalogue Free
Agents Everywhere
THE DE LAVAL SEPARATOR CO.
173-177 William St. MONTREAL

## PURE BRED AYRSHIRE CALF FREE

In addition to our popular offer to give a pure bred pig for a club of nine new subscribers to Farm and Dairy, we are now able to Offer a Pure-Bred Young Ayrshire Heifer Calf in return for a club of Sixteen new yearly subscribers to Farm and Dairy. Subscriptions taken for this club now will continue until January 1, 1912.

Here is a chance to win a fine animal free of cost. This animal is bred by one of the best breeders in Canada. Send in your subscriptions to Farm and Dairy at once, as this offer will be taken up in a short time. Sample copies sent on application to:

## Circulation Manager

## FARM AND DAIRY

PETERBOROUGH, ONT.

Turn Water to＇Money


By installing our system of

## Woodward Water Basins

Increase flow of milk，and once in WILL PAY FOR THEMSELVES in a short time． GOOD AS A GOLD MINE Ontario Wind Engine \＆Pump WINNIPEG TORONTO，ONT．CALGARY

## Land For The Settler

160 acres of land convenient to Railways in Northern Ontario＇s great Clay Belt for each settler． The soil is rich and productive and covered with valuable timber． For full information as to terms of sale and homestead regulations， and for special colonisation rates to settlers，write to
DONALD SUTHERLAND，
Director of Colonization，
Toronto，Ontario
HON．JAMES S．DUFF，
Toronto，Ontario
NATURAL FINE．PHOSPHATE

 manure byappl）
ing only 20 ．
north to of manure． Crib for free Booklet
telling all about i． $\quad 1 \begin{aligned} & \text { sent S stations confirm } \\ & \text { mhos，as our free Book－} \\ & \text { let shows Address．}\end{aligned}$


FOR SALE
3 Alpha De Laval Turbine Separators Just returned from factory，all doing
first class work．Change in system puts City Dairy Co．．Ltd．，T0RONT0，ONT

## Creamery Department <br> －ribution to this department，to ask ques－  

 Robert Orickmore，Owatonna，Minn． The manager of a creamery should be the secretary，The secretary has all records at all times to report and no one else could do as well withoutunnecessary duplication of work and unnecessary duplication of work and
trouble．The manager of a cooperative creamery should be the best man available from am aug the stockholders because all think sing equal there is no man more incerosted than one who has a personal and financial in－ terest in his business．A buttermaker usually is not a permanency and mas trouble enough of his own without assuming those of the management． In some cases he needs to be man－ aged． The manager＇s sole qualification should not be that he is a good fol－ low．He should have some common sense and sense enough to use it． There are always one or more such There in each association．He should men in each association．He should keeping and know how to figure ac－ curately．It is not absolutely neces sary to have a business college grad－ ute，although that should not count against him．Some of the most sue－ cessful managers had no practical knowledge to begin with．

OTHER QUALIFICATIONS
He should not be thin－skinned，as the average creamery patron is not always considerate of the other fol－ lows feelings．If there is a drop in
test from one month tc the next the test from one month tc the next the
manager is to blame，but if it goes manager is to blame，but if it goes
up he has nothing to do with it．He ap he has nothing to do with it．He
should listen to all complaints and then forget some of them．He should be ecurteous to the patrons and to the travelling fraternity and able to solve the numerous propositions put un to him by the smooth butter soli－ citors as they come decked in various garbs and their name is legion
He should knew how to test milk or cream so that he can show the dis－ satisfied patron that his test was
rivet．He should buy all supplies rivet．He should but all supplies maker in regard to which salt，cub－ maker in regard to which salt，cult
tyre coal or color the latter can do
－Part of an address at the National Creapnery Buttermakers＇Convention，Chi－
engo，October 25,1910 ．

## CASEIN <br> It is profitable to convert small or large amounts of skim－milk into dry Casein Write for our proposition and state amount of milk you have daily in flush seasons <br> The Casein Mfg，Co． <br> 11 PINE ST，NEW YORK CITY

## 景

## REF

SANITARY CHURN
There＇s no comparison between the ordinary wooden churn and the＂EUREKA＂．Barrel is stoneware－top is clear glass．
Besides being absolutely sanitary，the glass top enables you to see how the churning is coming along without opening the churn． Also made with Aluminum top．
The＂RUREKA＂is the easiest churn on the market to operate．By tilting back the frame until the weight rests on the wheels，the churn can be quickly and easily moved－
while the barrel remain upright．
If your dealer does not handle the＂RURRKA，＂ If your dealer does not handle the＂RURRKA，＂
do not take a substitute but write us for catalogue． EUREKA PLANTER CO．LIMITED，WOODSTOCK，ONT．
the better work with．He should mix with other managers and butter－ makers as much as possible，because there is always something to learn．
He should attend all meeting of his county creamery or dairy organiza－ tons，State and National，if possible The average creamery manager does not draw a princely salary，usually from $\$ 100$ to $\$ 150$ per annam and ling expenses．He should for travel－ ling expenses．He should take and read dairy
keep posted．
$\Delta$ man new at the business will not have all of these qualifications，as they must be acquired at a cost of time and experience．After a man
has arrived at the efficient stage of has arrived at the efficient stage of
the game he should be paid some－ where near what he is worth．as it takes time to educate a new man and arsis money to correct some of his unavoidable errors of judgment．
A new manager－I guess some of us have been there：We were going to be economical and make a record We bought cheaper coal because it was just as good，and all coal is black anyhow．The grates burned out be－ canse of clinkers，besides it took more time to fire，and the butter－ maker could not he in two places at once and something suffered in con－
sequence．Then the different offers of sequence．Then the different offers of
the solicitors were a nightmare．We the solicitors were a nightmare．We did net know at first that a higher premium did not always result in a higher price per pound net．We divided shipments with two or more houses，not realising that one good bonse－and there are lots of them－ will do better with all of the goods is a long line is better than a short costly and usually to wat expert unnecessary．

## Loss from Poor Skimming

A study of the losses of butter fat in separating milk，due to imperfect skimming，caused either by an in－ efficient separator，unfavourable con No．of Lbs．Milk

ing out of balance er in a bad state of repair or improper turning，is of great importance to cream producers A table is here given for the con－ sideration of creamery patrons，show－ ing the less in butter fat and the value of the stine figured at 25 c ．a pound of butter fat．
With a herd of 10 cows（an average herd）the difference between a loss of 02 and .10 per cent．butter fat in the skim milk is a loss of $\$ 12.00 \mathrm{a}$ the skim mike is a loss of if tested， year．Many separators，if tested， and sometimes more than 1－10th of 1 per cent．in the skim milk．A
separator to do good work must be separater to do good work must be
set level and solid，turned up to fall set level and solid，turned up to full running smooth．

## Dairy Notes from P．E．I．

The total amount of milk received by the cooperative dairy associations of Prince Edward Island during the year 1909 was $47,192,987 \mathrm{lbs}$ ．，an in－ crease of $11,466,439$ lbs．over the min Of this， $35,373,553$ lbs．were made in Of this， $35,373,55819.451$ into butter The value of the cheese made in 1909 Was $\$ 375.591$ ，and of butter $\$ 127,001$ The net value to the patrons from th milk made into cheese was $\$ 300,043$ ，
and from that made into butter and from
$\$ 99,864$ ．

The number of patrons shipping milk to cheese factories in 1909 was 3,706 as compared with 2,909 in 1908 The patrons of creameries number 621 ．The average weight of mill contributed per patron in 1909 was 10.906 the ．and the average returns per patron gross，$\$ 116.15$ ；and the net return $\$ 92.42$
The cooperative dairy work has shown a substantial recovery in the year 1909．Cooperative work on the Island had len declining ever sine Island had bon declining ever sine
1900 ．The most encouraging feature 1900．The most encouraging feature
of the season of 1909 is that 810 of the season of 1009 is that
patrons were added to factory lists

## Creamery Meeting at Guelph

Again there is extended a cordial invitation to creamery men and others interested in dairying to meet togeth er at the Dairy School．Guelph，on Thursday，Dee，8th，at 1.30 p．m．At the meeting last year nc set addressed were delivered：the whole time was given up to discussion．This appeared to meet with general approval．There fore no set programme will be rt hared to，but the following subj． are probably of interest．Creameryme ans any or ed to dis cuss any or all cf them．
Mr ．John $\begin{gathered}\text { Programs } \\ \mathrm{H} . \\ \text { Scott，}\end{gathered}$ President W．O．D．A．，chairman
1．Short review of creamery instruc tin work， 1910.
2．Defects in our butter during the past season．Suggestions for improve ments．（A special invitation is ex tended to butter buyers to attend and assist in this discussion）
3．Anything further to be said re－ garding the grading of cream．
4．The best system of caring for cream on the farm．
5．Suggestions as to how creamer men may assist in improving the qua tv of the cream supply
6．Can the expenses for hauling cream be lessened and still improve the quality of the Later？
creameries for weighing Babcock test

samples sensitive and accurate enough for all practical purposes？
8．What differences are shown in figuring cut dividends to patrons when the pipette or scales are used？
9．Is the pasteurization of cream pr＇ctica！and profitable in Western Ontario Creameries
10．Would it not be well for Cream cory Managers to adopt，so far as poss ole，a unif
11．Over reading or under reading the Babocek test．
12．Maker＇s certificates．
On December the Fth at $1.30 \mathrm{p} . \mathrm{m}$
On December the 7 th at 1.30 p．m．， Dairy School which will be held in dead of the usual district meetings The programme for this meeting wi be given on the cheese page of Farm and Dairy next week．
Prof．H．H．Dean will give a short address at both meetings．F．Herne， Chief Dairy Instructor for Western Ontario，will give a short report en Cheese and Creamery Instruction work for 1910．Mr．Geo．A．Putnam Director of Dairying；Mr．Geo．H Barr．Chief Dairy Division；Mr．G G．Publow，Chief Instructor Eastern Ontario；Prof．R．Hareonrt and Prof S．F．Edwards，O．A．U．；the Director S．F，Edwards，O．A．C．；the Director
of the W．O．D．A．the Dairy School of the W．O．D．A．，the Dairy School
Staff，the Dairy Instructors and others will be present and take par in the discussions．

## Chese Department  Exibutisizew ici

Mr. Ayer Replies to Mr. McKim
Editor, Marm and Dary, 1 note Mr. Mokim's roply in Farm and
Dairy of Oct. 27 hith to
an serted in the issue of Sppt. 22 md . The trouble with Mr. Mckim's reply is, that he started on a wrong basis. and the cther necessary sep 20 cows, Worth 810000 In proot of it, I wiil farm that is now or anyone elese, a of good cows, eight head oof young stock, and a bull for $\$ 10,000$. There
ts feal ter 50 head, with the necessary horses. This farm is situated near a creamFary where the average price paid
the farmers for milk this year is over the farmers for milk this year is over
$\$ 1.00$ a cwt. Thirty-s1x cows at $\$ 60$ each gives an income of $\$ 2,160$, instead of 81,200 , which Mr. McKim
would get from his 20 cows. At $\$ 1$ would get from his 20 cows. At $\$ 1$
per ewt. of milk, $\$ 80$ each, we would per ewt. of milk, $\$ 80$ each
have for the year $\$ 2,880$.
The nine-cent figure which I used for cheese in my last letter was merely illustrative of what could be done if the very worst came to pass and in poor cows. As to the "farmer being ground by the middle man," it is a well known fact that none of the large produce firms, for the past three years have made six per cent. on the capion a farm, in their business. I was born on a farm, have a sen on a farm,
and a son in my own business, and, and a son in my own business, and,
notwithstanding what Mr. McKim says, I think I can give a fair and intelligent view of farm conditions, Many a city man is turning to the
farm for profit, for pleasure and for farm for profit, for pleasure and for
health. There are enjoyments and pleasures in farming and in country life which the city cannot afford. Ayer, Montreal.

## The Fat and Casein Test

 Payment of milk at cheese factories by weight alone is obviously unjust. Payment for milk by thestraight fat test or by the fat plus two test gives the patron more nearly what his milk is worth for cheese making. That milk should be tested for both fat and casein is now advocated in Bulletin No. 197 of the Unvversity of Wisconsin as a result of extensive experiments carried on by E. B. Hart. Experiments were on with the milk of 94 herds to determine the variation of casein in content, and the relation of to fat age of fat in milk to tue quality of age of fat
the cheese.
It has
It has been argued by those advocating the straight fat test, first,
that an inerease in the fat coutent

## FUP SALE AND WANT ADVRRTISNG

 TWO CENTS A WOND, CASH WITH ORDEA FOR SALE,-Large cheese factory, big business concern. Owner must sell al address, Alex. McDonald. Wicklow, Om CHEESEMAKERS AXD BUTTERMAKERS can find proitable employment during tae winter months by working for Farmand Dairy. Exeluaive territory given and Dairy. Exelusive territory given full particulars to Circulation Manager Farm and Dairy, Peterboro, Ont. FOR SALE - Ureamery in Ontario: up-to Runs year round. Addreas pounds butter. and Dairy
Por SALt-iron Pipe, Pulleys, Belung, eto., all sizes, very cheap. Send for list, eto., all sizes, very cheap. Send for list, Waste and Meta! O., Oneen Btreet, Montreal.
of milk is accempanied by an equal increase in the casein content; se-
condly, that high testing milk makes condly, that high testing milk makes
a cheese of such high quality as to a cheese of such high quality as to
make the straight fat test a fair criterion of the value of the milk for
cheese making.

There experiments of cheras
These experiments show that, while is accompanted by an increase fat oasein, it is not always so, and that more quality of the cheese depends more unon the sanitary conditions of
the milk than on the fat If pll milk than on the fat content.
Iore kept under the same conditions of sanitation the same of cheese, but the difference in quality ty would not be sufficient in qual a high testing milk with a low casein content equal to a milk testing scme content. content.
It was
masnin
vasein in mill that wo variation in varied from .3 to 8 the same herd that in milk from all sources the variation was from 1.8 to 2.8 per the casein content of therefore, that almest as content of milk varies to the fat content, and as casein has an equal value pound for pound in cheese making as has rat, the only just and equitable basis for payment combined milk and casein is by the cost of casein test
One of the chief arguments against bas boen that of the casein test ho tost is excessively high. operating hottle machine will cost $\$ 30$ and with 30 patrons, the cost of a factory for making the test for materials would be 82.50 or the total cost for be $\$ 12.50$. In taking
In taking composite samples, popreservative. If the sat be used as a with this presorvative for more than seven days, an accurate test cannet month, however, would day tests in curately the cheese producing value of milk delivered.
The conclusions arrived at by these Way of paying for milk for cheese easeing test by the combined fat and asein test; $(2)$, that this test is not and that the apparatus ound in every compin every factory ; and (3), that honld not be camples for the casein test hould not be kept more than seven invs if correct results are to be ob-
tained.

## Quantity Only Considered

McGill, Secretary Cavan Cheese Factory, Durham Co., Ont, Four years ago, the Cavan cheese We paid by test a creamery and vould receive as much some patrons owt, more than others for their milk, but as the butter fat was the same price to all, there were no objections.
Since starting to have always paid for milk by the pooling system. A few of the pat rons are in favor of paying by test, majority never favor meeting, the majority never favor this method of paying for the milk. The* think extra help. oxtra help.
I am not a patron myself. If I was It would certainly say pay by test. patrons were paid to all, If the cuality of their milk, it would the a tendeney to induce them to grade up their herds and keep a grade class of cows. They would ${ }^{\text {a }}$ send a better quality of milk to the factery in order to secure a higher test. To the cheese maker this would mean a better quality of cheese and more
of it.

## Criticism of Canadian Cheese

P. D. MacNamara, Trade Commissioner, Manchester, E.O.
The best information obtainable is which has come up so far this cheese, Which has come up so far this seasen, has arrived in splendid condition. The toxes from Brockville and west of there have arrived in good sound
shape, marks and weights properly shape. marks and weights properly
stencilled. Those from Ouebec, hew ever seem to be made of inferior wood, or possibly do not fit the cheese and in consequence drom the west market in as good a condition, being mostly broken and roped.
Notwithstanding that the handling cheese in all cases is alike, there an be but little excuse for the Quein a broken condition other than the act that the bexes themselves are of inferior quality. By reason of the
boxes being broken there is onportunity for pilferage occurring whilst the cheese is in transit. Importers have to stand this loss themselves, heir bills of company standing upon dispute throw the blame upon the drek anthorities, hence there is no reress for the importers.
Quebee cheese makers
particular in having are also not particular in having weights steny ch cheese coming d in pencil. This causes being markthreagh differences in weights receiv ed and those invoiced.

## HBATED CHEESE

The first two menths of this season he quality of Canadian cheese was verything that could be desired, since then there is some cause for complaint cheese coming on the English market in a heated condition. This may be attribeted to shipment through the heated term or else careless stowing in the steamships.
This fault is especially noticeable in cheese coming in on 'through bills of lading' from country points, and this could be avoided to a great exent if the cheese was shipped immediately upon reaching country staket to Montreal not having toy would two or three days in a hot shed beore being leaded on to the steamships. LOSS IN WEIOHT
The most serious complaint made by the importers of Canadian cheese is one of loss in weight. Cheese arriving here frequently show a less above that already allowed of over one pound a box. This at the present time the importer has to bear, export weighters' thought only fair that and it is ment should be made whereby a certain percentage should be allowed importers to cover the shrinkage which
occurs from the time of the public Weighing in Montreal, and the time the cheese is landed at English ports. The rule governing New Zealand i.f. transactions is fer an allowance ornmo and a half per cent, over govornment graders' certificate of weight 14 days that the shipment is made o cover this loss. It is sughested taken Canadian exporters could follow this with advantage.

The co-operative society of Quebec cheese makers has been formed with the aim of having our cheese judged, assed and paid for according to its real value. Our cheese is classified beliable judge. It is then sold and reon and the result has been since the beginning of the season, that our finest has obtained at least the highest price paid for the best Western at the sale of the different boards. These estabcheese. This syst value for Quebec cheese. This system will be, we hope, powerful indncement for onr makers
improve their manufacture and for the farmers to bo manufacture and for the farmers to be more careful of their milk.-Aug. Trudel, Montreal, Salesman for Co-operative Society.

## SHARPLES

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## Separator is later thes and differeat from all other. Has ight, simppe, supended Tubular bowl that trues itself like a plummet. Contains bowl that trues itself like a plummet. Contains neither dinks nor other contraptions. Much less washing, work ond washing, work and wear than with common separators. Produces twice the skimming force, sicims faster and twice as clean as com. <br> Guaranteed Forever <br> 

## tinent. Have been at the business on this con- Wo years.

 Write to-day for Catalog. No. 253, fullyillustrated, showing how Tubulars have put all

## Titherady 30

## THE SHARPLES SEPARATOR CO. товонтo, опт., wneapes, man.




IET thy every word and act be perfect truth, uttered in genuine love. Be true to thyself; be true to thy friend; be true to the world.

## MISS SELINA LUE

## MARIA THOMPSON DAVIESS

Mins Selina Lue, generous and tender of heart, keeps the grocery at River Bluff Whe feeds the five babiea whom she eares for in boad boxes, in the rear of the atore to board. They are introduced and Cynthia is annoyed at the young man's appan assumption of instant friendliness, and leaves abruptly, Oynthia alone with Miss Belina, conades her fears that her beautifui home muate be sold, and is taken to see Kent's pieturea Kent tellg Miss Selina of her love for Oynthia and to partly overheard
by Oynthia. Mina Belina gives a party by Oynthia .inias selina gives a party 10 all her friends for Kent and Oynthia's friend
 weataly, to the Bluff in his car and takes Miss solina and all the children for a ride.
dentallo return he is reconciled to his sou, and meets Oynthia.

"NOW, damt to benteme mat er," said Miss Belina Lue from the grocery steps, where she stood surrounded by all the smaH fry on the Bluff, none of
whom had ever before had the oppertunity of such a close acquaintance with the mysterious animal known as the "ottermolile." "The young man can go in on the next car and be back in no time with the monkey-wrench or whatever yot need to fix it with. And you come right in and set here in the shade of the hackberry where ycu can git the river breeze. Bennie, set out the big chair, and, Ethel Maud, you and bucket of fresh water and hand some bucket of fresh water and hand some
in that new gourd hanging by the in that new gourd hanging by the
door. Just come over here and be comfortable, mister ; I will admire to
have you."
Miss Selina Lue's bustling, hospitable enthusiasm had the eld gentleman out of the machine and seated by the gro
it himself.
"Upon my word, madam, this is plaasant after the hot sun," he said in a booming voice, "very pleasantd'yow hear -very pleasant I' and his brows drew up in an arch of amusement as Ethel Mand and Luella presented themselves before him with a dripping gourd held in twe pairs of small hands, for not for worlds would either of them have relinquished a part in the presentation of the cooling draft.

My, my, what a nice pair of little girls we have here! A very interest-
ing family, all of them-d'you hear? -a very interesting family-and arge-eh?"
"Lands

Lands alive, mister, this is all the children on the Bluff ; they don't nene of 'em belong to me," said Miss Selina Lue, as she took the gourd from him and began to water the children one at a time, according to size.

Now, that's too bad, madamdyou hear?-too bad. Such a fine lot But, bless my soul, think ycu are lucky not to own a single one I-I ve got the most outrageous pighead child myself and i-well, I jus can't express myself about him; outrageous pig-head-d'you hearP-ontrageous pighead!'
"My, ncw, ain't it a pityl" said Miss Selina Lne sympathetically "Did the poor boy take to drink ${ }^{\text {p" }}$
"Drink? No, madam, he did not!

He's everything a gentleman ought to be, and more, the pig-head-d'you hear -the pig-head "."
"Couldn't you do nothing with him " " asked Miss Selina Lue with interest. "You have to make allew ances fer young men-folks; looks like jest they youngness goes to they heads. Where did he break out ?
Miss Selina Lue seated herself on the Miss Selina Lue seated herself on the
step beside his chair, keeping a watchful eye on the children, who stcod as close as possible to the red marvel and discussed its wonders in the highest-pitched voices at their command. As usual, her sympathetic and interested way had its effect of irresistibly inviting confidence.
In a most unexpected-pig-head-edness-left me and the business to go to the dogs and went trailing off

"I will paint yea with your , manger-child injyour arms."
found out all about recks and things and was in the government employ, and he had come home to tell all the neighbors that maybe they had a fortune in phosphate right under their potato-patches and orchards. And all of them was a-cheering of him and the Squire a'calling him our leading citizen. It do seem strange how some folks will order out the musie fer they Loys after they have done fit the hard fight and don't need no cheering on, instead of starting em out en the road of life with ittle whooping up. It's then they needs it I am mighty glad I've got that night at the meeting live go that night at the meeting-house to by the first rock crusher that was by the fi
set going.

The old man locked fiercer than ever, but the tips of his white moustache trembled and he drew his brows together as if in pain. "He's an ungrateful pig-head," he mutteral but a good part of the explosivencss was gone from his tone.
"Oh, maybe he ain't now," said Miss Selina Lue persuasively. "There's the case of Mr. Alan and his father-the poor old man's pretty nigh broke his son's heart and is acting fer all the world like you say your boy is, pig-headed. But we excuse him.'
"Mr. AlanP" The old gentleman sat up, but Miss Selina Lue failed to notice the spark in his eves,
"Yes, that's a young man artist I've got boarding here with me. His name is Kent, but he is jest sich friends is Kent, but he is jest sich friends with everybedy on the Bluff that we all call him by his first name. His father is a big rich man, but it scems like with all his money he can't afferd to lot his son be happy and do the world good by painting beantiful pic tures that are a regular call to goodness fer everybody as sees 'em He never said a word about this trouble, but Miss Evelyn Branch told us about it fer she got aequainted with him last winter some place she went. The poor boy grieves so over his father that I feel I could do jest anything to help make 'em up. He has painted to help make em up. He has painted some beautiful pictures to go in a
hall for workmen to see how beautiful hall for workmen to see how beautiful work can be painted about, and he
hepes his father will see em and maybe forgive him for painting, I never close my eyes at night without making it a subject of prayer to soften that old man's heart." Miss Selina Lue's voice was deep with emotion and her eyes shone with wistfulness.
"Did he say his father was a hardheaded, old pig-head?" asked the old gentleman fiercely.
"No, indeed; he never !" exelaimed Miss Selina Lue hastily. "You don't know Mr Alan! Why, he's jest that tender and good that you would know he loved his father hard. But how his father could net know him enough to trust him to do his man's work in the world, I don't see. Looks like a man must think his own life have been a grand success if he goes to a-directing of his son's."
"And this Mr. Alan-er-er-you say he lives here? Been here long p" "Long encugh to git into the good feelings of every man, woman, child and puppy en the Bluff, and to git Miss Cynthia to loving him enough to marry him as soon as he finishes to marry him as soon as he finishes
the pictures and gits paid fer 'em, which she wouldn't wait fer, but he which she wouldn't
thinks they better."
thinks they better."
"Married 4 " the old gentleman exploded the word and lay back in the chair and fanned himself with the palm-leaf fan Miss Selina Lue had handed him when he came
"Yes, Mis' Jackson Page's daugh ter, and a blessed angel of light she is, too pretty and stylish fer any use It's jest one of the most beautiful and happiest things in the world, if it wasn't for the mortgage and the (T
(Te be continued next week.)

## The Upward Look

A Divine Command
m holy." written, Be ye holy, for Often there ister 1, 16
discouraging convietion th on us the is prouraging convietion that our life
more of a failure than of is proving more of a failure than of a
success. Our defects of character stand out so conspicuously that we far that they doom us to live a life far Lelow the level that our soul tells us that we should attain. The consciousness ef our own weaknesses over-
whelms us and whelms us and makes us feel that the less lual struggle agninst sin is hopeless.
There is great hope for us when We have reached this attitude of mind It shows that we are beginning to give up trusting in our own strength in Ged. Well may we to trust more and conquered when we feel depressed own helplessness. Well may we rejcice when we turn our eyes and thoughts away from self to God for we know that with God all things are possible: God can transform our
weakness into strength and fill us with weakness into strength and fill us with
a power before which the difficulties which now appal us will disappear like the mists before the sun. We must believe this as etherwise we refuse to God God's word.
God has told us to be holy. Does that word frighten, discourage us? It should not. God would not have told attainroent. He has compander of to be hicly. We must commanded us commands or deliberately remain God's sin. We must know that God has is the power we noed to will give become holy if we will enable us to Him and earnestly, constantly determinedly ask Him for it. It is such a great blessing that God will not give it to us lightly. We must show Him that we desire it with all our heart. Then we will get it. Never yet has a man or a woman gone to God and and been refused. God often gifts our faith but He delights to reward it when we persevere in our requests. It does not matter how hard our lot

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selves to be, how strong a feeld curEvil one may seem to have upon our dispositions, we can conquer all our difficultios if we can conquer all our
de will follow cur divine leader, put our trust wholly in Him and strive to be holy because He is holy.-I.H.N.

## OUR HOME CLUB

THAT FARMER'S WIFE
So much has been said about "Th Farmer's Wife" I came to the conch sion it was being fairly well threshed on all sides, but yet can not resist saying something after I had read the article by "Mother," and the "Pastor's Wife," in the June 16th issue. It is true we are told time and again that the majority of the inmates of our asylums are farmers' wives, but surely "Philosopher" does not think it is just because they are farmers' wives If he does 1 beg to differ with him. think like "The Pastor's Wife" and Mother" you have only to spend a 'farmer's in the city to find out the 'farmer's wife" is not the only one who has cares. True it may be they are of a different sort. Where, or how often do you find a jealous husband
in the country or find them in the city? I think yo you have seen them when no matter how the wife felt, she must don her best robe and paddle off to meet her best hand on his return from work her hus often, not Lecanse she felt like the didn't he would bo she knew if shi when he got home. I feel like calling such men great big babies, yet they are the elite of the city. Where do the maity
Cousing do the majority of our cits cousins ${ }^{\text {Ko for an evening's amuse- }}$ ment? Down town of course. Sometimes they are benefitted; sometimes they are not, for as "Dot", said in ane of her letters, "What will brid one our lives more than to hear good oraters, etc." Those men who marry second wife are taking a greater re-
sponsibility on their sponsibility on their head than they ever dreamed of, also the wife, especially where there are children, as one place of Mertain, no one can take the do the very next hest possibld try and are happy and unhappy homes no matare happy and unhappy homes no matof the country, I fail to see why a farmer's wife, if she is treated as she should be, should ever regret she te-
came a farmer's wife.- "Annt Jane."

## FARMERS SHOULD THINK

Oh, husbands and fathers on the farm wake up. What are you doing? Is it possible that all this talk in magazines and newspapers is true,
that with your own hands that with your own hands you are
driving your children to the city driving your children to the city and
your wives to the insane your wives to the insane asylum,
when the life should be almost ideal? Some time ago I referred in these columne time fault of long hours, monotony and no regular returns fer labor being the trouble, tut was soon contradicted by intended to let it said my say and intended to let it drop there, but anbiect, I felt I many letters on the subject, I felt I must speak again. osopher," agree with "Country Phil osopher, hewever but in the first and last case he mentions, I would say the existing eircumstances had not beon given serious consideration before hand. It was not the farmer but the man who was at fault and except for the work and isolation, the result must have been equally as disastrous in a city home. For my part, 1
wonld would rather undertake the care of a children husband and another wom of the city as possible. My girls would be,-Beware of such burgirls
dens.

There is altogether too much truth though in some of the compliments.
refuse to believe you are worse than the finer thingy and live so apart from sarbed in your arrienltural puraita that your eyes are often blinded and our bodies tco tired to appreciate the changes going on about you, or and children as thearnings of your wife a broader view of cateh, shall I say. inner life that must the real life, the You must keep in ted. times if yust keep in touch with the times if ycu would be a good compancity observe how courteously the the keeper treats her and try to the shop
and it when you get home. Never let her birthday or your welding day anni-
versary pass withcut reognitinn it is only a Louquet or a box of bon your consideration she appreciates woman will do more for love than elf if do for money. Prove your armer's true. Remember the home in Canad the most important how mneh depends on you. So ying and play games with your children in the evening and never be too busy to be
interested in their pleasures or dissainterested in their pleasures or dissa-
pointments. Sometimes crit or pointments. Sometimes criticize, but
often enccurage them: They will derstand you then. Last, but not least, do not grind the sweetness out
of their lives to build of their lives to build a bank account
or the larkest neighlorhood. Give and barn in the will formppreciate far mere and never happy hom for

When soot cure from the stove or smoking lamp, sprinkle thickly with corn meal, let stand a few minutes, then sweep up treaks on wall paper from the stare pipe, hold meal in a cloth and rub ightly over the paper. This is ab solutely safe and sure. This is ab-

## The Belleville

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es heat, and with one filling of the font burns steadily for nine hours, without smoke filling of the indicator always shers hours, without smoke or smell. An cap, put in like a cork in a amount of oil in the font. The fillerheater has a cool handle and a damper top by a chain. This
a damper top.
flame spreader, which Heater has an automatic-locking high enough to smoke, which prevents the wick from being turned the wick can be quickly cleaned. cannot become wedged and cleaned. The burner body or gallery rewicking. The Perfection Oil He unscrewed in an instant for nickel, is strong, durable, well-meater is finished in japan or light and ornamental.

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## Embroidery Designs 



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eushion five inches in diametet.


508 Design for Braiding a Belted House

$506 \begin{aligned} & \text { Design for Braiding the Ends of af } \\ & \text { Carving Cloth, Taile or Dresser Scarf. }\end{aligned}$ The design is eichteen inches wide and $t w n$ enis aregiven.


537

## Design for Embroidering a

Sofa Pillow.
Have you won any of our new premlums? If not, better send in a ofub at onee.

## Methods of Making Bread

(Continued from last week.)
When the recipe does not provide sufficient materials to make the desired quantity of bread, the amount of the various ingredients may be halved doubled or changed in any way provided their relative proportion remams the same.
 fering; add the intil it looks
smonth and elassmooth and elas-
tic. This will

Whole a thorough beating. Cool to $70^{\circ}$
or $80^{\circ} \mathrm{F}$ and add one compressed yenst eake soaked in one compressed yeast cake soaked in $1 / 2$ cup of warm water for ${ }^{\text {temperature of } 70^{\circ} \mathrm{F} \text {. for } 3 \text { or } 4}$ hours, stirring down as often as it comes to the top. Bottle and keep in a cool place. Do not cork it tightly in a cool
at first.

## at first.

(Continued next week.) sponge. When reaay, put the rest of the sugar, sat and lard into bring the rest of Fhe iquid to $90^{\circ}$ the ingredients in the pan. Add enough pan. Adrong flour to make a batter that will beat without spat beat without spat-
nrobatly take 15 or 20 minutes. Cover - losely, and keep at a temperature of
$70^{\circ} \mathrm{F}$, until light and spongy. This $70^{\circ}$ F., until light and spongy. This will take from 9 to 10 hours.
prepartion or douag. When sponge is ready, stir in strong flour until too stiff to use the spoon, then mix in more with a stiff-bladed knife, or the hand, until the dough no longer sticks to the fingers. Turn the dough out on the moulding-board to knead, leaving the nan quite clepn. The dough should knead without flour being put on the board or hands; if it proves sticky return it to the pan and mix in more flour, remembering that while too slack a dongh makes conrse textured bread, too stiff a dough makes slow-rising bread which will dry out quickly. Knead lightly until the mass is elastic and velvety, the surface covered with a film of tiny bubbles, and a ent with a sharp knife shows the inside full of fine even bublles and free from lumps or unmixed portions. Grease the kneading-pan hahty with lard, warm both pan and eover if they are cold put in the dough, cover closelv, an keep at a temperature of $80^{\circ} \mathrm{F}$, unti rather more than donbled in volume. or until a gentle slap with the tipa of the fingers causes it to fall in. This will take from 2 to 3 hours.
Knead lightly in the pan for a minute to get rid of the larger bubbles ute to get rid of the larger bubbles
and return to rise a second time unand double in volume. This will take til double in volume. This will take
from 1 to 2 hours. Divide into loaves from 1 to 2 hours. Divide into loaves
that will half fill the lread bins. that will half fill the bread bins.
Knead each piece oniy enough to get rid of large bubhles and smooth the surface, and put it into a greased tin. Keep at a temnerature of $70^{\circ}$ to $80^{\circ}$ $\mathbf{F}$. until doubled in volume, when they should have a bold, nicely rounded appearance.
Bake an hour in a very hot oven. When done, the loaves should give a hollow sound when tapped on the bottom.
When baked remove at once from the pan, and stand on edge or across the top of the pans, that the air may get to all parts and cool it quickly.

HOMR-MADR YRIBT.
4 medium sised potatoes.
$1 / 2$ cup hopa
1 quart bolling water
$1 / 2$ oup sugar
2 level tableapoons salt.
Boil the potatoes, drain sway the water, and mash potatoes until free from lnmps. Pour the boiling water which mav contain the water drained from the notatoes, over the hons and eimmer 15 minntes. Measure into a 3 nt . howl the four, sngar and salt, and mix thoronghly. Strain the hoo water, and add at once to the linwl stirring ranidly all the time. Adत the mashed potatoes and give the


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and walint meanure for skirts. Address all orders to the Pattern Department.

SEMI-FITTED COAT, 6824


The short coat will be much worn
throughout the entire season. This model is exceptional. found available for all seasonable mater ials. It is just as pretty for the sep. arate jacket as it is for the cont suit It can be made in the length illustrated or longer, and efther with cutaway Material require
for medium size $4 \%$ yds. of material 44 in . wide, $2 \%$ wide or $2 \%$.
$2 \%$ yds. 52 in . wide, with vd. of velvet for the collar. The pattern is ent for a 34, 36, 38, 40 and 42 in . bust, and will be mafled for 10 ets. GIRL'S DRESS, 6821


The dress trimmed with buttons at the the back is now and greatly liked this season. This model includes a dainty chemisette that can be made from any contrasting material and the tucks over the shoulders give becoming breadth.
Material reguired Material required
for 10 yr . size is $5 \%$ for 10 yF, size
yds. 24,
$4 \% / 2$
yds,
27,
$51 / 2$ $y d s$. 36 , or $21 / m$ yds. yd. of any width for the belt, $1 / 2 \mathrm{yd} .18 \mathrm{in}$. wide for trimming. The pattern is cut
for girls of 8,10 and 12 yrs., and will be
mailed for 10 ets. TUCEED OVER BLOUSE, 6813


The over blouse in laid in tiny tueks kimono sleeves is smart. This model is distinetive, belng trimmed with a shaped trimming portion, yet so simple that it can be made without any trouble whatever The kimono sleeves do away with all necessity of fitting the bleeves to the armholes, and reduce labor to the minl-
mum.
Material required for medium size fs 44 in wide, with $\%$ yd. 18 in wide for the trimming.
The pattern is out for a 34, 36, 38, 40 and 42 in . bust, and will be mailed for 10 cts. TUCKED OR GATHERED SKIRT, 6819


The full skirt shirred to give the effect of a tunie, is one of the very new ones. As this model oan be made elther with a slight train or in adapted both to simple occasions and to ple occasions and to
those of a more forthose of a more for-
mal nature. All the mal nature. All the
fashionable thin mafashionable thin ma-
terials will be found terials Will
Material required for medinm sise is $7 / \%$
41/a yds. 44 in , wide yds. 24,27 or 36 , or
\% yds. 44 in . wide 30 in . waist, and will be mailed for 10 ots.
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## OUNREARARMERS' CLUB <br> Oontribations Iavited.

 NOVA SCOTIATIGONISH
ANTIGONISH
N18H, Nov, 2.-In our standing Grain Fields Competition first place whe
won by Douald Chisholm; second, J. U. Chishoim: Bonald
third. Crocket fourth, Harry Eadie. The competition was open to Pietou and Antigonish Counties
$\$ 10000$ was given in eight prizes, fields to $\$ 10000$ was given in eight prizes, fields to
be not less than three acres..-Tom Brown

PRINCE EDWARD ISLAND KING'S CO., P.E.I.
ARDigan bridger, Oct. 30 -- There has been little fall shipping yet. Prodnce is
moving sowly Potatoes are scarce at 3 ac a bushel. Eight
Eoding present londing with produce. Six hav $\$$ che a bushel: turnips, 6 c . pork hare dropphi from 10 c to Be and 9 ca lb ., dressed - H . P QUEBEC
COMPTON CO., QUE.
COMPTON CENTRE, had two or three light snowstorms. Moes are a good crop. Cattle are scarce. Hay
is low, selling at from 84 to 86 n ton Por has dropped in price to 10e a lh. Cornmeal $\$ 1.35$
their si.3s a owl now.-H. G. C.
their stock ne.
SHERBROOKE CO., QUE. SHERBROOKE CO., QUE.
XVILLE. Oet. 27- Dairy prices LENNOXVILLE, Oct, have held far during the paimmere and
returns have been satisfactory as many returns have been satusered und the cows benefted. Threshing is in full swing and the yied is trod. Many farmers are buy
ing manure from the Montreal stoek yards paying as high as $\$ 23$ a car-H.M.

ONTARIO
Carleton co., ont.
BRITANNIA BAY, Oct. $28,-$ Grain was
dhort owing to the drought. Corn was not up to the average. Potatoes were large
up
but few in a hill. Roots were good. Gar den vegetables and fruits were a failure Plowing is nearly finished-

Leeds Co., ONT.
PlankililuE, Oet. $30 .-$ Frankille fair
Wha held September 29 aud 30 . The weathef was all that could be desired. The
number of entries was large and the exhibits fine in every class, exvept roate
und vegetables. Mr. J. ©. Anderson, of and vegetables. Mr. J. C. Anderson, of
Morganston, Ont., Was judge in the horse Morganston, Ont., was judge in the horse
clases and he said that the exhibit of volts was exceptionally good-W. F. M. SimCOE CO., ont.
ALLIBTON, Nov. 2-The farmers are busily engaged housing the root crops,
which are good. The late apples are a
better orop than at first expected.-W. L. WENTWORTH CO., ONT.
KIRKWALL, Nov, 1-Potatoes and mangels are nearly all in. Fall plowing is the prineipal work to be done now. A great many potatoes are rotten. Mangels are a
splendid erop, yielding as high as 1,000 to 1100 bushels an acre. Hogs are now very low, $\$ 7.25$ f.ob.,being paid.- $\Theta$. A. W. KENT CO., ONT.
WHEATLEY, Nov, 1.-Farmers are busy now husking their corn. It promises to b a bumper crop. Some fall plowing is being done. Apples are light, and of poor
quality. Those who have any are getting quality. Those who have any are getling
about $\$ 5$ a barrel locally for a seeond grade about 83 a barrel locally for a seeond grade
quality.-J. W. K. quality.

## LAMBTON CO., ONT.

W YOMING. Nov. 2 -Tile yards will not rush to the Wcot has slackened, as some that went last spring have returned and
purchased farms here.-D. N. A.
BRUCE CO., ONT.
HEPWOHTHI, Oct. 28-There has been deal weather all fabl fhey wore Potatocs are nearly all dug: they are not nearly so a good size and no rotten ones. Mangela and turnips are good. Cattle are seacre and high in price. At an auction sale reeach. yearlings at 835 and calves at 816 they have ever sold for here. Apples are atmost a failure.-J. K. L.

## BRITISH COLUMBIA.

Stock Judging Competitions were a fea Weatminater fall fairs at Victoria and New fairs there were two classes, one for comIairs there were two classes, one for com-
petitors over 21 years of age, and another for those under 21 years of age. In the for those under 81 years of age. In the
competition for those over 21 years at Victoria, W. A. Banford, Chilliwack, and Felix Guichon, Port Guichon, tied for firat, and P.
II. Wilson and James Higgineon, of Chill wack, tied for second place. The reaults in the junior classes were as follows: 1st, Percy Grimer, Pender Island: 2nd, Alex.
Brethur, Vietoria. At New Westminster Brethur, Victoria. At New Westminster,
firts place in the senior competition was on by James MeClughan, Port Kells, E A. Wells and T. H. Wilson, Chilliwack, tieing for second place. For boys under ${ }^{21}$
years of age, the winners were: A. Moyeara of age, the winners were: A. Mo-
Allister, Ladner, Neptune Grimer, Pender Island. and J. Lowrie, Ladner-M. A. J.

FIRST ANNUAL Toronto Fat Stock Show

## Union Stock Yards TORONTO

Mon. and Tues., Dec. 12 \& 13, 1910 \$1,100.00 IN CASH PRIZES
Entry Free. Entries close December 1st, 1910
For Premium List, Entry Blanks and any further information

## J. H. ASHCRAFT, Jr. <br> \section*{UNION STOCK YARDS}

TORONTO
Reduced Rates on all Railroads

as body is concerned. Lessnesnoek I Ibuse
an imported heifer, needs depth. It was an imported hoifer, needs depth. It was
not a strong elass. Five yearlings nct in milk were uniform in build, and the four winners made a pleaning pieture, astiafying to a breeder's eye. They could be varlously shifted. Viola Lind could head the class without violence to good judgment. So oould Daisy Verbank Zrd. Benior I , ifer calven, five in nutaber, were similarly clese torether in merit, and the judge's salec-
tions could be changed from top to l.ct. tions could be changed from top to lect. tom without serious injustice, artinogh ly modelled caif, would oftener leed then stand between winners.- Breedera' ivvetre
Two mites at national. Dair Two exhibitors of Ayrshires provided one has made in years. For the mont bart it was imported against Weat Virginia-bred cattle. Ryanogue Farm of New York had a large proportion of imported eattle, while almost all those shown by L. A. Rey mann of Weat Virginia were of his own breeding. Perhaps a little less flesh would have recommended the native entries to
the judge, W. W. Ballantyne, Stratford, Ont., for he manifeeted a preference for the thinner imported types. While the
Weat Virginians were not in the leasi overfitted, they were smoother and more attractively finished than their competi ors, and were on the whole as correct in
breed type. In view of these cireum breed type. In view of these circum
stances, the winning of si majorits of the blue ribbons by the New Yorkers did not make the judge's work so popular as it could have been with a little more merited recognition of the Reymann entries. In fact, the judge's decisions in three elasues
were protested by that exhibitor, hut the Were protested by that exhibitor, but the
board stood pat on the awards board stood pat on the awards as made. aion when it appointed Prof. Hugh a. Van Pelt, of lowa, and W. W. B. Arkcoll. Paoli
Pa., to act with Mr. Ballantsne Pa., to act with Mr. Ballantyne in judging
the groups and champlonships Che groups and championships,
Seldom indeed have our show
wheh a uniformly high class collestion of smeh a uniformly high class collection of and it is a distinet credit to West Virginiai that it should send from one of its hill farms as handsome a herd as could be got together in any country. It was an eyeopener to those who may not have looked upon that southern state as adapted to Ayrahire cattle-ralsing. Mr. Reymann has gone in for Ayrahires on the theory that
toporraphically his conntry beary a elose toporraphically his conntry beare a close
resemblance to that in which the breed resemblance to that in which the breed
has been developed, and that it should therefore prove a ft place in which to raise them. His show herd is his answer. THE BULLS
bull of a marked dairy pattern hut a bit rough and upstanding, could not win over Dairy King of Avon, a low-set, straightcyery competent judge. As hetween them every competent judge. As between them,
the difference is one of condition as much the difference is one of condition as much
as type. An even lined two year old with ample room of body got his dues, the seoond prise being a bit plain about the tailhead and carrying more fleah than the judge liked. One of the sensations of the
phow was uncovered in the yearling Neth show was uncovered in the yearling Neth-
ereraig Caruso, which defeated two exceptionally good rivals. "He is the right and was shown in the pink of form. Sen-
and ior and junior calves were well grown, and of sterling character, a fit conclusion to an admirable exhibit of bulls.

THE FEMALES
Bix aged cows, with which the breed'n show was opened, made a memorable im-
pression. Two stood out as the judge's dif. pression. Two Atood out as the judge's dif-
ficult task. All were show eows. Short-
sher ficult task. All were show cows. Short.
straight baoks were unanimous. Boghall
St Anowdrop 2nd is a wedge of guality and a model of character. She is olose to the ground, swings an ample udder with wellplaced teats of standard size, and is a notable performer at the pail. In a elass that ran to white in color she whe consple-
nous by the preponderance of brown in wous by the preponderance of brown in
her coat. Oldhall Ladysmith 4th is of her coat. Oldhall Ladysmith 4th is of
much the same pattern, suffering a trifte much the same pattern, suffering a triffe
on udder comparisons. It is a toss up beon udder comparisons It is a toas up be-
tween the two, though the winner would win under mont judges, Mr. Ballantyne had each class walked around the ring in and this practice, which should be universal in our show yards, gave the ringside an appreciated opportunity to see middles as well as ends. Three year olda were not the average equal of the aged cows, but
they included two outganding entries. Bell Douglas is a tidy type, refined, clean out and fine skinned. Netheroraig Spicy Aot-
rens' udder was the best shaped in the elass. Of the two year olds the first wan the youngest by a year, and ber ninely
formed udder carried her to premier place. White Flora was the plek of the lot so fer

CAMLACHIE SALE OF AYRSHIRES Unfavorable weather reduced the atte
dance at the wale of John Ferguson dance at the unle of John Ferguson, at
Camlachie, Ont. Oct. 29. Mr. Moloy wan Camluchie, Ont., Oet. 29. Mr. Moloy was
auetioneer. The demand was almost en tirely for femnles, of which the 21 head made an average of $\$ 72$ each; six cows at year olds. 878 ; two yearlings, 843; four year olds, 878: two yearlings, 843; four Ayrshire grade heifers brought $\$ 100$.

CANADIAN AYRSHIRES IN $\mathbf{U} . \mathrm{S}$.
Writing in the "Practical Dairyman," Imported from Canada, and now owned has
ind Mr. F. D. Frhardt. Weat B-rlin. Vermon Jean Armour 25487 was dropped October 19, 1901, and was sired by Bobs 13187 out of Sarah 2nd, 13197, all in the Oanadian herd book.
We had heard a great deal ahout thit oow and naturally expected to see a grand one, but were not prepared for such is iruat as met our eyes. Pen will never do
justive to her. She is long and large, es ceodingly deep, a perfect wedge shape, of the strietly dairy type, swinging a simply enormous udder of beantiful shape, set off by great teats and fed by simply wonderful veins. Her neek is loug, her withers as
sharp as a razor, her back lines are per fees, an indeed is her whole conformation Her under lines are superb, and she hand cow, a wonderful cow, built an beautifu perfect dairy lines we have seen for many a day. We were simply lost in admiration of her and it was is most diffienlt thing to get away from her) in fact we went back again to look at her, and the more we looked the more we admired her, She had not come to her full flow but was making
n. re. 3 lbe of millk on 13 lbs . of feed a day,
and was expected to go to 80 or 90 lbs. a and was expected to go to 80 or 90 lbs . day if ail went well.
We were shown two cows, one Dalnibble
Tibble 3 rd, 28447, I mp. by Robert Hunter Son, and Hurehased by Robert Hunter d for 81000 she is Dalabble 4667 out of Dalabble Tiblie ent She won twion against strong opposition Sootland and is by the same sire as the Sondon Dairy show winners of $1906-7.8$. Her granddam, Tlbbie of Sarkehields, wes in vinelble at five shows in 1890 . The other was Royal Lady of Glenora 20166, American was
bred.
They
They are eertainly a beautiful pair, sueh as would be hard to beat. They have magnificent udders, such as only an Ayrshire can have, held well up to the belly,
They are both nearly all white, with some They are both nearly all white, with some red apota. If any criticism could be made of Lady of Glenora, it would be that she is on the small side; but she has so grand
a barrel and is so good in every way that a barrel and is so good
ane can overlook this.

## GOSSIP

SALE AT ORMSBY GRANGE STOCK FARM Five two year old and six yearling im ported Olydesdale fillies were offered at the firat annual sale at Ormsby Grange stoek Farm, Ormstown, Que, on Wednesday, Oct
Eth. These fllies, imported by Dr. Mc Eachran, were of the heavy boned, wid quartered type, bred from large horses These were selected with the object of in creasing the sise and weight of Olydes
dales in the Ormatown distriot of Quebec dales in the Ormatown distriot of Quebee A heavy rain on the preceding day deter
red some from putting in an appearanc red some from putting in an appeara
at the sale. About 200 were present.
at the sale. About 200 were present.
The top figure was seeured for a magnif foent brown flly three years old, this an mal going to Albert Ness of Howiek, Que for 8400 . A two year old by Lord Derwen
fell to W. H. Waller, Huntingdon, for 8325 A. Cunningham, Arysonville, secured aughter of Castleton King for 8300 . Mr daughter of Castleton King for $8500 . \mathrm{Mr}$
Ounningham also necured a Lord Derwent Ounningham also necured a Lord Derwent
fillie for 8325 . Other prices paid were $\$ 280$, n
8350 and 8275 . The sale was not what might have been expected considering the high quality of the offering, and it is to be hop ed that the next annual sale conducted by Dr. MeEachran will be more satisfactory.

## MARETE MART REVIEW AN FORECAST

Toronto，Monday，November 7．－Charge
are agnin brought against the C ． P ． are agnin brought against the $0, P, P, R$.
in connection，with the feeding of cattle in transit．The latest case is that of 155 head of cattle sent out from Winnipeg on the 23 rd ult．，which were said to have been fed at White River 10 to 12 lbs ，of hay each and after that absolutely ne gleeted till they reached their destination． is still under considerterwards．The case is still under consideration，and it will be
interesting to see the outcome of it．
Kelowna interesting to see the outeome of it．
Kelowna，B．C．，has been awarded the first prize of 81,000 at the first Canadian National apple show reoently held，for a carload of Jonathans．Out of a possible to the winners，
Farmers are interested，as well as city
dwallere in the dwellerg in the record of Sheldon，the
Montreal get－rich－quick achemaer．Sheldon＇y Montreal get－rich－quick schezaer，Sheldon＇y
assets，acoording to latest figuring will realize about one $1 / a$ cent on the dollar， and the liabilities are half a million．The moral to be deduced is keeps elear of such allurements and stick to the ordinary well－
trayelled roads of commerce．It is at ans crayelled roads of commerce．It is at any
rate，the safest plan for the farmer，
$\checkmark$ rate，the safest plan for the farmer，
Business is reported brisk in all quar． ters．
Call money in Toronto rules at $51 / 2$ to
per cent．
WHEAT
Wheat prices are still above export level and seem likely to remain so whilst for AII the European grain centres hav been on the dectine and holdere on this diampointed．On the Winnipeg market at last advices，November wheat closed at $899 \mathrm{se}: ~ D e c e m b e r, ~ 88 \% \mathrm{c}$ ，and Junuary at
$93 \% \mathrm{c}$ ． On the local market，dealers quote as follows：No．1，Northern，（new），95e；No． 2,
92e；No．3，A9e，at lake ports，for immed iate shipment．No．2，Ontario winter wheat， 85 c to 84 c a bushet，foob．On tha
farmers＇market，fall wheat is selling at farmers market，fall wheat is selling at
890 to 90 e ，and goose wheat at 83 e to 84 c a bushel．

COARSE GRAINS
The trade in most coarse grains is strong and prioes are firm．Loeal dealers quote as followss Canada western oats，No． 2
$351 / \mathrm{jo}$ ；No． $3,34 \mathrm{c}$ a bushel at lake porte：On－ $35 \%$ ；No．3，34e a bushel at lake ports；On－
tario oats，No，2， 32 e to 33 le outafde； $36^{1 / 2} \mathrm{c}$ tario oats，No，2， 32 e to 33 e outalde； $361 / \mathrm{sc}$ on track，Toronto．Malting barley．No．2，
560 to 57 e, feed barley， 48 e a bushel：Amer－ 560 to 57 c ，feed barley， 48 e a bushel：Amer－
ican corn，No，2，yellow， $57 / \mathrm{ce}$ ：No．3， 57 c ，on track．Toronto：rye， 16 c ；peas， 84 e to 85 e a bushel outside．
On the farmers market oats are selling at 38 e to 39 e ；barley， 58 c to 60 ；rye， 69 c to
700 ；peas， 86 c to 90 c ；buokwheat， 54 c to 55 e a buahel．
Montreal wholesale prices are as follows Canada western oats，No．2， 38 c ；No． $3,36 \%$ ？ to 37 e ；No．2，Quebec white， $361 / 0$ to $361 / 20$ ；
No．3， $35 \%$ a bushel；American yellow No． $3,35 \%$ a bushel；American yellow
corn，No． $3,56 \% / 20$ to 57 e ；weatern barley， corn，No．3， $561 / \mathrm{e}$ to 57 e ；weatern barley，
No， $4,48 \mathrm{c}$ to 481 c ；feed barley， 47 e to $47 \% \mathrm{c}$ No．4， 48 e
a bushel．

POTATOES AND BEANS
There is a firmness in the potato mar－ Ket，which shows no signs of weakening．
The demand is very active and the supplies The demand is very active and the supplies
not overabundant．Wholesalers at preseat not overabundant．Wholesalers at present
qnote 65 c to 70 c a bag out of atore， quote 65 c to 70 c a bag out of store，and 50 c
a bag in car lots．

> during twelve months． ONE 2 YR，STALLION by Champion Right
Forward，Imp．Cne 2 yr，Ally by Barron
Beau．Imp．Yearling stallions and fllies orward，Imp．Cne 2 yr．filly by Barron
Beau，Imp．Yearling atalliong and Allieg
by that greateat of sires，Acme Imp． montly all from imported mares．Three M．Holthy Manchester P．P，and G．T．R．
Station：Myrtle．O．P．R． $\mathbf{L}$ ．D．Phone．
> CLYDESDALE HORSES，SHORTHORN CAT－ remanable．－Smith is Etchardion，breed－ ere and importars，fioharde
> CLYDE HORSES，SHORTHORN CATTLE－
Young stock for sale at all times．－B．F． Young stoek for sale at all times．－8．F．
Redmond．Peterboro，Ont

> RIDGEDALE HOLSTEINS．－For full partio－ ulara in regard to stook and prices，ad－
drese R ．W．Walker，Utica，Ont．
BREEDER＇S DIRECTORY
Uards under this head inserted at the ..... oard acoepted under two lines，nor for less than sir months，or 26 insertions
during twelve months．

## な．


ing at 50 c to 60 c a bag
In beane the
In beans the local market is steady with prices ranging from $\$ 1.90$ to $\$ 1.95$ a bushel hree pound pickers quote potatoes in car market，wholesalers 85 c to 90 e a bag in a jobbing way．Beans pound piekers．Trade in potel for three real is strong． DAIRY PRODUCTS There is plenty of butter coming int the great demand．Wholealer，owing to follows：Choice creamery prints，quote an
act
to
27 c choice separator prints， 23 e to 24 e ：choiec
dairy prints， 27 e dairy prints， 22 c to 23 c ；ordinary quality， choice dairy butter is salling at market Prices are unchanged in cheese and larg cheese are quoted by dealers at 12 e and
twins at 12 c a lb ． twins at 12 y e a Ib．
In Montreal the
In Montreal the butter market is fairl
steady and choice townahip at 23 c ，and scconds at 22 c to 2 ek a lb ． Cheese prices are firm with eastern quoted at 11 ce to $11 / 40$ and westerns at $11 \% / \mathrm{ms}$
The following HIDES
dealers for hiden：No．1，steer and cow hides，10e；No．2，9o；No．3，8e a lb；cals
skins，13e：shecpakins， 45 e to 50 e tall to 61 c a ib．At country points dealers，ary
paying as followas she paying as follows：Sheepskins， 81 to 81.10 ： 83；calfskins， 12 e ；horsehair， 30 e a 82.75
保 HAY AND STRAW
There is not an oversupply of hay and arraw visible yet at the market，and what
there is sells at good prices．Local dealers are quoting No． 1 timothy at 812 to $\$ 12.5 f^{\prime}$ a ton，and No． 2 at $\$ 10.50$ to $\$ 11.50$ a ton on a tol，and No． 2 at $\$ 10.50$ to 811.50 a ton on
track，Toronto：straw， 86.50 to 87.50 a tor on track．Toronto．
os melling farmers＇market，choiee timothy clover mixed hay at $\$ 15$ to $\$ 17$ a coner and in bundles，$\$ 15$ to $\$ 17$ ；and loose etraw．$\$ 6$ In a load．
In Montreal，wholesale dealers give quo 1 timothy， 811 to 811.50 ．No as follows：No elover mixed，$\$ 7.50$ to 88.00 on traek Montre Montreal． Montreal．
hay to Alberta good trade in shipments of hay to Alberta and British Columbia going
forward in Montreal，and gool prige belng realixed for even second guality are EGGS AND POULTRY
There is a steady demand for eggs and
poultry，the supply of the fatter artinl poutiry，the supply of the latter article buing large but prices are firm．Dealers and cold storage lots at 25 c to 300 a dozen， and cold storage eggs at 25 c to 27 c a dozen．
Poultry are selling as foll 10 c to 12 e a lb. ；fowl， 10 c tows：Chickens， 17 e to 22 c ；dueks， 12 e to 13 e a 1 b ；turkeys， weight．one cent to two cents extra dressed On the farmers market，new laid lb． are selling at 35 c to 40 c a dozen：chiokens are selling at 14 c to 16 c ；fowl， 12 c to 14 c ducks， 17 e to 18 c ；geese， 14 e to 15 e ，and tur－ Montreal prices for egga are as follow
Mon

## HOLSTEINS

## Homestead Holstein Herd

Headed by the great young sire Dutch
 days, Ha is the result of orossing Tidy
Pantine De Kol, 28.44 , (the best member of this famous family), with the great dam of Oolantha sth's Johanna, 35.28 lbs, butter
in 7 days. Individually as great as his
breeding. Bull calves offered from one to breeding. Bull calves offered from one to
monthe old, from dams up to $255 / 4 \mathrm{lbs}$. butter in 7 days.

EDHUND LAIDLAW \& BONB

## HOLSTEINS

R
sTEINS, any age, either gex, GORDON Manhard,
Manhard, Ont
Do yon want a firat clase Oow or Heifer bred to a fret olase bullt Franey Srd'a Admiral Ormeby heads our herd. Dana, Franay Jrd, Oanadian Ohampion Butter Oow. Bire, Bir Admiral Ormaby, sire of the world't champlon \& year old helfer

## LaKEVIEW HOLSTEIMS

Beveral bull calves sired by "Oount Ren-
gerveld Fayne de Kol," and one ready for gerveld Fayne de Kol, and one ready for
gervice, aired by Brightest Oanary. These oalvee are out of A. B. O. cows and are big and strong.
and see them and
E-TV

## RIVERSIDE HOLSTEIINS

Eizht bulls, 6 to 9 months old, sired by
Sir Pietertje Posch DeBoer and Prince Di Kir Posch; latter is the only son of cham-
plon cow in dairy test Guetph, 1908 and plon cow in dairy tost Guelph,
1909, and from R, of M. dams. J. W. RICHARDSON Haldimand

## LYMDALE MOLSTEIMS

We are now offeriap tor sale a is noos
old son of "Ooni L Kol Pretertji Pan! out of a 20 lb . dam; also a yon of liara
Hengerteld Kerndyle, from an 18 lb . eow Both oholes individualn, it for ser
2.211 BROWN BROs, LYN, ONT.
EVERGREENS HOLSTEIN HERD

R

 on over itaom itave mik in one
day aibo cows in oalt to this
 thie has never been beaten it aranage
There are others in our herr from which $\stackrel{\text { wo aro exp }}{\text { Pricen }}$

GEO. W. ANDERSON, Rosmmore

## "LES CMENAUX FARMS"

 ค,
They combine Oonformation and Produe
tion.
Bull and Helfer Oalves from onr winners
Bull and Heifer Oalves from our winners
for sals.
DR. HARWOOD, Prop, D, BODEN, Mgr

## RIVERVIEW HERD

Ofters Bull Calf born February 14th, 1910. Sire Sir Aaggie Beete Begis. Six dame in pedigree average 25.60 lbe . in seven days.
p. d. balley

6-10.10
Lachine Raplds, Que.
HOLSTEIN CATTLE The wost phomitasis oainy sners
IInstruted Descriptive Booklets Free HOLSTIIN-FRIESIAN ASS'N OF AMERICA *. is moye
HOLSTEINS FOR SALE All ages, at half their value; the produc-
ing kind. JAS, MOTHERAL, Box 99, DRUMBO, ONT.


## AYRSHIRES

## CHOICE AYRSHIRES

Are Bred at "OHERRY BANK"
few young bull calves for sale. Write
P. D. McARTHUR, North Georgetown,

Howick Station on G. T. By. Que.
$\substack{15-9.11}$

## "La Bols do la Roohes" Stook Farm


 DOTTES and BARERD
HON. L J. FORGET, J.A. BiBeaU, E-6-7.11 Ste. Anne de Bellevae, Que.

## AYRSHIRES

Ayrahires of the rikht stamp for pro,
 R. M. HowDEN, Bt. Louis Btation, Que

## BURNSIDE AYRBMIRES

Are Well Known.

They are from the beat imported and home bred stook. They are true to type They have good show yard recoeds, as well
as large records of milk and butter fat,
Stock for sale. Write or come to BurnStock for sale. Write or come to Burn
side Farm. R. R. NE88, Proprietor,

 JAMES BEOQ, R.R. No. $1,8 t$, Thomas, on
A SPRIMGHILL AYRSHIRES


ONLY BULLS AYRSHIRES
Ock Royal Monarch (Imp.) 24424 -(62931)
Also one $21 / 2$ yrs. old. sired by Monkland
Aaising Star (Tmp.) 25046 ( 620 ) now Raising Star (Imp.) $25046-6720$ ), now owned
(Is.

DAVID A. ASHWORTH Maple Grove, Ont.

## MISCELLANEOUS

TAMWORTH AND BERKSHIRE SWINE,Boars and sows for asle. J. W. Tod
Oorinth, Ont., Maple Lesf Btook Farm.

TAMWORTHS AND SHORT HORNS FOR SALE

 and two year old shorthorn heifers. First
class family. Ficellent milking strain. Prices right.

MAPLE VILLA STOCK FARM We are now offering three bull ealves
from extra tood eow, sired by sir Beets
De Kol Posch. Will sell them eheap.ter De Kol Posch. Will sell them cheap, if
sold at onee, before going into winter guarters. ous Hampshire pigs.
E. C. alleert, Payno's mitis, Ont Near 8t. Thomas. Phone conenction at Iona
FERHDALE'S CLYDESDALES AND HOLSTEIMS We are now offering for sale a number of
bulls from 4 to 9 months old, sired by
Korndyke King Sohilliard, whose ten near Korndyke King sohilliard, whose ten near
est dama made 25 lbs . and over, of butter in 7 days.A Also 40 eighteen months old
grade heifers, all bred to a pure bred grade heifers, all bred to a pure bred
bull. This lot is of good sise and in flrst
class condition on giving potiee visitor class condition. On giving notice visi FIERHELLER BROs., Mount EIgin, Ont
HAMPSHIRE PIGS READY TO SHIP At $\$ 12.00$ each. These are prize winner月
with pedigrecs. NELSON FOX Harrow, Ont.

London, Nov. 6.-8ix factorien offered 883 cases of colored cheese; 635 sold at $111-15 \mathrm{c}$, Canton, N.Y., Nov. 5. -1600 tube of butter at $31 \mathrm{c}: 1900$ boxe4 of cheese; no price. St. Hyacinthe, Que. Nov, 5,- 350 pack
ages of butter, $24,4 \mathrm{e}$. 150 boxes of eheese a ages of butter, $241 / \mathrm{e}: 150$
$10^{\prime}, \mathrm{c}$; tub butter, 24 ?, c .

## GOSSIP

WINTER FAIR ENTRIES.-Exhibitor at the nexs Winter Fair are reminded that en tries should be made with the secretary,
A. P. Westervelt, Toronto, as early as possible. The following are the latest dates on which entries can be received for the different depurtments without the paymen
of penalty fees: Beeds, Nov. 12th: Live Stock, Nov. 19th; Live Poultry, Nov. 21st, Dressed Poultry, Nov. 24th.
POULTRY AT THE WINTER FAIR.-Over 4700 exhibits competed for prizes in the poultry depar:ment at the Winter Fair last
December, and on these $\$ 3500$ were paid in December, and on these $\$ 3800$ were paid in
cash prises besides special awards of silver cups, medals, goods. For the coming Fair a number of new classes have been added. A special prize list for poultry will be ready for distribution about Nov 10 th . This list contains 8500 in cash, 50
silver cups, also medals and goods. Yalue silver cups, also medals and coods. Value
is about $\$ 1500$. Poultry exhibits will thus is about 81500 . Poultry exhibits will thus
compete for prizes worth nearly 85000 . Poulcompete for prizes worth neariy soake thefr
try exhibitors are requented to make entries with the Secretary before Monday,

SALE OF SPRING VALLEY HOLSTEINS The diapersion sale of the Spring Valley Herd of Holsteins was very successful and prices realized compare favorably with
those realized at the other sales this fall. The highest figure was given for Jeanie Mutinal Butter Girl, 8390, to A. Abardy Mr. Hardy also secured Gretchen Abbekirh
De Kol for 8255 . Other animals sold were as follows:
Jennie Beryl Wayne, to Brown Bros.


## W ANTED

Pure Bred Poland China Sow from to eight weeks old, with pedigree. Address, Circulation Manager
RM AND DAIRY, PETERBORO

## COINS AND STAMPS



 might handle some every das
and not know it.
Send for free booklet. 0
ROYAL MONEY \& STAMP CO.
SO NASSAU STAEET, NEW YORK CITY
BERKSHIRES WANTED

Farm and Dairy
would like to purchase three or four pure bred, young Berkshire Sows, from 6 to 8 weeks old.

## WRITE

CIRCULATION MANAGER
giving prices and ages of pigs

8250: Rose Butter Girl, to Proctor Grifin, 8180: Minale Evergreen, to Q . II. Manhard,
\$10au May, to Leslie Warren, 8110 ; Grace Gerben, to Booth Bros., 8155 ; Freda Evergreen, to G. E. Sherwood, 885 ; Nannie Evergreen (yearling), to Booth Bros., 8150; Sally Marling 2nd, (ealf), to S. Webster, 870 ; Jennie Mutual Veeman, to A. O. Hardy, 880; Netherland King's Lass 2nd, to Proctor Giffin, 8120; Sir Korndyke Veeman, (1 yr.), to J. D. Truesdell, 875 ; Nanuet Mutual, yr.) to C . Worden, s60: Paul Beryl Wayne, to George Boyd, 845; Prince Nanuet Butter Boy, to R. Sturgeon, 836; Rideau Nanuet,

## Over and Over ${ }^{7}$ Again

There is nothing that counts in the business world so much as systematic repetition. Telling the same thing over and over again, is a way of fixing
that fact in the minds of read ers. If a man has the best herd of Holstein cows in his vicinity, if he has Jerseys of a strain that is known through out Canada, if his Shorthorn carry the richest blood of the an ancestry that takes them back to the patrician herds that roamed over the hills of Scotland, whence come the greatest
families of that breed-if any one of these things is true it is of supreme importance that the man who can lay claim to it should constantly reiterate that
fact so that the reader will ultimately associate his name with that particular statement. It has been truly said that the mind of the average reader is changeable. As a people we are inclined to worship the spectacular and the last statement that we hear always re-
places in the mind the things places in the mind the things Hence it is of such paramount importance for breeders of live stock to use space regularly in the columns of a farm paper
like Farm and Dairy. Thus it is that the keen, far-sighted is that the keen, far-sighted
breeders use these columns regularly.
Breeders of pure-bred dairy cattle who are out to make a
success and to attain satisfac tory results owe it to them selves to use the live stock advertizing columns of Farm and Dairy, and to use them. of the
iy. Ninety-five per cent. of readers of Farm and Dairy are directly interested in dairying. That is why breeders of dairy stock particularly are reaping such satisfactory returns.
o. A. Bushfield, 837 ; Nanuet Gerben, to W
J. Scott, $\$ 55$. The four Dorset sheep brought \$85.75. Five Tamworths sold for 887.50 . The aue-
tioneer was Mr. G. N. Young of Brocktioneer was Mr.
ville.

## SUBJECTS FOR DEBATE

An indefinite variety of subjects which have come up for debate before the Min-
nesota Farmers' Clubs, is indicated by the following, taken at random from some recent monthly reports sent to the Extension Divislon. They may prove of service in the way of suggestion to our Farmers' Clnb dobaters, and hence are reproduced for their benefit:
Killing Quack Grass; Dairying: Oo-operative Breeding; Oonsolidation of Rural Schools; Farm Buildings; Shipping Produce: Would it be beneficial for the Farners to Organize?; Preparation of Boil; Potato Culture: Cheese Making: Destruction of Weeds, Crop Rotation; Good Roads:
The House Fly. Co-operation in BuyThe House Fiy; Co-operation in Spliing: Surface Oultivation; silos; The 8plit-
Log Drag: Olubs; Co-operative StoreLog Drag: Olubs; Oo-operative storehouses; Local Corn Drowisg: Oounty Developments; Gardening: Good and Bad Seeds; Cooperative Marketing: Poultry; Flax Oulture; Improving Home Surroundings: The Oooperative Market Association and the Shipping of Exge.

November 10, 1910
FARM AND DAIRY

## HOLSTEIN-FRIESLAN NEWS

 , wayduatakyA. C. Hardy of Brockville, Ont., in a rehe has just bought from Stevens Bron he has just bought from Stevens Bros., a Wentiacs, out of Pontiae Artis ling of the which he states can hardly be equalled by any bull in Canada.
MR. HIGGINSON'S DISPERSION SALE The 90 head of Holsteins offered at Wm . rage of $\$ 138.41$ per head. The herd bull prage of 8158.41 per head. The herd bull,
sir Pontiac Olothilde Korndyke,
8190 orought the top flgure, being sold to John Hutton, Oardinal, Ont., for 8850 . The high
est priced cow, Netherland Oueen Jane est priced cow. Netherland Queen Jane,
sold for $\$ 300$ to W. P. Allison of Chester nold for $\$ 300$ to W, P. Allison of Chester
vitle. Ten cown sold for $\$ 195$ and over; 31
cows sold for $\$ 150$ and over. Only four of cows sold for $\$ 150$ and over. Only four of
the animals offered sold for less than 850 The
highest prices realized for females were as follows: Netherland Queen Jane,
s300. to W. P. Allison, Chesterville; Althe 8300, to W. P. Allison, Chesterville; Althe
Posch. 8275 to G. Grey, Ventnor; Oxford Posch. 8275 to $\mathbf{G}$. Grey, Ventnor: Oxford
Jewel De Kol Agrie, 225 , to W, F. Bell.
Britannia. Ont Quenie Britannia, Ont.; Queenie L., 8220 , to Gor
don H. Manhard, Manhard, Ont.; Netherland Min. 8250, to M. E. Woodworth, At kint Depot. N. H.: Mabel Bell 2nd, s200, to 8195, James Scott, Winchester, Georgina E 8195, James Scott, Winchester; Georgina E.,
$\$ 195$, Gordon H. Manhard, Manhard. All of the females realized good prices, the average being about 8150 .
Five of the 21 males offered realized 8100 or over, the highest price being paid for
the herd bull. Sir Frederick De Kol sold for $\$ 100$ to J. G. Gates, Merrickville; Bir Abbekerk Pontiac Korndyke, $\$ 130$, to B
Itothwell, Ottawa: Inka Korndy Itothwell, Ottawa; Inka Korndyke Abbe kerk, 8160 , J. O. Rutherford, Kemptville;
Vrouka Pontiac Korndyke, 8125 , to George Vrouka Pontiac Kornd
Couch, Smith's Falls.
Couch, Smith's Falls.
Other buyers in addition to those mentioned were: George Herbst, Alsfeldt: W H. Allison, Dunbar; H. S. Kinloek, Martin-
town: R. J. Maley, Oxford Mills: R. Gil gour, Morristown, N. Y.; J. H. Taylor, Scot land; 8. G. Carlisie, Chesterville; F. B.
Wittae, Athens; John Willoughby, Smith's
Falls: 8. Hollingsworth. Athens; J. Falla; 8. Hollingsworth, Athens; J. ${ }^{\text {A. }}$
Nase, Nerepis, N. B.; J. H. Tweed, Rus Nase, Nerepis, N. B.; J. H. Tweed, Rus
sel; Malcolm McCrae, Lochiel; Chas. Gra ham, Inkerman; A. Kennedy, Winchester, 8. H. Harris, Oxford Mills; Wilbur McElroy,
Ohesterville; Mrs. W. E. Hopkins, Ottawa, Ohesterville; Mrs. W. E. Hopkins, Ottawa,
Wm. Durant, Chesterville: Arthur Gra Wm. Durant, Chestervile; Arthur Gra bell, Vernon: Wesley Johnston, Chester
ville; J. J. Black, Winchester; W. R. Dowville; J. J. Black, Wineheater; W, R. Dow-
ler, Ottawa: R. A. Heron, Biling' Bridge, ler, Ottawa: R, A, Heron, Billing s Bridge,
W. Burnie, Ventaor; Ed. Payne, Brinston,
Wm. Meldrum, Fineh: J, R. Carscadden. Wm. Meldrum, Finch; J, R. Carscadden,
Hussell: Robt, Johnston, Inkerman; Allan
Tousant, Hulbert; W. A. Beokstead, Beek stead.

## THE WARD SALE OF HOLSTEINS

 The auction sale of property of the late success. Attendance was large, includ success, Attendance was large, Bing was rapld. Atretioncer Welby Almas of Brant holding the attention of the large erowd splendid prices were realized. The intereat of the buyers was centred principally on the Holatefn-Yrienian cattle, which were itexcellent condition. The following is a list excellent condition. T
of the animals sold:
of the animals sold: Abbekerk Lanes, 1 yr 4 mon., 8250 ; Maggie Morcena Abbekerk, 1 yr. 6 mos., 8240 : Hagersville Bessie Queen, ${ }^{3}$ yrs. 9 mos., 8200 ;
Bessie's Queen, 7 yrs, 5 mos., $\$ 195$; Roxie Bessie's Queen, 7 y ys. 5 mos., 8195 ; Roxie
eMercena Abbekerk, if mos., 8170; Lady Mercena Abbekerk, 11 mos., 8170 ; Lady
Mildred Posch, 1 yr. 5 mos, $\$ 155$. Maggie To O. E. Smith, Scotland, Ont., Maggie
Clark, 3 yrs, 7 mos., 8215 ; Maggie Faforit, Clark,
7 mos., 8165 y
mis.
mos., 8166 . Smith and Dyment, Dundas, 8 , 8 ., Elleen
Srd of Avondale, 9 yrs., $8200 ;$ Gray,
Springvale, Ont. Roxie Posch, 3 yrs, 3 mos, Springvale, Ont., Roxie Posch, 3 yrs. 3 mos,
8200 : W. Ohessor, Eglinton, Ont., Vie$\$$ Woria Posch De Kol, 2 yrs. 3 mos., $\$ 200 ;$ W.
H. Oherry, Garnet, Ont., Eileen Eunice Fa. H. Oherry, Garnet, 0
forit, 18 days, 895 .

To W. Howarth, Hartford, Ont., Wiesenthal's Pride, 8 yrs., 885; W. E. Hambly,
Hockford, Ont., Queen Faforit, 4 mos., 870 ; Rockford, Ont., Queen Faforit, 4 mos., 870 ;
J. W. Richardson, Oaledonia, Ont. Adelene Yildred Faforit, 7 mos., 850 ; W. J. Bailey,
Nober, Ont., Gano's Faforit Butter Boy, 3
yrs., $8130 ;$ W. Chessor, Eglinto
three grades, 8105,8100 and $\$ 97$.
HOLSTEIN-FRIESIANS AT CHICAGO Holstein-Fricsians lending a support the sonant with their, numerical strength. This black and white Holland breed is repr having a classification fuir or exhibition a foremost posifition in commercial dairy ing in many regions, and making substan some notably high clases whow, it has made at the chief state fairs and its this season uniformly creditable exhibition at the aft National Dairy show, held in the Coliseum
was in many Was in many reapecte a fit conclusion to its impresaive public appearanoes. Backed by
practical men, who seem to be more inter practical men, who seem to be more inter
ested in the progress of the bred inner popularizing etriking individualities, which there are many in ito eurrent stendy dalrying is in public favor wherever gained their fult share of adention. They practical utility at the National Dairy any means, but it was not their beat ry some of the other breeds. Geograph'cs ly it was suggestive of the wide distrion ifo of the breed, entries coming from New
York, Indiana, Illinols, Wisconsin, Ohio Iowa, Minnesota and Colorado. Ahio, Mitchell, Weedsport. N fashion by 1 d. of the nine aged bulls, Sir Beeta Corn" ed and consistent, whowyard record't asalsn tain, was perhaps the nearest approach to the type which is now in high favor. He is pleasing back, plenty of substanre and Lass has less fer the hand. Sir Oysuctia than in his name. Indeed he was make up Hlustration of breed character as the ring contained a low set, smooth shouldered, straight baeked bull with an speoruly hird, and next to him a coarser sort with a rood top.

## THE FEMALES

It is customary for the females
class the butts at ahows of the dairy rule lere. From the no exception to the the junior heifer calves the cardinal mer its of the breed were exhibited in splendid average strength. Eleven entries in th
ased cow clasu were primed down to six aiged cow class were primed down to judge, and Jewel Duchess, with a th abdomen, a 73 inch udder, square and of the texture, and milk veins of marked prom Nence, readily usaumed premier posi cow with a fair udder, the third prize entr incliuing to the smaller and more refined type. A class of eight three year olds conEmpress Josephine its merit Thepely head typical udder with wide placed, good sized teats, and roomy barrel won instant ree ognition. A spacious udder, with plenty
of room to occupy, distinguiahed Conts Colantha Johanna. Quality was written clearly in her countenance and in other parts as well. Eleven two year olds were shown. When the short leet had been ef feoted, the class was highly creditable. type which pleases the breeder's eye is
Lady Korndyle De Kol Ormsby. Her soft. easy fiandling skin, covered with a decided easy fandling skin, covered with a decided
preponderance of black hair, envelops a form that spells efficiency at the pail. Ed at Fair Johanna is strong of spine, sized udder. Fiffeen and swinge a fair quite a variety of sizes and types, but the jadge hewed to a perfectly visible life in making his selections. He sought dairy indications first, insisted on fine, soft, mellow skins and took due account of consti
tution. North Star Sadie is straight alone the top, is full of promise in her dairy fis ures and is sweet of conntenance. Twen ty-two senior and about as many junior
heifer calven were notably strong classes, sach featured by an admirable selection of inners.-Breeders' (iazette.

SUMMER FEED FOR HOLSTEINS The unusual drought prevalent this sum dairy husbandry forms an important part of the farm economy, and affecting the mills production of many Holstein-Friesian herds, and consequently the results of of ficial and semi-official tests, as reported from time to time, sharply brings to my notice the difference in produation between those herds whose owners were prepared, and those whose owners were not
prepared for such a contingency. Owing
to the physical conformation of the North
American continent, there will always be
more or less drought in the summer sea-
son: and the incrasing lands and interest on the investment acm centuate the nevessity of insuring against
loss from their effects as far as it may be losa from their
vossible to do
With la
With lands pay interest ow in value, a light crop will when they are of high value, the largest posaible erop must be secured. Even un dive favorable conditions pastures will not ands will the feed value that the same ourse, the matter as meadow, though, of but when undue der of labor is eliminated he pastures ane dependence is placed upon Ittle short of disastrous, the results are admitted that for health's sake cattle need the freedom of the pasture, also, there is o feed in May and June can quite take expericnce, fresh green grass. In my own xpericnoe, those breedera and dairymen flejent paturage for who provide only suf the average or aviling crops to puppleming either silage when they begin to fail. hen they begin to fail.
and when well on towards moiling erop. ains a maximum of digestible purtient But as a soiling crop it is needed berore is mature, as a rule containing but little while better than nothing the weight; and feeds it in an immature condition deprive himself of what would become a valnable feed, and falls far short of aupplying the needs of his cattle. I speak from experi
ence, having tried sciting crops of all kind ence, having tried sciting crops of all kindbefore it was known that eorn silage could
be fed as well in summer as in winter. Corn Allage fed from nearly mature corn goes far towards aciving the drought problem and wise brecders plan to have sufficient left over to last through an ordinary drought.
Even
Even silage from mature corn le, how elover or alfalfa properly balanced food, ano should be fed with it. Alfalfa is better than clover to mix with corn sflag and
with it it is possible to omit the bran with it it is possible to omit the
Aifalfa is a wonderful plant, and some of the varieties will grow almost
where in the United States: while nearly drought proof. Every Holet Friesian brcuder who has not done can make one try it in a small way; if he larger field. Corn is our drought-resisting rop: and if the moisture in the ground bine dirt muleh, it is surprising how little rain is required to make a good crop. In times of drought and when the corn has grown too tall for the two-horse cultiva ter, a fine tooth single walking onltivato Will go far towards irrigating the fields.-
Malcolm J. Gardener, Supt. of Advanced Malcolm
Registry.

## GOSSIP

J. F. Parsons a Eon, Barnston, Que., gently shipped 52 head of Ayrubires Brandon, Vermont. These cattle were of all ages. They went to Chase $d$ Beeman
Forest Park Farm, Brandon. This targest shipment of purebred Ayrahires, largest shipment of purebred Ayrahires,
or in fact of any breed, ever made from Quebec into the United 8totes.

At the last Canadian National Exhibition Toronto), the Aspinwall Mfg. Co., of Jack son, Mieh., who have a Oanadian branch awarded a bronze medal the second time This firm manufactures potato machinery world wive and their machines possess a

IMPROVING QUALITY OF BUTTER
if there the article of food more th another that people Hke to have good, it is butter and many of the oentralizing
ereamery plants have now sionted the practice of grading the crew adopted the practice of grading the cream they receive
from the farmers and paying for it ac from the farmers and paying for it ac
cording to quality in order to improye the quality of the output. The results have proved most satisfactory. Many farmers who were shipping poor cream are now furnishing only the highest srnde; the manufacturers in consequence are turning out better butter, and thus are able to pay the farmers better prices.
The principle is the same whether the farmer sells his oream or makes his butter himself and sends that to market. To get the best price his product must be of the best quality, and it is impoasible to get
good butter from poor cream. But manv farmers do not realize the extent to which
the quality of their cream depends on their separators. To do thorough skimming
the hand separator should tention than it usuatly should have more at tention than it usually receives. It cannot
skim elear unless rat tion and at its rated with a steady mr hon and at its rated speed. To do its and hence must be perfectly level balanee. all, because everything else level. Above this, it must be kept well labricated with oil of absolutely first class quality. The difference betwell the right and wrong oil in a separator means in the end the difference between rood and poor but ter, and, realising that thousands of dol. hars are involved for thousands of farmers Oil Company the country, the Imper. has devoted apany, Limited, of Montreal, the productionecial care and attention to the special needs of oil exactly adapted to ofl inevitably cloge separators, A heavy bearings, with the result sums the fine and cut, and the machine loses wear ance and proper mpeed Stases its bal. Separator Oil, an the Imperial Oil Hand pany's special product is called, feeds possesses sulficient body to afford perfect lubrication. Experts are recommending its use for hand meparators of every make.

used Kendali's Spavin Cure with goen suceens, on my horse. Ifonad that it cures quickly and well', Yours truly, ROY FARPER.
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Br, B. J. Kendall Co.

- Enosbarg Falls, VL.

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tario, beautifully situated in a bend of the River Nith. Blenhelm Townahip. Oxford Co., in a high state of cultivation, up-to of all kinds of fruis; four milles from the busy town of Paris; ane mille from the ning P.O. A fine chance for an old ooun ery farmer to invest in a Canadian home, as I will sell stook and Implements with Phrm. Apply to E, E. Martin, Canning
P.O., Oxford Oo., Ontario.


BE READY for fire, by all means. Provide every possible means for putting it out. Equip your house, your barn, all your buildings, with water-buckets, chemical extinguishers - hose and water pressure if possible. But pay even more attention to fire-prevention! Build, or remodel the buildings you have, in such a way that fire will have the least chance to harm them. Lessen your fire riskespecially if you live in a frame house.

## The Average Frame House Is A Fire-Trap

Fire did $\$ 56,096$ damage in Canada every day of $1909!$ More than sixty per cent. of that great loss was on frame buildings ! Naturally, For, even in the cities, with their up-to-date fire-fighting outfits, firemen count the ordinary frame house a 'goner' once the flames get a real start. The frame-house on fire is tinder-box-its inmates are lucky to escape with their
lives-even in the cities. How are you fixed today lives even in the clties. How are you fixed today
to flght flre in your dwelling?-in your barn?-in to flght flre in your dwelling? in your barn? - in
your wagon-shed? If fire started in your kitchen late your wagon-shed? If fire started in your kitchen late
tonight, would you and your folks get out alive?

If your barn caught, would your stock be saved ? And, even if you were lucky and only the buildings suffered, would insurance repay you for your frame house; or if you have anything valuable in a frame barn. Yet you can do much to prevent fire And you can, easily and cheaply, practically isolato every room in your house so perfectly that-if firo does start in any room-the fire can be confined to that room alone. Pedlarizing will do that, and more.

## Pedlarizing Reduces Fire Risk Fully 80 Per Cent.

> "Pedlarizing" is sheathing any building, inside and out, with Fireproof sheet Steel-in the severzl forms illustrated by the pictures here. For the roof, Oshawa cears or a new roof free. For the onter walls, Pedlar Steel Siding-surfaced to imitate brick. cut stone, dressed stone, etc. For the ceilings and sidewalls of the interior, Pedlar Art Steel-more than 2,000 beautifully embossed patterns. A balloon frame of cheap lumber, with the necesrary trim, flooring, and some
furring, and these Fellarizing materials, make a stauncher, handsomer house than any frame building ever Was; and make the building elghty per cent. less liable to fire damage than the usual type of proof. There is nothing ahout it is practically firefroof. Thishings, floors and doors, Yet such a buidding is most economical in first cost-and cheaper than even a brick building in final cost, beceuse it will outlast one.

## Fire-Prevention By Pedlarizing Costs But Little

Whether you are erecting a new house or harn, or you think of repairing an old one, you will do well to inquire well into this Pedlarizing proposition. Consut with us first, and then with your builder or architect. Hold no prejudice against sheet steel for interior finsh because it is comparatively new ; don't
think there is anything cheap-looking about Pedlar Siding for outer walls: don't imagine wood-shingles are cheaper thin Oshawa Steet Shingles. Iathingles you the reasons for your choosing this practical, most economical and most effective way to prevent fire and to minimize fire-damage to the lowest degree. Let us
make it plain to you that many of the so-called "fireproof" buildings in the big cities are not 80 wellguarded against fire as a frame-skeleton plated with Pedlar steel in the way we have outlined here. Any in the rateas between a inform you on the difference In the rate as between a frame house and a Pedlarized
house. You will then see that this one item alene anves a good slice of the cost of Pedlarizing alene saves a good slice of the cost of Pedlarizing. Ye actuatly cheaper by twenty per cent, than an above is frame building! Nor does it require experts to erect it. Connult us for full details. Write us to-day.

## Pedlarizing Does Much MORE Than Fire-Proof

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tight. In fuel saved alone you regain your outlay.

Shields And, in summer's blazing sun, you from the will find the interior of a Pedlarfacd heat in your neighborhood. Roof, walls he entry and ceilings of heavy sheet steel har in winter: dry at all seasons - this is what Pedlarizing does for houses, barns, any building. Makes And it does more. For Pedlar Art houses fully embossed in deep, richly-ornasanitary mental patterns, can be decorated in these ceilings and walls, without a crevice or a set to harbor dirt dust worms or sermin a seam washed as you would wash or vermin, can be there has been disease in a Pedlarized gooms if whole interior can be scrubbed with antiseptics the made really sanitary. Any room in a Pedlarized house can be kept clean with the least effort. Pedlarizing makes buiddings healthful-as well as fireproof. damp-proof, warmer in winter, cooler in summer.

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