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vol. XLIX
LONDON, ONTARIO, APRIL 23, 1914.

## EDITORIAL

Clean up the lawn and the beck yard. In the spring rush do not forget the farm garden.

Plant a few trees for windbreaks and shade. Now is the time.

Put up the gaps which have been down over winter, and close the gates.

Feed a little extra on grain just now if you would keep the stock up in flesh.
kiep the cultivator down in the ground. It doesn't profit to "skim"" over the land.
Hard frosts up to the middle of April caused people to say, "late spring," but many were not peven ready then $\qquad$
If you give the weeds a start they are longwinded enough to keep ahead of you, and will beat you at the finish of the race.
Do not slight the last field to be sown. It needs even better treatment than the
sown land to keep up a maximum yield.

If you happen upon any new methods of cultivation which give good results, give others the henefit of your experience through. 'The Farmer's

Too many people are more anxious to sport a motor car than own a home, and like the looks of a dress suit better than a savings-bank ac-
Cultivate the strip of mangel ground early, and let it remain a week or so before final pre-
paration for sowing. It will save time with the hoe later on.
It was a poor year for sap in many localities,
and when the new bills, now before parliament, and when the new bills, now before parliament, maple and dairy products in Canada.
If you are using wide implements put on plenty of horse power. It is unfair to the
horsts to expect two to do the work of three or horss to expect two to do the work of three or
threed, to draw the four-horse cultivator. Sore shomblers and poor horses usually result.

The silo by its worth has grown in numbers rapidly. Thirteen states in the American Union
have 130,000 silos between them, and Wiscons: alone has over 41,535 . If you are a iive-stock breeder or feeder you can scarcely afford to he thont this valuable asse
lit the program for better roads in Ontario is this committee of investigation our thoroughfares shoull be greatly improved. I, iet us hope there is action on this report, and that it is not

## Lessons from Mexico.

The frightful condition of affairs continuing over three years in Mexico, exterminating the people by thousands, destroying wealth in all
forms and disturbing the world, has been the proforms and, disturbing the world, has been the pro-
duct of the thirty-five years military despotism of President (General) Porfirio Diaz despotism of set he inaugurated many successful plans for the speedy economic development of the country, such as building public roads, establishing railways, selling franchises and granting concessions for the development of natural resources. But the Diaz government, distrusted, neglected and deliberately opposed public education for the masses. One of the state governors who instituted measures for the advancement of sound, popular education "died mysteriously," and another found it desirable to "retire." A remarkable article on the eatises of lhe bice hise educational work there officially and otherwise oppears in the March issue of the Methodist Reappears in the Now odical edited by Dr. Gross Alexander. The writer makes it clear that the publication of educational reports was presented and nothing done for the improvement and enlightenment of the people. What practically amounted to slavery and child labor were encouraged. Labor unionism was dealt with by the soldiers shooting strike leaders publicly on the city squares
Mexico was rich in public land, but this was given away in blocks of millions of acres to army and personal friends of General Diaz, and Mr. Osuna asserts that more than fourteen out of the fifteen million people in Mexico do not own a square inch or land, and threc whole of it belongs lo little or hothing was de ana the virtually held a mortgace on the landlords who groceries and other supplies at prices fixed by the landiords two or three times higher than those current in trade. Tenants usually died hundreds of dollars in debt to the landlords, and the children inherited the burdens that kept them in turn held down. Money-lending sharks had the free run of the country.
The people are also oppressed by the capitalists, especially Mexicans and Spaniards, through monopolies granted by General Diaz. One Englishman owns half the oil weriln Merc, worth millions which cost him a trifing sum. He has the contracts to supply fuel ways, pays no tave coll 47 cents per gallon for people are clarged abolies, permitted for the coach of the rich, are said to as had. The people had no say in granting these concessions, and the despot who dispensed them was soon surrounded by a solid ring of the grafters. In comparison with Mexico, Mr. Osuna says, people of the United States do not know what trusts mean.
The press of the country was controlled by General Diaz absolutely for the benefit of his government; one paper in the city of Mexico being cited as receiving as much as $\$ 100,000$ a year. No articles or news were permitted to be pubthe Diaz government. The army, too, was utterly corrupt, and run for graft. The banks representing $\$ 700,000,000$ capital are said to have heen exempt from all taxation, as were
ceeded in becoming president he stopped the press hush money, and began to institute reforms and make the capitalist class contribute their share of taxes to the country, the press, army, big against and other powerful influences united way" in order he was soon "put out of the under General that a new military dictatorship the old order of corruption restored. Assuming the correctness of these statements, President Wilson, of the United States, was evidently well advised in refusing to recognize the Huerta govgo out to a legacy of internecine strife and despotic corruption to grope their way to some form, let us hope, of peaceful and enlightened democracy concurrent with the inauguration of the great Panama waterway of trade so near their own doors.

## Good Roads Must Come.

Rural and urban Ontario waited almost impatiently for the report of the Commission which was detailed to investigate road conditions in this country as well as in many states in the Union with a view to working out a plan whereby Ontario highways might be greatly improved thus facilitating travel, and especially that part of it which deals with the marketing of farm
produce. As stated in an article in last week' produce. As stated in an article in last week' brief were brought before the Ontari recently. It looks like a big undertaking to plan the expenditure of $\$ 30,000,000$ on the roads of this Province, but when this is spread over a period of fifteen years, and when we consider that Ontario has a total of 54,000 miles of roads of which only 2,748 miles are improved stone roads, and 18,150 miles improved gravel roads, it would seem that $\$ 30,000,000$ was none too much. This oniy means $\$ 2,000,000$ annually, and when it is considered that a large portion of this must be applied to maintenance the amount does not seem an exhbrbitant sum. One commendable feature in the report was that it for every mile for every mile of permanent road work done, the
funds for this to be obtained from current revenues. In the past too little attention has been given to the maintenance end of the work, people seeming to think that all that was necessary was to build the road, and then leave it to he gradually destroyed by the various agencies of weather and traffic, while they grumbled because it did not longer resist these agencies.
It was also good advice on the part of the Commission to commit the actual control and managenent of roads, so far as possible to local sodies, hut in the working out of the plan it is men men to see that the roads are properly built and some difficulty mar and and working out a permanent system.

Allotment of the necessary expenditure seems to be quite fair. The Province is to duplicate the $\$ 12,000,000$ which the counties will be called rion to put up during the fifteen years in which the plan is being worked out, and the cities must do their share, being $\$ 8,000,000$. Special attention is cownship roads, and this is one of he believe in spending all the money on one two roads in a section, and leaving all 8 ther roads in such

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a condition that at certain seasons of
they are in an almost impassable state
Automobile owners are to pay a share to wards the revenue, as stated in our last week's article, and this will produce about $\$ 400,000$ annually. This is a big item, and taxing auto-
mobiles according to horse-power has been advo cated through these columns time and again. It is right and just, a necessary and advisable
move, and the Commission are to be conmove, and the commission are the matter. The developing of a special highways depart
ment under a Minister of the Crown should put the work on a permanent basis. The roads ' the Province have been carefully classified, as in-
dicated in last week's issue, and as previously dicated in last week's issue, and as previously
stated the bringing of 42,500 miles up to a fair stated the bringing of 42,500 miles up to a fair
standing, and fitting 7,500 miles of country roads standing, and fitting 7,500 miles of country road
to bear the severe demands made upon them no small task. Special attention is lo be given to main township roads, and it is proposed that the aid should not be given to townships unt the county has assumed the system of market plans might seriously interfere with the installa tion of a proper system of country roads. The report showed that the capitai investmem in agriculture in Ontario a capital invested in manufactures and industrie. 508,000 less. Think what a good system roads means to an industry with such gigantic proportions as the agricultural industry of this
undertaking of bringing all the roads in the country up to a high standard. Good roads are of immense economic importance to the farmers
of Ontario. It is interesting to note also in this connection the radius of the area from which the various cities of any size in the Province draw the main portion of their food supply. Toronto being the largest city draws from a radius of 35 miles, Ottawa 16, Hamilton 11, London 8, Brantford 5 $\frac{1}{2}$, Kingston a little over $7 \frac{1}{2}$, and so on down to a little less than four for such cities as Woodstock and Chatham. This would seem to indicate that the best market roads must run for this distance in all directions from the cities named.
The Commission went into the matter very fully and their investigation has been complete and the report is a lengthy one, containing the most valuable available information. The people of Ontario have been agitating for some time for better roads, and they expect action. It will
not do to delay this very much longer. Of course, as the report points out nothing very definite can be done before the season of 1915, but the Legislature must get to work, and whether they stick closely to the details in the report or not something must be done. It is not enough to investigate and report. The people want and need better roads. The report from the best findings tells how to get them. It right to the fore back on scheme is in actual operation, the good roads are made, and a thorough system inangurated to maintain them in the very best condition. We feel sure that a start has been made in the right direction, and that the iegislators believe the matter of suffia successful conclusion. The investigation ha been thorough, let the action be just as thorough. It means many millions to the Provalue of gond roads is small compared to the


## Nature's Diary

## The major of the marshes has returned; in Hackbird with the red epaulets is in his

 home once again. The red-winged in his reed certainly the presiding spirit of the marsh; does he protest against any human intrusion up conspicuous bird, and very fasy to recories is a With the female it is quite another matter, for she is an obscure brownish-streaked hird.The red-wing differs from most of our birds in its marriage customs, as it practices polygamy, and a colony of these birds in a marsh may con-
sist of but one male with his three or four mates. The males arrive from the south in ad-
ance of the females, sometimes even three weeks The nest of this species is usually the water, supported on the stems and leaves of cat-tails. It is constructed of reeds and grasses, and is lined with fine grass. The eggs are pale
blue, streaked and spotted with black. The diet of the red-wing colluists
three per cent. vegetable food, and twenty-seven per cent. animal food. The animal food amounts but gradually rises to over eighty-eight January, hut gradually rises to over eighty-eight per cent. in June, after whicha it decreases again to less
than one per cent. in November. In the spring and early summer most of the animal food consists of caterpillars and beetles; in July and August it is made up mainly of grasshoppers. to feed largely upon grain, but throughout the countryo at large its vegetable food consists mosty of weed. seed, so that by its preference for this latter article of diet and its consumption of in-
jurious insects it should gain the farmer's proval. The red-wing breeds in Canada from Nova Scotia to Saskatchewan, and winters from Virginia and Illinois southwards.
In our suring woods there appears a little flower of such a dainty and fragile appearance
that one would be inclined to think it would hardly dare venture above the soil so early in the season. It is called the bloodroot, because of the red fluid which issues from the root-stock if it is injured. This red juice shows through
the transparent stems of the leaves and stalks of the flowers, giving them a clear orange appearthe flowers, giving them a clear orange appear-
ance. This juice was used by the Indians as war paint. The bloodroot plays, to a certain extent, the part played by the snowdrop in the
Old Country-it is a white blossom which apOld Country-it is a white blossom which apWhen this plant appears
leaf is wrapped in a cylinder about the bud As the flower opens the leaf expands, and is strikingly handsome in form. Later in the season the leaf becomes arge, and has a petiole ten inches in lengthe On the outside of the bud are two sepals, which fall away as the flower opens. There are usual ly eight petals, though there may be twelve. As a rule every other petal is longer than its neigh circular in outline. There are numerous stamens often twenty-four. The two-lobed stigma opens to receive pollen before the pollen of its own The blos is ripe, thus ensuring cross-pollination. The blossoms open wide on sunny mornings, in closes at night. It also remains closed on dark days. The root-stock is large and fleshy, and in it is stored the food which enables the flower to blossom early, before any food has been made by
the new leaves. The root-stock is fringed with the new leaves. The root-stock is fringed with
numerous stout and rather short roots. The bloodroot is one of the flowers which must be admired in its native haunts, for the petals fall
so readily that the flower will not stand transso readily that the flower will not stand tran portation from the woods to the house. "lamb's-
The alders are now hanging out their "lamer tails." These attractive objects are the staminate catkins, and as they elongate they be come yellow, and the pollen falls from them at
the slightest jar. The pistillate flowers of the alders are small, ovoid and red. The alders are adapted to poll the hanging staminate catkins o the stigmas of the pistillate flowers. After ferti-
lization the pistillate flowers develop into little

## THE HORSE.

## The Brood Mare

Femininity is as necessary in the brood mare
as masculinity is in the stallion. The hard, digas masculinity is in the stallion. The hard, dig-
nified, determined expression of the sire should nified, determined expression of the sire should
be changed to one of maternal mildness and be changed to one of maternal mild and mus-
softness in the dain. The lofty crest and cular development so desirable in the male are altogether uncalled for in the female where we took for a conformation indicative of refinement of character. In the draft breeds particularly,
the owner delights in a short, strong-coupled the owner delights in a short, strong-coupled
back but a successful brood mare may carry this conformation to the extremes. She is nature's receptacle intended to receive and develop the creation of the male of her race and in so doing it is necessary that she have a greater
length of loin and deeper extension of rib, in order to maintain the foetus, and more successfully bring it into the world. The hard, brazen, undeveloped maternal organs so necessary in a good foal producer. Observation will substantiate the remark that barren mares are more
masculine than feminine, for a lack of sex charmasculine than feminine, for a lack of sex charCastrating foals while young causes them to assume more of the appearance of the female while unsexing mares by removing the ovaries causes a development of the coarser traits. In select-

APRIL 23, 1914
THE FARMER'S ADVOCATE.
to choose one str of extreme size ${ }^{\text {n/ }}$ than others
alone are
n c judgment of There al entering into $\qquad$ (dit qualities. to base a Inal qualities. ditions and circumstances the of a season's foal crop $\int$ which of the female. Among these governing facities of the female.
tors may' be menti ned food, labor and care.
Feeding has much to do with successful breeding. Not only is a balanced ration required but
the constituents entering into that ration must be chosen according to their respective merits. Corn may be added to until it forms a part of satisfactory as a ration of similar percentages composed of hay, oats and bran. Oats are! better than corn for breeding mares; oats and bran are better than oats alone and in some trials, mares fed grass and hay with no grain pind. The following table is the result o
conducted by' G. L. Carlson
No. of Mares
Bred $\quad$ Feeds $\quad \begin{gathered}\text { Average } \\ \text { Age }\end{gathered} \quad \begin{gathered}\text { No. of } \\ \text { Foals }\end{gathered} \begin{gathered}\text { Per } \\ \text { Cent }\end{gathered}$ $\begin{array}{llllll}468 & \text { Range Feed } \ldots \ldots \ldots . . & 10.1 & 425 & 91\end{array}$ alfalfa winter... alfalfa winter..
Hay, oats, bran
398 Hay and corn ....
231 Corn, bran. hay.
306 Corn alfalfa
$\begin{array}{lll}9.9 & 161 & 81 \\ 9.2 & 147 & 71 \\ 8.7 & 195 & 49 \\ 8.9 & 117 & 52\end{array}$

The results of this experiment are at variance
ith breeders' ideas, but the difference in fod ders grown in different districts and the Prov inces will always prevent a unanimity of opin-
ion. There is one object to be kept. in view and that is to keep the brood conditions as possible. Grass, of course, is nature's food for the horse,
and we are not surprised to learn that the brood mare under these conditions was mis
successful in performing her natural functions.
Saddle horses are subjected to violent efforts Saddle horses are subjected to vorent in addition to this the weight of
at times, and in the rider makes the retention of the
foetus until the time of normal delivery difficult in that class of mares. Those mares producing the greatest number of foals are found
engaged in farm work, especially those which engaged in farm work, especially those which from over-exertion and protection from colds are the conditions which added to the, proper type o
mare will ensure a successful breeding season.

## LIVE STOCK.

Our Scottish Letter The weather is a bafling theme these days. We had a magnificent winter-indeed we beginning of November until the end of February'. Rural work was proceeded with without intermission and everything promised well for an early seed time. March opened well, but after the first week rain fell incessantly in the west
Scotland and at present it is simply impossible Scotland and at present arly all the advantage
to go on the land. Nearl gained by the open winter country is concerned, unless there be an immediate improvement spring
will be late and the seed will be sown in anything but a dry bed. A curious feature experience. In the east and north-east of Scotland, there has been a long spell of dry weather, and so
late as the month of February farmers in some parts were carting water from long distances for gale is blowing and it is a wet; dirty night. The week end was beautiful. Friday and Saturday were ideal Spring days, but since Saturday night it has been raining heavily at times, and
seldom has it been altogether dry. The outlook seldom has it been altogether dry. The outiook is not cheerful, and unless t
1914 will be a late season.
Death has been busy among prominent men in
he agricultural world. The veteran, James Hope, of Eastbains, Dunbar, the greatest potato grower in Scotland, perhaps in, Great, Britain ha archal agey of hinety. He was a wonderful man; arming the most famous of the famous red soil success were the last words in arable farming His holding was like a colony', the workers of
all grades, male and female, constituting a small all grades, male and female, constituting a small
army, and the weekly wages bill must have been enormous. The rent paid was somewhere about must have reached a very high figure. The system of cultivation was intensive to a degnee, and
exhausted the country until he had eoen Fest exhausted the country until he had seen East-
bains. The fields are much more like great garden plots than agricultural enclosures, and the system of cultivation led to the land being
kept absolutely free of weeds, Mr. Hope in his kept absolutely free of weeds, Mr. Hope in his time was a keen sportsman. He kept a pack of onel of a regiment of volunteers. Altogether as an organizer of farm labor, he was a captain of the first rank and no finer specimen of the Scottish tenant farmer ever lived. Two of his sons are in the House of Commons. John D. Hope is while Harry Hope who is his father's successor in his farming operations, is member for Buteshire, consisting of the three islands of Bute, Arran and Cumbrae in the Firth of Clyde.
unique honor was paid to Harry Hope unique honor was paid to Harry Hope last week,
He was presented with his portrait in oils, the He was presented with his portrait in oils, the
result of a one-shilling subscription from his constituents. Altogether we Scottish agriculturists are rather proud of the Hopes.
Colin M . Cameron, one of the best-known and
most successful breeders of Shorthorns in most successful breeders of Shorthorns in Rosshire also passed away last week. He was not
an old man, having scarcely reached his sixtieth year, but for some time his health has not been good. He was a close friend of the famous Argentine exporter, Dan Maclennan, who like himself was an native of Beach Isle, and he took an active part in promoting the testimonial to
Mr. Maclennan from Shorthorn breeders. Mr. Cameron bred many high-class Shorthorns and was an excellent judge. He was factor on sevtrusted witness in cases connected with land and stock. As one of the leading men in the north-
Ulster at present bulks large in the world's eye. Recently we had an opportunity of seeing
Ulster agriculture at its best. The town of Bal


## Dunure Refiner. sult, the facts have been somewhat narrowly

 First-prize two-year-old Clydesdale stallion, and winner of the Cawdor Cup at been somewhat narrowly lymoney is situated in North Antrim, and the êvident that the modern Clydesdale is quite farmers around are an exceptionally go-a-head as heavy while he is a much better wearrace. It would be hard to match them in enter- ing animal than his ancestors, Six of the stal-prise, and they have the'keen commercial instinct lions owned by the Northern Steed Co., Elgin, prise, and they have the.'keen commercial instinct degree. Farms in the neighborhood named are. not large. One of 70 acres is regarded as ahove the average, and most of them are not more
than 50 acres in extent. The people are a phenthan 50 acres in extent. The people are a phenomenally thrifty race, driving a hard bargain,
but industrious and honorable to a degree. The Ulster Scot is perhaps the toughest piece of humanity on earth, and his thrift and industry have transformed the least promising part of Ireland into the most prosperous. Co-operative methods of handing ated, and the system of collecting, assorting and marketing eggs is an eye-opener to the visitor, so also is the creamery system of handling milk and its products. In Ireland a creamery is strictly what its name declares it to be. Only milk is returned to the farmer to feed his calves. The cream is manufactured into butter or it is shipped to the Scots or English markets fresh, and used on the following day. A great trade is done in pigs and bacon, and flax is still a crop to be reckoned
with in. Ulster. It is an expensive and exhaust with in crop to raise, but in spite of all it is re-
garded as a crop that pays very well. In one
creamery' visited the money paid out for milk in 1913 amounted to $£ 35,000$, the average price to the farmers, taking the milk season throughout, was about five pence, per gallon. Winter dairy ing is nowhere practiced, the feeling of the farm
ers being that the cost of feeding stuffs would exceed any profits that might be looked an illustration of the success of small tenancies where there is security of tenure, the experienc of Ulster is worth much. The charter of ag ricultural liberty and progress in Ireland was, of tenure, and this encouraged the farmers to in prove their houses and homesteads. But it also gave freedom of cropping, and free sale of the tenants improvements, and this last created a
dual ownership, the difficulties of which could dual ownership, the dificulties of which could chase which at last came during the administration of the late Mr. Wyndham. Under this scheme the tenant becomes proprietor at the end
of $68 \frac{1}{3}$ years, and the State meanwhile finances of $68 \frac{1}{2}$ years, and the State meanwhile finances the transaction as between the owner and the
occupier. It is a great scheme, and it has worked an agrarian revolution in Ireland. Emigration has been checked, tillage has been revived, and the Irish farmer is relatively a much more
prosperous individual to-day than either his prosperous individual to-day than either his
English or Scotch neighbor. He enjoy's advanEnglish or Scotch neighbor. He enjoys advanant, and security for his capital, the absence of which has often been a disaster for the British farmer.
The later bull sales maintained the high range of prices set at the earlier. The rxisterice of foot and mouth disease alike in England and
Ireland no doubt operated to the success of the sales in Scotland. The top price paid for a sales in scotland was $£ 52-10 \mathrm{~s}$ ( 50 gns.), the seller being William Donaldson of Dunkyan, Killearn, the head of $t h e$
famous shipping firm of Donaldson Bros., Glas gow and Montreal. The top price of an Ayrshire bull stirk was £170, a record figure at an auc-
tion sale in Scotland for an animal of that kind. The fortunate exposer
was Thomas Scott Netherhall, Sandilands. Lanark, whose stock has long enjoyed a frst-rate
reputation. was late in recognizing Record, but he had the cows that made go of
records, and when the records, and when the
public tester gave his re public tester gave his re-
sults what was generally suspected was found to be true of the Netherhall herd. At Lanark, 250 Ayrshire bull stirks were sold at an average
price of £16.8.6, a very price of return, due almost
fine
wholly vo the $j$ ublle wholly vo the
milk records.

milk records.
We have had a deal of discussion goo were recently weighed and measured. They ail sere recently weighed and measured. They all was 2006 lbs each. It was our good fortune last week to view, a parade of almost all of the 47 stallions owned by Messrs. A. \& W. Montgomover 17 hands, and among them not one of the short-ribbed long-legged type could be found. Some of them were fully 17.2 hands and wè should say that only one of them would be lunder solid weight and draft horse type on the best of feet and legs. Not all of them were to be classed as show-horses, but in respect of carthorse type and character, there can be little doubt that the average merit was far higher than
could have been found in a like number of draft stallions 25 years ago. The best and most stallions 25 years ago. Thering horse in the bunch was the celebrated Everlasting 11331.: the best balanced and most beautiful. show horse was the Gold. Cup Winner of last year, the young horse Baron's
Seal. Nothing more uniformly level and true has been seen in the Clydesdale world for a long time. He is a very heavy thick horse standing
open feet. In one sense the Clydesdale breed suffers from the modern system of hiring horses privately and for a head. The result is that we Clydesdale stallions. In old days at. the GlasClydesdale stallions. In old days at. the Glasgow spring have been seen in one class, now we have less than one-half of that number in our
show altogether. The result of the systomn of private hiring is that owners may show three o sier days, would have exhibited 20 or 30 horses In the issue men do not find material out of which to form an adequate judgment as to the merits of the breed. In respect of wearing qual-
ities we believe the Clydesdale was never mureties we believe the clydes.
valuable than it is to-day.

Anting a deal horses which has lately been pony. This is a sure-footed, thick, hardy breed reared in Perthshire and the Western Isles, and admirably adopted for use on small farms, and on the narrow paths frequented by the deer-
stalker. A section of breeders favor a lighter than what is known as the garron type of pony, They claim that the Highland pory can be reared for riding purposes, and that it is profitable to rear him as such.' Certainly a very big trade can be done in 13.2 hand ponies for pit work,
but there are those who maintain that this type of pony is not a true Highland pony, and that he can only be obtained by crossing the Highland pony with an Arab stallion. The useful size of garron so-called is a horse standing from 14.2 to 15 hands, an extremely useful animal.
There is however, no reason why both types There is however, no reason why both types there is a market for them. Meantime there is a threatened schism among the breeders, the chief bone of contention being, whether the High-
land and Agricultural Society is warranted in encouraging a dual classificat is wated ion at its shows.
SCOTLAND YET

## English Live Stock News.

His Majesty the King will visit the Royal Agricultural Show at Shrewsbury on Friday, July 3rd. The exhibition this year is being held in that very part of England where Shropshire sheep, Hereford cattle, Shire horses and Welsh ponies, chiefly compose the live stock, to be
found most used and bred by the farmers. Hence ound most used and bred by the farmers. Hence any Canadian tistors in england at that time should make a big effort to go and view the
The Hackney Horse Society is going to hold its 1915 show at Olympia, the venue of the International Horse Show. A sum of $£ 5,000$ has been easily raised among Hackney enthusiasts to make the future of the Hackney exhibition a success-which it certainly has not been of late $\underset{\text { The }}{\text { years }}$

The horse which won the Liverpool Grand Na in feeding sheep and a farmer's help used by him 14 prizes in the show-ring as a Hunter.
The American Shire Horse Association has
written a letter to the English Society stating that it is pleased with the developing enthusiasm of gold medals by the parent society at the leading shows and fairs of U. S. A. Canada must ask for more medal
W. S. MacWilliam, the King's land steward at Windsor, is going to judge the championship fat a young man wit
behind his vears.
The Argentine has taken 169 pedigree Short-
horn cattle quite recently.
Canada should take horn cattle quite recently. Canada should take
Professor Shaw's advice and sail in and secure Professor Shaw sidice and sail in and secure
the British dual-purpose cow ere the home breeder puts the bar up by opening his mouth too

An International Dairy Congress is being held Henry T. Tory, of Damory Court, Blandford one of the most prominent breeders of Short-
horns and Hampshire Down sheep in Western Eng and, died recently. He sold Sho Argentine which went into the 6,000-dollar mark owe which has given birth to five lambs and sur vived it
A Wicklow mountain ewe, belonging to Miles Lawler, of Ballymore Eustace, has also given
birth to five lambs. The same ewe had three lambs each year for the past six years, so that she has dropped 23 lambs in seven years.
The. International Horse Show, at Olympia, London, will be held from Thursday, June 4th to Tuesday, June 16th, and entries closed at ordin ary fees on April 20th, but at double fees on
Ayril 27 th. and to the jumping alone (18 clesses) $£ 4,510$ worth of prizes are allocated. Trotters are
catered for to the extent of
\&80,
donkeys at £90, which proves the spectacular idea is being borne out well at this show. A lot of new jumps and army officers' contests are an-
nounced. What the color scheme is yet, deponent knoweth not. Sir H. Montague Allan, Hon. ${ }^{*}$ Adam Beck,
Col. Lawrence Jones, Mr. G. W. Beardmore, Walter Lawrence Jinans, A. G. Vanderbilt, and Judge W, H. Moore are'among the donors of special prizes. London, Eng.

## Cows in Demand

At a recent meeting of our local Institute lecturer on stock made a striking statement, and upon investigation it seems pretty nearly right. What he said was this, "you people here to-night will never again see cheap beef in the west." within a few miles of us, and noticed that he had many horses and but few cows. I asked he said, "I can raise taise more cows. the same cost that I can a cow, and get $\$ 300$ for a draft horse at three years and $\$ 75$ is all that I can price, awing to the market stringency which throws team work out of demand, but it is only temporary. Cattle prices have gradually been soaring, and are still at it. To contrast the difference in two years: last week 1 went to a milk cows. He had just sold half a carload and had another carload just in. Two aged scrub cows he had up at $\$ 80$, small milkers at their best; a grade Ayrshire well up in years $\$ 100$, and
Holstein very thin $\$ 100$. Holstein very thin $\$ 100$
It is impossible to get better stock here or better prices than these, and the reason is found
at the base of supplies-the prairies. In the early days on the prairies we heard great tales of the frequent fortunes made in wheat. That day is practically gone. Mixed farming is gradually taking its place, and cattle are in demand. Cows are scarce and any kind will bring a big
price. All cows are wanted for breeders, and if they prove to be unprofitable as dairy, animals their calves may, if the cows are well mated,
prove profitable. If not they are certain to bring prove profitable. If not
A neighbor was telling of the conditions ke found this winter on a trip to the prairies. One instance will serve to illustrate-we spent an
evening discussing it. A farmer fifteen years ago bought a cow which each year for fifteen years has raised him a calf. and last fall he turned her originally paid for her.
Here at the present time we are having it Corced upon us that alfalfa is almost indispenprofitable to feed stock on it as not; also that rith so many green houses in use and small fruit more manure, and to get it we are going in for a
small stock of pigs, cows and horses. Most of small stock of pigs, cows and horses. Most of alfalfa and the corn stalks of the sweet corn crop, and it looks like a wise move. Consequenthe speaker at the Institute was not far out when he said that those present at the meeting for a long time it will probably be the same in
the East. There is also much of the high price of heef due, no doubt, to the: 8 per cent. interest rate charged to farmers on stock raising and
farm work generally, and until that is lowered and cows become more plentiful little easing o B. price of beef can be hoped for. WRIGT.
WALTER M. WRIGHT.
B.

## The Dipping Season.

The agitation for more restrictions on dogs but if one could estimate the annual loss incur red by sheep raisers through the prevalence of
ticks, lice and scab, the total loss through dogs would fade into insignificance. We are not champions of the useless curs running at will through field and pasture, and we can easily un wall, but to the consistant, hangs loaded on the ous to see the insects and diseases that prey constantly upon the flock stamped out of exist
ence. Ticks are as common on sheep as on dogs, but their depredations sheep as tieas to a minimum by a little effort in the spring - No farm where sheep are kept should be with Sut some form of dipping vat. It need not he elaborate or expensive as a more modest one will the lambs and where the sheep mayl be stood and the liquid poured on them will suffice in the has done good service: 4 feet long dimensions wide at the bottom and 26 inches wide at the

The material should
gued and groved anu
iron. The lambs ma
these proportions but it the material on the bac it in with the hands. should be arranged at ounc order that the liquid squee the lambs may b A vat of sufficient conveyed back into wool of sheep to be dipped size to allow the full-grown much more materia would be large and require extravagant for the small flock when would be at does just as well. About one week ticks will have migrated the sheep are shorn the they may find wool in which to harbor. Dipping the lambs at this time will destroy the pests that would otherwise prey upon them all through the season and by applying the same treatment
to the sheep, one is doubly sure of 1 exterminating the vermin which curtail the growth and development of both sheep and lambs. A similar operation before the flock goes into winter quartand vigor, and when this system in their health for a couple of years, there will be no hesitanc on the part of the shepherd to continue this little operation which adds to the health ond comfort of the flock. There are now many reliable proprietary dips on the market and the operation does not become so simple that the

## An Unnatural Sow.

writes that one of his neighbors recently had some difficulty in getting one of his sows to own until at last the man lost all patience employed a new scheme ali his own. He took the pigs ing of the pen and gave the sow a thorough licithe help a good whip with lash. He then, with and after she had tired herself out from ropes, the pigs were again placed with her, fighting mothered them thereafter. Rather strenuous treatment
all cases.

A few years ago it was with difficulty that
anything like the top price was obtained for heifer beef. At the present time several of the markets in the United States pay the higkest

During the first three months of 1914 caftle receipts at six of the large markets of the Westhead compared with the same period last year.

The Royal Dublin Show, which was to have been held May 5th, has

## THE FARM.

## Farm Enginering

Nearly everyone believes that after a storage battery is charged it will give out as great a quantity of electricity as was put into it in the ge battery is always a losing venture. Some ge battery is always a losing venture. Some times, of course, the loss in this way is not so used, but this is not the case on the farm. An oil engine connected directly through a countershaft to an electric generator will mean a far less costly installation in the first place, the cost
of operation will be much less, and the cost due of operation will be much less, and the cost due
to interest, depreciation and rapair will be very much less. The ordinary lead plate storage battery is,
when new, about eighty per cent. efficient, but its efliciency drops off somewhat after use. The
Edison nickel-iron storage battery, so famous of late years in automobile work, is only sixty-five seems to rise slightly aftew, and its efficiency is, the quantity of electricity used to charge the battery is one hundred per cent., but that given
oft in discharging is only eighty per cent. for the cell. The anvantite of the Edison cell over the lead cell is not in cheaper cast of operation, but
is in the lighter weight and the strength of the parts. The lead cell has to have a glass container, and the plates are continually disintegrat
ing. The Edison cell, on the other hand, is en closed in a welded steel box, and the active maboxes. The Edison plates can be kicked around
the lead plates must be handled with great care Both batteries have about the same bulk or size. purchase a storage battery and operate it as you the storage cells cease to operate. A stora cell requires an electric generator, and an engin of some kin to run the battery must be charged by the electric current not not alternating, the alternating current being used largely for lighting and power. If
there is an alternating current which you can use it is cheaper to buy a "rectifier" to change the alternating ine and generator. The rectifier, however, like the storage battery, costs money to operate it like any other machine or apparatus. The mercury-vapor converter, which is most
commonly used, has an efficiency of about eighty commonly used, has an efficiency of about eighty charge a storage battery and for some reason use the alternating current the quantity charged into the battery is only eighty per cent. of what you pay for and the quantity discharged is only eighty per cent. of that charged, if a lead cell is
used. That is, if you pay a bill for alternating current of ten dollars a year, you get the benefit current of $\$ 6.50$ worth of electricity. If it is an
of about
Edison battery you get the benefit of about $\$ 5.20$ orth of electricity
If you light your house with electricity from
a storage battery charged by means of a gasoline a storage battery charged by means of a gasoline
engine running a generator, and it costs you ten dollars a year for the oil used, the cost would be only about eight dollars if the lights were
directly connected to the generator instead of to directly connected to the generator instead of to
the battery. The cost of the lighting plant in place of being $\$ 350.00$ without engine would be only $\$ 125.00$ to $\$ 150.00$ with engine included. The repairs and renewals with the storage battery amount to surely ten per cent. a year.
Without the storage beittery the renewals are Without the storage battery the renewals are
negligible, and the repairs not over two per cent. per year. the gasoline engine whenever of having to start and the inconvenience of having to stop it afterwards. This is not by any means as bad as it would seem, however, for the stopping may be device which will turn off the fuel.
N. P. CLARE Scotia.

## On the Fertilizer Question.

 Editor "The Farmer's AdvocateWith the information furnished in the fertilizer advertisement, mentioned in the article $\cdot$ "Believes in Home-mixed Fertilizers'' in your issue of April 9 th, it is not surprising that Jas. Hunter felt
prompted to write a protest against such, or to express surprise that. anyone who kiad studied fertilizers at the $\mathbf{O}$. A. C. should let his name go as
sponsor for such sweeping statements. I wish to ponsor for such sweeping statements. I wish to make it clear to your readers, however, that my
name was used in connection with this advertisement entirely without my consent.
I altogether agree with Mr. Hunter that the advertisement is quite misleading, since the conditions under which these results were obtained are not taken into account. Those seeking in the larger yield obtained by the man using the lactory-mixed fertilizers is due to the brand o goods. Such important considerations as soi ot even, pred spraying, etc., ar sponsible for differences in yields.
The following conditions under whichs the re sults were obtained by these two young men wil be of fiterest to your readers, and must neces or the results secured
The experiment was with potatoes, each growing Delawares. Roy McKenzie Barron, of Font hill, Ont., used as fertilizer 100 Its. nitrate soda,
300 lhs . basic slag and 200 ms . of potash. In addition to this eight loads of manure were ap
plied. The soil was sandy loam, the surface soil being fully 10 inches deep. The previous year a
crop of timothy hay had been grown on the field crop of timothy hay had been grown on the field
The seed was not treated for scab, nor. sprayed during the growing season to prevent blight. Be when the potatoes were dug he cultivated five times, and on the latter date harvested 13 bushels. Valuing the marketable potatoes at 60
conts per bushel these would bring in $\$ 77.40$ that he had a margin, etc., cost him $\$ 44.25$, Will Crysler, of Allanburg, the other competi-
tor, used 500 ns. of a factory-mixed fertilizer and six loads of barnyard manure. This field was clay loam with five inches of surface soil in alfalfa for several years previous to being broken for this crop. The seed was treated with
formalin to prevent scab and planted on June 3rd. Two sprayings of Bordeaux Mixture were Given to prevent blight, and three cultivations
When they were harvested on October 20th there was a vield of 296 bushels, worth. $\$ 177.50$. The cost of producing this crop including tillage, fer
tilizers, etc., was $\$ 42.25$, leaving a margin

THE FARMER'S ADVOCATE.
A consideration of the above conditions will factors responsible for the that there were many ments, and that the larger profit in the one could mot honestly be credited to the special brand Welland Co., Ont.

## Cementing a Silo Roof

In reply to the enquiry concerning method building cement roof on silo, I will try and give
a concise explanation. In finishing top of cement a concise explanation. In finishing top of cement round iron (old guy roid) firmly looped together, placing about ten or twelve inches from top. I


Gipsy Lady 2nd.
This dual-purpose Shorthorn was second at Guelph in December, with 168.9 points She freshened October 4, 1913, and in March gave 1,082t lbs. of milk testing
4.3 . Miss Smith, Maple Lodge, is the owner.
also set in on end eight blocks 2 inches by 2 nches by 5 inches, an equal distance apart on
nside top and flush with finish of wall. I also an a groove 1 inch by 1 inch around the top of ran a groove 1 inch by 1 inch around the top of ut blocks. which should be tapered somewhat, o draw easily; I left the outside ring on, as I sed it for tacking on my segments of board to support the ten-inch projection. But the prinsure of the green unbonded roof. For a face strip on the outer edge I used thin basswood five inches wide by less than one-quarter inch outside. I made a circle for center about thirty inches in diameter and eight inches deep for the ventilator. We then set up our rafters, dropping

## 1st year.-Hay, (now (B)-Fouing)

2nd year.-Hay or p
3rd year.-Hoed crop.
8rd year.-Hoed crop.
4th year.-Cereal, seeded down to clover and timothy.
(C)-Five

1st year.-Hay, (new seeding)
1st Year.-Hay, (new seeding). cultivate and cross-plough, or prelerably ridge up in late autumn).

4th year.-Hoed crop (particularly suitable for potatoes or roots). 5 . timothy.
Any one of the above rotations may be expected to give satisfactory results in the in-
creasing of cereal crop proving of the soil.
After determining the rotation that is to be Pollowed the next most
important consideration making, for a good grain crop is the pre paration of the soll im. mediately before seeding
Cereal crops require : Cereal crops require a moderately de eply. worked soil, but with solid 1 y -packed lower seed bed. Condltions for grain production are al
most ideal after a satis factory crop of roots,
say sugar beet or or mangels ${ }^{\text {g beets o }}$ vested. Corn land,
heel in gain in wall, spiking top to circle four inches below top edge. I collared the rafters midway up for a center support for sheeting.
Cutting my sheetingboards on suitable taper I dropped the bottom in the groove on wall and tacked lightly the center and top. Everything was now ready for the concrete, which we pulled up with horse, using a swinging 9 -inch pole atissue of March 26 th .) We put on two coats similar to what we might use on a stable floor We put in another half inch cable near outer edge, also scrap iron set like spokes around the roof edge with hoops of wire every foot up the blower pipe. The cupola form I made in my workshop, irn-
fining outside with a sheet of galvanized iron.
Perth Co.. Ont.

$$
\begin{aligned}
& \text { vested, Corn land, } \\
& \text { properly treated a it e } \\
& \text { harvested in the fall, is also likely to give goo }
\end{aligned}
$$ returns. Where the soil is rather light or of a quality that might be called sandy loam, the best

treatment after growing corn, to insure a treatment after growing corn, to insure a good
stand of grass and a good crop of grain, is to run over the field, lengthwise and crosswise, with a double disc harrow whiche tears up the corn stubble and leaves the surface in good condition for the next spring seeding, which should be
done after the land has been again double-disced hut not ploughed.
Potato land or root land had better be lightly ploughed after their respective harvests to in ure evenness of surface, and the buring any refuse matter that may about. Where sod has been ploughed ingust rotted and ridged up in the rall, the ridges
cultivator in the spring and the grain sown im tely thereafte
It is not usualiy advisable to disturb the soil with a harrow after the seeder has gone over the
field in the spring, especially is this true if grass field in the spring, especially is this true if grass
or clover seed has been sown with the grain, as should almost always be the case in Eastern Canada. If the soil is very dry, rolling im-
mediately after seeding is advisable, and even mediately after seeding is advisable, and even after rolling, the ground is scratched with a light, slant-toothed harrow. If, however, the weather is rather uncertain or if the land is of a character somewhat heavier than what might be lay rolling until the grain and grass seed have made a fairly good start, when the rolling may be done. This should be done when the -surface is hard or when no rain has fallen for a week or
ten days. Passing over with a roller breaks the crust, makes a mulch on the surface, and very materially benefits the crop both at the
time of doing and for some time thereafter. time of doing and for some time thereafter.
This, of course, is the last cultural operation that can be performed on the grain crop where
grass seeding is followed regularly with ever grass seeding is followed
cereal crop as it should be
Ottawa, Ont.
H. GRISDALE.

## Making over Machinery

ditor "The Farmer's Advocate":
There are plenty of farmers who could save thems 'lves many dollars and many hours' hard wor , if they would turn old machinery into some-
thing useful. For instance take an old seed-drill -which has not been worn too much. It is mostty the gear of a seed-drill that wears out frst, the cul'ivating part is generally in fair condition. Ta'e off the grain box, and all the parts that do not interfere with the cultivator parts. divide the rest up for cultivating two rows of corn. Buy new points for the teeth, six-inch ones for the two centre ones and three-inch ores
for the outside. By using the narrow ones on the outside you will not be so apt to cover the corn. Take the teeth to your blacksmith When your corn gets up high, raise the double trees up to the tongue and make a neck-yoke With the ring for the tongue on the top side, so as to tilt your machine up high in front and times longer. The go through your corn a few made to cultivate two rows of corn planted from 30 to 32 inches apart, which is the width we plant our corn. I don't mean to say that this cultivator will be as good as the regular co:n

Wh on the cultivator is ready, make a marker for planting corn in hills to suit your cultivator and attach it at the back of the cultivator, so
that the old seed-drill may be used as a corn riding doing the marking than walking easier is so scarce, one has to scheme all he can to save all the steps possible, and with all his scheming, if he runs a farm to make it pay as
all farms should he will.find he has plenty to do. I give this experience for those who desire to
get started in the corn business, and haven't the get started in the corn business, and haven't the money to buy all necessary implements at the
start. In my opinion if corn growing is started rightly, it will not be long until the grower will have the money to equip his farm with all necDufferin Co., On

## Spreading Manure

A correspondent advises those who do not own a manure spreader to dump the manure from the
wagon in very small piles, and spread it by wagon in very small piles, and spread it by have seen this done many times, sometimes with success and others with failure. The piles must
be very small, close together and many strokes of the harrows are often necessary, and it is generally required to use the fork to some exteni However, harrowing does good wher practiced on manure spread from the wagon or
from the heap with the fork, and, of course, the from the heap with the sork, and, of to in sprea ing from small heaps.

## The Dual Purpose M.P

The parliamentary discussion of Mr. Burrell's Dell as news lndry Act" has offered a surprise as the great arguments against free wheat was of used against the prnposal to permit the manufacture of oleomargarine. It was urged that if Canadian wheat went across the 'border; we would out short of bran and the thought of cows with lators in bran mashes almost brought some legis to take the place of butter-milk? As an exhilarating beverage buttermilk is both moral and nutritious and "In the cold grey dawn of 'the morning aftar" many prefer it to the insidious John Collins I am surprised that no statesman urged the claims of buttermilk when supporting the bill. But the most interesting thing about this excellent measmember the light it cast on the dual-pue position to it demonstrated clearly that although the dual-purpose cow may be a possibility the dual-purpose member of parliament is a flat failure. After he has been elected he goes to Ottawa farmer in his constituency by his first name and it is" his honest intention to represent them vio-statesman-like view of the affairs of a broad and at large. But presently some promoter comes along with a scheme that is rich in campaign, fund butter-fat and he promptly hustles arouud to the cream spout of the government separator and as Wordsworth so beautifully sang in the

He takes his little porringer
And eats his supper there
Observant farmers are about convinced that the dual-purpose memher of parliament is of no use .

Man is beginning to look as if Mackenzie ada had stolen a march on the people of Canwhere They have placed the nation in a position ance or government must give financial assistance or the people will suffer losses and all kinds American aged to involve banks or financiers so deeply their schemes that they had to support them to
the end or lose all they had already advanced. But I end or lose all they had already advanced. But was worked on a government. But that is what appears to have happened to Canada. The country is so deeply involved that it must help to neither political party can take a "holier-thanchou attitude in the matter. Provincial gov ernments of both political complexions have guarbeth parties when in power have given assist-
ance. And neither party when in opposition has made an effective protest. Both parties are to rime for the present situation, and the best
thing they can do is to get together and find some way out. They will both have to do some ingenious explaining when the next general election comes around. Our dual-purpose members of Parliament have been trying to serve both
the people and the corporations and the result is the people and the co
far from satisfactory.

One suggestion that is being made by papers on both sides should be stamped out at once.
1t is suggested that the true solution of the difrculty is public ownership of the C.N.R. I am a believer in public ownership and for that rea-
son I do not want to see a start made with a
railway that is in difficulties. If we are going to take over a railroad let us take over the C.P.IK. which produces both dividends and melns. In its present state the C.N.R. would ble since the Railway Commission has culad that frizht rates must be qoverned by the sirvice the railway. It would be many years before the i. V.R. could he made to pay and it is just possi'le that the papers that are advising pliblic
ownership are unconsciously playing into the Wands of Mackenzie \& Mann. Having t akinn their profits from the work of construction they may
he quite willing to unload the railroad on the public. But the difficulty that the city of tor onto is having with this firm in trying to arrive
at a purchase agreement for the street railway
shows what we might expect if the government
tried to take ove over the C.N.R. The "finten ible assets" would be placed at The "intang and a true valuation of the property would be almost impossible. No matter how vou look at
it, the C.N.R. situation seems to have many sides to it-all bad.

Perhaps the most amazing statement eve made by a Canadian member of Parliament is that which Levi Thomson, M.P. for Q'Appelle ern publication. Speaking of campaign West "used for legitimate purposes" he said. I fancy the public generally do not under stand what a large amount is required for th purpose. I would estimate the amount at $\$ 10$ Dominion ele ordinary rural constituency didate. The question now comes up, by whom is this amount to be paid-by the candidates the electors, or hy outsiders? I am afraid that a very large percentage of the electors/expect the greater part of that amount to be paid by outpects that the amount so contributed will be made up by those who have axes to grind.' You will notice that he speaks only iof ": "Legi imate expenses. What would the amount be i the illegitimate expenses were added? I own of surprise. I had heard the expenses of a cad didate estimated at $\$ 3,000$ and-allthough $I$ wa convinced that the amount was well within the mark I refrained from mentioning it for fear member one would belleve me. But here is through the mill, who places the figurel at $\$ 5000$ If that "legitimate" money is contributed by outsiders do you wonder that we have dual-purpose members of parliament? They would not be human if they did not show gratitude to those gratitude usually takes the form and as that gran ${ }^{\text {ting }}$ special privileges of some kind it is easy to trace all our ills to the swollen secret campaign funds of the political parties.

But I am unable to see how the "legitimate expenses of any candidate can amount to so
much. If they do something must be done to simplify our electoral system. As matters stand sent a constituency in parliament. It repre cost a farmer candidate the price of his farm if he wished to pay his own expenses, and if he did not pay them he should not be in parliament. Most people imagine that a few hundred dollars cover all expenses of a candidate, but
Mr. Thomson's statement to the contrary is explicit. If these expenses are lepitimate they should be paid out of the public funds for our government iis a farce unless every man of ability has an equal opportunity to serve his country. It is beginning to look as if campaign funds and the management of campaigns should be investi-
gated thoroughly. If we were rid of this means of securing secret influence we would soon be rid of the whole incubus of special privilege. And pose would he fid ons instisfactory dual-pur

Avoid Mixing Malting Barley
Most of the barley which is grown in this country at the present time is used foriseeding purposes, and we believe this is as it should be. The more grain fed on the farm the greater the chances for profits at the end of the year, but for those who still grow barley for malting purposes a few short rules as laid down by the United States Master Brewers' Association might be of value.

For malting purposes mixing and blending of two or more distinctly different types of barley for improving the color, increasing the weight, or shouid the mixing of the same types of barley from different localities where, due to different climatic and soil conditions, changes have been reated which are often responsible for an unven growth during malting. Brewers also object
o the mixing of light-weight, im-mature barley with a heavy, well-matured barley of the same or different type to improve the color of the latter, or to get a better price for the former. They
also object to the mixing of all barleys in any also object to the mixing of all barleys in any
stage of unsoundness with the sound barley in order to cover up the deficiencies of the former It is also bad practice to mix barleys grown in different seasons, and never should the mixing o seeds, screenings, skimmings or other foreig any purpose whatever. With malting barley should be mature, sound, of good color, should germinat 92\% or more, should not contain more than

## THE DAIRY

## Milk Standards.

Editor Definition:-A milk standard is a legal limit 3e regards chemiccal composition below which minimum standard is usually expressed in terms of milk-fat (incorrectly called butter-fat), and What strikes or the stal soiids.
being, to say the least very peculiar iostion as being, to say the least very peculiar, is the
great varizty of standards. For instance in the United States we have a variation of fat percentage from 3.0 in the States of Califo:nia,
Colorado, Illinois, Michigan, Nebraska, New Jersey, New York, North Dakota, Ohio, Oklahoma, and Wisconsin, (the little State of Rhode Island cent. fat in the District of Columbia and the States of Louisi and the total solids from 11.5 to 12.5 per cent.,
(Circular 218, U. S. Dept. Agr., Apr. 1, 1913.) The Department of Inland Revenue. Ottawa,
has fixed a standard of 3.25 per cent. milk-fat and 8.5 per cent. of milk solids other than fat An Act to prevent fraud in the manufacture reads in the first section: "All milk containing less than thirteen per cent. of total solids of
which three and three-cuarters per cent which three and three-quarters per cent. must be
chemically dry butter-fat, shall be deemed below the standard, required in creameries for butter manufacture.
The Onta

The Ontario Milk Act of 1911, section 5, (1) by authorized to enact by-laws fixing the stand ard for butter-fat and total solids of milk sold
in such municipality, but no milk shall be sold in such municipality, but no milk shall be sold
for human consumption which contains less than twelve per cent. of solids, of which three per cent shall be butter fat.' read under standara contain twelve to thirteen per cent. of milk sol-
ids, of which at. least three and one-half per cent. ids, of which , at least three and one-half per cent.
is butter-fat." It is unnecessary to give further instances of
the great variation in legal standards for milk. The grieat variation in legal standards for milk.
Nearly every legislator who has tackled the prob-
lem arrives at a diferent and lem arrives at a different conclusion as to what
milk should test for fat and total solids. The reason for this is that no one can say what are
the limits the limits of variation in milk composition. We have on our office hundreds of cases, sworn to by
two or three persons, furnishing evidence that would be accepted in any court of lay, that it is
practically impossible to set limits to the variafion in fat content of normal milk, or milk as given by the cow. We have in these cases an-
other illustration of the law, "Nature Loves
Verin To pass legislation making it a crime to sell
milk which comes below a certain percentage of fat and total solids, and branding such persons
as dishonest who sell milk as it comes from the as dishonest who soll milk as it comes from the
healthy, clean cow, is as absurd, as it would be Ing pass legislation that all babies born, weighing less than ten pounds, shall be thrown into
the sewer, and their mothers fattened and sold
to to the Cannibal Islanders.
The International Dairy Congress, which met in Stockholm, Sweden, 1911 passed the followa caretuluined from one or more healthy cows by
a certain
anstive milking. The fixing of a certain minimum percentage of butter-fat in milk offered for sale is unceasonable and purpose
less." The foregoing represents the concensus of opinion of the most noted dairymen of Europe, ing standards of this we have legislation mak-
milk in nearly all civilized
 There must be some reason for such almost
universal legislation. The reason is probally to universal legislation. The reason is probably to
he found in the fact that milk is so easily adul.
terated ty the fald or the removal of cream, or the withholding of what is known as "strippings" which is rich in fat. We have not a particle of sympathy for a
man who adulterates milk, but we have a good it from a cow with wo sells milk as he receives ing taken a cow with nothing added to, and noth-
ed ed and sometimes convicted of adulterating his
milk. Such a man deserves consideration and is milk. Such a man deserves consideration and is
entitled to be considered innocent until proven guilty of adulteration. We have known cases
where the accused party has quietly paid the fine imposed, accused party has quietly paid the fine
nather than suffer from the publicity
neceose necessary in order to defend the case. The
whole fyuestion is fraught with dangers and diffi-
culties. If the matter is left too open, then the
dishonest person takes advantage and pernetrates a fraud on the dealer or consumer ; perpetrates
standareas, and open a way whereby the crat honest mana lower good milk to the legal standard and there-
by reap a double profit. We heard a prominent
America American Agricultural. College Propessor say
some years ago, that the milk standard law his state had made more miog restandard law of
law on than any other Taking everything into consideration, we be-
lieve that the definition lieve that the definition of pure milk as laid
down by the International Dairy Congress is the
safest and best
what about the conslmer?
I fancy some of the milk consumərs are ready
to ask the question, has the consunis no rights? Is he not to be guaranteed milk of a standard
composition? These are fair questions which we shall endeavor to answer
We should like to observe at the outset that taking it on the whole, it is our judgment that
consumers would receive milk of higher chemical composition if they insisted on getting it as it
comes from the cow, with nothing added and comes from the cow, with nothing added and
nothing removed. But, if they (consumers) de sire milk of hish chemical composition, then they
should be willing to pay for it. The Director the New York Experiment Station in his repor for 1913 says: No real progress will be made, that it must pay enough for milk of high quality to justify its profitable production,
"The Editor of "Hoard's Dairyman" writcs right to make a milk standard, but we hav thought for some time that it would be better demand that any firm or person selling milk be compelled to state upon the package or in writ
ing, approximately the amount of butter fat conJaned in the milk. For instance, if a milkma. were producing milk that tested only 2.5 per cent. to 3 per cent. fat, let there be placed upon
the bottles, 'This contains between 2.5 per cent the bottles, 'This contains between 2.5 per cont.
and 3 per cent. fat'. This would let the consumer know the quality of milk he was receiving and at the same time permit a man to sell mill ards without becoming a eriminal. It would also give the man whose cows produce rich mill
a better opportunity 'to get the price that such milk warrants, and give the man whose cows produced a
his products.
We would agree with the statement that a we do not agree that a city has a right to say is the crucial point. We have a good deal o sympathy for the Medical Health Department of any city which is trying to improve the char acter and quality of the milk supplied tof citizens, especially for children, but at the same were paid to the health of the animals producing the milk, cleanliness of the stables and sur-
roundings, including pails, cans, etc., greater care observed in the immediate cooling of the milk; clean waggons and cars for hauling milk to the city refrigerator cars to be insisted on
where the distance is over 25 miles, pasteuriz ation of all milk sold for human consumption;
mono-service milk bottles, clean and sanitary city milk plants- the quality of mailk would be
improved faster than where too much time is spent on testing for suspected adulterations H. H. DFAN

## Watered Butter.

We often hear or watered milk, but watered
butter
Census and Statistics Monthly is deserving of some attention. It appears that a good deal
adulterated butter, that is butter containing more than $16 \%$ of moisture, has been lately manufactured in Montreal, and this is strictly
against the law. It is brought out in this item against
that butter properly made should not contain more than $16 \%$ of water, and in most countries this is the legal limit, the same as in Canada. As a rule butter made in Canada does not con
tain more than this percentage of water. but within the last year or two, according to this report, a fraudulent practice has been developed by
unscrupulous dealers, principally in Montreal, of unscrupulous deaters, 30 or $40 \%$ of water to butter, the aduiterated product being sold as ordin
ary butter. The fraud is practiced and the poor ary butter. The sufferers, as it is in the poorer
people are this fake butter is sold quarters of the city that this fake butter is sold. The Dairy and Cold Storage Division of the Do minion Department of Agricuture is the out the evil.
forth a determined effort to stamp out at the time the report was sent to the publica-
tion in question many other actions were pend-

Building up a Holstein Herd. Before beginning this discussion on Building up a Holstein Herd, I wish to call atmust possess in order to make $a$ - success in breeding Holsteins, and if he does not possess these qualifications he better not said, that there are two classes of people that should never go to college. lacking in morai backbone, and the other was true that there in mental ability. As it is ruee that there are certain people who should not there are men who should not invest in higher bred cattle, in fact the scrub, to say nothing of the good grade, is too good for them. They are scrub men with scrub methods, and the scrub cow
is the only animal that will stand their scrub treatment. Do not misunderstand me and scrub because you have not been doing things as they ought to have been done that you belong to thin class, but look about you and see where your and you may find to your surprise that you possess qualifcations that will eminently
for a successful breeder of Hoistein cattle.
First of all, a man should be in love with his best work in a business that he does no willing to sacrifice his is, that a man will or the good of his cattle, and this he will do he is really in love with bis business. He mus be a man that can succeed with grades before he
can expect to succeed with purebreds. The thing to do after a man is satisfed that he io fitted for the business is the getting together the females he expects to use for his foundation herd,
and right here depends largely his future sucThe reputation of one great herd is largely
due to the choosing of Mary R. Pietertje and Daisy Pietertje Hartog as foundation animals. The combining the blood of Lillian Walker and Prilly has produced the
great Prilly fampily, one of the three families on great Prilly fanmily, one of the three ramilies o
the breed that has a mother, daughter and grandaughter, that have each made over 80 Ins. the breed that has six generations of cows that ave records that average over 28 tbs.
Daisy Pietertje Hartoo, bred to Clothilde Pietertije, whose racord is 82.91 tbs. butter for 7 days, and 129.17 mss for 30 days. The breed ing of a son or Aliman Walker upon Mary R Pretertjo, produced Admiral Walker Pietertje and
breeding him to Buttercup Clothilde Pietertje produced Mary Walker Pietertje, record 81.81 1De.
butter for 7 day3, and 180.87 nis, for 80 days. Beauty Pietertje Butter King was also sired by Clothilde Goudgeld Hugo, and was a son a son of Lillian Walker and breeding Beauty
 produced Marion Waiker Pietertje, record 81.68
tiss. for 7 days, and 121 the, for 30 days, or DDs. for 7 days, and 121 nis, for 80 days, or in
other wards, the combining of the blood of the four cows mentioned and the bull, Clothilde Goudgeld Hugo, has produced the only family of
cows of three generatlons that have each cows of three generations that have each mado
over 31 tibs., and also the only family whose 30 day records average over 126 me. In conildering these foregoing reeults, it is very ovident
that the proper melection of thie foundation anithat the proper slelection of thie foundation ani--
mans was absoluty necoseary for their ac-
complishment, although there are many ather complishment, although there are many other
factors entering in, before they can be accomplished.
The care, kandling, feeding, growing and de-
veloping the animals are very important factort entering into the bringing about desired result.5. upon the latter, as I' have heard men say, 'Your success is due to the care you give your cattle. But I will give you an illustration which will prove to you that the breeding of the animal
of even more importance than the care. I will of even more importance than the care. I will
take for example, Joe Geliche Do Kol Burke, the son of Prilly, a bull, that I bred and sold to my brother, when a calf, and none of his daughters
have ever been developed in my barn, and my brother sold them and they were tested by dib interested parties. One being tested by an in experifenced man this
senior four-year-old,
32.88 winter, made, as
mos days and over 126 ths. for 80 days, and two
others, as three-vear-olds. made over 30 each in the same barns, where the daughters the great King of the Pantiacs are being de veloped. One of these was for some time the
youngest 30-10. cow of the breed, and the other this past winter made world' class for 30 deys.
The bull now has firteen or sixteen tested daughters, and I think the average for them ell
is higher than any bull of the breed with that number of daughters.
Another striking illustration is that of Artis
De Kol Walker, a bull bred about the same as
the one just firntioned. He being sired by the of this bull's daughters wele sold to a man in TIdaho who had never had any experience in made over 30 ibs. each, and one of them was undour. our. the smportane the
our foundation toncok

Notwithstanding the importance of the proper selection of the female members of the herd, yet to head that herd. Before a choice is made, a carefult study should be made of the individuality and the characteristics of the females,' and if there are: any delects that are general in the herc a careetur selection of a sire shoul bel made, - strong tendency to correct those faults. Careful study should also be mace of the ancestors of the bull, bock for at least four or five generations, as he is fully as apt and
times think more apt to transmit the quities
mis of his grandsirires and grandams and even his great grandsiries and great grandams, than of his
This is the reason so many
mand own sire and dam. This is the reason so many
peoole are disappointed in the bull they purchase, people are disappointed in the bull they. purchase,
as they buy a bull from some high-record cow Without considering carefully the breeding back of her. People are learning this, as many of the induiries we are receiving indicate, as many of
them are now asking for a bull having $a$ highgrandam, and great granda
does in conneetion with individual characteristics. Ather the selection of the foundation animates, then: oomes the caring for them and ne growing words, it is up to the owner to work with those animals and accomplish the results desired. careful study of the likes and dislikes and quirements of the animals and using judgment in mupplying them is necessary for the accomplish-
ment of the best results. Our agricultural col meges teach us about balanced rations and many facts necessary to know, but no institution o learning can put into a man's head the good, ound judgment that a in order to succeed. To be able to answer ques tions and pass an examination on a subject is one thing, but to make the practical applications of that knowledge is quite another thing, and it is more important that a man should make the that he should know a great many facts and misapply them.
A man, in order to grow into a kerd of large
producers, as I have already shown, must first producers, as I have already shown, must fred them, and then comes the raising of the call and the development of the young animal should never be allowed to stop grow ing from the time it is dropped until it is fully bone and muscle, but never fattened until a ahort time before the heifer drops her first call tored away in the system in order ehat she may have it to draw upon to supply the necessary lat for the large flow of milk we expect her to
sive the first seasom. For it will be impossible give the first season. For it will be impossible "she is forced to manufacture all the fat contained in the milk as she is producing For some time after calving the heifer should
be milked three times a day and even four times is better in order to develop her. She should be fed so as to produce a large flow of milk the
year through, until about two months before she drops her next calf, when she should be dried off and again be fed so as to be built up. ready for
another season of hard work. If this process is continued until the heifer is fully developed it will only take a few such cows to produce as ing.
Do not judge a cow from one or two good
qualities and perhaps those of minor importance to consideration every part of the animal. If you place certain emphasis on certain quat place
tions, be sure that emphasis is in the right great and not do as many are doing, discard a great bull because he has not good rudimentaries or
something similar, things which really are of minor importance.
*There is another thing that even our best
judges are placing great stress upon, that I do not wish to criticize
much stress being placed upon it, for it is only ness, but a lack, if either, in that direction, and that is the straight level back. Now, the idea
that a cow should carry well out to roots of tail is a good one, pelvic arch, and this gives the ani mal the appearance of having a sloping rump. The mammary nerves center in this region, and if there is a $a_{1}$ great preponderance of those nerves the tendency iv ta cause an elevation of that
pearance of having a sloping rump. Of course, ing to the eye, and I would not discourage the effort of trying to breed them that way, providability of our animals. What I have to say applies not alone to the breeders of Holsteins, but
to the breeders of all dairy cattle. Let us ever to the breeders of, all dairy cattle. Let us ever keep in mind that the primary animal that will be pre-eminently useful as a producer of dairy products, and if we fail to do this we are an ing the animal may appear to the eye. The Holstein cow, as we see her to-day, is the result veloument of earnest thought and careful debreeding her, and she has become such a great producer that those of who to Holsteins have a difficult task to perform if we do not breed wisely our breed will become less ratker than more valuable as dairy animals. We owe much to those who have been devaloping this breed for many generations, in that they have been able to hand down to us such a won-
derful breed of cattle, and it is our duty to hand down to our children a still better breed than we have to-day.
(An address by A. A. Hartshorn, President of ine American Holstein-Friesian Association, dur ing Farmer's Week at the Mas
tural College, Amherst, Mass.)

Some Experience With Jerseys. years ago, I have never regretted the courtship She has been my hope, my anchor; she has led
me out of deep waters. Her products contain me out of deep waters. Her products contain
the only natural food for man, all the food nutrients, and properly balanced necessary for
the physical development of young childhood. the physical development of young childhood. any other half dozen productions of the soil, the sea, the air. It is the most palatable of all foods, and the most economical in present mar-
ket prices. The mentality of any nation or peoket prices. The mentality of any nation or peo
ple increases as the consumption of milk inple increases as the to best health and physical development. It has been chemically demonstrated that if one pound of porterhouse ateak is worth thirty cents, a quart of milk con-
tains twenty cents worth of food nutrients. If one pound of round steak is worth twenty cents, pound quart of milk is worth $16 \frac{1}{2}$ cents, and worth $16 \frac{1}{2}$ cents. Milk taken with other foods adds five per cent. to the digestibility of all.
Again the cow giving 6,000 pounds of milk in
one year adds to the food supply of man more than 720 pounds of dry solid matter, all digestible, and the cow left to repeat the operation for many years, and a calf each year to grow into in one year will be less than 100 pounds solid digestible.
the future for the dairy farmer the hope of nothing in agriculture offering equal possibilities to that of dairying. My plea is for the special
dairy cow. The functions of the dairy cow and dairy cow. The are as clearly defined as those of the race horse and the draft horse. We have four distinct breeds of dairy cattle, i. e., Jerseys, along dairy lines for many hundred years, so now
we have this accumulated experience and development to select from. So it seems to me a waste of energy and capital to go outside those four wreenk wher dairy stock, better to take up the I was not reared in a dairy section, and knew
nothing or very little of dairying until I was nearly thirty years old. The farmers' wives all
kept a few cows, none exceeding five or six. The prevailing feeling in that community among men ter belonged exclusively to women. In fact we to milk cows. I imagined it cramped my hands
to milk, and did not get this tired feeling out of my system until I reaiized that my wife was
making more monev from her cows than I was from all the balance of the farm, and I really
had to go to her to borrow money for my perconal expenses and to buy little equipments for
the farm. She would only make the loan on condition that I would help her feed and milk
the cows, and buy more dairy stock for her to make more money to loan me or rather give to
me as she knew I could never pay it back. In fact she never required any obligations from me
She was very kind to me and I soon became inlonger coramped my hands to milk cows. From
1874 to 1880 my wife had among others two especially good cows, of no known breeding.
There was no pure-bred dairy stock in that com-pure-bred dairy cows, but among all very few
better butter producers than those two mongrel-
bred cows. The other farmers' wives in that community thought that if they had as good hutter, and, of course, just as good. We bred
those cows to the best dairy-formed bull we could find. The offspring we could sell for three or four times as much as we could get for those We needed the money so-awfully bad the tempta tion was too great for us, so we soid them. Wre thought at the time we were doing our neighbors the development of those calves into cows-all disappointing-not one of the: heifer calves ever developed into a cow equal to the dam. Those cows were "sports," having nothing back of them to fix their qualities in their offspring.

| In 1878 I became the owner of a registered |
| :--- | ersey bull, cow and heifer calf. They proved to be good ones, true to or superior to the dams Our interests in the dairy cow increased, and we bought as many high grades as we could find and our means wouid permit. The reputation we had gained with our dairy cattle. In 1880 we moved onto a rented arm of 250 acres, about one-third timber, land poor and very poor fences and buildings, with no stabling for cows. We rented this farm for hive years at $\$ 400$ per year cash rent, with permission to go to the woods to cut all the timber

we wanted for buildings for the farm. With two yoke of oxen and a team of horses we went to mill for lumber for a cow stable, which we built hy planting four rows on two-by-four scantling for stringers spiking on two-by-four scantling for stringers
and boarding up and down for outside weatherboarding, we put in rigid stanchions, a platform for the cows to stand a clapboard roof was proThis from the best splitting oak we cou twenty eight cows. There was a good spring, and partly fallen down spring-hause which we patched up the best we could. We needed ice so we wen 12 by 14 feet, by packing about one foot of sawdust around the inside of the walis and against the ice, by giving it careful attention we kept ice all the summer. Whis was our equipment on in this way since then we have had much better buildings and equipments, but never have we attained greater success than we did on tha rented farm. What we lacked in buildings and equipment we tried to make up by close atten
tion to our work. During those first five years we showed some catile at West Virginia State Fair. Some time after this we shipped in two ers in Pittsburg. Nothing was said about prices, but returgs came every month and very much better than we were getting in our local market. After we had been shipping about four months I got on the train and went to see them. that we thought we were trying to do, and and supply in winter as in summer. I emphasized that we were anxious to make a product that would please their trade and would do our very couragement in the way of price, thirty-five cents a pound for all we could make, the year round and I did not have the heart to ask them and
more but thanked them, showing my appreciation. On my return home there was a regular buying wheat, bran at $\$ 8.00$ to $\$ 12.0$ per ton,
and corn at 25 to 30 cents per bushel. Butter at 35 cents per pound was a pretty good proposition. This success took ten years off my life,
and made my wife fifteen years younger. Remaining on this farm for six years, we rented an-
other farm, on which we spent about $\$ 150.00$ in other farm, on which we spent about ${ }^{\text {a }}$. we made a dugout or cave for our spring house,
in the bank below the house low enough so that we siphoned water from a well above. We put in this a butter worker and barrel churn. Butter
made in this little dugout on the hillside shown at the First National Dairy Show, in 1887 in prize in competition with over 200 entries of private dairy butter of the best makes of the
Fast. This again took ten years more off my
my

Twenty-three years ago there was a young Man working in a stone quarry in was a young yand Co,
Ohio. After accumulating $\$ 75.00$ be bought a couple of corvs, and started to peddle milk in a day in delivering that milk himself, attending strictly to his business, and catering to the de-
mand of his customers. The demand for his milk mand of his çstomers. The demand for his at
rapidly increased. He bought grade cows at
firct. first, int replaced them later as lis means would
permit with registered Jerseys. He built modern barns, now owns 225 acres as good farming land harns, now owns 225 acres as good farming cows.
perhaps as any in Ohio, and milks 135 cows
having altogether over 200 head registered

APRIL 23, 1914
THE FARMER'S ADVOCATE
Jersey cattle, all his own breeding except two. I am told that hical way to improve the herd is through the sire. Many in breders is known. Stake fore their value as rer
Pogis 3rd was sold for beef for $\$ 25.00$ before any of his get came into milk. He only got 27 emales, and all mase great records. The bioo
f this bull, now twenty-five years after hisid death if this bull, now twenty-five years arter hisi death
odds to the value of every Jersey tracing to him. I would prefer a bull to improve my herd from 1 woul of ancestry of dams of good dairy confor-
a line
mation' and with modern records of 500 to 600 mation' and with modern tbuter per year, made under conditions that Ibs. . butter per
ali dairymen can apply, than a bull from phenomenal cow, with a record of ictical method of feeding. No family or strain of any of the
breeds has a monopoly of the best animals. Tt: breds has a monopoly of the best animals. Th
great produters are not springing from the phenomenal animals. There is no way yet known to tell the quality of the get of a bull until they come into milk. Hence it is unwise to pay ex travagant prices for an untried bull. All have common in the get of a bull where least expected,
shown ind
and disappointment many times where most is expected.
FFrom an address by, L. P. Bailey, Tacoma,
Ohio, during Farmers, chusettes Agricultural College.J

## Would let Oleo in

Editor "'The Farmer's Advocate like to raise my voice against the new Dairy Bill which you discuss on the first page of your April 2nd issue. substitute be put imitation butter or butce long as it is a/wholesome article of diet and on account of its cheapness can take the place of wise butter or dripping would be prohibitive The only point in my judgment the government have any right to legislate upon is its nomenclature. The word "butter" should not be allowed connected with any of its substitutes, But dairyman as I am, I maintain that no gov
ernment has a right to prohibit the sale of a ernment has article of food for the sake of the
wholesome a dairy or any other interest, so long as that art icle doas not assume to be what it is not.

## HORTICULTURE.

Making Bordeaux Mixture.
Editor "The Farmer's Advocate":
This is the time of the year when the experiment stations are sending out their bulletins re latingito sprays and spraying. There does no appear to be any new fungicide or insecticiae claiming special attention, mphasis on the particularly Bordeaux Mixture
Makers are cautioned triat the potassium-ferrocyanide test only skows whether or not there remains any uncombined copper sulphate. It does not show weak combinations that may break up and perril the copper whe especially in wet, cloudy weather. One experi-
menter aadvises reliance on careful weighing and careful mixing rather than on chemical tests. Wise sprayers will do both, the careful making and the testing. An advised method of dissolving the copper sulphate is to put 50 pounds in a
sack and suspend it in 25 galions of water until it dissolves, one and a half gallons of this strength is ssufficient
of the $3-4-50$ formula.
is so simple a matter as the slaking of the lime is not unimportant. Air-slaked or low-grade
lime should not be used. The best stone
lime lime should be obtained and slaked with the
minimum quantity of water that will complete the process without burning; then it should be watered and stirred to bring it to the consistency of milk when it may be poured into the
hall-volume of water that is to be made up. Possibly still more important is the manner of mixing, say, the 25 gallons of copper sulphate
solution and the 25 gallons of time solution. The solution and the 25 gallons of lime solution. The best way is to run them simultaneously
spray tank in two small, equal streans According to D. E. Lewis the best satisfaction spray when made wip on the 3-4-50 as a formalathage that
is in the is in the proportion of 3 ths. copper sulphate, 4
This. linne, and 50 gallons of water, and applied as a mist. The extra pound of lime in this tonnula it to guard against the burning of the
foliale by any free copper. If an insecticide 9 9s needed, 2 ths. of arsenate of lead may be added
to the 50 gallons of Bor
hang the adhesiveness.
[Note-Full J. DEARNESS.
[Note.-Full directions for making Bordeaux our issue of April 2nd. The old formula 4, 4n and 40 is generally relied upon in this country, but care must be taken to get in plenty of lime, The 3-4-50 formula is an American formula, and n our measure would read about 3, 4, 40, as perial.-Eiditor. 1

## Apple Canker

apple well-kept orchard the many forms of where canker do not give constant trouble, but sometimes difficult to gained a foot-hold it is ly of them, as the sources of infestation have become established in the orchard and in the immediate vicinity. Cankers themselves exist in many different forms, and the beginner might mistake many of them for a simple form of win ter injury. In the latter case, however, the bark does not usually have the same ruffled and black appearance as where canker exists, and in the early stages white pithy substance may often he found under the bark. Cankers theniselves arise from small spores which are emitted from the diseased areas on the limbs, leaves or apples. These gain entrance through wounds and abrasions of the bark, and develop sometimes to a considerable size. Cankers may follow winter

European Apple Canker.
mulletin 223, Maine station.
injury, as is often seen in the crotches of limber and on twigs. The accompanying illustration European Apple Canker. This was not discovered in America until 1899, when it was mentioned by Paddock as appearing in Nov Scotia and the State of New York. This par reme form, hut it is not generally so easily dis treme form, hut does it always appear in this In the control of such diseases the preventive measures should be emphasized. Wounds caused by ladders, harne the spores of the disease and should be avoided. The remedial treatments exst in cutting out the diseased areas back to the healthy wood, disinfecting the wounds and paint-
ing them with paints containing white lead and

ma

## A Guide to Fruit Varieties

 Those who are turning their attention asspecialists to fruit growing, and fermers who, in all directions, are improving their orchards and the old, will, welcome the appearance of a new edition of "Fruits of Ontario" first published in 1.906. The Provincial Department of Agriculture is to be congratulated upon the work which has is to be congratulated upon the work which has foen under expert revision by the Fruit Branch that has been accumulating for a much longer period. The report will be more valuable and highly prized even than when first issued, because highly prized even than when first issued, because
of the keener demand there exists now for specific information regarding varieties and cultural methods, which is a conspicuous and useful feature of the volume. The former issue covered some 275 pages ; the new one extends to 320 pages, and deals with a great many more varieties. Critical readers may discover that some $v_{a r i e t i e s, ~ p e r h a p s ~ n o t ~ g e n e r a l l y ~ a t t e s t e d, ~}^{\text {a }}$ are not yet listed, although highly prized by those who have fruited them under favorable conditions. Great care has been taken in the verification and description of varieties, and the illustrations are superb. Four groups of frults re coveren, (1) tree fruits, apple, cherry, peach pear, plum and quince; (2) grapes; (8) bush fruits, blackberry, currant, dewberry, gooseberry and raspberry; (4) strawherries. Four ideas have been kept in view, viz., (a) the selection of varieties most desirable in given localities of Ontario for home use or market; (b) a reference for the identification of varieties now grown; (c) re liable information as to size, color, etc., and the real value of the fruits, and lastly (d) sufficient cultural directions to make frutt growing a success. The omission of the appendix on spraying which was a feature of the old volume, will be missed, but whether this is due to the changing details in the materials used and process of spraying or because the subject is more fully covered in other departmental publications is not indicated in the volume, but within the general scope indicated by its title the new work is a wonderful storehouse of up-to-date facts about fruits in Ontario that deserves the widest possible circulation. in the field for which it is de signed.

## About Bridge Grafting

Editor
On page 682 in the issue of April 2nd J. M B. states that he has an orchard girdled, and asks for a remedy. Ais I have had considerable experience in bridge grafting $I$ will endeavor to explain my method, hopin

Trim the ragged bark from the upper end an ren and lower end of the girdle. Then run the blade of a knife up under the bark and down under the bark about and and an you enough to fit augly under the bark both top and enough to fit snugly under the bark both top and make little longer slant on the side that is to be placed next to the trunk of the tree. I place the scions about half an inch apart all around the tree, where they soon form a solid bark again. Next take a soft string and tie it carefully and snugly around to hold the bark of the tree firmly down on the ends of the scfons. If the tres is girdled higher on one side than the other cut the scions to suit the length of the girale, and use more than two strings if necessary. Neat take some grafting wax and put a band of wax aroind the tree at the top end and lower ond of the scions, sufficient to cover all splits in the bark of the tree and lap it down over the ende of the scions.
I prefer to bank the tree with earth about three inches above the top end of the scions. This holds the moisture until the tree gets nicely growing again. Banking should be carefully removed in July. I might add that I have
treated a great number of trees in this way, and only lost great num they were not banked with only lost two and they were not banked with
earth, and the summer following the operation. was extremely dry. THOMAS SHOBBROOK.

## A Mixture Which Stuck

 A few interesting paragraphs recently apthese have been reproduced in the Weekly Report of the Department of Trade and Ceeky Report Canada. It seems that someone in the Old Land found a greenish deposit in the stem of some apples. Some of these apples were taken to an analytical chemist, who found that the deposit was copper sulphate, also some mixture of lime.The apples carrying this deposit were imported from America. Spraying must have been very thoroughly done in the orchards from which these apples came to get the Bordeaux mixture to tick so long.
The apples were reported to be of excellent quality and flavor. The article went on to say rank poison, and this of a partially cumulative character on fruit largely eaten by children, is so grave a public danger that the analyst sought the stated that apples having any sign of green deposit in the stank cavity should not be eaten unless peeled, and that surely some steps should be taken to stop the importation of fruit'thus dangerously contaminated. After an exhaustive ex-
amination of the apples on the English market amination of the apples on the English market at
the time, the faot was revealed that the only variety affected was the Albemarle New town Pippin. Itiwas further pointed out that all that need be done where such a deposit was found on the apples was to carefully wash them and peel
them. In any case a peeled apple is quite safe. We hope that the publishing of this informagiving their trees a thorough drenching with either lime sulphur or Bordeaux mixture in proper season. There is little danger from poison on the apples when spraying is properly
done in season, and there is generally more trouble in getting the material to stick than must have been the case with the apples,
mentioned by the British analyst.

## POULTRY.

## How the Competition Stands.

 The report for the twenty-second week of the Egg-Laying competition has a different aspect than did that of the nineteenth week. In the nineteenth week only one pen had a record ofthirty eggs. Readers will remember that five hens constitute a pen. In the twenty-second week seven pens gave thirty eggs per week, while four pens produced thirty-one eggs during the
week. Those breeds with the thirty-egg record week. Those breeds with the thirty-egg record
are Columbian Plymouth Rock, Single-Comb Rhode Island Reds, White Leghorns, White Wyandottes and Buff Leghorns. The two breeds producing thirty-one eggs per week
horns and White Wyandottes.
horns and White Wyandottes.

22.4 eggs per week during the competition. The White Wyandottes hold premier place, and are Rhode Island Reds by Single-Comb White Lep horns. The advent of spring has placed a dif ferent aspect on the competition. The beavier
breeds which excelled themselves during the win breeds which excelled themselves during the win weekly records by the lighter and egg-laying hreeds. Whether or not the Leghorns can, dur ing the summer, overtake and surpass the heavie breeds still remains to be seen, but the lead overtake if an average good egg record be maintained.


A Dual-purpose Hen.
She lays in winter as welf as in summer, and raises
some choice young birds for the table.

## Foreign Egg Products.

The steamship Empress of Asia, unloaded at Vancouver. during the early part of March, 12 ,
ono cases of eggs, shipped from, the
Orient, 6,000 cases of which were consigned to San Francisco, and 6,000 were for the Vancouver market. They are being sold at a profit for
20 cents per dozen, having cost 10 cents or dozents originally. The removal of the United
dit

States tariff allows the incoming of Orienta eggs, which exportation from China amounts to however, $\$ 1,000,000$ annually. The industry there, eggs are usually smaller than those produced in America, and if the demand for their product increased, an immediate rise in price would be en countered.
The Go
port, Grievernor of Hong Kong, in a recent rewhich is being outlines a system of curing eggs factories in that country twenty egg-product gets only a small percentage of the output, yet, the possibilities are that the product might but utilized here in the place of some of our cheaper grades of eggs. In the finished form it is very
much condensed by leing sulmitted to the folmuch condensed
lowing treatment :
'The eggs are broken by native women whe separate the albumen from the yolk, the albumen being placed in one receptacle and the yolk in another. The accumulated albumen is then placed in a barrel and slightly beaten, so as to open and to mix it thoroughly. It is then poured into another barrel through a strainer, which separates parts of the albumen. The albumen is
then allowed to stand for from one to four then allowed to stand for from one to four
days (according to the season), until the foam and smali skins have come to the surface. This period of clarification varies with the temperature of the weather. It is then withdrawn from the barrel through a spigot at the bottom and poured into zinc pans, about 12 inches square,
which previously have been rubbed with tea oil olve oil, or vaseline. The pans are then put into a hot room, in a temperature of about 130 degrees, and remain there for about 30 hours, when the albumen is completely dried. The
allumen is then allowed to cool in the dry altumen is then allowed to cool in the dry air,
after which it is packed in paper-lined tin boxes piaced in wooden cases, when it is ready for
shipment. The egg-yolk has in the past usually shipment. The egg-yolk has in the past usually
been shipped in liquid form, the yolk after being separated from the albumen being well beaten and placed in a cement-lined tank for about three then placed in casks and is ready for export. The egg-yolk is now, however, being dried in similar treatment of the whole egg is being in-

Spring Chick Those interested in early chickens on the farm will soon have many young charges to take care of. The early part of the chicken's life is
ordinarily the time when greatest care is necesoranariy the time when greatest care is neces-
sary. Young chickens must have plenty of ground range and if green feed is convenient so much the better. This is what makes the rearing of poultry amongst fruit trees or in a corn field so productive of good results. With this
insects go a long way to supply necessary rainsects
tions. $\begin{aligned} & \text { go a long way to supply } \\ & \text { The poultry raiser } \\ & \text { must }\end{aligned} \underset{\text { avoid }}{\text { aver }}$ overcrowding during the cold, damp nights of spring. Very often too many chickens are huddlod into very small quarters and disease soon develops and cuts a big hole in the flock. If the lirds
are housed at night they must have plenty of are housed at night they must have plenty of
fresh air and in) laying out their runs over which they will forage during the day avoid as much as possible old runs, that is those which have been used for several years for the purpose of
raising chickens and by all means allow plenty raising chickens and by all
of space for the youngsters.

Where only a few chickens are natched and being allowed to each hen, after the chickens are a few weeks old it is generally advisnale to let the hen have free range with the young bird.
Where large numbers of hens are kept with young birds it is often more advisable to keep them confined until the young chickens are taken away from been brought into use and brooders are being used to cover the chickens during the cold, damp nights some attention must be paid to these in order that the temperature is kept up to a suf-
ficient degree. About 95 degrees should be warm enough. As soon as the chickens are taken from the incubator or from the nest in which they are hatched they should be placed on clean ground, upon which no chickens have been ranged during That season. For three or four weeks the rance that it be clean and fresh. A cultivated piece of ground is the best place for them; especially is Chis so after some time late in May. It is the
advisalle to provide a little green food near the runs, as lettuce, rape or some such material. Avoid placing the chickens, aspecially iater cn no
the season, on an old tough sod and under no conditions place late-hatched chickens on the the earlier-hatched broods.
Many people make the mistake of crowding too much feed into the chickens at too early
age. $A$ chicken should get nothing whatever in ace. A chicken should get nothing whatever old.
the way of feed until it is thirty-six huours of the
bowel trouble and diarrhoea which carries off or weakens so many of the brood, especially those
lacking in vitality when leaving the shell. If the chicks are kept in a brooder 'which is temperature about, one degree a day beginung after the first weok. It is estimated that $e v$ temperature of that brooder about one degree so care is needed that the temperature does not - Grama

College neports the best success on Atarting chick College neports the best success on starting chick-
ens on hard-boiled eggs finely' chopped. with the shell included with bread crumbs about four parts by
weight of bread to one of eggs. This mixture is weight of bread to one of eggs. This mixture is
fed dry. After the first two days they' feed a fed dry. After the first two days they feed a oat meal 30 parts, small carts posed of these materials is suitable for the first 8 or 10 weeks. At first the chickens are fed
five times a day. After a few days, however, it is not necessary to feed more than three feeds also allow one feed of bread and milk. In this feed the bread is squeezed out dry and crumbled and it is also a good practice to give in addition a feed of whole wheat or perhaps a mash made of equal parts of bran, shorts and carn
meal to which, has been added about ten cent. of animal or blood meal. Green food, of course, must be supplied and for this there have been recommended through these columns several
times such substances as lettuce, sprouted oats, cabbage, rape, etc. After the chickens reach by feeding more than three times a day. mash food can be given in the morning, who
wheat and cracked corn at noon and night earlier the chickens are hatched the more care in feeding necessary as the range is usually limited

In order to save labor it is advised to use the hopper plan on farms. Place the nopper or
trough in the open with the chickens and if they have free range they will do very well running to the hopper and feeding themselves. A hop-
per with two sloping sides generally feeds better per with two sloping sides generally feeds bet
than one with a slopping on one side only. Do not forget that much of your success de-
pends on a good supply of fresh water. Keep and drinking vessels thoroughly' cleaned and supchickens grow if you have a corn field or a cultivated orchard or some such place it will facilitate matters greatly, if you move them out to one of these, fields in a colony house and al-
low them free rânge throughout the summer feeding them by the hopper plan

## FARM BULLETIN.

Horse Shoers Want Better Shoeing. The Master Horse Shoers' Association of On-
tario met in annual convention at London, on April 13th to discuss, the various phases of their business, and bring about measures, that will
raise the standard of the profession, and the proficiency of those engaged therein. The function of the convention is to raise the standard or horse shoeing rather than to discuss details o the practical operation of shoeing. One imporbefore the Minister of Agriculture, which aims at
increasing the proficiency of horse shoers throughincreasing the proficiency of horse shoers throughout the Province by training them in the know-
ledge of the foot and limb of the horse. It is dised that they take a course in the Ontario
Veterinary College before they enter into active work. In some States of the Union and in the Old Country a horse shoer must have a cer-
tificate and training before he can advertise himself as such. This measure now in consideration equal standing, and ensure more uniformly good It is proposed that all those wishing to learv the business of horse shoeing should spend at
least two and one-half years with a licensed horse least two and one-half years with a licensed horse
shoer, and at the end of that time he should
take tario Veterinary College, upon the anatomy of
the logs, hoof and foot of the horse. Practical wo legs, hoof and foot of the horse. Practical
woek in turning and fitting shoes to the horser' leet should lectures. It is proposed also that all practicing
horse shoers shall be licensed with a fee of $\$ 2.00$
annuall. annuall, and no unlicensed horse shoer should
be allowed to take as an apprentice any person wishiny to learn the trade. An examiner should
be appointed by the Executive Committee of the Assopniantion to conduct practical examitee of the
each torwn in the Province. Each person now
now carryine on business as a horse shoer must, if
the bill becomes law, pass this practical examination, hit every horse shoer holding a certificate
in the Master Horse Shoers' Association of On-

Association upon furnishing evidence of having
sutticient sufficient experience may escape the examination payment of the prescribed shoeing upon Horse owners throughout recognized for some time the fact that some the men upon whom they must rely to get their horse shoeing done know very little about the by improper shoeing, due to a lack of knowledge on the part of the shoer. If the regulations, as proposed by the Horse Shoers' Association, bea better class of shoers and shoeing, they towards serving of support. So often ho they are deadded proficiency is obtained prices for the work go up sometimes almost out of reason. We hope that the Horse Shoers' Association has the good such legislation, and that they do not hope to be able, if they should get their proposed bill to become law, to set an almost prohibitive price
on the work they do. Better shoeing should re-

## The following are officers or the Association

for the ensuing year:
President, T. R. Degier, Toronto ; Vice-Presi-
dent, F. I. King, Aylmer; Second Vice-President M. S. Doneghue, Peterborough; Third Vice-PresiWalter Roberts, Hamilton; Treasurer, John Gar ner, Brantford;, Organizer, George Church, Hamil ton; Board Managers, Pat. Wherry, Hamilton Next year's convention will be held at Peter borough.

## Peace or War?

## Editor "The Farmer's Advocate"

If the worlid is to have peace why build arma-
ments? If it is to have war. what ments? If it is to have war. what is to be the
limit of armament building? These are momentous questions, the full mag measure. (These are quastions which vitaliy con cern every individual, and which every, sane man and woman must consider. Nav, more, is it not
the duty and the privilege of the citizen no less than the statesman to assist in solving the problems involved? Here are problems for the na-tion-for the world. The largest and brightest minds have pondered them, the tongue of eloquence and the pen of pawer have brought the
vast outlines of these problems somewhat into relief, but they are not solved. Solved, however,
they ,must be sooner or later. and for the debasethey, must be sooner or later, and for the debase
ment or ennoblement of the race. The demon of war confronts the angel of peace. The one has strewn the pawh of man
desolation,--has made him despoiler or despoiled or held him enthralled; the other proposes an open pathway to the best the world can affordto reward for peaceful work, untaxed, unmenaced
by armaments. Where shall the tax and menace end if the war spirit prevails ?
War, alwavs paralyzing to peaceful art and War, always paralyzing to peaceful art and
peaceful life, is becoming more and more paralyz ing and appalling in the ratio of the unspeakabhy more colossal power of modern equipment.
If the forces of Wellington and Napoleon at Waterloo could, in the words of Victor Hugo, mean ""a change of front of the universe." what may not yet mean the coming together of contending dreadnoughts and airships? The pon-
derous guns and shells can well be conceived to derous guns anc shock and shatter the order of things as to throw industry into confusion and wreck the commercial world. Not much effort of imagination is needed to predicate possible serious perturbation of the physical world due to dynamic effects. most ingenious mechanical and mathematical powers of man destructively employed !- the better man subser
low ambition.
As the lower and higher nature of man. so
war and peace are opposite and repellent poles.

The interval between them is as that between and and earth; the antithesis as degradation ployed exaltation. Would not men be better emother instruments swords into ploughshares or other instruments of the arts of peace than
building dreadnoughts? Has not reached a stage of his evolution when all questions and claims could be adjusted by quiet deliberation and in terms of peace? What aбout the feasibulity of a great international or world conference with a view to a permanent basis of
peace settlement? Is such a conference possible before more th is such a conference possible logic should reach truer and better results than shot and shell, and by a better method. Moral and intellectual force should be effeetive in suh-
duing the 'savage design in supremacy and aggrandizement through paths of biood. Has the era not arrived for the in auguration of universal empire of peace? Potential, assuredly is a world congress on this ques-
tion of vast human interest, and become when a concurrence of desire malkes it will May the powers that be consider and press peace overtures with the promptitude and magnanimity
demanded by the greatness of the crisis. May demanded by the greatness of the crisis. May
the devastating power lurking in the dreadnought the devastating power lurking in the dreadnought
and its ominous shadow pass from our world.
Kent Co., Ont.

## An Open Letter From The Friends"

Friends apen letter addressed by the Society of ion Government, Colonel, the Hon. Sam. Hughes, Minister of Militia, and the People of Canada. $\$ 2 \mathrm{The}$ Dominion Government proposes 10 give $\$ 2 \mathrm{~s}, 000$ towards a celebration of the "Contury of Peace" between Canada and the United States vast sums spent to foster the war spirit. However, we are not complaining about the amount. How is it to be expended? We hear rumors of a great military display. We hope rumor is fulse strongly denounce such a proposition as plaring ly unfitting. It is proper that the hundred years of good-will should be celebrated by things that stand for good-whl, and not by the things thas stand, for twar. If we want peace we must foster the peace spirit among our own people, among proven false the statement that to insure peace we must prepare for war.
preparation is disastrously true that the vast armed nations of Furope, makes by all the grievous burden, and keeps the common a in eternal poverty and slavery.
The building of an international bridge between the two countries, and by the two countries, has been proposed as a fitting function for such a celebration. That certainly commends itself as mors appropriate. We favor the idea.
And when completed, let the chief Executors of each nation meet in the centre with the warm hand-clasp of friendship. That would be an object lesson worth while. It would be a permanent monument reaching down through the years, tury of peace and good-will.

If a bridge is not needed, a compact might be amicably perfected to open up an international waterway, sufficient to carry the largest ocean vessels from the Atlantic to the heads of, our great inland lakes. An international bridge, or an international ocean vessel waterway, would symbolical of trade and traffic, which have played so large a part towards eliminating war he-
tween nations the world over. $t$ ween nations the world over
We beg to say a word in regard to militarism in our Dominion. We would look upon. its


Doing Two Men's Work
motars would ever be, in the least part, realized. As it is we deplore the spending of so much of
our money uselessly and foolishly, money which we need for our country's'development along natural lines that make for a truer national greatness and permanency.

We also protest against military training in our schools and colleges, on the grounds that it
tends to take our boys from the farms, where they are so greatly needed, draws them where rom the pursuits of peace, initiates them away he ways of vice, and instills into their minds a ham glory and a false patriotism.

It is encouraging to note, on the other hand, the forces that are making for peace. Every agricultural paper published in our land is dead against war. and the preparations for war, or rather alive against it. Labor unions denounce it. The laborer and the farmer, who generack, not for a higher wage, but for a holier calling; not for a higher wage, buck to the infamous slaughter; struck, und

The young men of our Society, the Society of Friends, would sooner go to prison, (they did of
old-they are doing it in Australia to-day) than old-they are doing it in |Australia thoday than fellow being. By our Society all men are brothers, with a common Father, whose love flows equally to all. We take the Sermon on the
Mount and ask what its Divine Author Mount, and ask what its Divine

This militiamania epidemic will pass, like many another plague and pestilence. Those
beautiful and substantial armouries in a few years, will be turned into fireballs and school houses, for in this Canada of ours, right must prevail, the Price Peace shall rule.
May all good peop
Signed on behalf of the Friends at Coldtream, Ontario.

## The Science of Political Corruption

[At the present, stage of the fight, which "The
armer's Advocate"" and its able correspondent, Peter Farmer's Advocate, and its able correspondent, Peter
Ycatthur, have been waging in the interests of the
people, the following article, by Peter McArthur (with the necessary alterations to apply to Canada), and which appeared some istule
For some years past the magazines and news-
apers have been publishing scathing exposures of political corruption, and yet the public does not seem to be convinced. If the decent peopp
of the country really believed the stories tha are told, with such a wealth of damning er
dence, they would $\cdots$ Ere this . . have fatte all the region's kites'" with those who are cor-
aupting the electorate and subverting the will of rupting the electorate and subverting the will the
the voters. The trouble seems to be that he significance of the exposures does not gest voter
to them. It does not occur to the honest voter in Toronto that he may be in any way responsi-
ble for the political conditions in Montral., or to the voter in Vancouver that he is to blame
The trouble has been that the exposures have all been local and the principles involved obscured hy accounts of personal graft, deals, and the
pernicious activities of rapacious corporations. pernicious activities of rapacious corporations.
For this reason it may not be unprofitable to attempt a broad review of the principles of attempt a boad
political corruption as they are at present ap-
cond plied. Students of pathology tell us that even
the most loathsome diseases have an orderly deveiopment that is just as interesting to the study of political corruption reveals the fact that however much local conditions may vary a few simple principles are involved, and perhaps if
these were properly understood it would be easier in find and apply remedies.
almost axiomatic in their simplicity, and for that reason they are seldom considered worth dwell-
ing on by writers who are excited by the specific ing on by writers who are excited by the specific
cases to which they are giving attention. All who are engaged in practical poiitics understand
them and apply them in their work; but it is surprising to find how ignorant the average voter
is of the means by winch his political activities are rendered absurd or made to have the opposite
effect from that intended. One does not need to of the voters of the country are honest; they also know that the vast majority of their neightors are honest and are consequently bewildered to
find how helpless they are in trying to effect reforms. They know hey ar they' do not see that at every enection, rests at their own doors. It partisan is the greatest asset of the political cor ruptionist. It is because the majority can be
hundlod without heing bought that it is so easy handled without heing bought that it is so easy

## of honest partisans the easier

The great danger of malki
The great danger of making sweeping statements about buying elections is that they dereat
themselves by their vagueness. They suggest a wholesale corruption of the electorate which even the most superficial observer knows to be untrue. The trouble is not that the privileged classes buy so many. votes, but that we make it necessary for
them to buy so few, By our faith in parties them to buy so few. my it ridiculously easy for those who wish to control the legislative machinery of the country to attain their ends. I doubt if there has been an bonest election of any
importance in either the United States or Canada in the past twenty-five years, and yet I have been assured by skilled and experienced politicans that, taking the country over,
First : not one voter in fifty sells his vote in
proached by bribers. or soes any real evidence that money is heing wrongly used.
The vast majority are justified in helieving that every election is decided on its merits, and party to which they give their allegiance is corrupt. As a matter of fact there are very few really bad men in public life, though there are men. It is nonsense. to charge wholesale corruption in an election whose result does not please us. The day of wholesale corruption is past. Leaving out the honest voters, I Ioubt
if more than a small percentage of those who are eager to sell their votes in a general election ever get the chance. Their votes are not needed. The work of swinging an election where all the people are engaged is too expertly done for any
money or wickedness to be wasted. Thanks to money or wickedness to be wasted. Thanks to
the straight party man who can always be relied the straight party man who can always be reited
upon to vote the party ticket, political corruption kas been reduced to an exact science. Every dollar is placed where it will count, and the wonderful thing is how few dollars are needed. In
local elections the case is somewhat different and corruption may be more rampant, but the priniples involved are the same.
Without referring in any way to specific elec tions, let us examine briefty how our election maLiberal and the Conservative. Theese parties differ radically on several important points of
public policy.
Because of this each can clain the honest support of a great number of thinking men. Add this to the number of those who are either Liberals or Conservatives "by birth" and
think it is a disgrace to go back on the party to think it is a disgrace to go back on the party to
which their fathers belonged, and we have the great mass of voters normally divided into two hostile camps that can be depended upon to vote in the same way in any election.
But besides these party voters we have a
small class of voters who are either independent smant class of voters who are either independent
or indifferent or corrupt. Although the number or indifferent or corrupt. Although the number
of voters in this class is small, it is usually can be secured for the election. If its support win. If it can be secured by the Conservatives,
the Conservatives will win. those who wish to control the elections pay no attention to the straight party men. So long as useful only inasmuch as they reduce the number paign whose votes must be secured by the campaign managers. Every campaign really centres
around the class of voters who do not helont any party. The honest independents must be
won by eloquence and sound arguments, and the indifferent and venal by influence or money. Rut all the independents or indifferents or
bribe-takers are not needed to swing an election. Our partisan politics works out so beautifully that only a small portion is needed. A majorthem, and are not to be blamed if they join the honest voters in saying that no money was used.
Their corrupt votes are not required Their corrupt votes are not required. In order
to understand how this is possible a closer glance at the working of our electoral machinery. Under present conditions our con-
stituencies are marked off without any reference, except for gerrymandering purposes, to the num-
ber of $I$ iberals or Conservatives there may a given constituenco. The only thing considered
is the needful ponulation. The have many constituencies where the I, iberals are in a vast majority and others where the Con-
servatives are similarly placed. Now let us proceed with the work of eliminat-
ing unnecessary votes. ng
normal majority of, say, a thousand, it would be
useless to try to swing this election, for no normal constituency has that number of corrupt
voters. Where there is an overwhelming Con-
Con Servative or Liberal majority it is useless to try
to do any swinging. To get control in Parlia men party in power. The consequence is that in in
one pater a general election all the Liberal and Con-
servative strongholds are crossed off, and the
scattered constituencies. In these the straight Liberal and Conservative voters are crossed of and the campaign confined to the class that may
be influenced. In each of these close constituencies the capture of a hundred votes will usually suffice to swing an election., No money practices, but in the close constituencies it is possible to pay fancy prices for votes if there is a sufficient campaign fund. If only one party is
provided with funds the amount required would be merely a triffe to a giant corporation would bination of corporations that wishes to secure special privileges for raiding the resources of the country. With a grateful party in power they can quickly get back their expenditures many
times over. And they do not need to mak times over. And they do not need to make, the
necessary arrangements with the individual members of the party in power. All they need to do is to make the proper deal with the "prac tical men"" of the party, and the majority of the
members of Parliament can be depended upon to members or Parimament can de depended upon to "jokers" that are slipped into the laws to pay pokers that are debsts usually look very harmless until they have been interpreted by the courts. No man need go back on his party because of them. This unwavering fideenty give corruptionist a chance to do further effective and clean work He is never afraid to see men of tried honesty and high principles nominated for office. Instead while they are denouncing all kinds of political crookedness on the platiorm he and his silent cohorts go about buying the necessary votes to elect them, secure in the knowledge that they wil always vote with their party when elected. Much politicians hamor one hears among practica who owe their positions to corruption. A case in point is that of a member of the Supreme Court of a western Province who began his career by running for Parliament. The story was told
to me by one of the workers who secured his to me by
election.
"One day the candidate met me," said my in
formant, to whom I had been introduced by formant, to whom I had been introduced by practical
fidence and hegan to talk as one briber might to
another, "and asked me how things were going io another, "and ask
" 'Fine,' I replied. 'You will have a good ma jority there
'Wh'I am not surprised,' he said enthusiastically. When I was speaking there I made the best speech that I made The worker nudged me as he said: "It cost
us just seven thousand dollars to win that particular district for him, and he thought his speech did it.

No matter how amazing may be the corrupcourt of investigation, it will be found that it all springs from the ease with which the balance tend. Careful investigations and practical politicians agree in placing the corruptible vote of the country at two per cent. of the whole.- But as things have developed it would be better to say would be necessary to corrunt only two per cent. to swing a general election. of course in the constituencies on the firing line the percentago lowered at once greater, but the percentage in stituencies that are party
corruption is
Of course the natural result of this extraordinary value of the corrupt vote to to those who wish
to control elections was to induce the venal voters to be organized so that they could secure the full advantage of their strategic position.
In the cities political organizations that could secure favors for the floating, corruptible voters became inevitable. In almost every case they charitable form of an amazing and hideous thase organizations wherever they exist is the very breath of their being, even though it takes the form of furnishing free whisky to the fallen sours of society who have lost all except their a bitter irony of fate our free institutions can be controled
those who prey on it. By banding together, or rather by following some leader who can dole out to them the means of debauchery and protection Or misdeeds, they can subvert the will of the
ninety eight per cent. of decent citizens who put ciples of vern discuss abstract justice Their leaders are quickly able to entrench themselves and increase their misbegotten charities by getting their own creatures appointed to office,
and in that way securing control of the police and the administration of justice in the courts. The conditions that prevail in organizations of ieaders of political gangs to normal minds. The are true philanthropists to their wretched fol-
the only persons who stand between them and the No one who stadies these eonditions can help that subvert elections are in their nature a just which it has treated those unfortunates who are unft for the struggle of life. Their misfortunes
lorce them to grasp at the only straw that is force them them, gnd instead of denouncing them in unmeasured terms we should rather aim by of the miseries which force them for self-protec-
tion to run the courses we denounce. The forces that give power to the political oosses can
> know not whether laws be right
> Al that we know who lie in gaol
> All that we know who lie in gao,

And they know from bitter experience that the them or open the doors of their prison house is the poititical boss at whose bidding they are will-
ing to vote, to repay him for his Christian eharity. It would be much better for us to un-
derstand these conditions than to denounce them. With the rise of the great corporations that need special legislation to secure for them the privileges they desire, the corrupt leaderis with greater prices for their influence than they could extort from the ordinary campaign managers who
were willing, for the benefit of their high-minded party organizations, to stoop to deal with such the magnates of business life and the big bosses who carried out their will came into being. By were able to take command of the parties and the had to conie to them hat in hand. With the advent of business men came business methods, and the corrupt organizations have been more
akilfully managed than any political organization of decent citizens that has ever been developed. Rolitites of the study of decent citizens. And all The while the honest partisans have stuck to their parties and helped more than any of them With all voters honest, or in a position to be honest, the party system of government would be
admirable, for it would at all times have the Government checked and critieised by an honest and decent Opposition; but as matters have de-
veloped it has become nothing short of a crime cuption possible he should bear the me makes cor least share it with the weak or wretched people who sell their votes. One amusing outcome of the power that has been gained by the corrupt
elements of society is that in some cases they ave temporarily put an end to corruption by could not afford the prices they insolently domanded which shows that if als oters we the
rupt the evil would destroy itself. It is the ex istence of the unwavering partisans, reducing the
number of those who must be corrupted, that possible and proftable. While the vast majority are sufficiently partisan to allow the balance oil power to rest with the corrupt, corruption will
continue. The science of political corruption has been developed to a point where it can be de
feated only by a new conception of citizenship. pose of this may be attained it is not the purpose is to lay the blame for existing conditions
where it really belongs, and that is at the door how his house is to tisan. Let him bethink himsel are alike capabele of being contralled by the com-
bination of the underworld and the Higher
and Sphere of Finance. Between these upper and
nether militstones of corruption the rights of the people are being ground to extinction.

## Must Confine Bulls or Pay the

 Penalty
## At the various breders' meetings held in Tor- onto early in February one of the main subjecte

 or discusion was the nee of more stringentrepulations




 the Legislature in due time. Under it the owner
or occupant of any land who allows any bull un-
der his charge and lape der his charge and keeping to roam at large or
be of his premises, not being confined or lead by
a halter, shall incur, a penalty of $\$ 25$, recoverable ander the provisions of the "Ontario Summary
under onvertions Act." And in case a pure-bred cow
Conver
is got in calf by a bull running at large, the Board such evidence of the breeding and ownerfrome of the cow shall be entitled to damages large to the full extent of same.
This Act applies to all Ontario with the exthe Provisional County of Haliburton Stack owners will read with much satisfaction this announcement. Those having cattle damaged now

## The Meadowbrook Dispersion Sale

 An ideal spring day and the roads in perfectcondition coupled with the attractive quality of the Shorthorn and Holstein cattle to be sold Was the combination that drew a large crowd to the big dispersion sale of the Shorthorn and
Holstein herds of Meadowbrook Farm at Whitby Ontario, on Tuesday, April 14th. The sale was ing well provi and the comfort of those attend overhead and dry condition of the ground under loot kept the crowd at the ringside from the Maw of Whitby until the last Shorthorn passe E. Robson of London. The entire sale made total of $\$ 7770.00$. Twenty-four Shorthorns selling for $\$ 4085.00$, an average of $\$ 140.87$. The highest price for a female was $\$ 250.00$ and the
stock bull, Imp. Bullrush sold for $\$ 350,00$ Twenty-four Holsteins eight thor $\$ 350,00$ ves, sold for $\$ 3685.00$, an all-round average of $\$ 153.54$. Fifteen females averaged $\$ 197.33$ eight of thein going for $\$ 200.00$ and over, highest
price $\$ 295.00$. The stock bull, Francy Bonerges price $\$ 295.00$. The stock
Ormsby sold for $\$ 420.00$
The following is a list of those selling for $\$ 100.00$ and over with their purchasers :Beauty De Witt; C.. Grimsley, Eglington, $\$ 190.0$ Mercena Pietertje De Kol; C. Grimsley, 225.00 Content Houwtje De Kol; C. Grimsley, Rock Maple Alice; A. Shaw, Bobcaygeon Evergreen's Maggie Keyes; C. Grimsley Edmonton Alta Kol; B. A. Holgate
alinda's Bonnie Lassie;
Calamity Lady Alice; C. Grimsley,
Francy Bonerges Korndyke; J. H. Mc-
Laren, Ottawa,
, ${ }^{-1 . . . . . . . . . . . . . . . . ~}$
Sir Colantha Abberkerls De Kol; $\mathbf{0}$.
Grimeley,
Centre View Gentle Canary Norine;
J. McLaren, ........................
Pearl Korndyke Houwtje; B. A. Holgate
Pearl Korndyke Houwtje; B. A. Holgate
Evergreen's Elder; C. Grimsley', ...........
Countess Posch De Kol; B. A. Holgate,
Fanny Meadowbrook 2nd; H. Pettit,
Fanny Mreem
Fannie 5th; H. Pettit,
Roan Daisy; G. Graham, Port Perry....
Fanny 11th; O. Downey, Myrtle,
anny 11th; O. Downey, Myrtle,
Blanche Gem; C. Grimsley, .................
Blanche Gem 2nd; O. Downey, Myrtle Blanche Gem 2nd; O. Downey, Myrtle,
Marie York; Birdsall \& Son, Birdsall, Mrimula Prince; N. Brown, Ashburn, .. Daisy Delle 2nd; J. White, Brooklyn,.. Bullrush; R. M. Forbes, Montrose, Fair Girl; C. Grimsley,
Fanny 12th; C. Grimsley,
Fanny Meadowbrook; C. Grimsley, Marina; J. Leask, Taunton,
Fair Gem 3rd; W. C. Ashton, Bowman-
Daisy Belle; C. Grimsley,
Mary Morven; C. Grimsley, .....................
Mary Scott; F. Hatch, Whitby, ..........

Fannie 4th; F. Hatch, .........
The Stallion Act Amendment Makes Inspection Compulsory
During the past winter there has been a great deal of talk among horsemen of the Province re cate" opened its columns to correspondents who discussed all sides of the question. It was quite apparent that the Act, as it then stood, was not owners. The original purpose of the Act was
not so much to satisfy all owners of stallions, but to aid the Ontario farmer by assuring him
a.better class of horses to which to breed his

The Minister of Agriculture had the matte laid before him by the horsemen, and last week stands. Previous to this amendment inspection was optional. One of the main clauses of the
amended bill makes inspection compulsory. The time and piaces of inspection are to be fixed by persons owning stallions must submit to the
a report of the inspection to the Board.
The first inspection after a stallion is eight
years of age, according to the Act as it now years of age, according to the Act as it now
stands, is the last inspection necessary, This ge limit is reduced to seven years, so that a man having a stallion seven years or over wity inspections of horses under this age stand for vo year
In the discussion of the Act it was brought tion of the scrub, grade horse. Accordingly the amendment states that after the first day of August, 1916, no grade stallion of the scrub
order, that is having diseases or malformation order, that is having diseases or malformation
mentioned in the regulations, shall be allowed to stand, travel, or be offered for service, and after that date no fee shall be collectable for the ser vice of such a horse. Going further the amend1918 , no grade stallion of any kind shall be allowed to stand, travel or be offered for servic in the Province, and after that date no fees horse.
The fees to be paid the Board for inspection transfen certificedes from $\$ 1.00$ to $\$ 3.00$, and fo cording to the amendment it will be possible to reduce the number of inspectors from three to on August first, 1914

## No dout

on the neubt there will be considerable discussion on the new amendment, but it now looks sures to drive the inferior, scrub horse off the road entirely. This should be a good thin
the horse-breeding industry of the country.

## Conditions Fairly Favorable in

 Middlesex.Editor "aThe Fermer's Advoceto
Farmers in Middlesex County. Ontario, hav been anxiously waiting to get or the land, but
at the time of writing, April, 17th, some of them in the lighter sections of the country have com menced cultivating and sowing. of the present week there will be very little the end the ground. The weather the past few days has warmed up considerably, and prospects are now for a good spring. The greater portion of the ploughing was inished last fall, and thus the work this spring. We notice in some sections, however, that the land is badly run together. This is rather difficult to account for, because
there was comparatively little snow during the there was comparatively little snow during the
winter, and the frost had plenty of opportunity. to get in its best action, and up to the present, we have had no very heavy rains this spring. I
good many farmers in the township of Carador good many farmers in the township of Caradoc use the gang plough in the spring, akimming the
land over three or four inches deep. They hold land over three or four inches doep. They hold
that they can get a better seed bed by this process than by using the cultivator, and they areenabled to keep their land freer of weeds and gel ali around better results. After the ploughing d
couple of strokes of the harrow prepares the land couple of strokes of the harrow prepar
for the seed, which is then drilled in.
In the sections where the land is heavier, of
course, not very much of this is done. In these latter portions of the county not muck work has been done on the land up to the present all that could be done, because the owners recog: nize the fact that if they work the heavy lind while it is yet too wet they get very poor yielde, as it afterwards bakes badly and the grain
very little chance to grow to full maturity. The latter part of the winter was very steady
but feeders had plenty of feed, and for the time
of year there is more rough feed around the of year there is more rough feed around the
barns than one usually sees. Those farmers fortunate enough to have large silos ere espectal: ng through the winter in good condition, and seeing that therb is so much feed on hand it to not likely that the stock will be turned away to graze too early. Pasture is often ruined by too
early grazing, and where feed is pientiful it pay to keep the cattle in even a few days longer than seems necessary. In the beef-feeding sectioni most of the eattie have been disposed of. Those which have not already found their way to the market are sold for May delivery.

There is a considerable area of Middlesez county which is devoted quite extensively to the inishing of cator grazing purposes, the cattle, to be sold in the fall or fed off the following win difficulty in getting cattle to put on these fieldo this spring. People do not know where to go to look for the stock. Good beef cattle seem. bound to be hard to get. Of late there has been
a slight falling off in the demand for dairy cowes a slight falling off in the demand for dairy cows,
This is, no doubt, due to the fact that many
cows are freshening at this season, and there fo
not the same shortage of milk and milk pro-
lucts as in the winter. Fall wheat came through the winter extra well, and up to a short time ago had every ap-
pearance of being uninjured by spring frosts. The pearance or being uninuured by spring frosta. The
oold weather during the first two weeks of April

weather, accompanied by frosts occurs it should get a very good start. Grass and clover seems
to have wintered well. A little heaving is noticeabie ein the clover fields, but it has not, so far, injured the crop to any great extent. If the
present warm weather continues the week of the present warm weather continues the week of the
cultivator, and everything at present points to good year for this section of the country.
warm rain would work wonders just now.

The annual meeting of the Natione Record Board will be held in the Prince George
Hotel, Toronto, Monday April 27 th, at 3 o'clock

## National Conference on Marketing and Farm Credits.

Community organization is, without doubt
Community organization is, without doubt,
the foumdation of true co-operation, but the movement would lose ite stimuluation, growth and profane the name if it did not provide for the fellowship and communion of kindred bodies; perrience and observations. This is the function of the National Conference on Marketing and Farm Credits, which met in Chicago for the seconci time om April 14th to 17 th , 1914. This asthe compass in the United States and representatixes from Canada. Men who have had actual experienee, and faced the always present aticteleles. students of the movement, as it presents itself on both sides of the ocean, wer diucers' end alens but from thot from the op well, and to consider the various mediums trirough which the producers and consumers may be cemented into a mutual protective league. In Chis great wody of men and women were those ir their beliefs, but evidence different degrees in the coneeption of co-operation. One would go se far, another one step farther, but this condition of any present in the It matters not what the medus operandi of the minor bodies may be, ere the movement is placed upon the plane of uni-
versal uniom and stbility the executors must unsersaitanion and sthe word as representing a league of ferstand the word as representing a league
oroducers and consumers who are willing to change with each other and money is to be a rymbol of value, but after the deal is done and hhe costs defrayed any surplus must be divided
proportionately among those who created it and proportionate
In one sense of the word this movement is not direct enslaught on the middleman. They have tover shall be. It is their multiplicity and antiquatod, wasteful system that poople are war-
elig against. It is the systom of excess and chig against. It is the system of excess and
duplication of accommodation, clerks, insurance, duplication of accommodation, clerks, insurance, biave rologated to the world's garret, while the producer realizes that the lack of standardization of products, individual buying and selling, the motives, and the whole unfavorable manipulation of the channels of trade are second-hand and antiquated methods of commerce. A sheep
rancher once constructed a large fenco around his ancher once constructed a large feneo around his
domain to protect his flock from the coyotes, but when it was conciuded he found that he had lensed some coyotes in. This often occurs in a are merely dollar-hunters or officeseokers, and assume the cloak of oo-operation for their own aever before have so many men and women been winting to labor in the ranks for the common
cood. This is the spirit of co-operation, and though it may not cure every soclal and comdrocates sweeten the waters of human $\mathrm{Hife}^{\text {and }}$ pluck many a thorn from the patmway of manPRTINGYPLES OF CO-OPERATION TO MARKIT odeaperators and socialists ahite have a more onodest view than formerly regarding the possi-
bilitities of their respective ideals. This was emphasized by John Graham Brooks, of Harvard Oniversity, who said that early co-operators be-
lieved their scheme was to sweep everything be ore it. Competition was to disappear; connfict ing intoreats were to be repiaced by identities of
gcomomaie welfare, which had only to be realized and a universal brotherhood was at hand. The recovery from this intoxication is now pretty well assured. Competition will not pass away; sumer. Will continue to stand over against each athier in any movement of time and place. Every on local retail prices. This has been emphasized In Eurepe where the purchasers of fertilizers adulteration.
ment. co-operation brings these prices at once to fairly reasonable limits, and often puts out of business inefficient retailers who could exist only
co-operators, one sees the tug of war begin and
a Canadian store reports, "We had a magnificent a Canadian store reports, "We had a magnificent
showing the first year. We made prices tumble all about us, but since then we ihave not had
muek to show." It is, of course, one of the muck to show. It is, of course, one of the glories of co-operation that it does bring down
the prices and keeps them down-a result for which co-operation often gets scant credit; but when this margin of unfair prices has been brought down the real limits within which cooperly pitted against opponents ready to try wits and efficiencies against the so-called "democratic business." There are thousands of these vigorous individualists, even in Danish bacon, butter and eggs, and in the English store movement, one success of co-operation tends to bring these men to the front, where they are quite ready to measure themselves against the new comers.

PRODUCERS' CO-OPERATIVE ORGANIZA-
It will be possible to review only a few of the
many points brought out in connection with these associations, but the operations of the beacon for co-operators in the dairy industry a o. Nelson, of Svea, Minn., told the conference hew the society organized about seven years ago
with the aim of affiliating the minor associations of the state into a strong selling agency-so their own wholesale houses in the various large
clties of the Union. and sell direct to retailers clties of the Union, and sell direct to retailers
or consumers organizations. This society organized on a share-capital basis, with one as-
sociation, one vote. During the initial stages of Bociation, one vote. During the come on rapid
development progress did not come
wheels, but in later years the capital has accumulated and the business has grown, and in 1913 amounted to over the one and one-quarter been attained, that of establishing their own wholesale kouses, yet they have been able to ohtain concessions from wholesale dealers that
have been of considerable pecuniary advantage to the members. There are now over 100 minor asOne of the obstacles to be confronted, in this
particular instance, was that of procuring funds. particular instance, was that of procuring funds. deem it within his province to subscribe for preferred to have the consent of the entire asdeferred the matter until the annual meetings. scheme, but the engineering of such operations funds would not permit. organizers, which the now in such shape that field work may be executed, which promises a more speedy develop-
ment and attainment of their oobject. Another powerful factor to be confronted in the co-operais educational, just so long are the interests and
dealers with the movement, heart and soul, but Cealers with the movement, heart and soul, but
when an attempt is made to enter the ring of trade and commerce, to buy and sell for the mutual benefit, then clouds appear on the horizon which develop factions with vastly different pur-
Co-operation has apparently found a home in have a creamery, telephone system, consumers and producers' store, live stock assoclation and grain elevator, situated at Willmar, all run on
the co-operative system. The spirit is abroad and school, equipped with all modern appliances and pupils, outside the two mile limit, are conveyed Placing himself, for the time, in the position of an independent grower of Pruit, H. C. Samp-
son. Sec.-Treas. of the North Pacific Fruit Distributors, demonstrated how he would be abso-
lutely helpless in the disposal of his fruit when lutely helpless in the disposal of his fruit when
he came face to face with conditions as they exadequacy, and ill-construction of the machine as oporated by the buyer and consignment system,
legislation, advertising, the recovery of claims
ctandardization standardization of products, distribution,
financing and many other phases of the industry financing and many other phases of the industry
can only be handled effectually by united and oo-
operative effort. In proof of this Mr. Sampson
cited what, their distributing agency had done in that regard, and explained the circumstances a
they are in Oregon, Washington, Idaho and Mon
tana, where
These four States at present have 505,000
acres of apples already planted, to say nothing acres of apples already planted, to say nothing
of approximately 75,000 of other fruits. the cause of poor selection of orchard mites, soils and varieties, poor judgment of growers and effiects of pests and diseases were to eliminate 255,00 acres of apples as being non commorcial, they still
have 250,000 acres confronting them some fem have 250,000 acres confronting tom orchard pro duces the conservative amount of one-half car load, in the near future they will be confronte with 125,000 carloads of apples inatead of 8,000
carloads, as in 1913, or 15,000 as in 1912. However, from knowledge gained through However, from knowledge gained through 17,000 miles of travel and observation, $\mathbf{M r}$ Sampson is assured that there was no over pro
duction in 1912, and that through the applica duction in 1912, and that through the applica-
tion of the principles of fruit growing on the tion of the principles of fruit growing on the
part of the producer, and assisted by the righ part of the producer, and assiste sort of marketing and distributing machinery, the Northwestern apple grower will obtain a
reasenable price for his labor, and a reasonable interest return on his investment
Every trade or sale is a content botween the minds, personality knowledge of conditions, as
well as the experience of the two well as the experience of the two mon making the
trade. If it be the sale of apples each man brings to the selling or buying, his knowledge of marketing and crop conditions, and his ex
perience in the selling or buying of fruit together with his personality and business eapacity; and just as he commands a larger experience, large
knowledge of market and crop conditions knowledge of market and crop conditions, larger will he drive a better bargain for himself or for those whom he may represent. This was evidenced in the operations of the North Pacife Distributing Agency when a New York buyer, de siring a large quantity or prunes, approa manager. He used three arguments to prove that the price He used three arguments to prove that the price the first place, he claimed that the price in New York was low and would probably go lower; second, the production in the therefore, thes must expect low prices. In the third place he suggested that through other prune-growing sec tions they were producing an abusdant crop, a that it would reflect upon the price the Norshe
western States would be able to obtain. As each argument was brought up it was undeniably reargument was brought up it was undeniab which the executive of the association had to hand. So successfully was the buyer balked in all direo $\$ 1,100$ more for the order than he stated positively ten minutes previous that he could pay. This is where the association excels in the know. ledge of raarketing and črop conditions, which they are able to cbloyees. A wise distribution requires that no marked have too mucki or too little at the same, time. going to ship he could perhaps distribute his stuf more easily, but this is never known to the indtvidual grower; only through a co-oporative body
or large organization are they ablo so supply the market in an equitable manner.
Large associations, to a certail extent, have controlling power over the railreads. In one particular instance the Northwesterl growers car being held up to the extent of \$1a.es per can valleys. The condition was remedied by the Central Association pointing out to the rallroad, where in another instance in the state they woul divert five carloads of produce per wer, another lime. This amount would total to the road $\$ 1,575.00$. This argument on the part of the Northwest growers was weighty enough to per suade the company that it would be the reques terests of the road to comply with the reques
of the association, and give them sim lionest rate The organization has endeavored to create by larger demand and increase coneumption.
setting a reasonable price early in the season, consumption of apples is started at once and continues throughout the season to the benefit of the producer and consumer alike. In this recip
the users of their fruit a decided advantage in
the season just past, which in turn reflected iteolf upon the producer. All this together with conservative broadminded, intelligent advertislng, successiul effort for legislation, and the fa-
vorable manipulation of the machinery that Vorable manipulation of the machinery that
must, in the future, dispose of an enormously in-- 4 creased production, can only be brought about The business side of fruit distribution was ex-
naustively discussed by Charles W. Holman, secMarketing and Farm Credits. Mr. Holmace on from the information gained through a personal state to state survey. He explained the reason
of failuro in many instances of failur in many instances, as due to some of the following causes
good salaries and oxpect efficient service to pay half-hearted feling among the producers, which led them to follow false gods of antagonistic interests that were combining for the purpose of
disrupting the local organization. 4. Failure on disrupting the local organization.
the part of the local associations
to . Failure on with eaeh other to obtain strong selling power and to develop strong purchasing power.
Failure to provide for proper inspectional auditing services. 6. Failure to guarantee the prodte and protion. And 7 The by the credit of the organization. And, 7 , The spread
ancy through some 26 states of the union. The inovitable trend in the world of distribution is the cencentration of selling power which
has been developed into a wonderful system the Califormia Frult Growers' Exchange. That organization controls about 62 per cent. of the
entire citrus product of the United States. It annually markets from 25 to 33 thousand ca Lots of citrus fruit. It has sales agents emploved
upon salary in about 80 of the principal cities upon salary in about 80 of the principal cities
of the Uwited States. The business of these agents is to watch the markets in their districts arriving upon markets that are already over can'ont is a problem of diversion in transit an expert tramic manager
Buyinge too, presents its difficulties but in
union there is power to overcome the obstacles hat might he unsurmountable to the individual grower. Alluding to this phase, Mr. Holman re
fered again to the California Fruit Exchange. Adew yoars ago the California Fruit Exchange
suddenly had the price of box shooks raised on them from 12 1-2 conts to 22 1-2 cents by what they call out there the box shook trust. Twat What did they do? The law of California allows the growers to manufacture, buy and sell, utiliz ing the power of the non-profit making corpora-
tion, which is the greatest instrument in the They formed grower that can be conceived of which is against the' law in most of the states of the Union. They found a sawmill up in the Gorthera part of California that needed money made a 50 yoar toak over that sawmill. They made some cos tests apd they found that they could produce box slooks at 13 cents at a fair profit. And
the price of box shooks to-day is about 13 1-2 cents.
o-operation among consumers.
The ronnecting link between producer and conEumer was discussed with altruistic sentiment by
E. M. Teusley, Secretary of the Right Relation ship League, Minnesota. Mr. Tousley, of all term "co-oporation," and in its spread and development throughout the country he claims that the word "profit" is a misnomer in connection there may be surplus, but in the end when the -transactions are done ell must be proportionate-
Iy divided among those who created it and put ly divided among those who created it and put
vit tbiere.
From the producer's standpoint there

THE FARMER'S ADVOCATE
that the consumers, who are many thousands of
miles away, may know what they are buying
without being obliged without being obliged to wook at it. One hotel
keeper in the city representative of a firm selling apples that the reason why he did not buy New York State
apples was that he did not buy a product that he was obliged to look at and examine. In and buy-
ing the product of the Northwester was assured that every apple in the box would be up to grade, whereas in Eastern products
there was a possibility of waste and loss, there was a possibility of waste and loss.
From the consumer's end Mr. Tousley showe by figures what was being done by co-operative
stores in the State of Minnesota out of over one hundred stores in the States of
Minnesota, Wisconsin and the North and South Dakotas, in one year, totalled in sales $\$ 1,391$, tions amounted tot earnings from these transacon sales per store amounted to $158-10 \%$. ${ }^{\text {Pr }}$ The operating expenses were $102-10 \%$, which brourgt
the net earnings down to $56-10 \%$ on all the sales. This exposure of the net earnings, which
are usually supposed to be very much hicher rather refutes the arguments that retailers should be getting rich. However, this percent-
age of net earnings age of net earnings emounts to $273 \%$ on the
capital invested.
One particular store, situated at Willmar in the State of Minnesota, has a more favorable report from the standpoint of
profits. In this particular case the net earnings profits. In this particular case the net earnings
amounted to $\$ 17,576.80$, and the percentage of gross earnings amounted to $199-10 \%$. The operating expenses were The capital. invested was
$109-10 \%$ on sales.
turned over eight and one-half times during the yurned over eight and one-half times during the
Mr. Tousiey dwelt on the fact that the people have the consuming power. No trusts or com-
bine can hold them up in this direction when they cease to buy and divert their wants into other channels. When this occurs these pooling or combined bodies are injured at once, and fa-
vorable concessions are quickly considered. The city people are beginning to own and operate their own stores, and in the opinion of the
speaker the local "end digtributing stores, where they do not duplicate themselves throughout the
city are thousands of miles ahead of the large manicipal market.
A paper on the Co-operative Union of Canada was contributed to the conference by Geo. Keen, of Brantiord. Ont. To Canadian readers a slight
review of this work may be interesting. The review of this work may be interesting. The
Union was only born in the month of March, 1909, but since that time it has gathered around it twenty-four affliating associations; nine in Ontario. five in Nova Scotia, three in British
Columbia, four in Alberta, two in Quebec, and one in Manitobe
funds have been available for organization purposes, but where societies have been formed it has been purely voluntary on the part of hose
However the growth of this institution has been wholesome and strong. Starting in 1909 with 1,595 members the total has now reached 5,000 . The trade done also in ${ }^{1912}$
totalled $\$ 1,194,084.89, \ldots$ whereas in 1909 the There is now invested in this movement, in the form of share capital, about $\$ 134,872.03$, but in addition to this share capital some societies have a Loan capital aggregating over \$43, 000, bringing the gran
a little over $\$ 178,000$.
On July last as an offspring of the Co-opera tive Union of Canada the Canadian Co-operative Whoiesale Itt. was organized. and it is hoped lisked in every province of the Dominion. Every lisked
retail society will own shares in the wholosale in
and proportion to membershif, and will be entitled to participation in profits based upon their re
spective purchases therefrom. The wholesale is spective purchasen
federated with the Co-operative Wholesale So ciety of England, and has access to the factories mills, warehouses and plantations of that institution for its requirements.
In the city of Chicago much is being done by
the consumers to reduce the cost of living to the
ordinary wage-earning people. The Rochdale
system of consumers' stores was explained by
Walter Hu Watler Huggins, of the United States Co-opera-
tive Co., which is operating in divers parts a tive Co., which is operating in divers parts on
the city. The main function and the strong working system of this movement is based upo club meetings or social gatherings of the co-
operators where the store movement is discussed operators where the store movement is discusse
and $i$ its advantages explained to each other They are taught to take an interest in the store and to remember that it is their own store. One practice which necessitates high prices of food materials is the multiplicity of brands of differ ent kinds of food. One customer requires one
brand. one another, and an. immense stock must brand. one another,
be kept on hand which implies waste and ex pense. The time is ripe, declared Mr. Huggins,
for a wholesale store which will distribute to for a wholesale store which wituated in difierent A large municipal market has been recom-
mended for the city of Chicago. It will be be
owned by the city, but it will be operated by owned by the city, but Hugrins agrees that the ${ }_{\text {city }}$ should own and control the municipal mar ket, but first and foremost, all the people, not handful-
the city

DTREOT MARKETING
The matter of direct marketing between pro-
ducer and consumer was discussed from two dill ducer and consumer wy D. G. Mellor, Now York
ferent aspects; one by city, relating to the service of the Express Companies, and the other standpoint was championed
by Leroy P. Stewart, Post office Department. Chicago. Mr. Stewart emphasized ind 'explained the parcel post system with relation to distribution. Mr. Mellor explained how, in the city of
New York, that many of the employees of their New York, that many of the employees or their
company and other institutions had organized company and other institutions elubs, and purthemselves into smam the farmers throughout the country. Orders were sent out lor cases of egger butter in $10-50-$ to $100-\mathrm{p}$
produce on the same scale.

> produce on the same scale. One difficulty that presents itselr in connection with city markets is the restricted storago with city makres fats. This denfiliency forces the city dweller to
small quantities at at many ant intervals. It sug-
frequent gests the question of organization of consumers, and forces them to a realization of the fact that to obtain the best results it it yecessary for
them to work together. Prices, through this them to work together. Prices, through to the system of marketing, have at a reasonably hifit average to the producer. The reason for this is that the trading is for cash, and there are no accounts, nor delivery service Each, man carriee
his portion home. He is doing something himhis portion home. $\begin{aligned} & \text { self to reduce the cost of living. The question }\end{aligned}$ self to reduce the cost of living, the trouble is a of
purely personal one, but it means increasing the
efticiency of the earned dollar from 15 to
25 pufriciency
per cent.

LEGISLATION AND CREDIT.
United States citizens are aotive in the aquisttion of legislation that will make possible a aybtom or agrioultural communities throughout the country. This movement difiers somewhat from the principles applying in Canada, as mattere are ither state or of fearal jurisachon, but int State of Wisconsin they aiready have legination tive companiee, which, at the same time, prohibits the operations of any company under the name of co-aperation unless they bo str operative in the true sense of the word.
There are other states also that have this in certain degrees of perfection, but where they are now in vogue it is worthy of note that co-opergy-
ion is more eflective and more instrumentel in tion is more efliective and more imstrumentai
the disposal of monies, and the marketing of farm produce.

Leprisatace. is. is. now pending under the name of
Fletcher Bill, which has its advocates and he: Fietcher Bill, which has its adrocates and its critics. It in not yet paseod ibut most of present in a porm of perfection that it will be instrumental in bringing money to the dilpoial presrumental in bringing mo.
in the agricultural intereats.

## Markets

## Toronto.

A.cotiph at the Union Stock-yarde, Wes

carioods, comprising april 20, were 111 togn, 30 shepp, and 152 calves. At the | Nenening of the market, trade in cattle |
| :--- |
| The dull and siow. Prices declined from |







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|  |  | 125 |  |
| The combined receipts of live stock at the two marleets for the past week show a decrease of 45 cars, 805 cattle, 441 hogs, and 890 calves; but an increase of 451 sheep and 180 horses, compar the corresponding week of 1913. <br> Receipts of live stock have been moderate for the past week. The cattle trade was lower than for the previous weok. Packers and wholesale butchers state that the dressed-beel market |  |  |  |
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eordingly. A tow odd, extrid elole


 week. There were too many coartic. heavy, unalishell Anfod eattle welghing
requires is well- Anlobe roquires 900 up to $1,200 \mathrm{rbe}$. All such aro readlly taken, and the big fellows would
soell if farmers would fanish them; but the drovers as a rule won't lot them, en
they are foolish enough to pay the price

Aittle lower.
Butchers',-Choice butebers atcors, sole
at $\$ 8$ to 88.25, and about four loide


For Eighty-two Years
Tit heve been sarering the pubicio Heecitoc cane in the choce of a tiepositaray or pour nones, our
 depailitis aro aroeptomily well
 Large holimestof cand Reareves. Oix Ampat Smatementsiave been


The Bank of Nova Scotia
cetit

BRANCHES OT THIS BANE
In every Canadian Province, and
In Nowfoundiand, West Idides,

## 工红

 load at $\$ 8.50$; choice steers and heifersmixed, $\$ 7.75$ to $\$ 8$; good, $\$ 7.50$ to $\$ 7.75$; medium, $\$ 7.25$ to $\$ 7.50$; common, $\$ 7$ to
$\$ 7.25$; choice cows, $\$ 6.75$ to $\$ 7$, with a $\$ 7.25$; choice cows, $\$ 6.75$ to $\$ 7$, with a
fow extra choice at $\$ 7.25$; canners and cutters, $\$ 3.50$ to $\$ 4.50$; bulls, $\$ 6$ to $\$ 7.50$,
paid. Stockers and Feeders.-Choice steers, good steers, $\$ 6.75$ to $\$ 7$; stockers, $\$ 6$ to $\$ 6.60$.
avers last week. millkers and springers were not as liberal as usual. Prices ruled steady to strong,
from $\$ 60$ to $\$ 90$, but there were a few choice Holstein springers sold at $\$ 100$,

Veal Calves.-Choice new-milk-fed calves are worth $\$ 10$ to $\$ 11$, but there are few
of that class brought forward, the bulk being of the medium to good classes that
eell from $\$ 8.50$ to $\$ 9.50$; common calves sell from $\$ 8.50$ to $\$ 9.50$; common calves
sold at $\$ 6$ to $\$ 7.50$; inferior, $\$ 5$ to
Sheep and Lambs.-As a rule, receipts Sheep and Lambs.-As a rule, receipts
of sheep and lambs were light, and this
coused prices to be very firm. Sheep, caused prices to be very firm. Sheep,
owes sold at $\$ 6.50$ to $\$ 7.50$; rams, $\$ 5.50$ owes sold at $\$ 6.50$ to $\$ 7.50$; rams, $\$ 5.50$
to $\$ 6.50$; yearling lambs, $\$ 8$ to $\$ 9.75$. Hogs.-Receipts of Northwest hogs be
ing liberal, prices became easier. Selects, ing liberal, prices
fed and watered, sold at at $\$ 9.10$; $\$ 8.75$ \&
o. b. cars, and $\$ 9.25$ to $\$ 9.35$ weighed al cars.
toronto horse market. There was more activity on the horse
market for the past week than for some
time past at all the different sale stables. At the Union Horse Exchange, Union Stock-yards, over 200 fresh horses were on sale. There were several buyers from
Nova Scotia and Quebec who bought a was also a fairly good demand from
local and nearby sources. Prices were reported as being about steady: Draft-
ers, $\$ 175$ to $\$ 225$; general-purpose horses $\$ 150$ to $\$ 200$; expressers, $\$ 165$ to $\$ 225$;
drivers, $\$ 100$ to $\$ 160$; serviceably sound sold from $\$ 45$ to $\$ 70$ each.

## BREADSTUFFS.




96 cic., traek, bay points; No. 2 northern 96 द.c., traek, bay doints, more at Aoderich.
Oats,--Ontariosmew, white, No. 2, 37c.
 Toronto; Manitoba
40c., lake ports.
Rye.-Outside, 63c to $64 \mathrm{c}_{\text {, }}$
Peas.-No. 2, 98c. to $\$ 1$, outside

## Buck side. Corn Corn.-American, No. 3 yellow, 74 c., all Barley.- For malting, 37 c . to 58 c .; for feed. 43 c . to 45 c ., outside. Flour.-Ontario, 90 - per - cent. winterwheat patents, $\$ 3.80$ to $\$ 3.85$, bulk, sea- boand. Manitobe flour-Prices at Toronto are: First patents, $\$ 5.60$; second patents, $\$ 5.10$; in cotton, 10c. more; strong bakers', $\$ 4.60$, in jute. <br> HAY AND MTLLFEED

Hay.-Baled, car lots, track, Toronto,
$\$ 14$ to $\$ 14.50$. No. $2, \$ 13$ to $\$ 13$. $\$ 14$ to $\$ 14.50$; No. $2, \$ 13$ to $\$ 13.50$.
Straw. - Baled, in car lots, $\$ 8.50$ to $\$ 9$. Straw.-Baled, in car lots, $\$ 8.50$ to $\$ 9$.
Bran. - Manitoba, $\$ 25$, in Bran.-Manitoba, $\$ 25$, in bags, track,
Toronto; shorts, $\$ 26$; Ontario bran, $\$ 24$, oronto; shorts, $\$ 26$; Ontario bran, $\$ 2$.
COUNTRY PRODUCE.

Butter.-Receipts continue to be large, and prices steady. Creamery pound rolls, 31c. to 32 c. c creamery solids, 27 c .
to 28 c .; separator dairy, 27c. to 29 c , store lots, 24c. to 25 c . bulk selling at the latter price. Cheese.-Old, twins, $15 \frac{1}{c} \mathrm{c}$.; large, 15 c .; new, twins, 14 $\mathbf{l}$ c.; large, 14c.
Beans.-Imported, hand - picked, $\$ 2.25$; Canadians, hand -picked, $\$ 2.25$; primes,
$\$ 2.10$ per bushel. Poultry. - Receipts principally cold-
storage, which were quoted as follows: Turkeys, 21c. to 25 c .; geese, 18 c . to 20 c ., ducks, hens, 14 c . to 16 c .
Potatoes.-Car lots of New Brunswick Delawares, 90 c. per bag; car lots of On-
tarios, 80 c . per bag, track, Toronto. tarios, 8 c. per bag, track, Toronto.
Honey. - Extracted, 9 c . per 1b.; combs, per dozen, $\$ 2.50$ to $\$ 3$.

TORONTO SEED MARKET.
The following are the prices wholesale soed merchants are quoting to the trade red clover, No. 2, $\$ 17.50$ to $\$ 18.50$ per ewt.; alsike, No. 1, $\$ 21$ per cwt.; alsike,
No. 2, $\$ 17$ to $\$ 18.50$; timothy, No. $\$ 8.50$ to $\$ 9.50$ per ewt.; timothy, No. $\$ 7.25$ to $\$ 7.50$ per cwt.; alfalfa, No. 1 .
$\$ 14$ to $\$ 15$ per cwt.; allalifa, No. to $\$ 13.50$ per cwt.
inspected steers and cows, 13 c . No. 2 inspected steers and cows, 12c.;
 skins and pelts, $\$ 1$ to $\$ 1.50$; horse hair
38 c . to 40 c .; horse hides, No. $\$ 250$ 38c. to 40 c. . horse hides, No. 1, $\$ 2.50$
to $\$ 4.50$; tallow, No. 1, per lb., 5 k c. fruits and vegetables. Apples were not as plentiful, and prices
are much firmer. No. 2 Spies are worth $\$ 4.50$ to $\$ 5$; and No. 1 Spies are very
scarce, being worth $\$ 6$ to $\$ 8$ per barrel apples by the basket sold from 40 c . to 50c.; Canadian radishes, 50c. per dozen
bunches; leaf lettuce, 25 c. to 30 c . per dozen bunches; Canadian green onions, 20c. to 25 c . per dozen bunches; Canadian
mushrooms, 75 c . per lb.; carrots, $\$ 1.50$ to $\$ 1.75$ per bag; beets, $\$ 1.50$ to $\$ 1.75$ $\$ 1.50$ per bag.

## Montreal.

Live Stock.-Supplies of cattle offered
what limited, as is quite frequently the
case during the week following Easter, it
being generally assumed that dealers pur-
chäbed more than their requirements dur-
ing Easter week, and as a consequence a considerable proportion of these was
left over. Prices held fairly firm. Choice
7 c . to $8 \mathrm{c} . ;$ good at 7 c . to $7 \mathrm{7ac}$. ; medium to about 5 dc c., with $\frac{1}{1}$ c. less for bulls and about $\$ 80$ to $\$ 90$ for the top grades, and down to $\$ 50$ for the poorest. There was
a very good demand for sheep and lambs, the former being quoted at 6 c . to 7 fc.,
and the latter at 8 c . to 9 c . per 1b. for
yearlings. The supply of spring lambs increased, and prices ranged from $\$ 3$ to $\$ 6$ each. Calves sold at $\$ 3$ to $\$ 5$ each,
according to size and quality. Hogs were in good demand, as usual, and On-
tario selected stock brought 10 c . per lb . Horses.-The market has been fairly active of late, and there has been no
change in price. Horses weighing from

1,500 to $1,700 \mathrm{lbs}$. sold at $\$ 275$ to $\$ 800$ each; light draft, weighing from 1,400 to
1,500 lbs., $\$ 225$ to $\$ 275$ each; broken-
down, old animals, $\$ 75$ to $\$ 125$, and down, old animals, $\$ 75$ to $\$ 125$, and
choicest saddle and carriage animals, $\$ 350$ to $\$ 400$ each.
Poultry.-The market showed no change, quotations being as follows: 24 c . per lb.; ducks, 16 c . to 18 c .;
2et. 2ec. to 24c. per 1b.; ducks, 16c. and geese, 14c. to 16 c .
Dressed Hogs.-There has been considerable activity in the market of late.
Prices held steady, at 13 ac. to 13 are. per $\mathrm{lb} .{ }^{\text {Po }}$
stock.
Potatoes.-The market was rather firmer last week, and prices showed an advance
of about 5c. per bag. Green Mountains were 85c. to 90c. per bag, ex track, in
car lots, while Quebec varieties were car lots, while Quebec varieties were
80 c . In a jobbing way, prices were 20 c . 80c. In a jobbing way, prices were
to 25 c . higher, ex store. Bags weigh

Honey and Syrup.-New syrup was offered freely. The make has been heavy,
weather having been favorable. The weather having been favorable. The
price was about 7 lac. per lb . in wood, and 74c. to 8c. in tins, making prices of
tins 65c. to 70 c . each for small, and $\$ 1$ for large. White-clover comb honey was
15c. to 16 c per 1 b .; extracted, 10 tc . to 11 c.; dark comb, 13 c . to 14 c ., and strained, 7 ct c. to $8 \frac{1}{c}$ c. per lb.
Eggs.-Prices of eggs declined in Eggs.-Prices of eggs declined in a
marked
manner, Prices were 22 c . in round lots, and somewhat more for smaller lots and single Butter.-The market for butter was on the easy side. Offerings were larger, and
new-milk creamery was available at 27 c . to 27 fl c. per lb., in a wholesale way. Held creamery could be had at 24 c . to 25c. for choicest, and inferior quality at considerably less.
Grain. - Oats
Grain.-Oats were steady in price. No. to 44c. per bushel, ex store, in car lots; No. 3. at 43 c . to 43 z c ., and No. 2 feed, at 42 दुc. to 42 gc . No. 3 American yer Flour,-Prices showed steadinesa Manitoba first-patent flour was quoted at \$5.60 per barrel, in bags; seconds being \$5.10, and strong bakers at $\$ 4.90$.
tario winter-wheat flour was firmer $\$ 5.25$ to $\$ 5.50$ for patents, and $\$ 4.70$ to wood. Millieed. The market for millieed was steady. Bran sold at $\$ 23$ per ton, and shorts at $\$ 25$, in bags, while middlings $\$ 30$ to $\$ 32$ per ton for pure, and $\$ 28$ to $\$ 29$ for mixed
Hay.-Prices for hay were a shade on the easy side. No. 1 pressed hay, car
lots, Montreal, track, was $\$ 14.50$ to $\$ 15$ per ton; No. 2 extra good was $\$ 13.50$
to $\$ 14$, and No. $2, \$ 12.50$ to $\$ 13$. Seeds.-Demand for seed was good.
Prices were: Timothy, $\$ 10$ to $\$ 11.50$ per 100 lbs., Montreal; red clover, $\$ 22$ to $\$ 24$ per 100 lbs ., and alsike, $\$ 20$ to
$\$ 24$ per 100 lbs . Hides.-The market for hides was un-
changed. Beef hides were 13 c ., 14c. and 15 c . for Nos. 3,2 and 1 , respectively.
Calf skins were 18c. and 20 c . for Nos. 2 and 1, and lamb skins were $\$ 1.20$ to
$\$ 1.25$ each, with horse hides ranging from $\$ 1.75$ for No. 2 , to $\$ 2.50$ each for
No. 1. Tallow sold at $1 \frac{1}{2} \mathrm{c}$. to 3 c . fo
rough, and 5 c . to $6 \frac{\mathrm{z}}{\mathrm{c}} \mathrm{c}$. for rendered.

## Buffalo.

Cattle--Light receipts the past week,
regardless of the liberal supply at Chi-
caga, her
on shipping steers generally 15 c . to 25 c
An extreme top of $\$ 9.40$ was had on
load of black Ohio steers averaging
little better than 1,500 lbs. Othe
weighty steers ranged from $\$ 9$ to $\$ 9.10$.
Two
The forty cars or more were take
readify and light, well-finished steer
lings
has not met the demands of late of the
hocal packers, and in some instances the
have had to go to the country to
however, to get these on the market,
As a local buyer for a Buffalo packing
house expressed it the
weige expressed it the past week, "If the
weight and finish is right, the price does
wigstan $\begin{aligned} & \text {." The packer who thus e } \\ & \text { not stop us. } \\ & \text { pressed himself, is one of the owners }\end{aligned}$
ho bought a couple of weeks ago, fort ada as stockers, and which showed a re markable gain, after a short feed, and sold at $\$ 8.05$, and he expressed himselt
as being especially pleased at the of the killing, and weuld take more like them at any time at good prices. De. mand is strong for stock and feeding
cattle Twenty cars or more of these cattle, Twenty cars or more of these
could be sold readily here each week. Canadians are preferred, for the reason that they show splendid gains, and besides, in most cases, have good breeding.
Dehorns are sold to better advantage Dehorns are sold to better advantage
than those with horns; they handle better, and bring more on the market when sold as fat cattle. This is the season bulls are discriminated against in price, killers preferring the handier ones. Outlook is somewhat more favorable for
milkers and springers. In the winter, when it becomes necessary to feed these, marked partiality for the good, heavy, strong, milk - producing ones. Heavy milkers a they are cashed in at beef prices, and a good heavy cow, brings quitea lot more money than the light ones. All kinds of butchering cattie were 15c. were snappy sale. Receipts for the past
week were 3,500 head, as against 4,775 for the previous week, and 4,050 a year ago. There were ten to fifteen loads of Canadians, including shipping steers and
butchering grades. Quotations follow: Best $1,350-$ to $1,450-\mathrm{lb}$. steers, natives, $\$ 9$ to $\$ 9.40$; best $1,200-$ te $1,300-\mathrm{lb}$.
steers, natives, $\$ 8.60$ to $\$ 8.85$; beal $1,100-$ to $1,200-\mathrm{lb}$. steers, natives, $\$ 8$ to $\$ 8.50$; coarse and plain, weighty steers, natives, $\$ 7.75$ to $\$ 8$; fancy yearlings, baby beef, $\$ 8.25$ to $\$ 8.75$;- medium to good, $\$ 7.75$ to $\$ 8$; best Canada steeres,
1,350 to 1,450 lbs., $\$ 8.50$ to $\$ 8.85$; best to $\$ 8.25$ eers, 1,150 to $1,250 \mathrm{lbs}$., $\$ 7.80$ to $\$ 8.25$; choice, handy steers, 900 to
1,100 lbs., $\$ 8$ to $\$ 8.60$; fair to good steers, 1,000 to $1,100 \mathrm{lbs} ., \$ 7.75$ to $\$ 8.10$; extra good cows, $\$ 6.75$ to $\$ 7.25$
butcher cows, $\$ 5$ to $\$ 5.50$; cutters, $\$ 4.86$ to $\$ 4.50$; best heifers, $\$ 7.75$ to $\$ 8$; medi um butcher heifers, $\$ 6.50$ to $\$ 7$; ligh butcher heifers, $\$ 6$ to $\$ 6.25$; stock heil ers, $\$ 6$ to $\$ 6.25$; best foeding steers, do horns, $\$ 7.25$ to $\$ 7.50$, Yair to good leed stock steers, $\$ 7.25$ to $\$ 7.50$; common light, stock steers, $\$ 6.50$ to \$7: stool heilers, $\$ 6.50$ to $\$ 6.75$; extra good bulle,
$\$ 7.25$ to $\$ 7.50$ bologna bulls $\$ 6.25$ to $\$ 7.25$ to $\$ 7.30$; bologna bulls, $\$ 6.25$ to $\$ 6.50$; stock bulls, common a
to $\$ 6$; best milkers and springers, $\$ 75$ to $\$ 90$ : medium to good, $\$ 50$ to $\$ 60 ;$ common, $\$ 30$ to $\$ 40$
Hogs.-The supply the past week totaled 32,640 head; previous week, 27,680, and a year ago, 82,000 . Meneral price for beet grades was 99.25 , pigs selling mostly al $\$ 8.90$. Trade reacted after $\mathbb{M}$ Monday, ind was followed by a decline on Friday Wednesday, top was $\$ 9.35$ for packer grades, and Friday, all grades the week, Roughs, $\$ 8.15$ to $\$ 8.35$; stags, $\$ 7$ to \$7.50. No Canadians offered. Sheep and Lambs.-Moderate receipte Sore part of week resulted in jump , while
prices, wool lambs reaching $\$ 8,85$, whe tops for clips was $\$ 7.65$. Lower prices buyers getting some wool lambs down to $\$ 8.50$ on Thursday, while clipped lambs sold down to around $\$ 7.25$ to $\$ 7.35$ Friday's trade showed a reaction, rang day. No wool sheep offered during the week. Best clipped wethers sold up to $\$ 5.90$ to $\$ 6$ : shorn ewes $\$ 5.50$ down, and
top yearling wethers around $\$ 6.50$ to \$6.75. Receipts for the past week were
27,800 ; previous week, 26,400 ; year ago. 27,800; previous week, 26,400; year ago

## Chicago

(attle.-Beeves, $\$ 7.15$ to $\$ 9.55$; Texae
(eers, $\$ 7.30$ to $\$ 8.30$ stockers and feed ers, $\$ 5.60$ to $\$ 8.15$; cows and heifers, Hogs.-Light, $\$ 8.45$ to $\$ 8.75$; mixed, $\$ 8.45$ to $\$ 8.72$; heavy, $\$ 8.20$ to $\$ 8.75$; $\$ 8.40$; bulk of sales, $\$ 8.60$ to $\$ 8.70$. $\$ 5.40$ to $\$ 7$; yearlings, $\$ 5.80$ to $\$ 7.60$. Lambs.

Earth and Infinity.
 In every leal that grows. In every lear that grows.
Out of the vast comes nearness; For the Good whose ove we sing
Lends a little of His heaven Lends a Iittle of His
To every living thing.


The Passing of the Seasons By Hyacinth The March winds blew with a southing sound, and the leanless trees all stiring,
and lifted their heads to catch aright nd message they thought they heard the message they thought they heard;
and they listened, and nodded in silent glee when the message was told again, and stretched aloft their na
the kiss of the falling rain.

## The brook leaped up from its prison of fe, and gleefuly hurried away, babbling cee, and gleefully hurried away, babbling of days when the sun's soot beams would call out the fishes to play; and down in the garden a pansy face, with dusky, the garden a pansy face, with dusky velvety eyes, peeped out, and smiled at the wooing sun, with <br> And I thought, as I watched the snow fade away and the grass grow green again, of the fair young life that had just begun, without thought or shadow of pain; and I wondered how long ore the frosts of grie! would mar with their the frosts of grien wound mar wing petals be toldede, quiet, in the dhe sooping of the winter of death.

The days went by, and the wind's soft
breath grew warmer upon my cheek, as it tossed the curtains to and fro, as if
playing hid-and-seek; and the roses
hid blushed a deeper red, when its breath
ahook their petals down, and the honeyhaok eheir petals down, and the honey-
suckle clung, and twined round the
arbor's mossy gown. arbor's mossy gown. The busy bee hummed in sweet content sweet-voiced birds from morning till night
proclaimed that the summer had come; and the brok's loua voice grew gentle
and soft as is fearing to break the spell; and soft as if fearing to break the spell;
and the grass grew greener under the kiss
of the dew it loved so well.
of the black frost's frown, fringing with rmine the dusky rails where in summer
the moss used to rest, hushing the fluttering leaves to sleep, as a mother, the
babe at her breast. And I thought of the head where life's snowflakes fell, and would not be brushed
away; of the life where the sapphire of summer had changed to the dusk of the Winter's gray; and I wondered how often
the sunshine of joy had been drowned in the sunshine of joy had been drowned in
the sadness of night, ere the Angel of Peace dropped her mantle of snow, and hid the sorrows from sight.
And, as I was musing, the setting sun broke out from its prison of black, and pearl, and reffected the radiance back; and I thought of the gates that would
soon swing back to let Heaven, soon swing back to let Heaven's Sun
shine through, to turn into diamonds each snowflake that lay on the head of the Faithful and True.

## Little Trips Among the Eminent. <br> Canadian History Series.

 de la barre and de denonville. An appointment as Governor-General ofCanada was, in those early days, no
sinecure, as M. de la sinecure, as M. de la Barre, who suc-
ceeded Frontenac in 1682, was speedily ceeded Frontenac in 1682, was speedily
to find out. True, the Iroquois were not formidably active against the French had held thém in check, but even during his regime they had been restless, and
had given trouble at times by robbing had given trouble at times by robbing
traders of canoe-loads of furs; now they were soon to prove themselves the most
wren wifficult problem which the French had
do Barre altogether happy even in his dealings with the Indians who were disposed
to be friendly with the French. Frontenac had liked the red men, and they had re prompt and fiery soldier who played with their children and gave beads and trink-
ets to their wives; who read their secret thoughts and never feared them, but
smiled on them when their hearts were true, or frowned upon and threatened them when they did amiss."-(Parkman.) De la Barre. on the other hand, always
regarded these strange folk of the new attitude in kind.
Another misstep was his complete subservience to the trading factions which had been opposed to Frontenac, and were
even now more concerned with jealousies of La Salle than with the advancement
of the country. Through them he was suspicious of La Salle's fort on the
Illinois. which Frontenac would have Hlinois. which Frontenac would have
strengthened as a political necessity. By strengthened as a political necessity. By
them also he was induced to seize not only the Illinois fort, but also Fort
Frontenac itsel?. One of his earliest acts was to call a
conference to meet in the new parish church in Montreal, which was as yet
unconsecrated. The Indians came, he gnconsecrated. them gifts, and induced them to
gave
consent to peace and to refrain from gave them gicac and to refrain from
consent to peace
pilaging French traders. But he had not reckoned upon the vagaries of his dusky
visitors, their shrewdness where personal visitors, their shrewdness where persons.
gain was concerned, their variableness. their readiness to find excuse to break
such promises. The Council was held in 1683 . In
1684 the Iroquois fell on the fort on the Illinois and destroyed it, and hence
forth their depredations were a matter of any week or moment. Anxious to ex-
tend their hunting-grounds, as the beavers, whose skins afforded them so brisk
a trade with the English became scarce
occupied by the Indian tribes of the West and North, for the most part allies of the French. In the meantime, also, they
were being steadily supplied with arms and ammunition by the Dutch and Eng
lish of New York, to whose interest it was that this desultory warfare be conwas that th1s desultory warfare be con-
tinued. hence there was nowhere in New France rest or security, nor was De la
Barre strong enough to meet the situaIntent harvest for themselves, heaping a rich frees let affairs drift into a sorry muddie, and oven when he did make an at questioned. In 1684 he determined upon an expedition against the e Iroquois. ", "Monseigneur,"
will finish this letter. Moner wrote the intendant. De Meulles, to Seignelay, "by telling you that he set
out yesterday, July 10, with a detachment of 200 men. All Quebec was filled pedition of war tete-a-tete with the man named La Chesnaye. Everybody say that the war is a sham: that these two will arrange everything between them,
and, in a word, do whatever will help their trade. The whole country is in despair
The prognostications of De Meulles were justified. The great flotila of canoes and flat-boats making way up the St Montreal and Fort Frontenac, food supplies ran short, mafarial fever broke out among the men so that scores died, and Inally De la Barre condescended to meet
the Indians on their own side of the river, at La Famine. Here he tried to deceive the dusky envoys, who saw cluded his ruse, and the council concouncils should be held henceforth the Famine instead of at Fort Frontenac, and that the peace then and there enn-
cluded should not include the Illinois. There is scarcely an event in Canadian istory more discreaitable than this ex may be added, was ever a peace uurr uncalled for or more ominous. Even as the troops were returning, shivering with ague, to Montreal, a fleet of canoess,
'numerous as a flock of blackbirds numerous as a making its way down the autumn," was making its way down tho
great lakes. It was the contingent of coureurs de bois and Indians from Michillimackinac, which, under Perrot and
La Durantaye, were hastening to the renLa Durantaye, were hastening to the reiwith the French, for the most part Down Lake Erie the canoed aped, then a white sail appeared on the blue water approaching. It delivered the news that tingent turned back "in disgust "and scorn of the Governor of the French." In the meantime the Iroquois, too, were returning to their country, but in high glee. They had discovered the weakness

The result was that La Barre was recalled by the King and De Denonville sent out to take his place. With him
embarked 500 soldiers, of whom 150 died of fever and scurvy on the long trip over
the Atlantic. De Denonville was a good man, but quite incompetent to deal with the difmSenecas (most warlike of the Iroquois) still attacking the Illinois, the English intriguing with the Iroquois, the Hurons of Michillimackinac anxious to ally with
the English, from whom they got cheaper goods, and the fur trade drifting more and more through the channels opened
by New York. The liquor problem, too
was causing trouble. "The coureurs de bois,"" wrote De Denonville, "have carried
hundred barrels of brandy to Michilltmackinac in a single year
Denonville tried hard to cope with the situation, and after much bickering with
the English, under their Governor, Dongan, and much treating with the Indians, resolved also on an espedition againat the Iroquois.
Once more a host of flat-boats and canoes made way up the St. Lawrence to
Fort Frontenac, but this time an founding sight met the eyes of the troops they lended. No fewer then afty-one Iroquois were ranged in a line, tled to posts, tormented by mosquitoes and aing-
ing their death songs. Their death, ing their death songs. Their death,
however, had not been decreed. They had been invited by the new intendant, Champigny, to a feast, seized, to prevent them from reporting on Denonvillo'e movements, and were to be sent to
France, in reply to a request from the king, to serve as galley - slaves. . . Later, this perfadioua action was to bo remembered by the Iroquois.

After a halt here, De Denonville learned that La Durantaye and Tonti, with a succeeded in capturing twara, and had ncroaching English, one under one Rone mackinac, and the vicinity of Michillory, on Lake Erie. He sent word to hem to meet him at Irondequolt Baj, on the southi shore of Lative Ohtario. On reaching there the two parties met, and soon arter'werds a party of Ottawas who
had refused to follow La Durantaye, aleo arrived. They had changed their minde, paddled across the Georgian Bay, portaged to Toronto (its site), and thence Denonville now had in all about 8,000 men, for the vacillating Indians, imhim, so a speedy march into the with of the country of the Iroquois was la order.
A. PICTURESQUE ADVANCE,
strange medley was the little army Lake Ontario. The ainern ehore of Lake Ontario. There were the regulars uniforms; there were the oflicers; there were the wild coureurs de bois trom Michillimackinac, and last of all a swarm
of Indians of every nation. "Most of of Indians of every nation. "Most of
them," says Saint-Vallier, "wore nothing them," says Saint-Valier, "wore nothing
but horns on their heads and the talle of beasts behind their backs. Their facea were painted red or green; with black or white spots; their ears and noses were hung with ornamentis of iron; and their various sorts of animals." The day was intensely hot, and the atr of the forest through which the army made way, close and wearying. La
Durantaye, with Tonti and Du Lhut famous leader of coureurs do bois), (ted the advance. "On the right were the pagan Indians from the Went. The woede
were full of these painted spectres, grotesquely horrible in horns and tail; and among them filted the black robe of Father Engelran, the Jesuit of Michill Perrot and (Pallieres). These were under real. Next came , Governor of Mont the regulars, the De Denonville, with self marching in his shirt-sleeves, with the Chevalier de Vaudrevil. Last of all
came the rear guard of rangers and Indians.
The advance of the French deceived the Indians. The van guard, hurrying forward, presently ran into an ambush, and
the Indians closed in upon all sides. They had not reckoned upon the second
division, which now arrived with much division, which now arrived with muck
beating of drums, so that the Indians

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FOUUNDED 1866
truck with terror, speedily made off. Do Denonville did not follow, but in the morning puabed on to the chief town of the Seneoae fit wis in ashes, the $\mathrm{In}_{\mathrm{n}}$ retrout. ypf game tactics had been re sorted to in an of the neighboring villages, hence, atter epending ten days do-
atroying the growias cornfields, the French witroying the
The expedition wes reported to France were victory, but, in truth, the Iroquois provisions had boen destroyed, but these Denenville had by the English.
On the way back he put up a stockade ou the site of La Salle's fort at Niagara. which had been burned.

FROM BAD TO WORSE.
Governor Dongan, of New York, was
enraged over the expedition, and incited enraged over the expedition, and incited the Iroquois to make persistent war on
the French, who were in no position to the French, who were in no position to frritation had prevented the sowing and harvesting of crops. Everywhere there were poverty, famine, and sickness. At
Niagara, during the winter of 1688 , the Niagara, during the winter of 1688 , the
garrison of 100 men $d$ windled to twelve, garrison of 100 men dwindled to twelve,
so that at last De Denonville destroyed so that at last De Denonville destroyed
it. He asked for 4,000 soldiers from France to strike a decisive blow at the Iroquois; only $\mathbf{3 0 0}$ were sent. Mean-
while the Iroquois were demanding that the braves sent to work on the galleys the braves sent to work on the galleys
be returned, whereas many of them, suc-
cumbing to unnatural conditions, had cumbing to unnatural conditions, had died.
There were conferences upon confer-
ances, but no peace, and nowhere could onces, but no peace, and nowhere could
the French settlers work or sleep in peace; indeed, the very crops were sown With soldiers on guard. It was impos-
wilble for the country to progress under wible for the country to progress under
such circumstances. such circumstances.
Then came the Lachine.
the massacre at lachine. The calamity occurred on the 4 th and bailstorm which covered the advance of the Iroquois, 1,500 in number, who advanced thus, at the very threshold, of Montreal, all unnoticed, until their bloodcurding war-whoops warned the unhappy
victimg of their fate. In the darkness vind storm, the people were dragged out of their homes and slaughtered without mercy; many were tied to stakes in their own yards, tortured, and burned, while
the houses were burned up to the very sateways of Montreal.
Troops under Subercase were sent out to follow up the marauders, and set of In hot haste. Had they been permitted to do their will, the Iroquois party migh have been almost exterminated, afterwards that the majority

## Of them lay in the forest drunk, with the vance, however, was checked by a peremptory order from De Denonville, brought by De Vaudreuil, and so the last opportunity was lost. Next day, 80 men Who were attempting to join Subercas Iroquois; and presently the victors were seoquois; paddling off in their canoes. They gave ninety yolls as they went, to announce the number of prisoners taken; in reality they had carried ofl 120 and they shouted, "Onontio pou deceived us, and now we have deceived you ! <br> That night, across the lake could be seen the fires at which the invaders were burning some of their hapless prisoners. tributed among the tribes for further torture or adoption. <br> A little later in the autumn De Denonville was recalled and Frontenac was again sent out to bring ord chaos. <br> Hope's Quiet Hour.

## Jesus in the Midst.

## They crucified Him, and two other with

 Him, on either side one, and JESUS inthe midst.-S. John xix : 18 . Who walketh in the midst of the seven His disciples were within.... then
came JFSUS, the doors being shut, and stood in the midst.-S. John xx : 19, 26 . In the midst of the throne ....stood Will you look carefully at these texts ? Will you look carefully at these texts of sinful, suffering men. The second shows the King in the midst of His virible kingdom-the Church. The third true and loyal disciples. The fourth midst of God's Throne on high-is One Who liveth and was dead. Wherever we go, on earth or in heaven, we always ind "JFSUS in the midst." He claims of all men can take the exalted position spoken of by the prophet Zechariah : "The Man that is My Fellow, saith the LORD of Hosts." He was sold for the price of a slave, yet He sitteth on the
right hand of the Father-the place of highest honor in all the universe. It is not without reason that our Lord
was declared to be "Emmanuel-God with
us." We see him hanging between two thieves, criminals who were suffering the His head is His title of "King," written in three languages for all to read. His kingly character is written as plainly in
His face and voice-even the callous His face and voice vevan the thief can recognize His royal beauty of soul. What an added shame and disgrace to force such a shining character into the midst of blackened criminals ! Does He shrinks
away in horror, feeling that their presence is a defilement? Is He thankful to know that death will free Him from such low company?
Oh, no ! Listen to His eager invitation to one of those criminals to be His comrade still, arter death. He has no trary: "To-day shalt thou be with Me in Paradise," He says.
Christ came to call sinners to repentance, and He was taunted with being the "Friend of publicans and sinners." Ha This Man can seek ners, yet remain absolutely unstained. ners, yet remain absolutely unstained.
All men agree with the verdict of Pilate
"I find in Him no fault at all." "I find in Him no fault at all." A
white daisy, was growing near a coalwhite daisy, was growing near a coal-
mine. Trees, grass, and buildings around nust tak sai : this little flower to keep it so free from dust and dirt." Another man threw a handful of coal-dust over the
daisy, which remained as stainless as be fore. "It has an enamel," he said "which prevents dirt from sticking to it." So Christ, in the midst of sinners, remain uncorrupted and incorruptible. Think of the difference it made to the
penitent thief that he was not left to the companionship of a man like himself! He found the way to Paradise because Christ was crucified beside him. We don't know the fate of the other thie Persops
also.
We are part of sinful and suffering
humanity humanity. JESUS is still-though in-visibly-in our midst. He is listening to our words-are they harsh and uncharit
able in His ears? He knows our thoughts - do they ever hurt His pure soul? He notes all our deeds-does our unkind neglect of His brethren ever cut Him to the heart ? The King walks in the midst of the
seven-branched lamp-stand-the Church He seven-branched lamp-stand-the Church He The other day a man said to me lieve in following Christ, but I would never join my
too corrupt."
Yet it is Christ's visible kingdom on earth. It is His own feld-bought with
His life-blood. Of course growing amo. Of course, tares are growing amongst the wheat, as He has
whined us will be the case until the Judgment Day. How oan we be subjecto His kinging if we refuse to belong to the Church-do He is in the midst of righteous to belong to that Church? to is a daring and presumptuous thing to stand apart from one of our fellowe,
Baying : "I am holier, tham thou."
Browning, in "Chriatmas-Eve, "d describoe man who found himself one rainy nifht the company, and disliked the sermon and was thankful to escape inte the outer air. While he was congratulating himself on the superior quality of his own chosen way of worshiy
up and saw Christ.
" He was there.
On the narrow pathway, just before, I saw the back of him, no more-
He had left the chapel, then, as I
forgot all about the sky
No face : only the sight
Of a sweepy garment, vast and white, With a hem that I could recognize.
I felt terror, no surprise
Doubtless that, to this world's end Where two or three should moet and pray,
He would be in the midst, their friend: Certainly He was there with them !" Then the man was filled with fear at the thought that Christ was turning away and leaving him, because he had
despised His friends. So he held to the hem of His garment and was carried across the world to Rome. There was a great gathering of men under the Mighty Dome, and Christ went in to be in the midst of them, while the man who
held His garment was left untside, wondering at his Master's action

Left till He return, alone Abandoned still to bless my hold.' Then Christ entered a lecture-hall where a Professor was urging his hoarers to ollow the example of the Carpenter of "myth." Again Christ was "in the midst," while His disciple stayed out side, wondering. Was to more particuar than his Master?
We are very apt to shrink away from Him. Perhaps He is fnding more of Hi own spirit-the apirit of love and self sacrifice-in them than in us. To dospise others is to be conceited and seltrighteous.
Let us look now at our third text. The disciples were gathered together in
the Name of their loved Master-then He the Name of their loved Master-then Ho
suddenly revealed Himaself in the midst of them. He had been there all the time, but they had not known it. His two or three are gathered together in love to their Lord, He is always-though invisibly-in their midst. Can we afford to lose this blessing of being near Him? Are we already so strong and brave that
we can do without His fellowship? If we neglect the invitations of our King to meet Him in His own House-the invitation of a king is always a command pect Him to meet us whem can wose ex to be our Guest?
Now glance at the fourtl text. Ma with God is on the Threne. One with us in tenderest human armpathy and at the seventh chapter of Eevelation and you will see the white-robed throng gather round the Lamb im the midst of the Throne. This is no company, of angels. The robes have woel stained but now are washed and spotless, the
troubles of earth have endured bravely of eartuly these saints and "God shall wipe away all tears from their eyes."
Wherever we go, the Lord is always in the midst of us. He loves us too dearly
He liser to stand aloof
Hush 1 for the Master speaketh
even I, am at thy side.
Thou art not left alone.
Let not your heart be troubled,
Onward and upward and homeward press, Journeying 'neath My smile.' "' a Friend.
While writing this "Quiet Hour" the
postman dropped in my box a gift of $\$ 5$


Beauty Spots in Canada-Scene on the Maitland River, 12 Miles East of Goderich.

APRIL R101
THE FARMER'S ADVOCATE.

Coom an "AAdscate" reader, to be spent or some of our Lord's needy friends. there is always enough in it for each day's demands. The demand usually
fellows swiftly after the supply comes. Thanks ere due to many of you.

* The Ingle Nook.




 dropped into $=y$ den for lithe chat,
For ten yours I I have called her that,
 change the name.
She is always an cherry as a sun-
dower, you sympathetic when dower, you Aympathetio when you need empathy. Above all, she 18 gilled with broad charity towards the shortcomings ot others. Invariably she "makes allow-
Once,"
and holds that
whereas not approve of results, we must not too
severely $j$ judges, seeing that it it is quite $i m-$
 fives, or temptations, or limitations. She ie perfectly natural in manner and
dimple in life, is this $m y$ trend.
She dimply could, not poses. And she is pro-
 to be sure of anything. Another door
may open at any time and may open at any time and give one an
entirely different point of view.
That why life is so interesting." doer, may benenengecesary toul, was not that this highly educated to begin with, so tar as school-
 schoolteacher's eertilicate.-but she has
never cease
and and now, with two little children to care for, she io more anxious to mate prosres than over. She needs to do so, ho

 rub the wrong way, Ono resents their have Just one little endearing weakness or so to make them human, "not too
bright nor good for human nature bright, nor good for human nature's dally
food."
But where there is always at beck of it somme comet touch of Pharioosism, some little "Team-
 tho faultless one. In my friend there til
fault of being faultless. No one is
"af raid of" her. As she goes quietly
"end and unassumingly through life, she cadiaves a great circle of influence about You cant come within its what she is. without feeling her benign touch without being glad and rested to be She will not see this account of herself. If she did, I thinks she would cry.

To return, -she came into the office and after talking for a bit until the sunhe picked ho have entered with her, opened it, the heading of an As she "Modern Theology," appeared. "Well"," she exclaimed, and settled down to read the article.
Concluding it she said: "Don't you terested in real religion than ever before in your life? . . . Do you think so ?" (as though scarcely sure of her ground), or is it just that the clique of people we are thrown with seem to be all
aroused over such things?" I smiled, as sometimes I do when want her to keep right on, and she took the cue." "Why," she continued, "even ten years ago the people I knew never spoke of was in a shamefaced way. Now it crowd at least" (you see she can be colloquial, too, ("never seem to be so interested as when talking on such subFoots."
a moment she meditated, then went there must be an awakening everywhere. Why, nearly every magazine I pick up. has something on the subject,-but the articles are different somehow, from what
they used to be, and the best of the preachers are preaching differently. I do believe there is a great wave of religious thought going about the world, and it will leave us higher than it found us."

After she had gone, I picked up a book that had been left for me to read a week or so before by a young man of verity graduate and medical a UniThere seemed something in the fact of his youth and his education that seemed o stand out in the light of what my friend had been saying. I thought of known some years ago. Opening the book, I read, "Science that destroyed the idea of immortality is the very thing that is now proving yt:"n And passing on down the page
lowed up the writer's argument: It is now known that matter is never doits form. Nothing can merely reduced to nothingness. The investigations of the lowest organisms are practically even
 that under favorable conditions the germplasm seems capable of surrounding itself beginning of these studies, but at the beginning of these studios, but the pere
spective is immense. They show us that spective is immense. They show us that
life, instead of being lorded over by death, presses it into its service to help build up its structures and complete its
developments. Instead of being developments. Instead of being the day -laborer.
Nothing material perishes; and so it is
not farfetched to conclude be the fetched to conclude that it may greater and more important than much ter. Indeed, the highest thinkers of to day everywhere recognize the spirit world Spirit most real and most mighty. everywhere rules it.
And so Brierley concludes the book which he began with the assertion that souls." . . "We can each grow a soul," he points out, "if we are willing to pay this is really thesedly it is worth it, for torious life. Failure is, in the long run, standard a e man other, and by whatever a thousand facts in proof, but this one should be enough-the growth of the soul its very last day full of interest. The Universe knocks at our door and Spiritual power is simply we open it. capacity to receive. Limitless force lies at each soul's threshold waiting to make it
mighty." mighty.
This is one of the books of which 1 friends. Its name is "Studies of the Soul," the author, J. Brierley, and the publisher, Clarke's Publishing Houfie. James Clarke \& Co., 18 and 14 Fleet street, London, Eng. I do not know the
price, but if you are interested you can find that out by writing to the pub-
If you buy it, you may not agree with absolutely all that is in it, although I much care whether myself; but I don't main consideration is that we be made to think; isn't it? And surely we can be broad-minded enough to read any book
that aims high without becoming arose that aims high without becoming erose and ruffled because of a few passages with
which we may not at present agree.

Perhaps, one day, another door will open and then we. may see with new eyes, 13 the mental exercise of thinklige it all I ${ }^{\text {events. }}$
"I hope I have not encrowised on "Hope" 8 " domain, in this little chat to-
dey. I will not mind. I did so want to tell you about Brierley.

CROCHET PATTERNS-APPLAE DUNE LINGS.
Dear Junia,-"The, Farmer's Advoeatoti. is a welcome visitor to our homes, ant hold hints from the recipes and house I have been wishing for someone, burt: patterns to be published. I would like a pattern for the top to an underwaite, or a nice center-piece with a linen center pretty ones, but could never gee such tern. I made a very pretty and comPortable cap for driving from a pattern given last season. I am a farmer's wife a little fancywork in the winter to do so if convenient for you to publish those. patterns, I will be very much ploaseil I feel I cannot come for help without contributing a little, so will sand a recipe for apple dumplings, which are Make a syrup of nice.
tablespoon of butter, and 2 cups of ho water; add 2 heaping cups of sliced use 1 cup of four, For the dumpling i, powder, a pinch of salt, $\frac{1}{}$ cup of erase or milk. Mix and drop 8 spoonfuls into the boiling syrup. Cover tightly, and boil 20 minutes without lifting the lid. Serve hot with cream.
EIgin Co., Ont.
am giving you the best pattarne -
have on hand, all of which are so that anyone can copy them of without further instruction. The little wheel,
No. 2, is suitable for under No. 2, is suitable for undorwalat tope,
table-cover edgings, etc. simply salto the wheels, then join cogevier in two, three or more rowe as required, to form the necessary shape You will notice of novelty braid. Pattern No by an now of novelty braid. Pattern No. 8 is alice crocheted together. Pattern Ne . 4 ils suitable for a towel insertion if made of very home cotton. or for an underwalat not taking fancyworlit lesions now, it is not taking fancywork lessons now, th ie
 deed, I nearly ruined my eyes whim I tried that before, but I am glad to th:


No. 2.


No. B.-Crochet with one row of novelty


In fancywork, that excellent books on
grocheting, are issued by the D. Mr. C. Compang. This company will not sell the right to publish any of the patterns,
but the books may be procured from th Fancy Goods may be procured from the simpson's, or from any progressive fancy goods store. They, are not expensive otther; prices may be had by applying a
the places where they are sold.

FANCYWORK PATTERNS.
The price of each of the Transfer Pattorne given below is ten cents. When
orderfing, be sure to write plainly your mame and address. Allow at least ten deys to recgive pattern. Address The Tattern Dept.,

No. 672.-A design suitable for the tront of a waist. To be worked in em-
broidery and punched work, or French tmots.


No. 494 is a floral design suitable for
embroidering a waist or a blouse with cmbroidering a waist or a blouse with a
closed frent.
Patterns for stamping the collar frent. frontpiece, and two sprays lor the oleoves, are included.



be:\% $8 \% x^{2}$

\author{

## No. $6 \dot{5} 3 .-$ Design for embroidering the yokes of infant's and children's dresses.

 yokes of infant's and children's dreesses.Two yokes with sprays for sleeves or Two yokes with sprays for sleeves or
cuffs are given. The flowers and leaves can be worked solidly or
stems are to be outlined. <br>  <br> No. 486 is a conventionalized vine do-
ulgn suitable for embroidering spacee be-
}
tween groups of tucks on waists or in
(lirts, for the box plaits of children's
dresses, and can also be used dresses. and can also be used as a border for skirts or blouses, or for any object or which the design is suited.


No. 730.-A design for embroidering a girl's night-gown with round neck. The scallops are designed to be padded and
button- holed; the leaves and dots, to be worked in solid embroidery or as eyelets, or in a combination of the two, and the stems to be outlined.


## 

One impulse from a vernal wood May teach you more of man; Than all the sages can.
"She has a world of ready wealth, Our minds and hearts to blese-
Spontaneous wisdom breathed by health Truth breathed by cheerfulness.

Enough of science and of art 1 coose up those barren leaves, Come forth and bring with you a heart Little wonder all this unrest. The spring feeling is upon us, and our spirit But do you not think our spirits, too, have heard the call and are awakening? life worth while must be considered, and the possibilities seem to be demanding a way of escape. In each life are so many talents nestling, and as we recognize part in shaping the universe,
Each individual has his or her "standard," and without it life would be almost dormant. In our awakening may we be so touched afresh by this constant
resurrection spirit as to shed forth the best that we possess, and "press on" to a "higher mark," which means ceaseless effort. and in the autumn thank our Great worth while to present.

> Something attempte
> Something done!"

Peel Co., Ont.
papering and painting No. 680.-A design for embroidering, a PAPERING AND PAINTING. sleeves. The scalloped edges are to be through your paper, about papering and pre to be worked solidly with the flowers painting a dinning-room? have the woodwork grained? If you either solidly or as eevelets, and the what color would it look best painted, tems outlined. The ribbon can be We were thinking of painting the ceiling the dots solidly or in outline stitch, and a deep cream, flat tone, with drop ceiling, and light-brown oatmeal paper for
 would be all right. Our
dining - room is large and has two windows. FARMER'S
DAUGHTER.

## Ontario Co., Ont.

No. 720 is a design for embroidering a
corset cover, especially adapted to Manton Pattern especially adapted to May stamping the two front pieces, the back and the arm-holes, are given.

1 think your color-scheme idea charm ng, cream ceiling and brown oatmeal combination, provided would be a happy
you chance upon or very right shade of brown, a tobacco
or golden-brown, with no trace of red in it. Personally, I dislike graining very much, and prefer the plain wood, simply
stained. Graining is only an imitation at best, and all imitations are to be treated warily. Walnut stain would do very well for moulding, etc.

## BUFFALO BUGS

Dear Junia,--Have been a silent reader of the Ingle Nook for some time, and
always enjoyed it. Noticed that some always enjoyed it. Noticed that someone was inquiring for a remedy for buf-
falo bugg. falo bugs.
We have
cess. Sometimes the wallpaper has to be torn off the wall. Scald the floor
and wall with boiling salt and wall with boiling salt water. Do not think there will be any more
Wishing you success Wishing you success, I remain.
Waterloo Co DYEING-RUG-MAKING-WASHING Dear Junia, - Ansther ETC.
Dear Junia,-Another interested reader has come to you for help. Can you tell me whether satin can be successfully
dyed, and if so, how must I go about it to secure best results? As rag carpet is not woven any more around here, and I have a large supply
of nice, bright balls, I would like of nice, bright balls, I would like you to
tell me, if you can, where I culd them to have them made up into rugs, such as I saw at London Fair a few years ago. They resembled tapestry carpet, and one would never guess they

Here is a recipe for cleansing water to o used in place of sort water. Take a nedium-sized iron pot; fill two-thirds mill hardwood ashes and boil on the store for an hour or two. Fill a barrel wilt from the pot of ashes and let stand ove
night. The lime by that time will bo night. The lime by that time will be
settled to the "bottegn, and no lime wil collect on inside of pipes, if the cleanct water is used for heating purposes. To use up old pread or homemade ble puiding sauce as follows :
One tablespoon butter, 1 tablespoon brown sugar, 2 tablespoons flour. Meli butter and sugar together in a saucepas make the required amount, and milk to together until thickened. Season with nutmeg. Next cut breal in four piecon to a slice, and dip in cold milk; place $\frac{1}{4}$ a deep dish and pour pudding sauce over You will find this makes a very tasty. dessert, and remarkably cheap. Thanking you in advance, I remafr
yours in need.
MRS. W. F. B. Wellington Co., Ont.
If you are clever at dyeing, and very Maypole soap or with satin either with silk. Be careful to follow dire Dye for actly. If you can, beecure directions ore fooklets on dyeing, issuod by these dye
Write to Mr. Murray, Hamilton Rus in regard to york street, Hamilton, Ont., ada Carpet and rugs; or to the Canstreet, Montreal Rag Works, 66 Latour

## The Scrap-Bag.

## Care of bread pas

Give the bread pan a very thorougb washing with a brush, followed by a scalding after each using. Keep it corered, and wipe it out with a dry cloth every day. Only so will it be kept th fit condition to make bread.

TO KEEP SHOES FROM SLIPPING. Pumps for summer wear often give trouble by slipping. To remedy the fault, stitch a piece of ribbon elastic tightly across inside the top of the heel. This will prevent the continual wear of the heel of the stocking.

## SAGGING CANE CHAIRS

When the seat of a cane chair sagi. turn the chair upside down and scour the under side of the seat with hot soap suds, rinse in boiling water, and let dry in an inverted position.

TO KEEP THE HANDS SOFT
To keep the hands soft, even through the rigors of housecleaning - time, apply the following lotion before the hands aro dried each time they are washed: Dissolve a lump of gum camphor the size of a hazelnut in half a pint of alcohol; add one tablespoonful each of glycerine and of lemon juice. If the skin is maturally very dry, use less alcohol

TO SPRINKLE CLOTHES QUICKLY. To sprinkle clothes quickly, use a cheap whisk broom and clean, warm water. the whisk should be kept exclusively for of its holding dust and thus spotting the
clothes clothes.

USE FOR OLD SHIRTS
Men's shirts wear out usually around of the gebands and cuffs, while the rest may be trimmed good. The worn parto made inta a neck and elbow sleeves. Little aprons child afternoon or straight aprons for are other straps across the shoulder, are other uses to which the shirt may


## Contest No. 3

We have been requested by many readers of The Farmer's Advocate to rua another of our Contests, and we are going to make this the biggest prixe winner of any, and give you perhaps your last chance to install one of our
bath tuls in your home free of charge but with an additional prize of $\$ 2.50$ imCn

## Boltom Resto on Ploor

HERE ARE THE CONDITIONS
Send us $\$ 7.50$ and we will immediately ship you one of our regular equipment, is the same size as the standard enamel bath and carries a guaraatee for FIVE YEARS; every sixth letter which we receive will entitle the only send back the $\$ 7.50$ remitted us, but will also send the winners additional Cash Prizes of $\$ 2.50$, so that you are not only entitled to a chance of setting the bath tub free, but your $\$ 7.50$ will be returned to you together Should tor
Should there be any cheques outstanding in connection with our previous Contest they will still be accepted in part payment of a bath tub
UNDER THE CONDITIONS GOVERNING THAT CONTEST, but they will not entitite the holders of said cheques to compete in this Contest unless they send the full 87.50 . Everyone competing in this Contest No. 3 must
send the full price of the bath tub in CASH,
send the full price of the bath tub in CASH, namely, 87.50 .
Write to-day as this Contest will only appear in two issues of The Advocate, namely, April 23 rd and April 30 th. Mark all letters Contest No. 3
on outside of the envelope, so that we can keep them separate from our on outside of the envelope, so that we can keep them separate from our
other mail. Contest will close May 9th, 1914, and names of prize winners other mail Contest will close May 9th, 1914 , an
will be published in The Advocate May 21 st, 1914.

In joining this Contest we wish you to keep in mind the fact that we guarantee to give you the fullest value for your money by installing in your home
one of the greatest needs of modern times, and a bath tub which is being used in thousands of Canadian homes to-day with the utmost satisfaction. ADDRESS:
THE FOLDING BATH TUB CO., LTD.
agents Wanted GaNANOQUE, ONTARIO Agents Wanted

There is nothing quite so good as Bibby's "Cream Equivalent" Calf Meal. A pint will make sufficient rich nourish-


TORON or drect by
$W^{m}$ RENNIE COLimica TORONTO

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Health. - The Public Health Faculty Health.-The Public Health Faculty
of Weatern University, London, Established and maintained by the $\mathrm{O}_{\mathrm{B}}$ tario Provincial Governm LQuestions should be addressed: "New
Public Hoalth, care of 'The Farmer"s Advocate: London, Ont."' Private quesAdions, accompanied by a stamped, sell-
addressed addressed envelope, will receive private
answers. Medical treatment or diagnosis for individual cases cannot be preseribed.

## More about Foods.

 (Continued.)food that does Not feed. Although food is really fuel, yet the
animal body, especially the sensitive, animal body, especially the sensitive.
psychic, human body, is very particular
about certan about certain characteristics of food which are quite distinct from fuel value.
Even an ordinary furnace, Even an ordinary furnace, burning coal,
is somewhat responsive to the kind ot is somewhat responsive to the kind of
coal thrown into it. how it is piled in, coal thrown into it, how it is piled in,
how often it is shaken down. Everyone knows that one person may keep a beautiful, steady glow going, and another person, handling the same furnace,
using even the same coal, will have per using even the same coal, will have per-
petual trouble, fire too hot, or not enough, or smoking terribly, or going out at the critical moment. Our bodies are sensitive in the same way, and, like fur-
naces, each different body has its our little peculiarities. We can't, aster all,
measure and weigh out just se much measure and weigh out just so much
Pood, having just so much fuel value,
shovel shovel it into any human mouth, and
expect to get back just so much return in heat or energy. Many things besides
fuel value have a bearing on successful fuel value have a bearing on successful
feeding. Some of these are, smell, taste, temperature, and "feel." Everyone
knows how different the same essential elements, lard, sugar, flour, water, eggal and apples, may affect you if merely,
thrown together by a rough-and-ready roustabout cook, or if made into a really
artistic apple pie. Salt value; spices, of no fuel value; and a fuel
certain knack in putting them all gether to create a proper consistency or
touch the apot.0 mouth, are all meeded "o
FEEES OF ROOBS.
hasine eating the best of good colforImagine a beefsteak in liquid long it Imagine an apple pie maide up to ic turvy a meal ? Fancy how one mhy. criepnese in cartais eckes or biscuitd; ege ! We diblike crisppeess in a a blich ald bread, althougb wo want it in toast. No ference between fukewarm water the water; or between cofee piping hot calt otone cold.
We are cren
We are creaturce of habit and asocie tion of ideas, so much so that most a as would be quite as miserable living oo native Merican =ould cooking as a cooking. The food value is there, both here and in Merico, but the things that make Canadians and Mexicans individe. ally and racially happy in their feed, a chings are, would be lacking in the ex

MEN, WOMEN AND FOOD.
Women, according to Woods Hutchinson, have not, contrary to general beliet:-
as delicate perceptions of color, smell. and taste as men have, averaging up both sexes. Perhaps this is the reasols that, although women do the most cooking, men do the most eating, and think cooking than do good cooks and good
women. Food is bigger item in a man's. life than is a woman's-not, it is true, in the buying
of it, preparing it, fussing over it, but of it, preparing it, fussing over it, but
in the eating of it, and after all, that is In the eating of it, and after all, that is
what food is for , Women want things to look nice, but men want it to bo
nice-in their insides, not on the table So cooking, condimeats, consistency, and
correct temperatures, are all very vital items in "good food and plenty of it"vitamins. value itsoll. So far so good; everyene will accept the foregoing. But here is something
quite new in the last few years. There are certain things in certais ".feel." not temperature. Yet their, not sence undoes all the good of food, and esults sometimes in definite diseases. To understand how they act, the hisoutlined. A mysterious disease called beri - bert
haunts the East, especially the native haunts the East. especially the natived similar diet. It and ether countries of time to infection, them to "low dien "o and to other things. At last it wes noted that it occurred amongst those, and those only, whose diet was confinet only rice, but not amongst all rico-atora; only amongst those rico-eaters who ato polished rice, and polished rice only.
Polished rice is rice milled to remova the natural brown skin of the rice grain, leaving the clear, poarly-white grain we generally demand. Didently something tremely valuable then the was exwith beri-beri could eared by feeding with unpolished rice; or by collecting and feeding the dry, duaty powder, collsisting of this slin, alter it was removed ing the rice grain; or inally by treatcould be obtainod by ehemical processes from the powder. This substance was present in such minute quantities, that a ton of the "polishings," representing hundreds of tons of rico, yielded only a SCURVY.
Scurvy is a well-known disease, generaly brought on by an exclusive diet of long been known, by the use of fresh
vegetables. vegetables. But the reason why was not understood until the discovery of
vitamins. It is merely the lack of these vitamins, not any active poisons in the preserved meat that produces the
trouble. It is their presence in fresh vegetables that makes fresh vegetables a eure. In beri-beri, it was not the use
of polished rice that did harm; but the absence of the vitamins. Polished rice supplied fight, provided the vitamins are exclusive diat, however, polished rice is
failure a failure. The white people living in

## UHERE 1860

ODS
of good colte
Heatice
號：
that most rable living
cooking as living on on he things the
icans individ their feed，
ing in the

FOOD Toods Hutchin
general belie general belie
color，smel is the reaso ing most

APRIL 28， 1014
ther uned poitished rice just as the na－
tiven did；but they did not use it ex－ dusively．Because they had a liberal alxed diet，their

How do vitamins act？
Vitamine，it is thought，act in some 4 body colls，and mayy perhaps be com－ The train may be loaded，and the pas－ tive may have stoem up and full tive may have steam up and full power antil the little coupling－pin，not one－one－ thougandth of the weight or apparent importance of either train or locomotive， in found and dropped into its place．
practical applications．
An exclusive diet of superheated or over－cooked fodds，such as canned goods，
much－cooked milk，preserved meats，etc．， is likely to result in disaster from lack troyed on prolonged heating，or pre－ haps by chomical troatment．
The fuel velue，devors，feel，etc．，essen－ tial to foods may be present，but the
vitamins are noeded，too．So far，it would seem to be a pretty good rule al－ ways to have some as part of the diet．Milk，fresh， unheated milk，contains vitamins，as do many other foods，vegetable，and prob－
ably animal．So we will conclude this series by repeating the old advice： series by repeating the old advice：
＂Good food and plenty of it，＂and ex－ pand this to meet the latest discoveries by adding ：＂some of it raw．＂ H ．W．Hill．

Re An English Water Supply． Ques．－I was very much interested in 422．I should like to know what effect on human health water coming from limestone rock which centains lead ore
Fould have．
FARMER． would have．
Aigden Wiggleaworth，Long Preston， England．
Ans．－Certain types of water may at－ tity to render the use of such water for drinking purposes dangerous．As waters of these types may be included the very soft waters，acid or peaty waters，and waters matter in an active state of decomposi－ tion，such as bog wator．
In general，it has been found that Waters having the greatest amount of
dissolved solids and hardness，dissolve the least amount of lead．Water which may be classed as a hard water，and will contain a relatively large amount of dia－ solved solids．It seems probable，there－ ore，that the water which you describe lead to mako its use dangerous． otatement in regard to the potability of this water without first subjecting it to chemical analysis．Your problem is an make an amalysis and give you definite report upon its quality，if you
will send us，prepaid，a large sample （half a gallen or a gallon）of the water the analysis will be made free of charge the water to us，provided a sample of also．A．J．SLACK．

The Wife＇s Allowance． Editor＂＇The Farmer＇s Advocate＂
Thave hoard that it has been said re
cently by one of our prominent semit suffragettes that no young woman ahould marry before the question of an
allowance had been settled and the mat－ ter thoroughly threshed out．She goes centage of divorces to－day are a result Now， gether probable．If a man consents to ehare of the cash income of his busi－ ness，it is hardly likely that he would
have married in the first place were
this division the contract． But putting that phase of the question
aidde，the edvisabliity of a regular

IHE FARMER＇S ADVOCATE．

## THIS ADVERTISEMENT IS WORTH

## A HUNDRED DOLLARS TO YOU

LIP out this ad．，write your name and address on the margin of it，and mail it to us at once．You will
promptly receive our After－Easter Sale Offer that will save you One Hundred Dollars on the purchase of as fine a piano as anybody in your county owns or can buy．But you must act quickly－the number

## Sherlock－Manning $\begin{gathered}\text { 20th Century } \\ \text { piano } \\ \text { Piano }\end{gathered}$

## Canada＇s

Biggest
Piano Value
Every piano in this sale is brand
new，straight from our modern new，straight from our modern from the regular price is bona
fide．Thus this advertisement fide．Thus this advertisement actually repr
$\$ 100$ to you．


## Canada’s Biggest <br> Piano Value

You，or any musical expert can est the piano in any reasonable manner before you buy it．You you wish．You can choose that
style and finish you like best． Clip out this advertisement and send it now．

Bear in mind，that every piano in this sale is absolutely new and perfect－exactly the same SHERLOCK MANNING Piano that has won so great a fame for exquisite tone，long service and moderate cost．Clip out the SHERLOCK－MANNING PIANO COMPANY

## london

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are mainly composed of mortgages covering productive farms and residential city property
No loans are made unless the property be first carefully val－ ued by the Company＇s own inspector，and the Directors will not consent to lend more than $60 \%$
of such valuation
The current rate of interest is charged and liberal terms of repayment are to be obtained by a borrower

If you contemplate buying property，or need money this spring for We have a special Loan Department and you are assured that your treatment will be courteous and your private affairs kept secret．

IF IT IS NOT CONVENIENT TO CALL，WRITE US
The Huron and Erie Loan and Saving Co． MAIN OFFICE：－442 RICHMOND STREET LONDON，ONTARIO
．G MUME CRONYN Gemeral

## 는



## Firm Butter

$B^{\text {UTTER made from cream skimmed by the STANDARD }}$ Cream Separator is noted for its firmness．This is due re piece prevent the breaking of the globules of butter－fat centre piece prevent the breaking of the globules of butter－fat
during the process of separation．Just why the curved wings of the
catalog and learn
full particular 8
about this superior
machine，which
skims on the aver－
skims on the aver－
age down to． 01 per
cent．The ． tand－
ard cream separator
is a big money
is a big money
earner．Every man
earner．Every man
who owns two or
more cows should


The Renfrew Machinery Co，Limited
Head Office and Works：RENFREW，ONTARIO
allowance to the wife 10 a mubject for
argument that has not，up to the pres ent，been brought to a very mitiatactory concluelon．There are dimentiles con
nected with the working nected with the working out of the plan
that vary in the case of almest every individual．For one thing a shave of the proAts on the working of a farm， for instance，cannot be fegred out un－
till the end of the yoar； til the end of the year；se that the practically have to bo suessed at．Theo oxtra expenses such as builling，or un
usual loeses as by unfavaraile weather． might work a good deal of hardehtp
the case of the farmer who
 five her own ue．It＇e net a workaris
ncheme on the average farm，I would say．The yearly income fo too varibible． and in the majority of eases the expen－
diture has to be regulated according to the revenue．
Furthermors，no good business man wil money without giving a detallod account of the transaction．Moany mutually earned should be axpendod by consent o
all parties interestod；This is not preo ticable where the wife has her private purse and a stated allowanoe from her
husband．The way out of the husband．The way out of thle dimeulty
is very：easy，it seems is mo．It is is very ：easy，it seems to mo．It is a
fairly common practies for firmers to hand over to their wiven any money they receive，and then whon they mant it to go to her for it．The reason for
its expenditure is usually givan and her its expenditure is usually givee and her
consent obtained．Now，why equid not conisent method be made uaivarsal，amone farmers at leapt？The faet that money is now generally pleced il the bank
when not required for in when not required ior the tiate vee
need not stand in the was．The point is that a spirit of partimeritil between a man and his wife，caulaty them to consult one aniother in all matters con－ cerning the Ananciel sile of the＇bual－ ness，would go a long way towards solv
ing the＂allowance＂ ling the＂allowance＂question．Some say have to ask her husband for money．Is it not much more humiliating to b given the standing of a servant
houee－keeper and receive one it were，weekly or monthly？There is just ons word that describes the ideal conditions for husband and wife where financial matters are concerned，and tha word is partnership．It puts them on
a basis of equality．where all men and their wives should be．It createe mutual respect and gives the wife an in－ terest in the business，and an opportur－
ity for helpfulness that she could ity for helpfulness that she could not
otherwise have．＂Two heads otherwise have．＂Two heads are bet－
ter than one．＂especially if one of them
belongs to a woman；if I may be

## Give Me a Chance to Prove My Flour

## Cream is West Flour

the hard wheat flour guaranteed for bread
For several months we have been selling flour direct from our mills to the farmers of Ontario Have you taken advantage of our splendid offer? If not, you will find it profitable to do so now. Read our prices

## GUARANTEED FLOURS.

Cream of the West Flour [for bread]. Per 98.1 b
bag.
Cream of the West Flour for bread]......... $\$ 290$
Queen City Flour [blended for all purposes]. 250
Monarch Flour [makes delicious pastry]

## CEREALS

Cream of the West Wheatlets [per 6-lb. bag]
Norwegian Rolled Oats [per 90-1b. bag]
Family Cornmeal [per 98-1b. bag].

## FEEDS.

"Bullrush" Bran.
135
"Bullrush "Middlings",
Extra White Middlings
"Tower" Feed Flour
"Gem" Feed Flour.
Whole Manitoba Oats.
"Bullrush" Crushed Oats
Manitoba Feed Barley.
Barley Meal
140

Oil Cake Meal (old process, ground fine)
150

Chopped Oats.

- 155

Prices on Ton Lots: We cannot make any reduction on above prices,
even if you purchase five or ten tons. The only reduction from the above even if you purchase five or ten tons.
prices would be on carload orders.
Terms Terms Cash With Order: Orders may be assorted as desired. On shipments up to five bags, buyer pays freiy ht chasges. On on shipments. over
five bags, we will prepay freight to any station in Ontario, east of Sudfive bags, we will prepay freight to any station in Ontario, east of Sud-
bury and south of North Bay. West of Sudbury and New Ontario, add bury and south of North Bay. West of Suddury and New Ontario, add
15 cents per bag. Prices are subject to madber

## Any One of These Books Free When You Buy Three Bags of Flour

The Dominion Cook Book has 1,000 recipes and large medical department. The books by Ralph Connor, Marian Keith and J. J. Bell are full of absorbing interest. Start now to build up your library with these books. You may choose a new book each time you buy three bags of guaranteed flour from us (any brand). If you buy 6 bags, you get two books and so on. Enclose 10 cents for eack book to cover postage. To get a book remember that at least three bags must beflour.

Dominion Cook Book
Books by Ralph Connor :
Black Rock
Sky Pilot
Man From Glengarry
Glengarry School Days
The Prospector
The Foreigne

## The Campbell Flour Mills Company, Ltd. <br> The Campbell Flour Mills Company, Ltd. (WEST) Toronto, onTARIo

Duncan Polite
Treasure Valley
'Lisbeth of the Dale
Whither Thou Goest By J. J. Bell
allowed to bring the old proverb to its
$\begin{aligned} & \text { logicar conclualion. Anyway, this seems } \\ & \text { to me to be the reasonable solution of }\end{aligned}$
$\begin{aligned} & \text { to me to be the reasonable solution of } \\ & \text { what sometimes becomes a dificult prob- }\end{aligned}$
lem, and if married men, and especially
farmers, will give the method a trial
don't think they will be disappointed
$\begin{aligned} & \text { by the results. A "square deal" brings } \\ & \text { out the best qualities that a man has }\end{aligned}$
$\begin{aligned} & \text { out the best qualities that a man has } \\ & \text { been endowed with, and it is none the }\end{aligned}$
$\begin{aligned} & \text { less effective in the case of a woman, } \\ & \text { Take her into the firm, give her a share }\end{aligned}$
$\begin{aligned} & \text { Take her into the firm, give her a share } \\ & \text { in its management, and don't let her }\end{aligned}$
think you want to pay her of with a
$\begin{aligned} & \text { share of the income or a weokly salary. } \\ & \text { It's her business as well as yours, yours }\end{aligned}$
as well as hers, and if there's a profit
over living expenses, showing at the end
$\begin{aligned} & \text { of the year, it should go into the im- } \\ & \text { provement of that business, not into }\end{aligned}$
$\begin{aligned} & \text { proveracht of that business, not } \\ & \text { the pocket or private bank account of }\end{aligned}$
$\begin{aligned} & \text { either partner. As they say over in } \\ & \text { our neighboring republic at election }\end{aligned}$
time, "Let ,us have progress, prosperity
and peace." These desirable conditions
of what I have tried to outline, that is,
a co-operative partnership on the farm
and in the home.

## TheBeaverCircle

Our Senior Beavers.
[For all pupils from Senior Third to
Jontinuation Classes, inclusive.]
Fairy Music.
Oh, you shall play a seaweed harp, And you, a beechnut violin, Till your thin music silver-sharp
Invites the vagrant fireflies in.

And you shall play a moonbeam flute And you, a mullein-stalk bassoon Till all the crickets gather mute

And you shall play the shepherd horn And you calls white fancies home like sheep And you, the oboe all forlorn
That Oberon gave you to keep.
For you will both be fairies then For you will both be lairies then
And one shall sound a coiled shel To pilot fairy sailormen,
And one shall ring a crystal bell
And you with yellow hair will need But you shall play a river-reed Like any little nut-brown faun. And Syrinx will forget to fle And Pan, what mischief he had planned Pipes up the moon of Fairyland. -By Grace Hazard Conkling, in The

## Kettle Talk.

## "I don't feel well." the kettle sighed.

 The pot responded. "Eh ? You do not sing to-day,But what's amiss?", The kettle sobbed. Th you'd heve noticed that the Is shockingly unkind.
I watched her make a cake just now-
If I'd a pair of legs If I'd a pair of legs
I'd run away ! Oh, dear ! oh, dear I Nor was that all, remember, pleas
'Tis truth I tell to you-
For with my own eyes I
Her stone the raisins, too
And afterwards-a dreadful sight
The cruel creature took a fork
And soundly whipped the cream
How can you wonder the
How can you wonder that my nerve

Have rather given way ?
Although I'm at the boiling point,
I cannot sing to-day,"
I cannot sing to-day."

## Funnies.

The teacher was instructing the young
sters in natural history. "Can any lit-
tle boy or girl," said she, "tell me whe
an oyster is ? ?"," said she, "tell me what
The small hand of Jimmy Jones shot
Into the air
Into the air.
"I know, Miss Mary ! I know !
"is a fish built like a nut."-Christian
"Mother," said little Mabel, "do mlo. onaries go to heaven?
"Why, of course, dear
piled. of course, dear," her mother ite
""No, I am afraid they don't
"But, mother," the little girl insisted, if a cannibal eats a missionary, hell
have to go, won't he?", Little Alice was to speak in public fol the first time at a Sunday - school con
cert. When it came her turn, she aroen and walked across the platform ver bravely, but being seized with a sudde. attack of stage fright, she could not find
her voice. Something came up in throat, making her gulp and swallor but no little poem was forthcoming. Finally, turning a frightened face her teacher, she gasped, "I've swallowed
my plece."-Nettie Rand Miller.

A littie boy of five was invited to children's party. The next day he wan that each of the 11 ttle visitors had cor tributed either a song, a resitation "Oh, poor little Jaok?" said mother. "How very unfortumate you could do nothing : "Yes, I could, mother," replied the
young hopeful. "I stood yp and satd my prayers.'
"What became of that little kitten you ask asked a visitor of the small boy "No: was nht you heare
"Noo."
"Poisoned \%"
"Then whatever did beceme of the" said the vigitor.
"It growed up into a eat," wes th reply.-Crescent.

## Chickadee

(Written for Beaver Circle by Mre, E. The ground was all covered with snow When two little sisters were busy at play, And a snowbird was siting close by one And merrilly singing his "Chick-a-dee

He had not beer singing that tune very
Till little Emily heard him, so loud frae "Oh, hister, look out of the whalow," "Here's a dear, little bird singing
$\qquad$
know.
I would not stay out in the cold and akes him so full of glo He is all the time singing his Chiok-e Oh, mother, do get him some stoekinge And a nice little hat and a frook is bo wish he would come inte the parler wish he woul
and see
and
How warm we would make hime, peor
The bird had flown down for some piocea And he heard every word little Thelly "How said. $q$ queer I would loak in that How queer I would loak in that And he laughed as he warbled his Chick-a-deo-dee
I thank you dear child for the wish But I have no oxpress,
no
should rather remain with my limbs
should rather remain with my limbe
all free Than to hobble about singing 'Chick-an "There is one, my dear child, though I That has clothed me already and warmGood morning too,

And away he went stinging Chick-a-de

APRIL 23. 1014
Senior Beavers' Letter Box. My dear Puck and Beayors,--Spring is here again, though it does not look so comes maple-syrup making, and sugaring off. I am just going to toll you how
used to amuse mysolf about this time, a after the snow was all gone, and it had begun to get warm. I have not always uved here, but at a place near Wattord with my father and mother, on a Parm adoining my grandrather's home. There mas a large currant bush behind the
bouse, nearly grown into a tree. Under It were old cans, and sometimes dishes, which, though useless, might not be broken. There was a creek running not lard the house was a garden with a rench running through it. In the spring It would be filled with clear water. As there were currant and berry bushes right,
around it, we played that it was our around it, we peayed take whole packs of cans and fill them up, then bring them to the boards by the cellar windows, where we poured the make-blieve syrup亚 oorbed was I one day, I did not hear
nything behind me. But all at once I heard the low "chirk, chirk," of my one enemy, the gobbler. Hastily jumping up, ( dodged him, ran past him, and ran when I dodged him, he had to turn around before coming after me. But There were four or five of them there at One of my uncles I seemed to like apecially well. He was never or tired or read or tell me stories. Now it is all different. The two old homes are three of my uncles have gone to slace, katchewan, one of them being the abovementioned favorite. He has two little daughters now. Then, two of my aunts have gone to Alberta, one near the are trained nurses in Toledo, and one atill stays with grandfather in Watford So you see how times change.
We have a rural-mail delivery. so handy. Before, one of our neighbor Who owned a farm. near the station, though he lives just across the road, al
ways brought our mail, and we had to call for it. As was looking over '"The Farmer' Advocate," I saw a letter from Vera St Clair. I am glad she has joined the teresting letter. gou have published every one. Thank you for it. I remain your loving little curly-headea Beaver. LUCILE GLASS. R. R. Ne. 3, Thorndale, Ont.

Dear Puck and Beavers,-I thought would write and let you know I received -my prize, which I like very much, Many
thanks for it, Puck. Well, Beavers, spiring will soon, be here, and we will den. I should like to join the Garden Competition again this year. May I,
Puck I think Alice 'Sexsmith made a mistake when she said I was a smar girl, for I am not, but I hope to do
better this year. Well, I must be going, and make room
for someone else. With best wishes to the Beavers. RUBY BREADNER (age 13). Fort Erie, Ont., Box 38 Cortainly you may join in the Garden vers who intend to take part in it, kindIy send in their applications not later than May 24th. Send application on a ellip of paper by itself, not embodied in Dear Puck and Beavers, -1 have just
been reading letters, and thought I would like to see own in print. Will you be kind mough to publish it, Puck ? I wish you
did not have a w.-p. b., Puck; as my lormer letter did not escape it, I live on a
225 -acre farm. We have ten horses. My lavorite one is "Jummye." She is about eighteen years old, but can trot very
fast. I had a school garden last year I hadich a school garden last year
consisted of potatoes, mangels, corn, and sweet peas. On September

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Toth-the school-had \& fair, held at Brineron. I won several prizes. First
prize on weed- sefds; second prize on candy; second on an apron, and second on an ted to two dollers I, which Ruby Breadner and Hazel Yelland"a placures in "The Farmer's Advocate," which 1 much admired. I am very much interested in the Beavers' gardens, as well as my own. As my meter is lengthen Circle every success.
G. H. MADELEINE DRISCoLL.
Brinston, Ont., R. R. No. 2v
Dear Puck,-You certainly have made made me a very proud and happy girl by presenting me with that copy of
-Lives of Great Men," press how I feel about it, or how I can express
while $I$ mas
Itanks for your goodness
wember of the Beavar circle. You have encouraged me so much that I feel better prepared to tackle the series of long essays just
ahead of me in school. I am working at one now called "A Day in Canade," to be handed in May 1, and, thanks to you, I have that "T'm-going-to-win" feel-
ing, which makes
me spend ing, which makes me spend more time
on it and take more care tences, but while working at the style, Thifake good care not to read how the that makes mine seem so meamestives, for that I soon give up in despair you have showed me that I can beat a Tew, and encouraged me so that I want tice for me, which $:$ is perrhaps the most essential thing.
Now, though I have been obliged withdraw from the Beaver Circle on acbe of any use, you will not hesitate to
tell me. I would be no tell me. I would be only too pleased
to do it if I could do so. With the best of wishes for the success of the Beaver Circle and its members. Try to learn for the sake of "kno ing," not of "beating," Winitred. You little girl.

Dear Circle,-This is my second letter to the Beavers. Since my last letter, my brother Ernest has been very ill with
typhoid fever, and I have been ill for typhoid fever, and I have been ill for
two weeks with tonsilitis. Poor mama is nearly tired out, as she did all the be sitting up now. My other brother the farm. I have a mile and a quarter Miss Harrison, and I like her very much She is very kind to me. She is going to see my sister next Saturday. I have
had so many nice letters from the BeaMy little dog comes down the lane t He likes to get my bits of dinner that
I have left. My brother likes to read I have left. My brother likes to read
"The Farmer's Advocate" as well as I do. When he was in bed he loved to get.
it at nights, when I came home from
scher school. Our mail man comes at four Bubbie. Our work horses colt called dales, and one of them killed our drive my letter, as it is getting rather long Thanking all the little Beavers for their kind letters to me, I remain your loving At. Thomas Ont.

Dear Puck and Beavers, -1 will writ our post hfices. I live six miles from lake. I am a boy of thirteen, and I a dog. ber every day. For i have horse, and one cow. Watch; a kitten;
I live on a farm of one hundred acre I like the country very mueh. I am ver
fond of riding horse - back and drivin horses.
We have fourteen head of cattle on ou farm, and four horses. I can ride horse-
back on two of them. I like dotng chores in the winter-time. There was a temperance meetings in we winter; there was a hard fight.
T got a lot of things for Christmas We went away on Christmas. We had
chicken and plum pudding for dinner. 1

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erdinary Lincoln or Cotswold ewe is worth several times as much for fur as the usual lamb is worth for meat when six months of age. It would be well for fur farmers to read up on the possibility
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Chborne, W. L. DUNGAN Ontaric White ROY MAUS, R.R. No. 2us, Paris, Ont.

THE FARMER'S ADVOCATE
had a great time in the afternoon. For
supper, we had a ot of cakes. Fher
we came home, and on New Year's day e. had someone here for dinner. Yours
CLARENCE TOUGH. Bayfield, Ont.

Dear Puck and Beavers, - This is my
frrst letter to your
will

are: "The Tale of Two Stowaways,
and Other Stories." "The Basket Flowers," "Little Men "The Basket o Women," "The Hoosier Schoolboy," "My and Other Stories," "TWinnie's White Frock, 'theand I am now reading "uThe Girl For pets have a kitten called Toby and a dog whose name is Collie. He
will shake hands and roll over, and peak whe hands and roll over, and We have a mile and a hall to go to In summer we walk; in winter
our father drives us, for the snow is to our father drives us, for the snow is to
deep to walk. Along with my other work I take music lessons. I hav passed the elementry exam. in music.
My letter is getting long, so I wil lose. Your Beaver. KATIE shields.
Lansdowne, Ont., R. /I. R. No. 3.

Dear Puck and Beavers,-This is my first letter to you. I hope it will make
me a member of your Circle. My father as taken "The Farmer's Advocate" for o our home. I like very much reading the Beavers' letter's. I go to school
every day; I like it very much. $\begin{aligned} & \text { Our }\end{aligned}$ chool teacher is Miss Arsenault; we like her fine.
In the summer I like very much to go
in the fields when they are making hay We the fields when they are making hay We have an egg circle of over 200 mem-
bers, of which my father is secretary We will soon have a car ferry between P. E. Island and Now Bruns will be a great advantage.
lucy arsenault.
Age 13, Sr. III Class.)
Orbinville, P. E. Island.
Dear Puck and Beavers, -I have been a long time. My father has taken
"'The Farmer's Advocate" fince 1886 . was amused when I read the composi tions by the boys on the "Giris." It
seems to me they thought girls were queer creatures. I live on a farm of about 400 acres near the city of Fredarictom on the opposite side of the
river. This is my second year at the Fredericton High School. I have abīout two miles to go to school. In the sumwhen I started to High School.
We have had great fun skating and diding this winter; one afternoon we on the ice; that was the last time I was

The young girls around here have a Sowing Circle every Friday evening. Wo an enjoyable evening. My younger sister has ${ }^{\text {a }}$, pet lamb
and about, two weeks old. It will fol low one about everywnere.
My youngest brother is taking lessone on the violing my sister, on the plano. She has taken over three quartors. myself, but I have not taken any fo
two or three years. two or three years. will be on? I think I shall try my luck if the subject is not too hard. I love to read broks. If I have a
grod book I amm never lonesome. We
hate and avery have a library at echool, and overy
Friday we may have a book. Our Sundiay School has another library, so have a good chance to get booke.
have read the "Elsie Books," some of the "Mildred Books." some "Alger" and Among my favorites is "The Girl of the ${ }^{\text {Litmberlost. }}$ "Freckles."
others.

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Nashwaakeis. N. B. LOIS A. Wein,
Pashwaakens. N. B.
P. S. I wioh some at Me. 14.)
would write to me.
Dear Beavers,-This is the eesen inme
I have written to your Oivelo.



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## and I comes.

I am eleven years old and in the rourth book. I like reading and have quite a few books. My favorito one Weoded," "Beautiful Joe," "Little Lor Feeded," "Beautiful Joe, "Black Beauty." I like animals very much and have
quite a few pets. My cat "Tortie" has a queer name but looks about as funny. because she is about all the colors a
cat can be. We have a dog "Rex." cat can be. We have a dog "Rex." He
is not quite a year old yet and is lota is not quite a year old yet and is lots
of fun. I have an old dog harness that I sometimes put on him, but he does not go very well yet. If he has done aomething wrong he will put out hi make friends" with all the horses too
Well, I guess that will be all for thi I hope the w.-p. b. will not be
any hungrier than it was before. Good Ca Your friend, Camlachie, Ont. HELEN JARDINE. P. S.-Will some of the Beaver girls
about my own age please write to me.

Dear Phick and Beavers,-I have only sent two letters to your Circle; so this is my third. I am going to write the
very best letter that I can. I live in a beautiful part of the co ntry; it is
all beautiful hills and valleys. My home is near the Montreal road. Montreal is one hundred miles from our place. Th father's farm. Just across the river from us is Duck Island. I guess a good many Beavers have read of this in about ten feet there is a ledge of rock. A great many people don't know about
this and there are sad accidents some times. Nearly every summer somebody gets drowned. I live on a pretty big
farm ; there are about three hundred acres in it. My sisters and I have a berry. I am going to join your garden competition again this year Puck. Mine was a failure last year because of an
abscess on my hand. the doctor every day, and the chicken ruined my garden while I was away. I hope the Beavers will not think this is too dull altogether. One of your hard-working Beavers,
MARIA HOPKINS
R. R. No. 1, Ottawa, Ont. $\underset{\text { (Continuation Class.) }}{\substack{\text {. }}}$

## Honor Roll:

Hope Cochran, Joan Anderson, Reo
Coultis, Cladys
Clark, Anne
Cameron, Ewiod Shales. Aggie Casselman, vera

Beaver Circle Notes.
$\qquad$ this paper, Jean.
Hilda Johnon, Greenwich, Nova Scotia,

## News of the Week

Mr. Rowel's bill to abolian the bar
was rejected in the Ontario Legisiatura Upwards of one thousnand delegates waited on the Government at otitega, on
April 15 , to urge the early construction of the Georgian Bay Canal. Fernand Forest, inventor of the explo-
sion motor enkine, which rendered possi-





 one of Parkman. the historian, in
otawa, and one of Queen Victorie.
order to promote a better understanding among the nations, a portion of the trips abroad to newspapermen, of all nations.

At time of geing to press, the fleet of
46 American warnhips, carrying 21,000 men, despatched by the United Statea to Mexico, in order that proper recognition oute, President Wilson having flatly re fused to consider. Huerta's demand that the Mexican and American salutes be Ared simultaneously, while Huerta will agree no other condition. Hostilities are

## The Ivory Snuff Bor.

## y Arnold Frederic

 (Copyrighted.)DUVALL'S DANGEROUS DELAY, Richard Duvall looked at the tame panion, and once again a feeling of sum prise swept over him as he observed the little Frenchman's joy at the recovery
of M. de Grissac's snuff-box. of M . de Grissac's snuff-box.
morning and of the night before, the do morning and of the night before, the dosignificance of the object of their search, now that he for the first time saw it aroused him, his curiosily was once moro Surely there
vast interest worthless bit of ivory to make its thell the reason for a brutal murder, its re covery a matter of such extreme impor sider the honor of his country at statho. He took the box from Duffrenne's tremb. bling fingers and examined it carefully. It was about two and a half inches to
circumflerence and quite shallow, not over hall an inch in depth in all. no The ivory was old and yellow from
use and time, and wery thin and use and time, and wery thin and
smooth. The lightness of the box min. prised him-lt seomed to weigh almont of his hand.
The circular top of the box was curl.
ously ornamented with a circle of small colorless pearls of triffing varcle of smaly regular intervals about the edge of the cover. Within» this row of pearls wae
an inscription in Latin. carved in ting letters in the ivory.
From its first words, "Pater Noster," Duvall saw that it was the Lord'b
Prayer. The letters extended arousd the circumferencs of the box in several ring of pearls. In the center of the
box was a cross of thinge inside of the box was a cross of ivory, carved so an to be slightly raised above its general
surface. Beyond this, the box contaisAlong the front edge of the box Duz vall noticed a small spring. He preseed
it in considerable excitement. Evidently the reason for the box's value must be within-some papers, no doubt, of ex. the box fly upward and glanced hastily inside. The box contained nothing bui a lew pinches of snuff.
Duvall was almost tempted to laugt
The whole thing seemed so ridiculous-se The whole thing seemed so ridiculous- ${ }^{\text {so }}$
utterly absurd. Absent-mindedly ho tried a pinch of the snuff, inhaling it in
to his nostrils. It produced nothing more startling than a violent fit of sneezing. Undoubtedly M. de Griseas had told the truth. He did use snuld a moment ip silence, then, looking prenne, ho sanco, then, looking at "It isn't worth a hundred francs." as he followed Duvall's glances. "No, monsteur; what you say is indeed true,
yet I would not sell it for a hundred million." "But why? What is there about that makes it so valuable? Surely yoo
can tell me that, now that we havo "Alas, monsieur. I could not tell you even if $Y$ knew, which I assure you I do
not. I can only say that M. Leferro has told me that it holds within it, tho fore I would not sell it for all the Duvall was clearly puzzled

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## FOR SALE


dently some mystery about the thing that I do not understand, but I suppose first duty is to return the box to $M$. de Grissac.
"Yyu are right, monsieur, and at
once. There is a train for Antwerp in once. There is a train for Antwerp in
half an hour. From thare we can take half an hour. From thire we cet us set
the night boat to Harwich. Let out without further delay. "And that fellow in there?" remarked
the detective with a grim laugn. the detective with a grim laugn "We've got to take' him with us, yo
know. He'll be wanted in London fo the murder of the man Noel."
"Yes. That also is important."
Dufremne went into the adjoining ruom Dufremne went into the adjoining ruom
and stoud looking at the sleeping
and barder
"But not so important as the retur
of the snuffi-box to M. de Grissac." of the snufi-box to M. de Grissac." of Selt'z arms, let it drop suddenly. It fell to his side lifeless.
"He's sleeping like a log. The docto 'He's sleeping have given him a pretty stiff doep I don't see how we are gong to travel
with him in chis condition." with him in this condition.
"Then we must leave him in the car of M. Lefevre's other agents here in Brussels. We cannot delay an instaut ${ }^{\text {on }}$ "I do not agree with you, monsieur. There is one thing which is as moportant to me as the recovery of the snuflbox could possibly be to M . de Girissac,
and that is the safety of my wife." "Your wife?" Dufrenne stared at him "Yes, monsieur. My wife. She is at present in Dr. Hartmann's house. How
she came there, I do not know, but I imagine that our friend, the prefect,
fent her there to assist, if occaston sent her there to assist, if occaston
offered, in our work. In that he was
wise: but for her presence I he was olan would have failed. Had Seltz rung
the door bell and been admitted bin nlan would have rand been admitted by any
the door bell and
of the doctor's servants. I doubt is


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ehould have boen able to get the box
trom him bofore the latter- had ssen
him. I should then have been obliged to use farce, and the results might have been disastrous."
"Yes, monsieur. I see that. The young Iady at Dr. Hurtmann's was sent
by M. Lefovre. His agents have already informed $m e$ of that. But that she is your witt I did not know.
Ho pondtored for a moment, glancing at his watch.
"It is a great puty. Delay may be most dangerous. Why do you not send
her word to join you in Paris?", Duvall frowned and began to ebout the room narvousig.
"A fow hours" delay can malye no ference," he presently said.
is perfectly safe in our hanus. I am
not, however, at all convinced that, wife ls perfectly safe in the hands of Dr Hartmann.
"But he knowa nothing I
That I cannot say. So far he does mot, I think. suspect that Seltz was the
man he expected from London. If he had, he would never have let me leave
his office. Luckily for us Seltz was a his office. Luckily for us Seltz was a
stranger to him, and, with the murder of Noel on his conscience, he feared to say anything to the ductor about the snufl-box while I wás present. I im-
agine he suspected a trap of some sorr. agine he suspected a trap of some sort.
But the doctor will discuver, probably But the doctor will discuver, probably tricked. Then he will begin to investicate, and if he find out that it was my wife who admitted the man, he may in his rage decide to retaliate upon her. au1. har. She must go with me. Upo that. I am determined.
Dufrenne looked grave, and a glint of angor came into his eyes.
The service of France, monsieur, i
more importunt than your prive affairs. I beg of you that you leavs hare at unce."
"But why, my friend? We can leave Just as well in the morning. The box "Safe, munsieur ! Let me. tell you that neither the box or you yourself are safe for a moment, as long as you re main in Brussels.
greater danger if would be in no about a package of aynamite.
"You are unduly nervous, monsieur." laughed Duvall, as he observed the

Frenchman's look of terror. D'I have
every confidence in my ablity to tell care of myself. I must notily my wife. to join me here as soon as possible.' "How do you propose to do so?" quired Dufrenne.
For a moment Duvall was puzzled. "You could not safely call her up by "For her to leave the sanitorium now. in response to such a call, would at tract the doctor's suspicion at onice. Ho is probably quite well aware of the fact he should khave her followed herseels. If her meet you, he would at onee conclude that there was something wrong about the whole affair. He is very well known here in Brussels, and very
powerful. Undoubtedly he would have powerful. Undoubtedly he would have
you both arrested on some pretext Once you are searched and the smuff-bor taken from you, all our work is lost."
His earnest His earnest face, his frightened tones, the force of Dufrenne's arguments saw the thought of leaving Grace to yel the brunt of Dr. Hartmann's anger was intolerable.
He booked out of the window in silence: or a long time, trying to think out safety. A gentle tapping at the door caused him to turn. He nodded to Durenne, who at once went to the door The newcomer proved to be Lablanche, of the prefect's office, whome Infrenne
ad met earlier in the day o Duvall, who knew him slightly, then sleeping figure on the ed.

he inquired eagerl
Duvall nodded.
This fellaw the indicated Seltzmust be taken to London as soon as leave the matter to you "Excellent, monsieur. He shall be well taken cars of. I presume that you and M. "Dufrenne will start at once." "I desire first, M. Lablanche, to get
ny wife from the house of Dr. Hart$\underset{\text { mann." }}{\text { Lablanche gave a low whistle. "I }}$ should not advise you to attempt to communicate with her, monsieur."
"You think her sudden departure

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Wouldn't it be worth your while to buy the One and Only 11.P. Sauce?

## 'Undoubtedly

"Then we must arrange for her to
ome to Brussels this afternoon on some pretext. If she only had some friends "'The American minister, monsieur !" exclaimed Labj/anche suddenly. recommended her to Dr. Hartmann. I quainted with your wife's people. Per haps ha would undertake to telephone to her. That would be entirely sale. But I beg of you, monsieur, do not le object in going to Dr. Hartmann's was He knows her only as Miss Ellicott. He vouched for her to Hartmann. If he knew that he had been used, it woul nake him extremely angry.
For a few moments Duvall silent thought, then picking up his in went toward the door.
"I will see the American minister at nce," he seid as he went out. "Wait for me here, gentlemen. I will be back
within an hour." Within an hour.
Mr. Phelps, the United States min-
ister, was busy in his cablinet when Duvall was announced. He took the card from his secretary and glanced at it
carelessly. The detective's name caul him to start. "Richard Duvall," he said aloud to
his secretary. "Surely it can't be the well-known detective? Yet the name"wrinkled with thought. Duvall's distinguished position as the author of
several works on the science of criminology was well known to him.
"Show him in," he said at length, and began to relight his cigar. moments had explained the object of his visit. the minist nann's as a patient. Mr. Phelps
mater nodded, and added that he had met Miss Ellicott, and had used his influence to enable her
services.
"uThe
"The doctor is a great friend of gard him minister remarked. "Ire scientists of Europe."
"Undoubtedly," the detective gravely "I am not aoquainted with him gravely. I am not aoquainted with him
myself. My business is with Miss Elli""Then why have you come here?" asked Mr. Phelps with some asperity.
"'The doctor"s house is but a few moments' drive."
"I know that: But, unfortunately, am not acquainted with Mhiss Ellicott.
She might resent my calling on her so unceremoniously. I had hoped tha you might ask her to come hers, so
that I might be properly introduced to The minister considered the matter
carefully. Evidently he did carefully. Evidently
gether like it. gether
"You forget, Mr. Duvall," he said
fing finally, "that I myself do not know you. to involve Miss Ellicott in any diffi-
culties. I trust,"" he concluded uneasily culties. I trust," he concluded uneasily,
"that she is mot already so involved." "No." The detective shook his head
"Not yet. But unless I can have a few Not yet. But unless I can have a few be. I am working in her interests.
am here to protect her from a grave am here, taking a package of papers from his pocket, placed them in the latter'
hand hand. 'Here are my credentials. From them
'"Hou will' see that I am what I represent myself to be. I cannot undertake to explain to you the reasons which pre
vent me from going to Miss Ellicott vent
where she is. The mere fact that I am unknown to her will, I trust, prove
sufficient. I wish to say vut a few words to her. She will be very glad
to hear them. The minister returned the papers to Dis desk. 'We are having a few friends
his
for dinner to-night, Mr. Duvall. I shall Yor dinner
ask Miss Enlicott to Join us.
nit "If you care to be one of the party-"
he Amused, looking at the other ques"I shall be very glad indeed to ac
cept, Mr. Phelps. 1 assure you that
would under no circumstances force my would under no circumstances sorce my-
self upon you in this way were it not
for Miss Ellicott's good. And, in order

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## that your other guesta may not by any Chanco identily mee may L akk that you

 will introduce me as Mr. Brooks ${ }^{7}$ " "Very well, nodded. wish it, Mr. Duvall. The whole affair strikes me as extremely unusual, and dian not know have nothing to do with it. Under the circumstances I will consent. At least, Miss Ellicott while she is under my roof.""The detective murmured his thanks. great service be doing Miss Ellicott a "And one thing more. When you telephone to her, asking her to come, kind-
ly do not mention the fact that I have ly do not mention the fact that I have
called." 1Fe took the
"Some day you will realize the dangers with which Miss Ellicott is being threatened."
On his re
n to the Hotel Metropole, it. Seltz was still sleeping soundly. Lablanche was reading a newspaper.
Dufrenne was superintending the plácing of Duvall's portmanteau, which had errived from Paris in response to a hasty wire from him that morning. He
had been without a change of linen since had been without a change of linen since
the day before, and the arrival of his the day before,
baggage was gratifying.
He informed Lablanche of his plans. "I shall dine at the United States minister's," he informed them, "as Mr
Brooks. Brooks.' After $\begin{aligned} & \text { Ellicott's permission to }\end{aligned}$ We will take a cab and drive to the railway station in time for the midnight train for Paris. On my arrival there shall give the snufl-box to M. Lefevre
who will see that it is safely returned to the nmbassador in London." with Seltza as soon as the latter is suff ciently recovered to travel-in the morn-
ing, let me say. You, Dufrenne, will no doubt prefer to return with me to Paris. In that event, kindly settle with the hotel people for these rooms, and join me at the railway station. He paused, opened his travelling-case Lablanche and Dufrenne withdrew int the adjoining room, where Seltz lay
sleeping. The latter paused in the door sleeping. The latter paused in the door
as he went out. "Take care of the snuff-box," he said
pointedly. "Remember-the honor of France." (To be continued.)

## Social Service Report

 Our readers will be glad to know tha a ing the addresses and papers given at the great Social Service Congress at Ottawais to be published almost is to be published almost immediately by
the Social Service Council of Canada. It will be a large volume bound in cloth.
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readers should note the firm's advertise ment, "Giems' Suit (Jacket, Vest and
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no more to pay., Look up the adver no more
tisement on page 833 and write for
free patterns and fashions to their

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master clock. In return for one little drop of oil,
he'll work for you a full year "Boots on"" you a full year. From times-he'll guarantee to tell you the He'll guarantee to get you up either
of TWO WAYS-with one long, steady, five-minute ring if you need a plan, with short rings one half-minute apart for ten minutes, so you'll wake up gradually, and he'll stop short in the middle of a tap during eiter
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APRIL 28, 1914
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## O.A.C. Io. 21 Barley 80c. Bush.



THE FARMER'S ADVOCATE.
The Banner Oat Club of Prince Edward Island. On Thursday, April 9th, Professor Wavidson, Instructor in Field Husbandry
in Prince Edward Island, completed the inspection of the oats of the Banner Oat Club. This Club was organized in the autumn of 1912 , for the purpose of encouraging the growing of Banner oats.
There is no fee for membership, and anyone may become a member who grows and markets oats according.to its rules,
but no one may become a member who grows any variety of oats other than Banner. This precaution is taken to
prevent the mixing of varieties after the grain is harvested, as it is impossible for an inspector to detect different varieties in the bag.
The Club undertakes to market for its memberrs, oats that in the Fields of Standing Grain Competitions scored not other varieties and other kinds of grain and that has a germination test of not free from weed seeds, of good color, and must not contain a large percentage of pin or bosom oats. Every bag is inspected before it is shipped, and the In-
spector is instructed to put the stamp of the Club only on those bags, the oats in which is seed of the first quality every respect.
This year about 20,000 bushels have been markeled, and during the winter but their oats had not been inspected but their oats had not been inspected in
the field. The likelihood is that ther the field. The likelihood is that there
will be a great number of entries in this competition this year, as Banner Oat Club oats are in good demand, at a
handsome premium.

## Gossip.

Attention is directed to the advertise tion sale of fifty registered, choicely-bred
Shorthorn cattle, at Broad Lawn Stock Farm, Coaticook, Que. Look up this advertisement, and write E. V. Norton for catalogue and pedigrees. This is a big sale, and some extra good cows and calves, heifers, and young bulls, will go to the highest bidder.

At the annual spring show and auction sale at Darlington, England, in March, a roan heifer, property of T. B. Earle, Darlington, was sold at 300 guineas, about $\$ 1,500$, to W. M. Gazalet, Kent. The roan bull calf, Baron Bridekirk 40 , belonging to J. Barnes, of Wigton, was sold to Mr. Mackintosh for 145 guineas The roan heifer, Aldbro' Princess Royal 5th, property of T. B. Earle, Darlington, was sold at 300 guineas, to W. M. Gazalet. Twenty-five heifers made an average of $£ 36$, and 67 bulls an average o £30 18s.

HIGH PRICES FOR SHORTHORNS. HLGH PRICES
At Anoka Farm, Waukesha, Wisconsin April 1st, F. W. Harding, proprietor, at his 12 th annual sale, disposed of 45 head of Shorthorns, which brought $\$ 21,550$, an average of $\$ 466$, made on an offering composed chielly of young bulls and heiler calves. The highest pearling bull, Royal $\$ 1,610$, for the white yearing bull, Roy a Silver. The white yearling, Premier
Victor, brought $\$ 1,000$, and the white Victor, brought $\$ 1,000$, and the white
yearling, Sultan Mayflower, $\$ 1,300$. Two other young bulls sold for $\$ 1,000$ each
The highest for a female was $\$ 925$, fo the white two-year-old, Village Flower 2nd. Five other females brought prices
ranging from $\$ 500$ to $\$ 825$. Carpenter \& Ross, Mansfeld, Ohio, on April 2n
sold at Chicago 13 bulls averagin $\$ 500$, and 35 females averaging $\$ 385$. colors.

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& \text { Swift Curreat, Calgary, Yorkton, Edmonton. } \\
& \text { Agencies Everywhere - }
\end{aligned}
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ftting, smartly-cut Gents trousers for the rock bottom price of \$1.80'; for $\$ 2.00$, or a well-cut Gents ${ }^{2}$ Suit, right-up-to-the winute in fashion for \$5.50; and with every garment the firm will send a. printed guarantee phainly appaars within six months, another whll be given absolutely free of cost. The prices quoted include both Postage and Duty, so that customers have nothing more to pay on doSee advertisement below and write
for patterns. They cost nothing.


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Water for Scalding Pigs.
What is the proper temperature for
water when slaughtering hogs H .
Ans. In cord werther, it is better to
have the water boiling, because it will
be cool enough by the time it is trans-
ferred to the scalding barrel or vat.
The correct temperature in the vat is
185 degrees $F$.
Measuring for Weight.
Will you, it possible, advise me how
and where to measure a cow and horse and where to measure a cow and horse
to arrive at or about its correct weight? A subscriber. Ans. - No method of measuring cattle and horses can be used with a reasonable
degree of accuracy to estimate their degree of accuracy to estimate their
weight. It is far better to put them on the scale. However, we give the following for a cow: Multiply the length
around the animal just back of the shoularound the animal just back of the shoul-
ders by itself, and multiply this by two
and divide by seven. We cannot asy and avide by seven. We canno say
that this is correct but is a method
of calculataion which is sometimes given.
Cow Unthrifty-Building.
$\qquad$ gives a fair quantity of milk, but is mopish. She calved last November, but
has not showed any signs of heat since. 2. What sized building would you ad-
vise for about 125 hens? vise tor about 125 hens ?
3. I intend putter
 the purlin posts? I am told they would
be all right Ans.-1. Mix equal parts of sulphate of
iron, getian, ginger, and nux yomica, and give her a tablespoonful three times
daily. Give plenty of feed, and a gallon of bran and four quarts of chopped
oats as a mash three times daily. 2. Try a house on the square plan,
about $24 \times 24$, or if you decide on a long, narrow house, allow four square
feet per hen.
3. We would think it would be much
Wer better not to have purlin posts spliced.
Preparing for Wheat-Butter from
$\qquad$ 1. I broke a feld of sod last fall that
had been dewn twelve years and in
double - disked actoss the plowing. I double - disked across the plowing. I
thought of sowing to oats this spring, and I would like to sow it with fall
wheat next fall. Would it do to disk
when there was wireworms in it? Do you
think I did a wise act by disking it last fall?
2. About what per cent. will milk
 of butter-fat would there be in the cream
from that milk, the cream to test about 3.5 per cent.?
Ans--1. The disking last fall would do
ne hat. no harin, provided it did not produce a
fine surface which caused the land to run
together. As to the advisability of disking the stulble to sow wheat, we do
not see what would be gained by not plowing, and unless the land is very
clean and rich it would be difficult to get it in the proper tilth for wheat.
2. About 4.2 per cent., provided one pound of fat makes one and one - sixth
pounds of butter, or 3.5 lbs. butter-fat.



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ping, hunting or for worss about farmor or machine
ery, send to-day fora ery, sendto-day fora Baldwin Lamp


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$\underset{\substack{\text { Marmers } \\ \text { Markham. } \\ \text { PILO MANUFAGTURERS, } \\ \text { Ontario }}}{\text { Sill }}$ Bargain on Clydesdale Stallion For quick sale. Grandview Baron, No. 11011;
four years old; took lit prize at Guelph when a colt and a number of other thows; enrolled, 2 The
 Maple Grove Holsteins





APRIL 23, 1914
Questions and Answers. Miscellaneous.

## Twitch Grass - Devonshire Cream

 Bloody Milk L. Have a field with a lot of twitch grass. Do you think it would be wiseto plow deep and sow with buckwheat, \& or what do you think would help to 2. What is Devonshire cream, and how 3. Have a cow that has been milking or several months. Some time ago she gave bloody milk out of one teat, but but now a lump has formed in each teat. can be milked, but in the other one it is up so near the udder it is difficult it et the milk from that quarter. She know of. What is the trouble, and what
kne wouk you advise to be done? ans.-1. Plow shallow early in spring, and work with the cultivator and sow buckwheat in early July. Sow his year and sow buckwheat next. 2. To make Devonshire cream, strain a depth of four or five inches. stand in a cool place for twelve hours Place the pan on a pot of hot water on the back of the stove. When the cream
Porms a ring around the pan and is wrinkled, it is done. Heat por and is hour at 180 degrees. Let stand ten or welve hours before skimming, 3. Bloody milk is often due to a rup-
ture of some of the small blood vessels of the udder, usually induced by con-
genital or inherited weakness. genital or inherited weakness. Bathe cold water, and give one ounce of tincture of iron in a pint of cold water as
$\&$ drench three times daily until bloodlow ceases. Obstructions in teats can

1HE FARMER'S ADVOCATE.


Pull Big Stumps Quick and Easy \$1280 firompsomeros the Pulls an acre a day. It doubles land values. Enables you to Tran


When writing advertisers please mention this paper.
if colurise, the is valuable, and provitue. colvie, the oistructions grow so as pr ctode drawing milk from the teent Well in Quicksand My buildings are on a knoll of sand, subsoil. My welle are quicksand as a hat My well are so shallow now cant ho dry in a dry summer. want have one werf just beside the cuase for household parposes, and pipe the water from this to the house, but the problem is how to dibg it. I have ried twice, and only been able to get abonat eight feet down, the quicksand Nowing in from all sides alimost like water. The water from thite sand is very clear and good, but after every rain it sumpends this fine sand ambl take - coupion days to become cleary enyuin. This roiting of the water occurs also when we chrw a quantity at one vime. 1 do not know what is below this quicichsand, now how fer it goes down. . The land around the knoll has, in some places, a clayy subsoil, in some places gravel, and in some places sand. This I have found in dingming postholes. My Valley, near the river, of the Annapolis Valley, near the river, and I imagine the give directions hiow to dig and curb ${ }^{2}$ well so that I will have one some five. or six feet in diameter, and twelve or Afteen feet deep? What kind of curbing. and how tor keepr it from stirring up andt
becoming cloudy under conditions menbecoming cloudy under conditions men-
tioned' above? Ans-This is a very diffcult problem.
to solve, but we haver seen it done by: the use of a curb pressed down by a
Heavily- weighted well - digging machine, Heavily - weighted well - digging machine,
coarse gravel being paelted in behind, andi coarse gravel being paekeed in behind, and
ibridking up inside the curb, which is pulled out Board by boavd. It may be that some of our readers, having had experience of this kind, could give us some

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Egyptian Liniment



 August, and I expected if the horse lived
he would be cripple for lite, but, thanks
to the to the tiniment, scarcely a scar can be
seen. All the people about here know how
boaly he whe badly he was cut.".
and his power or otoping bleeding at once
and healing a wound without proud flesh, and heaming a wound without proud flesh
and almost without a scar, makes Douglas
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man who keeps horses, , attle or any ilive
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dward Tellier, St. Joachim, Ontario

Questions and Answers. Miscellaneous.

Wants Pheasant Eggs Can any of your readers, through th inform me of anyone who has golden pheasant eggs for sale, and at what price? Ans.-You had better place

Cement for wall and Floor How many barrels of cement and how 7 many, would it take to put a wall and floor under a barn 10 inches thick and 10 feet high ? Ans.-Bet ween 80 and 85 Warrels cement, and about 18 cor How many pounds butter-fat would
there be in 20 pounds of cream testing there be in 20 pounds of cream testing
26 , and how many pounds butter ?
FARMER'S Wife. Ans.-Twenty pounds of cream testin 26-per-cent. fat would contain 5.2 lbs. of
fat, and assuming that 1 lb . of butterfat makes one and one-sixth lbs. of but
ter, it should make 6.06 lbs of butter. Carding Mill. I would like to know of a carding mill Those formerly in the business bave died. or quit carding. We live five miles from
Sharbot Lake. I could send the wool by express
miles.

## For Ringworm

## A correspondent sends the following as treatment for ringworm on calves Having sen several enquiries in "The and sure cure: To one box of cheap axle-grease add one gill of coal oil, one gill sulphur, and one tablespoonful of

## sionally

Tree - Tapping-Chairmanship.

1. Can landlord stop tenant from tap-
ping maple trees if nothing is mentioned 2. In a rural district, which of the
three trustees should be Chairman of the School Board? AN OLD READER
Ontario. Ontario.
Aus. -1.
$\qquad$ by the tr
a board.

Sale by Mortgage
C buys a farm from A on yearly in
stallments. A agrees to give C a clear deed upon final payment. On searchin place. What would be C's best cours Ontario. A Subscriber. Ans.-C should pay no more money to
A until a suitable arrangement has been
made respecting the mortgage: and should instruct a solicitor to attend to Bulls at Pasture What is the law in Cuebee in regard $t$
bulls one year old and over running a large; that is, in the owner's pasture them shut up? If he can be compelle onep them in, what would be
penalty for letting them run loose? Ans.-It is not likely that he can be
legally compelled to do so; but to be uite sure about it, you should consul

Telephone_Information Wanted. 1 desire that some of your readers wh
have a municipal telephone line in th
township in which they reside, would b kind enough to forward to "The Farn
er's Advocate" for publication, the figury
$\qquad$ scriner, and ans
maintain the service to each subscrib
This would be of benefit to your inte gent readers, which are scattered all on
the countrs. Ans.-Readers having telephone syst...
the workings of local
are invited to explain them through on

## WillitheadrySeason?

You don't know-nobody knows. But if you take the precaution of proper tilling you will have as little to fear fromitton Cultivators last year. Hamilton seed deserves better treatment than simply planting it haphazard. Work up your soil with a

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forced, ach
setion
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## 100 Standard Walking Plows



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wind the ame in Percherons.

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stallion or mare for less money than anyone stallion or mare for less money than anyone
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Questions and Answers. Veterinaty.
Unthrifty Colt.

| Two-year-old colt has |
| :---: |
| His |
| His teeth are falling out. | poor appetite.

M. G. His teeth are falling out. M. G.
Ans.-It he is nearing three years old
he should lose eight teeth, two molars out of each row, but if he is only ap-
oroaching two years of age, he should proaching two years of age, he should
lose no teeth. If there be an abor-
malty or decay of the teeth those that malty or decay of the teeth, those trat
are afrected should be extracted and in
all probability they will be replaced by all probability they will be replaced by
permanent teeth at the usual ages. Mix equal parts sulphate of iron, gentian,
ginger, and nux vomica, and give him a
dessertspoontul three times daily
des
vel
cise
Fatality in Sheep \&c.

1. Ahout six weeks ago we lost some
sheep. They would grind their teeth.
stagger. and anald stager, and shake their heads, stand
around stupid and di. There was no around stupid and die.
nasal discharge or snifing. 2. Sow with litter four weeks old has
Hard, swollen mamme. H. Ans. -1 . This was constipation. The
adninistration of half a pound of Epsom salts and half an ounce ginger, followed
by twenty grains nux vomica three times daily. would probably have saved the
most of them.
2. Bathe frenuently with hot water. 2. Bathe trequenty
and ater buth
phorated oil. Lump in Quarter.
$\begin{gathered}\text { Heifer has been milking since August. } \\ \text { and will be due again July 2nd next. }\end{gathered}$ and will be due again July 2 nd next.
There is a movale, small lump in one quarter, and ever since New Year's, the
first milk each milking out of that quarter is bloody.
Ans.-It is possible that a veterinarian
might be able to remove the might be able to remove the lump. but
if deep-seated, the success of the opera-
tion tion would be doubtul. It would be
wise to try and get the quarter dry, with hope that the lump man ybecome absorbed
before she again treshens before she again freshens. Absorption
can be aided by rubbing a litul of the following ointment well in once daily,
viz. viza: Two drams each of iodine and
iodide of potassium, mixed with two Eye Trouble.
I have six or seven lambs about two
weeks old, each of which has a growth on its left eyeball. Some of these
growths are the size of small peas, growth are the size of small peas, pink
inh in color, and light around the base
The troble The trouble commenced with a watery
discharge. Now there is no discharge. I have twelve more lambs not affected. Ans.-This is a peculiar affection of the
eyes and particullarly so as severul are affected in the left eye only. It will be
wise to call your veterinarian, as he may wise to call your veterinarian, as he may
be able to remove the growths by an them once daily with a pencil of the nitrate of silver, being careful not tht
touch any part of the eye except that Lame Cow-Absence of Oestrum. 1. Cow is lame on hind leg. Some-
times she can walk all right, and at other times drags her leg. fight, and a
$\qquad$ Ans. -1 . This is dislocation of the stiffe
bone. (Get a blister made of two drams each of biniodide of mercury and can line. Clip the hair off the front and in
line
$\qquad$
$\qquad$ Turn loose in a box stall and oil every
day until the scale comes ofr. Keep quiet in box stall, and hister as above
every four weeks until the lamenes 2. Keep in qood order, allow to run
with bull, and five each two drams nux with bull. and give each two drams nux
vomica three times dailv. Attention is called to the new advertisement in this issue of the imported
Hackney stallion, Dainty Duke of of on-
naurht. and the Clydestale stallion. naugh, and The horses are offered at a
Mazepa. The
reasonable. price, by B. Rothwell, R. R. reasonable price, by B. Rothwell, R. R. R.
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ald inn in the
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HACKNEY STALLION
 Danty by Denmark Color, dark chestnut;
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Foaled Aprir 8th, 1911. Sire, Silver Strand (Imp).).
dam, Marchioness (Imp.), by Marcellus.
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 pion mare Marchioness, was grand sweeptakee
female at Ottawa for two years, 1010 and 1 1011 Both horses are suarateed eound free from
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For'Sale-Registered Imported Clydesdale Filly, a good one.

Questions and Answers. Miscellaneous.

Whole Wheat Flour Kinaly state, through your valuable
 Hour and Gratam houm The whole of the wheat grouni

Permanent Pasture.
Have a field that was summer-fallowed
ast summer. I wh to seed it with permanent pasture. Would you prefer sowing the mixture alone, or would you
sow barley as a nurse crop? If so, sow barley as a nurse crop? IP so,
what amount per acre? Would prefer what amount per acre? not sowing the barley, but want to be sure of a catch. Kindly advise through the columns of your paper
Ans.-We would try the nurse crop of barley, about $1 \frac{1}{1}$ bushels per acre, or if
the land is very rich, perhaps a little smaller quantity. It would likely catch all right without the nurse crop, but you might as well have the barley as not, as usually permanent - pasture mixtures
catch very well with such a crop if it does not
threl

Rotation and Roller 1. What would be the most profitable year to year, without seeding down for manuring purposes? I desire to grow
annually on the deld, corn, potatoes, ninual on the ๕eld, corn, potatoes, gest a better series of crops? 2. Please advise me how to construct a one-horse cement roller and
marker. Ans.-1. Your series of crops is right provided you supply manure, which should
preferably be applied to the corn or root crop. As for the crops themselves, they
are placed in the rotation as their differ ent peculiarities would sugges
2. Many cement rollers are lying unpectation. They are heavy and awk-
ward. We have not constructed any, and have never interested ourselves in them.

Thrush. I have a light colt, coming two years
old, which is suffering very badly with thrush. She is lame on one of her fore
feet. Would like to know, through the columns
for same.
Ans.-Pare away all partially-detached horn from the frogs, and apply a little
calomel. Work some of it down to the every of the cleit of the frog. Do this
eve day until all discharge and odor ceases. The best method of pro-
ducing healthy growth blister
month. her, poultice her feet every night with maldehyde may also be used for thrush. Clean out the cleft and syringe daily
with formalin in four or five parts water.

Itchy Legs.
We have a heavy draft horse which is have been rubbing his legs with a solution of corrosive sublimate ( 40 grains to
a quart of water). This seems to have the other, and keeps calking himself so badly we have had to remove his hind
shoes. It seems to be the whole length of his legs. Pimples form on his leg
and dry up hard. Would feeding sulphur, and in what quantity, A. M. S. Ans.-Horses having beefy legs, with
coarse, wavy hair, are predisposed to this condition, and a permanent cure
cannot be effected. In addition to the suggest that you give him one ounce of morning on his grain or in a pint o
water as a drench every alternate week
$\qquad$ Feed moderately, and with a light grain
ration. This is probably developing into each of acetate of lead and sulphate o
zince and two drams carbolic acid to
pint of water. Apply to the legs fre

FOUNDED 18 å

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## Lightning Rod Efficiency

Thi Farmers Mutual Lightnirg Protected Insurance Company of Michigan as its name
mplies insures. only rodded buildings, and that only after the Company's Inspectors have carefully examined the rodding and approved of it. During 1909 -1912 inclusive, in a
business which for the four years totaled $\$ 55,172,175$ risk this Company paid only $\$ 32.00$ for damage to buildings by lightning, in three small claism all traceable to defect in rod-
fing which were overlooked by the Company's Inspector. The Patrons Mutual Fire Insurance Company which also does business all over the
state of Michigan insures both rodded and unrodded buildings. In the same four years
 paid. Of this loss the damage to rodded buldings consisted of three small clauses only,
and 20 per cent of their buildings are rodded. Deducting theese rodded risks we see that


 damage to unrodded ones amounts to $\$ 1168.00$ or in o
out of an expected loss of $\$ 1168.00$ indicating an e
out of $\$ 1000$.
From Prof. Day's address, Winter Fair Dec. 1913 .
No building with Universal Lightning Rods on it has ever been damaged by lightning.

THE UNIVERSAL LIGHTNING ROD CO. HESPELER

ONTARIO
SHORTHORNS AND CLYDESDALES
 W. G. PETTIT \& SONS, Freeman, Ont. Burlington Junction, G.T.R. Bell 'Phone

SHORTMN $\begin{aligned} & \text { I have ten young Shorthorn bulls, some fit for servide } \\ & \text { now. Part of them are bred, and made so that they are } \\ & \text { fit to head the best herds in any country, some of them }\end{aligned}$


 ranging from 6 months up to 3 years old. Car loads a specialty. Ship to any
place in Canada or U. S. T. L. MERCER, MARKDALE, ONTARIO. Shorthorns and Clydesdales $\begin{gathered}5 \text { bulls of serviceable age, chooce quality } \\ \text { somet of them herd } \\ \text { Grace (imp.) } \\ =69740=\text { ners, } \\ \text { and } \\ \text { ared } \\ \text { number of }\end{gathered}$ cows and heifers. One stallion rising 3-year-old. A big, good-quality horse; also four cholce fillies SHORTHORNS
 Sind

 SHORTHORN BULLS FOR SALE Eipht bead, foom 10to 18 g monthe imported dams and sired by choicely bred bulls. Prices are not high, as I need the space for
stabling cattle. Shropshire and Cotswold ewes bred to imported rams.
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# Heaves 

 FLEMING BROS $\begin{aligned} & \text { Wris } \\ & \text { O Chemists }\end{aligned}$ 75 Church St. Toronto, Oqto

What Every Dairyman Ileeds A clip to hold the cow's tall while milking tandy and easy to use. Saves the miliker
many a nasty blow in the face from the ow's tall while milking. Sent post paid
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R. A. CHAMBERLIN
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Aberdeen-Andus ot show隹


Shorthorns
earling Clyde stallion, $1_{a}$ weanling Clyde stallion, big, best quality and breeding. John Clangey
Manager $\begin{gathered}\text { CARGILL } \\ \text { Cargill, Ont. } \\ \text { Proprietors }\end{gathered}$
Shorthorns, Cotswolds Berkshires
For SALE-A few Shorthor femaes ewe and an uumber of yeurgs Cotreswout GHAS. E. BONNYGASTLE

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 G.M. Forsyth, North Claremont, Ont.

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Still have a few choice bull calves, and
several real nice heifers of different ages.
WM. SMITH, Columbus, Ont 1854 MAPLE LODGE STOCK FAPM 1914 SHORTHORNS AND LEICESTERS We still have an excellent lot of rams, mostly sired
by Imp. Connaught Royal; also one extra choice
young bull forsule P. Situated one mile from Lucan Crossing,
"OAKLAND " SHORTHORNS so head of good individuals to select from, $2 t$
breeding females, headed by a fine roan 1st prizt and sweenstakes, buall. Just three bulls fit foll
vervice, all of high quality, and priced to sell John Elder \& Sons $\begin{gathered}\text { So } \\ \text { a }\end{gathered}$
Spring Valley Shorthorns
Herd headed by the two great breeding bulls, New.
ton Rengleader (Imp.) 73783, and Nonpariel Rams
den 83422. den 83422. Can supply a few of either sex.
Phone and Telegraph vor.ial Drumbo, Ontario
Good Shorthorn Bulls not all sold. ${ }_{\text {n }}$ nave 2 .
17 and 12 months respectively; a dark red, 12
monthssa white, 11 months; a red roan, 10
month; all win months; all straight, smooth, wide, feshy, strong.
boned bulls. showing breed character some from
heavy milk
PricePriced on ensy tarms for auikive yale. yearing heirers
STEWARTM. GRAHAM, - Lindsay, Ontario FLETCHER'S SHORTHORNS - Present offering
5 choice bulls, suitable for high-class herd headers,
8 to
 Spruce Lodge $\begin{gathered}\text { Shorthorns \& Leicesters } \\ \text { Present offering: A number }\end{gathered}$ of good heifers and young cows, with calf at foot,
from good milkng families. A few ram ambs and a
cobice olot of shearling lewes, now bred to imp ram.
WiA . Dof

## Questions and Answers.

 Miscellaneous.

Caldwell's

## Cream Substitute

 Calf-Mealis a good business proposition any way they like to figure it out. The Mealis precisely what the name Whole Mill raise just as good calves on Cream Substitute as you can raise on
whole milk and at a cost which is whole milk and at a cost which
trifling in comparison. You owe it to your bank account to find out well's Cream Substitute Calf Meal. Ask your Feedman about it or write to us for full particulars. 40 THE CALDWELL FEED CO., LTD., DUNDAS, ONT.

## Choicely-Bred Shorthorns at Auction

Thursday, May 14, 1914
I will offer at Broad Lawn Stock Farm, one mile from Grand 50 HEAD OF REGISTERED SHORTHORNS Consisting of cows with calves at foot and due to calve, heifers and young bulls suitable for service this spring. Coaticook is on the Main Line of the Grand brooke. Sale begins at 2.30 sharp. Terms: Six months' credit on approved jon.
spot cash. Catalogue of pedigrees on application.
E. V. NORTON, Coaticook, Quebec
 MITCHELL BROS. Farm $1 / 6$ mile from Burlineton Junction. BURLINGTON, ONT
 and roans, 10 to 18 months of age, Butterflys, Roan Ladys, Lavenders and Lovelys, all sired by the great Opp
Omega Imp. Strictly high-class herd headers MILLER BROS.

Clare montMILLER BROUGAM, ONT


MEADOW LAWN SHORTHORNS OF RICHESTAND ABLE SCOTCH BREEDING, and of high-clase type and condition. 1 can. Hpply
young bulle and heifers-Claret, Roan Ladyo, Mildrede, Stamorte ecto. Lo-D. Phome young bulle and heifers-Clareta, Roan Ladys, Miladreds,
F. W. EWING, R. R. NO. 1, ELORA, ONTARIO.

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Every extra moving part adds its weight to the load you must turn and adds friction which takes its toll of the e or separor.

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DISC SEPARATOR because these features eliminate waste Its bowl is smaller and $20 \%$ lighter than any other dise bowl o equal capacity.
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air trial. Guaranteed to wure Inflate Coughs, Colds, Distemper Fevers etc. Agents
wanted.
DR. BELL, V. S., Kingston, Ont. City View Herd of R.O.P. Ayrehires When you want a choicely bred bull calf, white us.
Nothing serviceable on hand. Can spare James Begg \& Son, R.R. 1, St. Thomas, Ont High-class Ayrshires ${ }^{\text {If }}$ you are want roung bull out of a 50 -lbs.-a-day ang a richly bred
mported or Canadian-bred dam or sire, write me ceported or Canadian-bred dam or sire, write me
Pemales all agea. Price are easy
D. A. MAGFARLANE. Kelso, Quebec
Dunganon Ayrshires $\begin{gathered}\text { For high } \\ \text { class Ayr } \\ \text { Win }\end{gathered}$ shires, write us or come and see them. We cal
sel matured cows, heifers, heifer calves; , all bill bill
prices alves are sold. Prices right $\mathbf{E}$. - D. Phone
W. H. FURBER, COBURG, ONT.

Questions and Answers.

## Miscellaneous.

A Bad Wel down nearly twenty years. Always extra good water till two years ago. It went bad, but we have cleaned it often. Have
cleaned it three times in two years, but it always fills in and is as bad as ever. There is no drain to let the water in. has a hard cement bottom. and we wash it all out as clean as a plate, and still is bad. Is there any way to have put down a new well? If so, must we get new brick

1. Are there any chemicals we can get 2. Is in the well to cleanse it
2. If lime is good, how much will it
need for a well twelve feet deep, six feet across ?
Ans.-The explanation of this undesirable condition lies, no doubt, in that the channels through which the water comes
to the well have become contaminated with decaying vegetable or animal mat-
ter. When the wall was first put down the soil acted as a filter, but the inter-
spaces have now become filled, and so long as the well is in that position with-
out the sources of contamination re moved. it will be useless to try to steri-
lize the water so it will be fit to use.
Perhaps the source Perhaps the sources of contamination
might be discovered and removed, but if the land is sloping from all directions remedy this condition. A bored well, or
drilled well, is preferable, but if you de-
cide to put down a new duy well, we can cide to put down a new dug well, we can
see no objection to using the same bricks, Ordinary lime will not be a satisfacCory disinfectant. Chloride of lime or
beaching powder, which may be obtained from any druggist, is commonly used to
disinfect water for domestic use. Foldisinfect water for domestic use. Fol-
lowing is a list of instructions how this chemical may be used to purify small
quantities of water. It is taken from
the Journal of the Royal Army Medical Corps, and will serve the purpose only
where small quantities are to be steri-
 chlorine, and remove the excess of powder
by rolling a pencil or other round object along the top of the spoon, or by flat-
tening it with a penknife blade, so that the excess will be squeezed off. 2. Dissolve the teaspoonful of chloride
of lime in a cupful of water, making sure
hat all lumps are thoroughly that all lumps are thoroughly broken up,
and to it, in any convenient receptacle, add three more cupfuls of water.
3. Stir up the mixture, allow to stand or a few seconds in order to let any
particles settle (this stock solution, particles settle (this stock solution, if
kept in a tightly-stoppered bottle, may
be used for four or five days), and add one teaspoonful of this milky stock solupurified in a pail or other receptacle. chlorine solution will come into contact
with all of the bacteria, and allow stand for ten minutes. This will give, approximately, one-half part of free
chlorine to a million parts of water, and ill effectually destroy all typhoid and ing bacilli in the water. The water wil of free chlorine added rapidly disappears. sterilization of water drawn from a farm well. and it may also be used to sterilize
wells which have been infected, provided, has been removed. It would obviously
hase armyard from which organic matter and
dacteria are constantly draining into the It will hardly be sufficient to sterilize
the well unless you remove the sources of contamination, but in case you would do son hy mixing up about one-third of an nunce of chloride of lime in a small
quantity of water and stir it into the
water


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Exclusive Canadian distributors of the "World Standard" De Laval Cream Separators MONTREAL PETERBORO WINNIPEG VANCOUVER

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 7 days (at Junior 2 -year) and up to nearly 20 lus.
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Woodbine Holsteins


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delius De Kol. Price crated f.o. R. Rodney
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 GLENWOOD STOCK FARM
HOLSTEINS
 Please mention "'The Farmer's Advecta."

THE FARMER'S ADVOCATE.
Questions and Answers. Miscellaneous.

Cleaning Wall
What would you use to clean a plas
tered wall finished with a plaster-of-Pari
col teret wall finished with a plaster-of-Paris
A SUBSCRIBER.
coat ? Ans.-Try the following: Wash well
with a soop solution made as follows
Dissolve 1 Ib. souap cut into small piece
in in 1 gallon soft, hot water, and add
enough of this to make the water with
which you are to wasl the walls, soany Add 1 ounce sal-soda dissolved in a a little
water. If there are any especially dirty
spots. spots, powdered soap-stone, pumice, o
sapolio, will help. Kerosene is also
effective. When washing the wall, use an
wis. makes the walls look clouded. Wipe dry

## Probably Blackhead.

Have bronze tom. Four days ago no
iced swelling under neck. It is steadil thereasing in size until now it is larger
than $a$ goose egg, and is swelling or upper side of neck and on top of hear.
Swelling is pulfy, and a redish- purp
 what the trouble is, and what to do for
it ? Ans.-This symptom indicates blackhead
to a certain extent, althourh the swelt ings are not generally so conspicuous as
this particular case slightly about the head, turn dark, and ease is frequently and mopey. The dia-
accompanied by diarThea. For treatment, no remedy has
ever given satisfaction.
As
it
it is only one bird, would advise you to isolate
him sure yourself that it is blackhead, in which case you would gain consider logical Department at Guelph, where a
post-mortem would be held money Holsteins


The Bull Is Strong--But "Ideal" Fence is Stronger
 wire, cheap material, or cheap labor ${ }^{\text {IDDEAL }}$ FENCE is "IDEAL" FENCE is made of ALL NO. 9 HARD STEEL, EVENLY GALVAN
 Compare the eveirht of "IDEAL" FENEE withe ang and every other make
Compare the workmanhip. Test it in the sereset was you cal devise
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to give you a price on your requirements. If you do not know him drop us a

The Micfregor Banwell Fence Co., Limited, Walkerville, Ont.

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## 

 -1.J. W. RICHARDSON

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Senior herd bull-Count Hengerveld Fayne De Kool, a son of Pietertije Hengerveld's Count
De Kol and Grace Fayne 2nd. Junior herd buil- Dutchland Colantha Sir Mona, son of Colantha Johanna Lad and Mona Pauline De Kol. Third buil
King Canary Segis, whose sire is a son of King Segis Pontiac, and

E. F. OSLER, - BRONTE, ONT.

## Fairview Farms Herd

 E. H. Dollar, Heuvelton, N. Y. ."m
 from 20 to 29 be. Thirty to choose from, mootiy bred to the atove bunl special offifing: Two frome
heifer, 2 and
Bell 1 Phone

ELMDALE HOLSTEINS
 HOJSTEJNS $\begin{aligned} & \text { FOR SALE-Male or female. Herd sire, Prince } \\ & \text { Hengerveld of the Pontiacs, son of }\end{aligned}$
 HOLSTEINS We have a choice lot of bull calves with strong backing and are looking for. Write for extended pedigree, or, still better,

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Southdown Sheep Southdown She
Collie Dogs
courr uttern otred by Imp. Holyrood Maroulo are

 Oxford Down Sheep $\begin{gathered}\text { Shorthorn Cat- } \\ \text { the }, \text { Yo } \\ \text { Corsire }\end{gathered}$

Maple Grve YORTSHRES- 200 hea Are as good as the best, because they combine the

 Our Brod sows, in view of the above, could not
but bo of wery high class, combining great size,


 MAPLE LEAF BERKSHIRES


 and May Yarrow; also a few ooars.
particulars.
JOHN w. ToDD Hamp Hampshire Swine $\begin{gathered}\text { thoice hove } \\ \text { belted hor } \\ \text { bers for sale. }\end{gathered}$
 Cloverdale Large English Berkshires No matter what your needs in Berkshireg may be
pee Lant, the live Berkshite man. hre is alway

Duroc-Jersey Swine $\begin{gathered}\text { Twenty fife sown } \\ \text { bred } \\ \text { for } \\ \text { foll } \\ \text { faut }\end{gathered}$
 MAG CAMPBELL \& SON, Northwood, On red from prize-winning stock of England an Canada, Have a chocice lot of young pigizo of hoth
Rexee, pairs akin to offer at
reasonable prices. Joseph Featherston \& Son. Streetsville, Ont. Am offering a quantity of very choice White Ca Seed Corn Eweex Co. Geo. G. Gould. Edgar's Milles, Ont HILTON STOCK FARM

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THE FARMER'S ADVOCATE

Questions and Answers. Miscellaneous.
Descent of Estate
An unmarried man dies intestate in the Province of Saskatchewan, all his prop-
erty being in that Province. He leaves erty being in that Province, He leaves
a father, brother, and sister, all over age. Is the father the sole heir, or do the brother and sister have a claim on the estate?
Ans.-The father takes all.
Angus Cattle.
A short times ago I saw a sire, called by his owner an Aberdeen-Angus. A
little later I saw another animal called by his owner a polled Angus, which looked to me to be of the same breed as
Ohe first mentioned the first mentioned. Are they of the
same breed, or is there same breed, or is there a difference?
Under what name are they registered it both are of the same breed? A BEGINNER. Ans.-Aberdeen-Angus and polled Angus
are names used to designate the same are names used. to designate the same
breed of cattle. The word "polled"
s. simply means without horns. They are registered as Aberdeen- Angus
About Pig Pens.
I have been reading your ideas on the
building of hogpens, but I should like it very much if you would go further and for feeding, the doors for the hogs to go out, how much space to be used for
windows, and how high the posts should be where a hay or straw loft is used? Ans.-Where a straw loft is provided, ceiling too low. Eight-foot posts should make a convenient height for the ceiling, ern piggeries are being erected where modnever heard of any complaints one way ing purposes from this height. For feedbe constructed in two different ways. One system, which is very convenient,
exists where the trough con hall-way inside the pen and hall-way out side. The front of the pen comes exact-
ly above the center of the troush may not be as convenient for cleaning out the trough, but for feeding purposes
it is as expeditious as any construction that we have ever seen. ${ }^{\text {any construction }}$ However, tak
ting everything into consideration, perhaps a trough made of cement, ten inches
wide, four inches high in front and eight wide, four inches high in front and eigh
inches at the back is the best trough then add a moveable front, suspended at ward. This is the most complete and up-to-date. One or two iron shafts
lastened front, and arranged in such a way that
it will slide into slots both when it is perpendicular prevent the hogs getting into the trough the pigs can be excluded from all the troughs at once while the feeder goes
about his work preparing, mixing an distributing the feeds. When his work is all done in that direction, the hogs may
be allowed to commence feeding. It will be optional with the door leading to th opening one way, or hinged at the top
to open in and out. In the latter case. It would almost applear necessary in this
country to have it detachable, so one ter months so that it would be tight and
warm. In any case. during Wher this door cose, couring warm we wa
thastened open
and in char and in cold weather it should be closed
tightly at night, so in our estimation
teed passage as well. L. Dading is to tosuly
done from the center or feed passaze. done from the center or feed passage $A$
door two and onehall feet wid by three
and one-hal feet hish will be turite sutti-
acient this, a temporary partition could be car
ried along and attached to the foor

## pends altogether on the raiser's willine

ness to admit plenty of sunsh he. Wi- wi-
dows about three teet siviare would be conventent she and inve apearss
possible to ionstall too many of them.
Six to ten feet apart would possibly
light the pens sufficiently, but we hav
never yet seen a pigiven with too many
never yet sern a pigpen with too man
windows installed.

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Neponget Roofnge, are long on the root $\rightarrow$ because long "in the makiopg." This means more than you think It means thiss Maximum protection to

 the "blanket protection" slowly made Neponset Roofngg invariably give. There's a alowly made Neponet Roofigg for every purpose. Neponset
Parroid is the great foofing for fine farm buididings. foid is the great roofing for fine farm buildings.
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Sold by dealers everwwere. Wxtict for name of nearest deglec
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 Neponset Wall Board, used in place of lath
and Neponset Waterproof Building Paper

[^2]

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 30 and 9 Page Wire Throughout in 2 | 1 | 3 |
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|  | 30 |
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| 7 | 40 |
| 7 | 48 |
| 8 | 42 |
| 8 | 42 |
| 8 | 47 |
| 8 | 47 |
| 9 | 48 |
| 9 | 48 |
| 9 | 5 |
| 9 | 5 |
| 10 |  |
| 10 |  |
| 10 |  |
| 10 |  |
| 11 |  | 30 and 40 Rod Rolls, Freight Pald.

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