 LV.



" The ledorld (1bver"
To you, our legion of friends, old and new, - we send our heàrtiest Yuletide greetings.

In Canadian wheat fields, in the farm lands of the United States, on the wide plains of South America and Europe - wherever Case Machinery has gone, there we count our friends.
To you who toil in these fields, year by year bringing from the soil life and strength for your nation, we owe our greatest debt. For seventynine years we have striven to make your task easier, your work more joyous.
In a spirit of warm friendliness and rejoicing, we wish you the age-old, "Merry Christmas".
J. I. Case Threwhing Maehise Company Raches, Wis
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## The Farmer's Advocate and PERSEVERE SUCCEED Home Magazine

## EDITORIAL

Merry Christmas to all!

Give useful gifts, and see that the needy are first proyided for

Get a live stock elub started in your district and interest the boys in the care of animals as well as in
the little business transactions and resporsibilities involved.
An idle herd is usually an unprofitable one: Keep the cows milking even if it entails the purchase of some palatable one

It is time clubs had their winter programs mapped out and were under way. Make the clubs interesting and instructive to old and young alike. Much depends on the executive, for a meeting is seldom a success unless the arrangements are complete.
We are loath at this time to say anything that would discourage the spirit of giving, but it dors seem, particularly in towns and cities, that organizations are not careful enough in selecting the beneficiarics of Christmas donations. Sometimes thcse to whom we give require it less than we do ourselves. It really.
does them harm, but it does us good and perhaps we should overlook it.

The Secretary of the British Board of Agriculture recently announced in the House of Commons that the British Government had not the slightest intention of modifying the embargo on Canadian cattle. The
British require a great deal of convincing, but they usually do the right thing in the end. Our Federal Government should not become discouraged in their
"Keep away from Tcronto" is the title of an editorial appearing in one of the leading daily papers of the Queen City. This warning is issued to the unemployed who, it is claimed, are constantly drifting into that city
in the hope of getting free board. There are giing to be some trying circumstances in the towrs and cities of Canada this winter, but urtan booms are always followed by a reaction of this kind. An unequal disthis country will be fortunate indeed if we can readjust ourselves without serious hardship to a large number of

been there.

It is time we began to appreciate the possibilities
and potentialities of Canada as a great live stock producing country. We have the foundation for a wonder ; the next step is stock policies and perfect marketing systems so
product will be remuneratively and expeditiously disposed of. The future of the live stock industry at the
present time depends upon our skill in breeding, feeding and marketing, and the order of importance in which their order, as here set down, should be reversed. There has been a good deal said about breeding, but not ver much about feeding, and as far as marketing is concerned
that has been left pretty largely to the governments. Some associations have interested themselves in it, but they have had no support or urgings from
producers. The growers of live stock and the producers of live stock products should make it their business to upon and that steps be taken to advertise and to marupon and that steps be taken to advertise and
ket our live stock products to better advantage. at an amazing rate the fertie acres bacty mutiated heaviest importers of American grains; to-day she is producing almost enough grain to feed her population. A disrupted Russia and the small nations of Central

## More Production and Better Quality.

We are living in unsettled times-a period of readjust ment-and such conditions always breed new thoughts and new ideas. There is no progress without thought, but a people need to te careful that their conclusione are correct, lest progress te in the wrong direction. Farmers, particularly, need to te acquainted with conomic conditicns, markets, firances and world trade. Firmers are tig buyers and they are the biggest sellers in the world.

The opinion gains ground at times that farmers reduce their own revence by prcducing too much During certain seasons of crop failures prices are relatively high, and when a bumper year comes round prices fall. This has given rise to the belief that farmers prices fand be better cff if they curtailed production, spent less on fertilizers and labor, and had just as large a revenue from a smaller crop. Experiences seem to sulstantiate this argument, and even such a shrewd economist' as J. J. Morrison, Secretary of the United Farmers of Ontario, is reported to have given expression to some such sentiment as this when speaking recently at Guelph. If we analyze the situation a little mere carefully and go deeply into the matter, it would more carefuly appear strongest argument advanced by free trade exponents is that we buy on a protected market, while the value of farm commodities is set on the markets of the world. We have a large home market, that is true, but the export call, if it be only for a million bushels of wheat or a few carloads of cattle, just about sets the price for the commodities sold at home. Carrying this argument still further, it is easy to see what would happen should we curtail production at home. Competing agricultural nations would at once step in to fill the gap created, and the temporary adyance in price, if such occurred, would simply act as a stimulus to other nations to increase production. Just at this time competition is very keen. Denmark is exporting butter to America: New Zealand and Australia are bidding low for British trade: the farmers of France are reclaiming for Britist New heale fer mutilated

## Get the Good Out of Christmas.

## There is only one way to enjoy Christmas and benefit

 y it ; and that is to enter into the real spirit of theuletide season. If one stands coldly aloof while thers are merry, if one accepts gifts only while others are giving, if one is the proverbial Scrooge white others are happy, Christmas for that one will be the most unpleasant season of the year. It is better to give than giving. It does not warm the heart so much when we give to those who already have plenty or more than we possess ourselves. People are inclined to move along in grooves, and Christmas is sometimes a sterotyped affair. We give to the same friends because last year they gave to us; they do not require gifts, neither do we, but it the same groove which annually gets deeper and harder to get out of. There are plenty of needy in the world. They may not be our neighbors or relatives, but the pocr are always with us, and if they can be found and gladdened the pleasure of giving will be increased a hundred fold, and we shall feel like Dickers when he wrote: "I have always thought of Christmas as a good time; a kind, forgiving, generous, pleasant time; time when men and women seem by'one consent to open their hearts freely, and so I say-God Bless Christ-

## 正

Europe will again come to the front, and large agricultural commonwealths of the Southern Hemisphere will provide competition of an agricultural nature such as we have never known before. Should we cease to produce heavily the result would only be oticed by ourselves in smaller incomes and decreased prosperity.
We shall have to farm more carefully in the next few years. The margin of profit will likely be narrower, and to overcome this it will be necessary to pay more attention to cultural methods and to the management of our live stock. Competition will be keener, and we shall have to improve the quality of our product and be it incter volume so the consuming markets produce in in a mo will be able to depend upon Canada for supply. The right sermon now to preach is greater volume of production, improved quality, better farming methods and increased marketing facilities.

## Quebec and the Royal Show.

One of the functions which the new Royal Show should perform for the benefit of the live stock industry in Canada is to develop a unity of purpose and a common ideal among the stockmen of the various provinces. The show itself, when under way will stand as a meeting place for the best each province can produce, and it place be reated to having been ebtabliched in the should be regarded as having been estabstec industry interests of the Maritime and Quebec live stcck industry
as well as the live stock industry of the Province of Ontario. It is true that the Royal will be held in Toronto, but then Toronto wanted it worse than any other city wanted it. No one province owns the Royal; it belongs to Canadian egriculture as a whole, but particularly to Eastern Canada, because of the natural barriers separating, in large measure, the East from the West.

As an evidence of this inter-provincial ownerabip, other provinces than Ontario are being asked to assist in financing the Royal Winter Fair. Only recently a delegation of Quebec live steck breedera met the Hon, Mr . Caron, Minister of Agriculture for Quebec, to Mr. Cor a grant of $\$ 10,000$ per nimum towarde the new ashow. It will be remembered that the Ontario and Federal Departments of Agriculture are each granting $\$ 25,000$ per year toward the prize-list, and it seemed eminently fitting that Quebec should be invited to co-operate in forwarding a national movement of this kind. It is a difficult project to carry through to a succéssful conclusion, and those who have put their shoulders to the wheel to provide for Canada a central willy point for live stok improvement similar to the rallying point for great exhibition held annually in Chicago, will need every assistance, Quebec and Ontario must bear the brunt of the burden, because 'the live stock industry of the Maritime Provinces is sadly handicapped by lack of good markets and cannot, therefore, be expected to contribute to the success of the show to the same extent as the other Eastern Provinces which are more fortunately situated.

The delegation asking for the grant from Quebec, was, as might have been expected, given a very courteous hearing by the Hon. Mr. Caron. Mr. Caron knows his Province and his people, and we believe that his Department is always willing to further any plans or projects that promise improvement in agriculture. The Royal Show should be a stimulus to further improvement over all of Eastern Canada, and we have provement over all of East Ouebec witl Join in, with her undoubted interest in agriculture, to make it all that it should be, both as a purely.Canadian event and stimulus to live stock improvement.

Take time to teed cautiousty and wimely. Cood feeding is never done in a hurry.
The Farmer's Advocate
AND HOME MAGAZINE
rhe leading agricultural journal in the

Published weekly by THE WILLIAM WELD COMPANY (Limited)<br>IOHN WELD, Manage<br>Agents for "The Farmer's Advocate $\begin{gathered}\text { Winnipeg, Man. }\end{gathered}$

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## First Aid to Old Bachelors.

 I was asked lately if I wouldn't put in a good word for the Bachelors, sometime when I was trying to giveexpression to my ideas on paper. He's the under dog expression to my iceas on paper. Hes the ulder dog
that everybody kicks or throws atone at, so I supposi
that
 like this compels us to sort of reverse our mental mathinery and begin thinking in a direction opposite to what
has always been our habit and contrary to putbic opinion n general. For who ever wasted sympathy on the man

 might saferly consign,, him hoorored and unsung.
$\qquad$ ve must take into consideration, like war, faming
 For thoushnds ofy years, whenever mankind got into
tight corner, it would always take refuge in the passing af tigh tatner, it low, that it was hoped would help to
of a tatue or
law get everyone safely, over the diffculty.
For war we lave prescribed a League of Nations For war we have prescribed a League of Notions,
For famine we try the cure of ailing the profitears, For

homeless, being, the bachelor, should be made the subject of this legislating habit of ours. A brilliant idea oc-
cured to some one. They would impose a tax on all unmarried men who had come to the years of under standing, and back it up by the law of the land; tax him
off the face of the earth and out of existence, as it were. off the face of the earth and out of existence, as it were. that sort of thing. Force him into matrimony or give him duties and responsibilities of the average citizen or pay duties and responsibilities of the average citize made for circumstances-a regular holdup-your money, or your life, as you wished to live it.
Going back to the dawn of history, can we find another instance where a person has been subjected to a tax on what they didn't have? Tax a man for his farm or his dog, or his wife, if you like, but don't tax
him because of his lack of these things. It's against him because of his lack of these things. It's against
reason and common-sense, and the matter ought to be taken to the Supreme Court, that is if it too is not swayed
by the general prejudice against the Ishmael who has every man's hand against him.
But as to whether the bachelor, be he young or old important or put on the "free list," is not the most is, what is his place in the community? Is he a member of society in good standing? Is there room for a difference does towards his fellow-nen in general and his fellow women in particular? We claim there is. And the best way to prove it is to quote the words of men of wisdom
and experience who have left themselves on record as to this matter.
Bacon says that "a wife and children are a hindrance to great enterprises.
An old Scotch proverb says: "If marriages were
Another proverb, not taken from the Bible either, says: "When going to sea say a prayer; when going prayers.'
A French writer gives his experience and opinion that a wife has him." Voltaire, another French author, makes this confession: "Woman was created to tame man." We can thus tamed.
A Welsh proverb thinks that "the man who has taken one wife deserves a crown of patience," but that "the pity." horses and in taking a wife, shut your eyes tight and And again: "It is easier to take care of a peck of fleas than of one woman." his statement, says: "How many men would laugh o weep." are
These are only a few of the examples we could give great men. It all goes to prove that the bachelor of to day is not without the backing of the men of past genera
tions in regard to the matter of playing a lone hand in tions in regard to the matter of playing a lone hand
life's game. A lot of them did it and, apparently, ot more wished they had. Of course, whether you d doubt of the fact that "he travels fastest who travels Bachelors have their place in the scheme of things, as well as that part of humanity that is given over They've done just as much for the world, recently as the married men. They whipped the Germans and miration and respect. They should be bonused, no But it's the old story. He who has, gets; but he wh has not, gets it in the neck.
In conclusion we can't do better than quote the words of one more great French writer. "Bachelors,
he says, "are providontial beings; they were created the shows and the hope of mate Rons practically puts them in the same class an ot gemter


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## Nature's Diary

## Administering Medicine to Trebe.

## For many years past there have l,een occasional

 references in the press to the results which have been Sometime injecting various substances into trees. the tree of injurious insects, sometimes to kill fungi, and again with the idea of imparting some quality to the fruit or foliage. It has been asserted that if a solid piece of some chemicat substance is bored in a treetrunk that this chemical will be carried in the sap to all parts of the tree. Such assertions oan only be made by, or believed by, those who know nothing of plant anatomy, and who think that the circulation body As simmar to that of the blood in the human made up of long tube-like cells, and it is throurb these cells that the current of sap ascends. There is little lateral spreading of this ascending current, so that any chemical would be transmitted only to those cells lying. airly areethy acove the spot at wrich the chemical was introduced, and none of it would reach the otherside of the trunk. The elaborated sap, that is the sap which has received the food-products made by the leaves, descends through the inner layers of the bark
and here also the descent is in a fairly straight line Furthermore the effect of a strong chemical is to kill the cells about the point of its introduction and thus to stop any absorption of any kind.
In recent years the method of giving injections of the terribly destructive chestnut bark disease which has spread with great rapidity and has wiped out nearly all the chestnut trees over large areas. Dr. Rumbold
of the U. S. Bureau of Plant Industry has described these experiments in a recent number of "American Forestry." The first difficulty encountered was in getting It was found to be essential to make the holes through the bark for injection purposes under cover of a liquid, a if air entered betore injection, or with ane soution,
air-bubbles clogged the vessels of the tree and prevented the absorption of the solution. The following method was, however, worked out to eliminate this difficulty. A glass container holding the solution was hung from a
branch. The solution was led to the point of imiection pranch. The solution was led to the point of injection tube in the form of a $T$ was inserted into the injection hole. The free end of the horizontal arm of the T tube was tipped by a piece of rubber tubing. After the solution had filled the tube, a steel cutter was and driven through the bark of the tree. in tris tire ald elog hole was made in such a way that no
vessels, and the solution began immediately to enter the rree. It was found that all kinds or chemicaided there was sufficient transpiration (evaporation of moisture) from the leaves of the trees to keep the sap moving. The transpiration was greatest when the trees were
full leaf and the day was sunshiny, dry, and a breeze was blowing On cold rainy days the trees took up very little of the solution. The season of the year caused a tree, and also as to the part of the tree to which the injected chemical went. For instance if a the nuts
solution was injected in the autumn, when the solution was injected in the autumn, when the nuts
were ripening, a a large amount of lithium collected in
the the nuts and in the ends of the fruiting for injecting,
was found that Junc was the best month then July, May, August, September, October anh Aph a single injection hole by a tree fifteen feet in height and with a large rounded top, ranged from one-quarter, pint per day in April to three-fifths pint per day in June. In
some cases as much as three quarts of solution was some cases as twect hours. The rate of ascent of solutions was found to be quite rapid, as eaves of branches
into the trunk could be detected in the lea at the top of the tree in ten hours. ark disease fifty-
In the treatment of the chestnut bro six chemical solutions were tried, and found to check the growth of the fungus. In many cases the effect
of the solution was to cause the tree to form a callus around the diseased portions of the bark, which ther Iried and could be picked off.
ments were a success, but it sems as if continued treatis sooner or later eliminated from the tree. It was found that the holes through which the solution
was introduced caused no danage to the tree. These was introctuced cased were afterwards filled with clean grafting wax,
hole
and a callus prowth quikly closed the wound, forcing and a callus grow
out the wax plug.

Politics is an exacting game, and while the great mass cannot all "sit in" they do direct, to a large extent, the conduct of the they must feel, as a Farmer-Labor coalition, a certain gap between them and the masses for whom they legislate. A government must be representative of the masses, and the Premier of Ontarmanent led out on the only
and stable government.

## Investigating Farm Problems in the Annapolis Valley.

TRIP through the Annapolis Valley, Nova and composition of the soil, others to the precipitation A Scotia, any time during the period from early $\begin{aligned} & \text { which is fairly heavy, while practically all those in a } \\ & \text { June to late October will convince anyone that } \\ & \text { position to appreciate the real value and true function }\end{aligned}$ June to late October wil convince anyone, that
he general scheme of creation "The Valley", was penciled off as a great apple--growing district. The soil
and climate apparently combine to produce a natural habitat for the apple, and when apple trees once get their roots into the soil of that ar-amed they they are purpassed for color and statliness. However, when man has his way he seldom improves on Nature's plans; and in the long run he usually destroys the happy
equilibrium, exposes himself to the ills and forfeits the benefits which a kind Providence ordained should exist in the great scheme of which we are all a part. This,
perhaps, is one reason for the Experimental Farm at perhaps, is one reason for the Experimentake on shape
Kentville, Nova Scotia, which began to take in the spring of 1912 under the supervision of W. S.
Blair Srchards were planted in the Annapolis Valley twenty, thirty and forty years ago by pioneer fruit growers whose scientific knowledge could all be written down on the back cover of a public school primer and seem those same early-planted orchards are the ones that are yeielding the one million and $11 / 2-2$ produces. In those early days the soils
were not depleted, pests were few and were not depleted, pests were ow and
unimportant, Nature smiled on the pioneers who went forth to plant trees.
Perhaps it can be truthfully said that Perhaps it can be truthfully said that
the men of twenty, thirty or forty years ago, in spite of their ignorance of nitrates,
phosphates, insecticides and fungicides, were quite as well equipped to overcome the obstacles of their day as the modern grower is to battle with the infinitely more complex and stubborn problems of
the present. Be that as it may. we desire here to pay a tribute to the early prophetic vision and heroic efforts adorned that comparatively small area with the large producing orchards which earn for of the foremost apple-growing districts in of the foremost apple-growing oistricts in ships and denied themselves many cominto bearing and to the writer, who has for more than twenty-five years, it seems
that we give too little credit to the that we give too little credit to the
stalwarts who laid the foundation for this great apple-growing industry.
If the fruit-growing enterprise has developed in the Annapolis Valley, and there can be no doubt regarding
that, the problems and diff culties confronting growers that, the problems and diff culties confronting growers
have likewise increased. There are labor problems, marketing problerns and, last but not least, cultural some light on the general cultural methods best adapted to Valley farming and help solve the problems which confront the apple-growing specialist, the Experimental Farm, the theme of this article, was established at Kentville. This branch of the Domin as a fruit station ministering to the needs of apple growers. However, during the past eight years, while the trees were still crops, the relation of live stock to the fruit and general
farm, and other kindred subjects, has been carried ons The Dearth of Lime The Annapolis Valley soils, and likewise those of the entire Province, of Prince Edward Island and of New
Brunswick, arc pronouncedly deficient in lime. The
reason for this is not clear; some lay it to the character


Crop of Hay on the Dyked Marsh at the Experimental Farm, Kentville, N. S.

Turnip growers in the East are fairly well acquainted Turnip growers in the East are fairly well acquainted
with that enemy of the turnip field known as "clubroot." It has been steadily and persistently spreading until it has become a menace of no mean importance. Long blanks in the rows with no living turnip plants indicate the presence of this disease, and when it does not totally annihilate the crop the roots are dwarfed and contonce The opinion has been entertained that an abundalle a of hime was been carried on to determine the accuracy or fallacy of this contention. Slaked lime and ground limestone have been used in varying amounts on a number of plots purposely inoculated with clubroot, and when the results are compiled for this season's work the test should be completed. This is a matter of prime importance to farmers in the East where
turnips grow to perfection when they do not fall a turnips grow to per

Corn the King of Field Cropg.
"There is no crop we can put into the ground that per cow was $\$ 50.18$.
championed and was successful with corn as a silage
crop. The silos at the farm housed 225 tons of silage crop. The silos at the farm housed 225 tons of silage
last year, and it was entirely satisfactory. They have yet to have a failure with the crop. Sunflower as a silage crop is being tried in an experimental way this year, and the results with it will be forthcoming later. A good many silos have been erected in the East, but for various reasons too many of them are allowed
stand unused, or in the case of the old-fashioned stand unused, or in the case of the Live stock cannot be carried successfully through the long winter period in Eastern Canada without succulent fodder, and the silos should be employed to contain silage made
from some crops adapted to the climate. Clover has a staunch supporter in the Superintendent, who argues that if timothy and clover are ent, who argues plentifully sufficient of the natural grasses will find their way in even far pasture land. The regular grass mixture sown consists of timothy,
alsike, 2 pounds, and red clover, 8 pounds.
alsike, 2 pounds, and red clover, 8 pounds.
Growers in the Annapolis Valley, particularly, have swung around to a liberal use of commercial fertilizers, where formerly they used it very sparingly At the farm in question the matter is under test, and conomical results have its use up to 1,000 pounds per acre.
Above that amount the yields do not justify one in going.

Milk Production Profitable.
A very creditable herd of dualpurpose Shorthorns are maintained at the
Kentville Farm. The foundation for the Kentville Farm. The foundation Short herd consisted of good miking of type and horn cows with plenty of been used bulls strong in the blood of Butterfly King and St. Claire. When visiting the Farm we observed as nice a bunch o heifers and heifer calves as one wouid
see in a long journey; they were well see in a long journey; they were wey grown for their ages, indeed to see such splendid stock bred for the purpose of improving the live stock in a district where the need of improvement is so
apparent. It has always been a debatapparent. It has always een a
able question whether the fruit growers able question whether the should stick exclusively to apple production or have two strings to their bow. Without entering into the pros and cons of the argument at this time it is sufficient to
say that good live stock never did a say that good live stock never did a andled wisely it invariably does inestimable good. A-better description of the herd is contained in the report for one of the recent years when the complete records show that 10 aged cows and 4 heifers ( 14 in all) averaged 6,079 pounds of milk each for the year.
The daily average was 19.02 pounds. The butter-fat test was 4.14 per cent. The average butter production for each cow in the year was 296.6 pounds, and the profit

The fruit Farm Proprer
The Experimertal Farm at Kentville has been transformed from a wilderness to a fruit farm with to apples and other fruits during 1912, 1913 and 1914. A part of this is a commercial orchard planted 20 by 20 feet apart, and some 20 by 40 feet. There is also a variety orchard containing in the neighborhood of 450 varieties. In addition to this a farm recently making to the original purchase has 18 acres of trees, making is quite promising for the district is the Opafescent, : is quite promising for the district is Continued on page 2238 .


Panoramic View of the Experimental Farm at Kentville, Nova Scotia.

THE HORSE.

## Feeding Weanlings.

In answer to an inquiry from a subscriber, re the best kind of feed for a five-months-old colt he hopes to
show at the fairs, we thought the subject worthy of a somewhat lengthened discussion. We presume that the owner wishes to winter the colt in such a manner that he will be in condition for show purposes when the opportunity for competition
presents itself. The feeder must remember that at this age it is quite possible to make a mistake in the endeavor to get the animal in high flesh. The ultimate development, usefulness and value of a foal depends largely upon the feed and care he receives during his first winter.
Weanlings should not be pampered, kept housed all the time and fed heavily on grain. They should get
plenty of exercise; at the same time the too common idea that a colt should be taught to "rough it" early in life, in order that he may become a "tough, hardy ani-
mal," is as false as it is inhumane. In order that he mal," is as false as it is inhumane. "in ormer that must
may develop into the best that "is in him," he" muse may develop into the best that is in him, he must during his first winter,
The foal should be kept in a comfortable box stall when in the stable. The larger the stall the better as there may be occasions when the weather is such for several days at a time, that it would not be wise to turn him outside for exercise, and if in a box stant being largely in proportion to the size of the stall. So long as the weather remains reasonably fine, he should be turned out into a field or paddock for a few hours daily, but when it is wet or very cold he is better in his stall, which, in addition to being large, should be well lighted
excluded from drafts, and well ventilated, and when possible, of moderate temperature. But it is better that the temperature be low than poorly ventilated and warm. His coat will grow sufficiently to protect him
from the cold, provided drafts are excluded, but nothing from the cold, provided drafts are excluded, but nothing
can act as a substitute for fresh air. Of course, there are cases in ${ }^{\text {a }}$ which a box stall cansingle stall, but daily exercise must be given in some way, as it develops muscle, aids digestlon and gives
tone to the respiratory and nervous systems. When regular exercise is allowed there are few cases in which it is not safe to allow the colt a very liberal supply o grain. There are few weanlings that will eat sufficient exercise is allowed. Of course, there are exceptions and these must be treated accordingly. The question with older animals, hay, oats and bran must be depended upon for the production of bone, muscle and energy, and anything else given is merely for the purpos cially for colts, care must be taken that all feed given be of good quality. Musty or dusty feed of any nature should, on no account, be allowed. Well-cured clover hay gives better results than timothy, but where this cannot be procured good results are obtained from good timothy. The amount of hay should be libera, but in
no case more than will be eaten at one meal. The habit of keeping hay constantly before an animal of any age is wasteful and harmful. If he be fed what he will eat in at most one and a half hours, and then get nothing whatever to eat until the next meal time, he will have an appetite for his meal, will relish it, and receive
more benefit from it than if he had been eating more or less between meals. The digestive organs require periodical rests, which they do not get when feed is periodical rests, which at all times.
kept before the animal
The form in which oats are fed depends, to some The form in which oats are fed depends, to some
extent, üpon circumstances and the opinions of the feeders. Some prefer whole oats, some whole oats
mixed with bran, some chopped oats, some rolled or
crushed oats, and some boiled whole oats. The writer
prefers rolled oats, where this is fed some give it dry, others dampened, others mix it with bran and feed lo either dry or dampened. We favor the fotlowing plan
for weanlings. In the evening mix the ration of rolled oats ' with a little cut hay or wheat chaff, in a pail, pour some boiling water on it, cover the pail with a
lid to prevent escape of steam, and allow it to stand lid to prevent escape of steam, and allow it to stand Then prepare another feed in the same way, to be given in the evening, in the meantime giving a mid-day meal of either rolled or whole oats. This scalded mixture is very palatable and gives good results. It is also wel to give a feed of bran, say twice weekly in lieu of oats hut some prefer mixing a little bran with the oats it is well to give a carrot or two with the mid-day meal This is very palatable and aids digestion. As stated the amount of grain allowed may be quite liberal provided regular exercise be allowed. The feeder soo earns about the amount the animal will consume wit apparent relish, but if he notices any symptoms of
digestive trouble following a meal he should reduce the allowance. Water of good quality should be allowed at least three times daily, and where conditions ar such as will allow it, it is well to allow free access to it at all times.
In addition to feeding, housing, watering and exercise The wear of the feet is net equal to the growth an unless attended to they will grow too large, ill-shaped and out of proportion, hence interfere with the prope relation between the bones of the feet and those of the limbs. This may cause the animal to stand and walk his ultimate value and usefulness. The feet should the carefully examined at least once monthly and by the use of a shoeing-smith's knife and rasps, trimmed to the desired size and normal shape. The stall should be regularly cleaned out to avoid forcing the colt to stand on heating manure. The attention to the feet teaches handling of the feet and limbs, it is well to teach him to lead, stand tied, etc. Under such care the colt should be in good condition, in fact practically in "show condition. when pasture time arrives, when, if the feeder thinks it necessary, he can supplement the grass with a little grain once or twice daily, as the condition

## The Horse Market and Farm

 ProductsFarmers who do no special breeding of horses and consequently have none to dispose of are riot inclined to interest themselves very much in the horse market
or in the horse breeding industry. They feel that when or in the horse breeding industry. They feel that when
the need arises they will be able to obtain a horse or a team, so why should they worry? Whether horses or trucks are used in the manifold activities of trade and industry it matters little so long as plenty of horses are available for work on their farms. This attitude on the part of farmers is altogether too general and many the long range affect that a decadent horse industry will have on farming as a whole. There is a home market for farm product involved and this phase of the situation is of the most direct significance to farmers everywhere. Wayne Dinsmore, Secretary of the Horse Breeder's Association of America discussed this subject where more than a million horses and mules breeder displaced in the towns, cities and villages of the United States during the last ten years. Commenting further
"This not only means the closing of a channel to the farmers for sale of his surplus horses, (a by-product for staple farm products amounting per year to 113 43 m million tons of hay. The ears of users of horses
both in city and on Tarms have been so filled with th whirring of engine wheels that the farmer has let this ef the last five years, slip unheeded through his fingers, while the city man has paid service without times as much for hauning and de The farmers of Canada where horses have also bein displaced in large numbers sholld 0 nsider the proble from this angle for the local mark
the farm is too big to be ignored.

## LIVE STOCK

## English Fat Stock Shows

Editor "The Farmer's Advocate": been held. In that held at Birmingham the cattle championship was won by Sir Richard A. Cooper's
cross-bred heifer, Blue Bell, by an Aberdeen-Angus bull, out of a dam by a cross-bred Angus-Shorthorn. This exhibit at 2 years 8 months and 5 days weighed 14 J. J. Crirs. 11 los, Reserve for supreme title was loch ancestry scaling 13 cwt. 3 qrs. 11 lbs at 32 months old. Best animal bred and exhibited by the owner was
Messrs. H. Weston \& Sons' Hereford steer, Bounds Jester, by Conquest and out of Accomplice 4th. At 1 year, 9 months and 6 days he brought down the scale Championship in sheep (pens of 3) went to the Pendley Stock Farms Co., Tring, for a pen of Hampshire Down lambs which weighed 5 cwts 13 lbs . at 10 which at 22 months turned the scale at 5 cwts 4 ibs. Championship in pigs (pens of two) fell to Robert Championship in pigs (pens of two fell to Robert and brought down the scale at 8 cwts .17 lbs . at 11 months and 3 weeks old.
the Nuke of Portland's the cattle championship fell to beck Lass which scaled 16 cwt . 1 qr. 6 lbs . at 2 years Era of months. Reserve was A. W. Bailey Hawkin's 1 qr . The Royal herd from Sandingham won the steer prize with a Red Poll scaling 15 cwt . 2 qrs. 12 lbs, at
2 years, 9 months and 3 weeks. Sir Jeremiah Colman's 2 years, 9 months and 3 weeks. Sir Jeremiah Colman's
Southdown wethers won the sheep championship. They weighed 4 cwts 1 qr. 10 lbs. at 22 months. Albion.

## "I Got Him!

A boy pushed open the door of the Agricultural Representative's office one morning and shouted " surprised at the action of the lad but they were soon enlightened as to the reason for this outburst of enthusiasm. A pig club had recently been organized and one stipulation was that each member was to give or puardion, in payment for a young sow. The notes would not mature until the member had produce from his sow to sell. This particular lad had been in town the day previous and had picked his sow, but he could not make final settlement as the father was not present, The Representative told him to go home and bring his busy and thinks this club work all nonsense. He won't come I know he won't!' said the boy and his eyes filled with tears as he saw his chances of owning a pure-bred sow vanish. To be lenient with one lad would possibly weaken the morale of the scheme and besides, business is business. The lad was tord to bring to come anyway. We believe the Agricultural Repre sentative would have found some way of financing that pig deal if the father wouldn't lend his_aid. However,
the boy had his father with him at the appointed_time

the note was signed, and the pig taken home. A more
delighted boy would be hard to find in many a day's journey and we bave an idea that the father was glad
that he had come. We don't know what persuasive journe he had come. We don't know what persuasive
thawers or arguments the lad used but the fact that the powers or arguments the lad used but the fact that the stock and the enthusiasm
likely enlist the father also
There are many boys who have coaxed father for permission to have a calr, pig or lamb to call their own and to care for, promising to work hard and look alter the other stock. hamethes have had their air castles after months oy the money for the sale of the boy's property going to help reduce the mortgage or to buy
net prowerty machinery. How can a father hope to retain the
new respect of his son or to keep him on the farm when he
breaks faith with him? The selfshness of the head of the breaks is responsible for a portion at least of the rural
house is depopulation. field in harvest time to drive seven miles to town to put his name along side of his twelve-year-old son in the purchase of a ten-weeks-oid registered pig, we venture the boy does with that pig and the boy will take a keener the boy does with that pig and te boy willake a keenar been forced to get the Agricultural Representative or other person to back his note. When the boys "get the fathers" the fathers usually have the boys remain
with them on the farm. with them on the tharm in calf or lamb club in the community the boys and girls should be encouraged to become a
member and assisted to do the best possible with their animals. It is but human nature for a person to want to own something to have something that will give returns that they canc calc contry boys and girls have had
think best. Too many countr to depend on the parents for every cent they had to
spend and as a result when the time came for them to sever connections with the old home and start for themselves they were like a ship stranced on a stormy sea. They knew nothing of values, olly at twenty-five years of age they had to learn by hard experience what should of age they lad have been taught by practice in their teens. A livestock club in every community and every boy and girl a member of it would soon arouse a new interest in agriculture in general and would hold the cream of the
country to the farms to be producers of wealth. A country to the farms to be pro
you a club booster or knocker?

Third Annual Hereford Sale at Guelph.
On December 10, the Ontario Hereford Breeders' Association held their third annual auction sale ae and
Roval City, when they disposed of five males and Rorty-eight females. The attendance was not large and bidding was slow. Quite a few of the entries were well bred; some, however, were plain and were impress the purchasers as favorably as if they had been in higher fit. However, some very good prices were
received. For instance, Bernice, consigned by J. J received. of Kingsville, went to A. L. Webster \& Son,
Harris, of is a good cow for her age. Bonnie Lase, consigned by D. Grainger, went to the bil calf at foot. Anna Donald, at $\$ 400$. She had a bulcer was purchased by L. O Clifford, at $\$ 400$. On the whole, the sale was a satisfactory, one, and led to the distribution of good cattle. The total receipts were $\$ 9,700$. The filowing is a list of the animals selling for $\$ 100$ and over, Donald Lad 6 th, WV. Readhead, Milton.... Canadian Fairfax, Geo. Kennedy, Luckno
Columbus Donald, W. Mitchell, Norham Columbus Donald, W. Mitchell, Norha
Roy Fairfax, A. S. Hunter, Durham.... Roy Fairfax, A. S. Hunter, Durham......
Don's Jessie, ,W. Mitchell. Bernice and H. C., A. L. Webster \& Son,
Miss Donald 3rd, L. O. Clifford, Oshawa Miss Albany, J. G. Boyes, Creemore.... Jessie 25 th and calf, A. Gammie, Ariss.
Rosie and H. C., W. Mitchell.......... Rosie and H. C., W. Mitchell.....i.i.
Cherry Refiner, T. Gilfillen, Guelph.

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Cherry 3rd, w. Mitchell
Rosetta, A. M. Marthen Mon, Mount Albert
Victoria of Bronkdrisen
Flon or brookdale 2nd and H.C., C. E. Reynold
Bonnie Lass and B. C. W. Mitchell.
Princess Fairfax, W. Mitchell
Lity Fairfax, O'Neil Bros., Denfield
Silver Rose, R. McGregor, Tivertor
Ana of Oakland, W. Mitchell I. Victoria Rd Clearview Maid 2nd, W. Mitchell ${ }^{\text {Princess }} 6$ th, W. W. Giles, Clifford
Clara 2nd, M. K. Deans, Blair
Rubella 3rd, Geo. Reid, Goring
Mable Fairfax. R. MrGuran Tivert
Mable Fairfax, R. McGugan, Tiverton
Miss Brae Dale W. H. Hunter Orangevile
Miss Brae Dale, W. H. Hunter, Orangevil
Oakland Jean, Geo Kennedy Lucknow
Oakland Jean, Geo Kentedy
Oakland Rose, W. Mitchell
Lady Maud, Clarence O'Neil, Denfield.
Sunflower and H. C., H. D. Perdue, Wingham. Carnation Doald M- K Dens
Mable Drew, M. K. Deans
Fairy Queen, Wm. Mitchell.
Nancy Canol, J. G. Boyes
Belle and B. C. I. E Harris, Kingsville
Gladys 2nd, I. E. Jamieson, Singhampton
Lizzie Brae, D. Hesketts, Guelph.
Sunrise Iass and H. C., T. G. McCrae, Guelph
Suniss Brae Real 26th, D. Hesketts
Refiner Brae 3rd and H. C., D. Hesketts.


A Champion Berkshire.

## Sugar Beets as Hog Feed

Editor "The Farmer's Advocals : money in raising Some people say that there in has taught the writer of this article that there is money in raising hogs, even if the present prices were to drop. But there is a way to lessened.
Each year, other farmers as well as myself complained that the high prices of bran, shorts, cornmeal and feed flour would soon do away attogether with day raising of hogs. That was only too true. But one day, when readng ani che time came, I would plant some and that whem out. I learned that these beets were extensively grown in Iowa, U.S., and I found that the climate of that State and our country were identical, so I knew the beets would floble manure, and sowing quarter of an acre, using stable mike thickly. like turnip seed, though grew beautifully, and when fully grown, I boiled some and got a rich, dark syrup from them, but it had a strong taste. Having heard that charcoal was used in refining sugar, I put the syrup to bor straining large piece of rup to stew cranberries and make gingerI used the syave no different flavor from that of other sugar when employed in this way. Thus I cut my sugar bill down considerably. I gave the hogs and poultry some of the sugar beets, cut up and boiled in
the farm boiler for the swine, adding just a little crushed

oats, and throwing the beets raw to the poultry, as green feed for the winter season. I had plenty of eggs during that long, cold winter, when my neighbors had
none whatever. The hogs I wintered were fat and heavy, beating the two-hundred-weight in March. They cost me very little.

I plant sugar beets every year, and raise better hogs than my neighbors do on store feed. Also, there is market for hogs, especially the bacon type. market sugar beet has a large percentage of sugar, and sugar in any shape is a highly nutritious article of lood Our Government might do as the Danisin covernent is doing, namely, encouraging the growing of root crops The sugar beet is a great mik producer, and the cattle relish it. It makes good beef also, and will fatten more quickly than any other feed. If the farmer will grow the sugar beet, of which chere are several and better than before. The beets, owing to their and better than before. The beets, owing to ther Their great crop of leaves may be used as silage, so that there is no loss whatever to the crop. They do not rot, and will stand a lot of cold before freezing growth. They are a paying crop, and should be more extensively grown in Canada.
Halifax Co., N.S. M. Mclaren.

Canadian Wools and How They are Graded.
EdITOR THE FARMER's Advocate"
Figures compiled from statements of the grading of wool consigned co-operatively by some 12,00 sheep an excellent classes of woot produced within the Dominion. There is, naturally, a wide range of wool types to be found because of great variations in soils, clmates, meeds of sheep. Atradian wools are divided into three main classes-Eastern Domestic, produced in Ontario, Quebec, New Brunswick, Nova Scotia and Prince Edward British Columbia and parts of Alberta and Saskatchewan, and Western Range which is grown in the southern parts of Alberta and Saskatchewan. The term domestic is applied to wools grown on sheep kept in small flocke in connection with other farming operations-or, in
other words, as only part of the general farming scheme. Range wools are those, produced on theep tenchee where shieep raising is the main feature, and in these wools we find the Merino and the Merino cross-bred types predominating. In the domestic wools the Leicester and some Lincoln and Cotswold. Eastern wools are low in shrinkage, few lots shrinkfine more then 40 per cent., and the average being about 39 per cent. Western domestic wools are somewhat higher in shrinkage, and, naturally, the range wools show the greatest

The following table gives the Canadian tefmr theed. grading, the corresponding American terms and also the approximate British terms in counts:

| Canadian | American | British |
| :---: | :---: | :---: |
| Fine combing | Fine combing | 64's-70's |
| Fine clothing. | Fine clothing |  |
| Fine medium combing. | 1/2 blood combing. | 58's-64's |
| Fine medium cothing <br> Medium combing | 3/8 bload combing. | 53's-58's |
| Medium clothing | 3/8 blood clothing. |  |
| Low medium combing | $1 / 1 /$ blood combing. | 48's-54's |
| Low medium clothing... | Li4 blood clothing. |  |
| Low clothing. | Low 1/4 blood cloth. |  |
| Coarse........ | Common and braid. | $36^{\prime} \cdot 40$ 's |

Co-operative wool growers' organizations this year consigned for sale $4,426,121$ pounds of wool. Of this $1,617,704$ pounds Western Domestic, and $1,713,480$ pounds Western Range. The following table shows the pounds Western Range. Traight grades within such amounts of the various straight grades within such
class of wool. To save space, the off grades, such as black, seedy, cotts, etc., are not given.

| Grade | East. domestic | West. domestic | West. <br> Range |
| :---: | :---: | :---: | :---: |
| Fine combing | 14 | 2,627 | 30,504 |
| Fine clothing | 17 | 29,418 | 119,660 |
| Fine medium combing | 2,281 | 24,779 | 175,223 |
| Fine medium clothing. | 5,820 167,182 | 104,689 | 259,724 436,845 |
| Medium combing | 167,182 | 247,395 | 299,057 |
| Low medium combing. | 353,063 | 369,070 | 258,611 |
| Low medium clothing. | 9,361 | 893 | 153 |
| Low combing | 263,186 | 118,014 | 47,175 |
| I. ow clothing |  | 50,790 | 14,700 |
| Coar | 122,022 | 50,\% | 14,00 |

Note.- The above figures are complete to date of Nov.
15,1920 . Wools have been arriving at Weston.
since that time.

The above table shows very clearly that the bulk of thr eastern wools are deep grown and strong stapled，
falling largely intoo the medium，low medium and low combing grades．This fact also shows the prevalence the Down breeds．The Western Range wools，on the other hand，show a tendency toward the finer grades，It should be said of the Western Domestic class that some of the clips included are really range wools，coming within the domestic classification because the distinction was not carried to individual shipment but simply concerned organizations as established．
Therefore，within some of the associations whose ship－ Therefore，within some of the associations whose ship－ a few range lost．
It should also be stated that，because of the weal market，the wools were graded very strictly this year， and all grades made were on the high edge，so as to be attractive to the trade．The selling of wools on the graded basis has been of flocks，and，consequently，the improvement of quality and condition in wool．Sur－ prising results have been obtained in this direction during the comparatively short time is anticipated that ruch further improvement will be achieved in the near future．

## Live Stock Branch，Ottawa

## THE FARM．

## Making Meal of Sweet Clover

## Editor＂Tae Farmer＇s Advocate＂：

Ahyone having coarse sweet－clover hay from too
hin a seeding or late cutting，and find it very hard and dry，will eliminate waste by running it through a cutting－ box and fanning－mill and then grinding the coarse parts in a chopper．I had some ground this way at a near－by grist mill，into a fine meal．This meal is relished by hogs，hens and cows，atter being soaked，
All the lighter cut feed needs is to be well dampened， All the lighter cut feed needs is with a handrut of salt aisten three bushels of cut feed， One pain allowed to stand it will soften in a very short and when allowed to stand it will soften in a very shext to avoid heating and molding．The chaff from thresh－ ing can be handled in the same way．A neighbor of mine had an alfalfa mill last season and was able to cut and grind at one operation．The whole straw and chaff，by－products of 300 bushels of seed，were hande a dairy feed，
y own meal was from 55 acres of first－class cured hay．If you are going to be scarce of hay next year，
fit a piece of ground early，giving a light coat of manure if not rich enough，and sow 200 pounds per acre alone． Cut this crop in harvest time．Mine was erree feet high and gave three tons to the acre．Gre next season
cut from five to six inches from the ground，the first week in June，and then cut again，close to the ground for feed when in of the hulls are brown．Cutting at this one－third or so of thessom，kills the plant and fertilizes the land，leaving it clean for any other crop．Either of these last cuttings，if for threshing or for hay，are better done with the binder and the sheaves shocked and capped to retain the leaves．Ill wot beach．It will give this way very quickly，and will not bleach．It will give true concerning it as a pasture crop．On most any kind of soil it will sustain more cattle to the acre than any－ thing else yet known．And now，as the European corn if need be，in the silo．
1 would urge readers when they have a good thing Advocate＂is the best medium to do it in．W．TegG．

## The Season in Leeds County

 Editor＂The Farmer＇s Advocate＂： I thought possibly a few lines at home and abroad．might interest your many readers at han hay crop a little below the average，with grain an exceptionally good crop and potatoes a bumper one． short，owing to the fact that the provincial highway has been employing all the available men and spare teams．
While farm work has not heen neglected，in many cases farmers are behind with their plowing．The cold spell caught many with roots still in the irround ．he
provincial highway is still being pushed in this district． provincial highway is stinn now looking for work，and many are being turned away．Concrete work is stil
progressing but it is up－hill job on account of con－ progressing but
tractors being held up during the fine weather of Novem－
ber and the last part of October for the lack of cement． And when it did come the bad weather set in and this
causes the work to og slowly． As usual，at this time of year，auction sates are quite
numerous．Live stock of all kinds are selling far below what they brought one year ago，due perhaps to the
shortage of hay，and many farmers selling and moving
Drovers are picking up all surplus to other parts．Drovers are picking up all surplus
cattle at prices according to their condition．Selet
tore selling at 14 cents at shipping points，with sows bringing fout cents less．Few horses are changing

hard wood， 18 inches long，is selling at $\$ 4.50$ per cord but the mild winter so far has been easy on that com－ About one year ago，in a letter to＂The Farmer＇s Advocate，1 mentioned the erection of a consolidated but it will take some time yet before it is finished． When this school is completed it will be one of the best in Ontario． the Dominion Labor Congress，is of the opinion that wages are going to remain where they have been for the past four or five years，but that the cost of living must drop．It causes a farmer to laugh right and loud to think of paying men $\$ 3.50$ and $\$ 4$ per day to hoe potatoes，and then sell them at 50 cents per bushel they will ask for a drop in wages if farm products are going to come down to the pre－war level．

How to Make a Rigid Fence

## ＂The Farmbr＇s Advocate＂

The material used＇on the majority of farms for fence posts is probably the old reliable cedar．It is
grown locally in so many places and has such durability and comparative cheapness that it is still a favorite． Coupled with this is the fact that it lends itself to the manipulations of the ordinary farm mechanic．
First，absolute rigidity of the end posts and second，no daising of posts in the hollows in the line．To secure this result，the end post and the brace post，which is next in line in the fence，must be cross－footed，as also and length of the depression．Any handy man with axe and saw can cross－foot a cedar post and make permanent job．The accompanying illustration shows


## How Posts are Cross－foote

a cross－footed post，and it can be easily seen how such a post will hold．The post A is notched at C and the end E to make the dove－tail C D E．The cross－ foot B is sawed at F and G，about half way through，and the chip axed out．The dove－tail C D E should be flattened on the bottom so it will rest squarely in the cross－foot．The post is then laid on the cross－foot， the dove in the foot fitting the notch in the is upward and they are driven together．As it pnugly together， ． 10 －inch wire spike is sometimes driven through the post and cross－foot，but this is not necessary if the fit is good．The post and cross－foot should be nearly the same size to make a good joint．If the strain will be great，as must happen in stretches of 40 rods and
upward，is it advisable to make the hole for the end post from three to four feet deep，and large，so it will hold considerable rock．Care should be taken in placing
the stones to see that they bind against each other and
the post．A large，flat rock should be placed＂per－
pendicularly against the post on the inside to take the
strain．The post should be set slightly off the per－ pendicular line，slanting away from the direction i which the strain comes，as there will be some give when
the stretchers and tighteners are used and the posts should be upright when the fence is finished．
The brace post should be treated in much the same way as the end post，and a brace placed between the
two posts with a No． 9 brace wire twisted around the brace and the two posts，as shown in the accompanying
illustration．The posts in this diagram are not cross－ footed and are liable to lift．Cedar is good material By using this method，coupled with judgment in rocking，according to the strain，an absolutely rigid fence

## the stones to see that they bind againsteach other and



Frontenac Co．，Ont．Water J．Cooor．

Rural Views on Farm Topics．

## Editor＂The Farmer＇s Advocate＂：

Every up－to－date progressive farmer should boo
own profession．When Mother Eve ate the for bidden fruit she gave a boost to the clothing trade Let us all be boosters．The farmer is the most ind pendent man in ontario to－day；he asks tavors of no one urban dweller because he demands his eight bour the He in return laughs at the farmer for putting in a cixteen hour day．The city worker is welcome to his eight hour day for he is at the beck and call of his employe
If he is not at his post when the whistle blows he If he is not at his post when the whistle blows he is
docked in his pay．Only during the rush season does the farmer put in long hours and then is it not to his farmer would not be putting in such lona houre after the I believe there are many men in the city to－day who small anything to be their own boss，The surgestio has been made that the farmer should grow only enoug to supply his own needs．I think this is a very selfish viewpoint．Heliev hers providing it is not detrimental to his health．
farmer and those connected with him the strain of taking off a large cron when labor cand be procured at any cost，and when it is known that there are men who can，but will not help him out，then and only then is he justified in curtailing production． It is a grand thing to be a co－worker with nature the seasons follow one another there is a change of scenery to gladden the eye．What more glorious sight does nature afford us than the woods in autumn，with their blaze of colors？Agriculture is a noble calling， Let all who can remain on the farm and to those who The farmer，as a rule，when he retires，moves to the Being used he gets there he is like a fish out of water nothing to do．Many farmers to－day are reserving few acres of their farm，and on this property they erect a house and a small barn．Tree and so have everything hens，grow their own vegetauies，and so have everyynim
fresh for the table．They are more content away fron the city．－＂Far from the maddening crowd．＂
Perth John Davidson．

## The Sugar Tangle

## Editor＂The Farmer＇s advocate ：

 Excitement over the Order of the Board of Com－merce，prohibiting all imports of sugar and fixing the retail price at 22 cents per pound，died away almost as
cuddenly as it rose，when the order was rescinded suddenly as it rose，when the order was rescinded But wrath was hot while it lasted，and little wonder The idea of being forced to pay from 8 to 10 cent
a pound more for sugar than it should sell for was not a pound more for sugar than it And the one reason given for the Order that the refiners who had laid in heavy stocks might not suffer loss when prices dropped， somehow did not tend to allay feeling but rather to
intensify it．The public who had become sensitive about the continued high prices of sugar and were calling the refiners nrofiteers，when calml their losses were made furious as wel as dissatisfied to suspend and reverse the Order． People were pleased over one feature of the case that there was plenty of sugar．They had been rear to learn that it wasn＇t so
As a plain and easily understood instance of the work ing of the protective system it was unique．Every
body saw it and，strange to say，few seemed to like it Yet it was but an extreme case of what is going o constantly．Every time one buys an article on which a protective duty is levied，shoes，woolen goods，cottons， he i facturer including sugar，he is paying fee to the mat the sugar men，who had all along the legal right to levy bigger levy would be all right too． The fact is，the protective principle it，and throug their success and their interested influence the infection the bad moral effect，has been spread to a great many of our people．How little is heard nowadays of that fine，stalwart maxim，＂Fair play and no favors．＂It is our boast that wherever British rule is established thdeed is justice and fair play．＂British fair play＂has indeed
come to be a proverb，vet in all the press reports of the meetings of the Tariff Commission the absence of any meetings of the Tarit＂Commission the arkenc．Instead there has been the bent knee and fawning attitude，the whine about the entry ore．＂American and the farmers even， of the Ontario fruit men and the tobacco growers， of the Ontario fruit men，and the tovacco donce as to join in the plea for tariff help．How far removed respect！Oh，for some of the princely spirit of King David when he ref used the gifts of Araunah，the Jebusite saying＂I will surely buy it of thee at a price；ncite that which doth cost me nothing．＂ the home market for farm produce．We have one in－ Irummond，the sugar magnate，when asking for prices
may not be a fair sample of the working out of his home market argument, but it is one we can get at. "Re-
member," he said, "that a slump in the price of sugar member," hean the closing of the refineries and three thousand men thrown out in the daily papers that the please, the fact brought out inle for a month and those poor men without employment for that length of time, Take the statement as given. We may fairly assume
that the number given, 3,000 , was not smaller than the that the number given, Allow a family for every man, three thousand families.. How much is the home market they would provide worth to the Canadian farmers? let us see how much this home market costs, The duty on refined sugar coming into the country eight degrees, per one hundred pounds- $\$ 1.93$, and for each additional degree over eighty-eight degrees per
one hundred pounds, $11 / 3$ cents." That means two cents per pound practically, a little under or a little over imports for home consumption for 1919 are 359,470 tons; for $1918,382,807$ tons. That amount would be lessened
by refining, but, on the other hand, there is a very appreciable amount of beet sugar produced in Canada
which should be added to the amount imported. Returns of the sugar refiners to the Government give the consumption of sugar in Canada for the year 1919 as may fairly be assumed that, as there is a duty of two cents per pound on refined sugar ind higher than what it sells for across the line. That is how the market stands at this time. Allowing for ariations, that in be generous, knock off a half cent per pound and call, the extra price Canadians pay
cor $11 / 2$ cents per pound. On the 740 million pounds used that amounts to $\$ 11,100,000$.
Divided among three thousand families each would get $\$ 3,700$ yearly. That is paying too much for the whistle. Some, even if the whistle, the boasted home market so far as their staple products are concerned the price is fixed, not at home, but in the markets of the world. From the whole sugar situation we learn among other things, first, that protection is another name the vicious on the mass of the people; second, that the vicious
system has poisoned the public conscience from the big interests downwards, so that instead of fairness there is general game of grab; and third, that it wo employees of protected concerns than to pay
$\qquad$

## THE DAIRY

What Red Calves in Black Breeds of Cattle Mean.-Part II.
The early history of the Holstein-Friesian cattle like that of other breeds, is largely a matter of conjecture, and many of the statements in the example, it has been assumed by some that the present black-and-white color originated shortly before the beginning of the Christian era by the crossing of black cattle brought by the Batavians, who settled in the region
between the Rhine and the Meuse, and "pure white" between the Rhine and the Meuse, and "pure white" cattle of the Friesians. Not only is it improbabie in
the first place that these early tribes possessed cattle which approximated definite breeds, uniform in color
and markings, but it is exceedingly improbable from a genetical viewpoint that a pied pattern like that of the
Dutch cattle should arise from the crossing of black
and white stock. The statement of Hengeveld, so often quoted, to the effect that "the genealogy of Netherland eattle is pure and unadulterated, and is at least 2,000 true that the region of the Netherlands has apparently possessed cattle of special value since early Christian times, or possibly before, but there is no evidence to show that there have not been intermixtures with it in fact, there is positive evidence to the contrary. In perhaps the most general color of the cattle in the Nether fands and the surrounding provinces, until within century or two, was red or fawn (or some shade of dun), and that black-and-white piebald as a predominating color is of comparatively recent introduction. Red and-white breeds still occur in Holland and the West The fullest and most critical discussion of the colo in 1909 . He remarks that recent authors assume Netherland cattle to have been black-and-white since earliest times, but says there is no basis whatever for such an opinion. On the contrary, he believes that there were no black-and-white cattle in Holland previous to about the middle of the eighteenth century. This by early Dutch paintings in which cattle are depicted. Bakker examined nearly 4,000 paintings in the Imperial Museum at Amsterdam and found that while many of peared prior to the second half of the eighteenth century The senior author of this bulletin, at that time unaware of Bakker's work, came to a similar conclusion from a Gallery in the Mauritshuis at the. Hague in 1911 Storer also, in his work on "The Wild White Cattle of Great Britain" (1879), states that the famous paintings show the Dutch cow of 200 or 300 years ago to be quite different from the one of to-day; black was then rare different sinades of red being most common, but mousecolored and white with red ears being frequent. Netherland cattle are descended from the old red native breed which constituted the original cattle of all Central Europe; that they were, therefore, not originally black-and-white, but that this color dates from the latter part of the eighteenth century; and that it was introduced into Holland by importations of Jutland cattle frovidence of sueh importations to suppert this wiew The white face marking has, however, been common in the Netherland cattle from earliest times, and is characteristic of one of the present breeds in Holland. The black-and-white color must have found great favor in Holland, for after its appearance it seems to have become the predon the fame of the Netherland short cime, especially those of Friesland, rapidly extended them to neighboring countries, and more recently to all parts of the world. Nevertheless, as late as 1865, John H. Klippart, who made a tour of Europe for the Ohio State Board of Agriculture, reported regarding the color of these cattle at the international rair at Stellin, with red grey blue-grey, or black spots," showing what even then the breed was far from uniform. Various statements confirm the conclusion that black-and-white came into predominance very rapidly after its introduction, a thing which could very naturally happen, since black is dominant to red
At the present time there are three distinct breeds of cattle in Holland: (1) the black-and-white FriesianGroningen cattle, of a relatively heavy beef type; and (3) the Yssel breed, red-and-white in color and intermediate in type between the other two. Importation of other breeds is not allowed. It is interesting to note the way in wrible color and pattern characters. The

Friesian-Dutch has the black piebald pattern supposed to have come in from the Jutland breed; the Groningen has the imported black color, but Hotland cattle; while the Yssel (sometimes called "Oberijssel" or "Mass Rhein-Yssel" breed) is red-and-white spotted, the red color presumably being directly descended from the old native stock. At the present day one sees practically nothing but black-and-white and red-and colors appear in journeying through follana,
It is generally recognized in Holland that red-and white calves are occasionally thrown in both the black and-white breeds mentioned, namely, the Friesian Dutch and the Groningen. In the early herdbooks ho distinction was made between them, and they are stil registered in the Fesian cattle not had copies the books in order to make a study of the relative propor years, as was done in the case of the Aberdeen-Angus, but it is the generally accepted opinion that their number is growing continually smaller. A great decrease in the proportion of red-and-white animals registered from 1872 to 1905 is shown. Since that time and to the traveller through Holland in recent years it is noticeable that one or more red-and-white cows may be seen in nearly every herd grazing in the pastures. We estimated these to be in about the proportion of on in ten in 1911. While, therefore, as we have seen there has been a strong and growing popularity of black and-white in Holland, the prejus it has in America Indeed, the demand for nothing but black-and-white animals for exportation has undoubtedly had an important influence on breeding in Holland. So far as we are able to learn only black-and-white cattle have ever been imported to this country from Holland, and no other color can ae registered in the Holse are occasionally dropped, however, by imported stock, and by pure-bred descendants of such stock is fairly well known to most breeders of Holstein-Friesian cattle. The prejudice is so strong against them, however, and they are fooked upon with so much disfayor and suspicion, as possibly indicating some irregularity, breeding, that the fact is not advertised when they do adequate estimate of the frequency of their occurrence in American herds, but discussion with numerous breeders indicates that they occur much less frequently in herds with several generations behind them in this country than in those which are nearer to their imported ancestors. This is exactiy what might be expected, than in Holland.
It would be possible to give many instances of the occurrence of red-and-white calves as the offspring of pure-bred Holstein-Friesian parents in this country, but two will suffice as examples, On account of the prejudice against them, which would also be likely to attach to
the animals which throw them, the names of the animals and the breeders concerned will not be given.
. In one case a bull owned by a successful and wellknown breeder was throwing 2 to $\frac{1}{4}$ per cent. red-andwhite calves while in this breeder's herd. He had produced 69 advanced registry daughters, and it may be of interest to call attention to the fact that half of these daughters may be expected to throw some red-andof the composition of their sire. Another breeder of pure-bred Holstein-Friesian reports a case of twins in which one of the calves was black-and-white and the other red-and-white
While by individual inquiry many other cases could be accumulated, this is sufficient to indicate that th appearance of red-and-white calves in Holstein-Friesia
of American breeding is by no means infrequent, $\mathrm{an}^{\text {n }}$


Palmerston Hyacinth 8th.
Madame Pauline Sylvia 2nd.
Jualor Champion Holstein female at Toronto, 1920, for A. E. Hylet, Norwich, Ont.
they may be expected, though with diminishing fre quency, for many years to come, in spite of the rigid
selection imposed by the breed requirements in this country. As has been said, only cattle black-and-white in color, no matter what their parentage or other charac lers, can receive recognition in this country as pureundercurrent of red in the breed which may come to the surface at any time is not generally known, or, if known, is not understood. Animals which produce red-andwhite calves are looked on with suspicion as to their value, if not, indeed, as to their purity of breeding.
Sometimes the dam is considered to be at fault; sometimes the blame is laid to the sire; and it is usually a times the blame is laid to the surprise to the breeder to learn that they both
great seltand imple facts of inheritance involved in the case occasion ally leads to serious misunderstandings which may
involve transactions of considerable financial importance and charges of insincerity of dealing, or even deception and fraud. A more general knowledge of the facts will be of great value to the breeder of pure-bred cattle. red-and-white Holstein-Friesian calves is not necessarily evidence of lack of pure breedag. crossbreeding or outbreeding with red cattle or with animals carrying red would introduce this character into the hereditary makeup of the offspring and the red might appear
whenever two animals carrying it chanced to be mated. whenever two animals carrying its inheritance is the same whether it has been That is, its inheritance from generation to generation from an cariginal red-and-white parent in Holland, or whether
it should be introduced by crossbreeding. There is, then, it would appear, some ground for suspicion of the latter possibility when a red calf appears, and in such case it is very proper the animals concerned should be looked into very carefully. The integrity of the breeder is, of course, nowever, on an animal that has been bought or brought in from another source, it would be well for the breeder parents are equally to blame. Since grade cows are more likely than pure-breds to carry the inheritance of
red, this explains why they more often drop red calves than do pure-breds. But again, it must be remembered that they will produce red calves only if the bull als carries the trait. "masquerader", carrying red, no matter Finally this question might be raised. Since it natural for blalves, is it desirable that the standard should admit only the former as betongtes ather way as purely bred, and undoubtedly stand fully as
good a chance of inheriting the good economic qualities of the breed? This is a complicated question and cannot now be discussed fully. The great disadvantage extent the range of possible selection for other points
No matter how good an animal it may be in other respects, the red calf must be discarded on the basis of
breed dictates. On the other hand, there are decided advantages in having a breed uniform in obvous breeding and more rigid selection, but as the breed
comes by rigid elimination of other characters to be there is more reason to look on any non-conforming The present method of eliminating all red animals rom the herd is rapidly decreasing the number of ani red-and-white Holstein-Friesian calves will become he greatly hastened by eliminating immediately from which ever produce rei-anc-way justify the cost of such a procedure to the breeder and to the breed. On the while, to test bulls as to their purity for black, in which would produce only black calves. This test could bes be made by breeding the bulls to a sufficient number
of red cows, which would be used for that specific purpose. Whe ther such a gyarantee would sufficiently
 in a position on ansc befrere such a test conld be made
 lireeders the aninals of certain breedere, resulting from against the animals of certain breeders, resutump troin
this cuuse, has made it enecsary for thesc non virtually in the case hif men whose integrity could not be que It cancuncel. At present it is considereted almost a addition to an allowance of $\$ 2,000$ per year for officc ac
when heifers, should not be vealed, but'being from Kigh milk-producing stock should be sold to dairymen who
are producing milk but are not breeding. Vealing them or what is probably more common, disposing of them secretly with no return whatever, is an unnecessary loss not only to the owne, bis to the food-producing ever, that this course cannot well be followed without a distinct change in sentiment on the subject, and it is hoped that wider knowledge of the matter may contribute somewhat to that end.

Successful Convention of Creamerymen.
On Thursday and Friday, December 9 and 10, ${ }^{2}$
very successful annual convention of the Canadian Creamery Association of Ontario was held at the Carls Rite Hotel, Toronto. A very large number of members usual interesting and business-like atmosphere of the Creamerymen's Convention was in evidence. The address of the President, J. A. McFeeters, conditions which creamerymen are facing at the present gave away in September and market prices of creamery butter receded along with those of wheat, meat and other products. Montreal receipts of butter to date were stated by the President to be about 11,000 packages ess than last year, an amount equal to 160 car loads, or the Western Provinces will be about equal to 1919 but Ontario and Quebec will show quite a shrinkage. A rather unusual occurrence is the fact that local creameries In fair-sized towns have recently been drawing butter
from Toronto cold storages to supply the local demand, from Toronto cold storages to supply the local demand. butter has decreased. Mr. McFeeters believed that with further deflation lower margins for creamerymen are in sight, and the patrons will also want all they can get or the raw material. This means that efficiency must
be the watchword of the creameryman. Leaks in the creamery business must be plugged, and makers of

## The National Dairy Council.

Mac Robertson, Belleville, reported to the convention as the representative of the association of the National
Dairy Council. He believed the Council had done some splendid work and thought it should be supported
generouls He wished, however, to make clear his position with regard to the recent raise in salary which Council by the executive of that body. Mr. Robertson said that this matter had not been brought before the full Council, as he believed should have been the case and that not being a member of the executive he had afford the salary which they had agreed to pay. Council, was the next speaker, and dealt largely with
the work of the National Dairy Council. He pointed out that five out of the nine members of the executive are were therefore well taken care of. The objects of the National Dairy Council were threefold: namely, to
increase production, to increase consumption, and to improve marketing conditions as respects dairy, products the speaker to the necessity of milk campaigns in towns and cities, and the statement was made that following an increased consumption of milk the consumption of butter, found to have increased also. It was thought probable that a milk campaign would be put on in the City of
Toronto shortly, under the auspices of the Canadian Public Health Association.
As regards oleomargarine, the National Dairy As regards oleomargarine, the National Dairy of oleo. Legislation has, however, been passed permitting oleo to be imported and manufactured in Canada until September 1, 1921; but the speaker thought that through the efforts of the Council greater restrictions in its sale
have been imposed. From December, 1917, to January 31, 1920, 28,900,000 pounds of oleo were sold in Canada The total amount consumed in Canada amounted
to $37,585,000$ pounds, of which $15,100,000$ were imported To manufacture of creamery butter in 1919 amounted 000 pounds of dairy butter, made a total butter pro-
duction in Canada, in 1919, of $226,500,000$ pounds. this amount, $17,000,000$ pounds were exported. Mr
Sotit felt that the dairy interests and the manufacturers of oleo should get together in order that an annual fight over the matter of oleomargarine could be avoided.
With respect to the matter of his salary, Mr. Scott

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Lues mid the woild not do the work for less than he wa:
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convention on the rela on of methods of manufacture to fla vor and keeping quality of butter. We intend giving
Prof. Hunziker's address practically in full in a later and will only briefly review the subject here, as outlined by the speaker. The subject was chosen with particular reference to the condition of the butter market during that Professor Hunziker's reputation rested upon a solid foundation of knowledge and experience. To begin with, the speaker made it quite plain that no matter quality of cream will never make No making, a poor said the speaker, "is just as much an inherent putter" the quality and character of the cream as is the child a part of the flesh and blood of the parent. You can not draw blood from a turnip." The only means of inducing the patron to take good care of cream, in the俍 essential for good butter making. They should be washed so thoroughly that they are clean; steamed so thoroughly that they are sterile, and dried so throughly that they are bone-dry. Pasteurization was described improve the quality, flavor, and keeping quality of butter When cooling hot cream, it was suggested that about the worst thing that could be done with it was to pass it over a coin cooler. This injures the keeping quality It is difficult to get a good quick method, but any metho. better than surface cooling. In the opinion of the speaker, no apology was needed would consider. A lime mix is made by using thre pounds of dry, hydrated magnesium lime to eight and pounds of cream to ap .01644 pints, or .01 per cent., of the lime-mix would be
required. The use of a starter was declared to be a vital matter. High flavor and keeping qualities are diametrially opposite at be used for cream ripening but merely o secure uniformity in a pasteurized and properly manufactured butte

## A rather lively discussion was created when the matte

 Cream Purchase Putnam, Director of Dairying, pointed out that theAct was being administered from the standpoint of education rather than of persecution. The creamerymen, however, seemed to feel that variation of one-hial allowance. Those charged with the enforcement of the Act, however, stated that one-half of one per cent. should be the aim of every creameryman, and that it was only the persistent offender who would be checked J. A. Ruddick, Dairy Commissioner, Ottawa, adgrading of butter, and pointed out that there are many ways of looking at the question of grading dairy products. Grading may liee educational or commercial in purpose, o export or domestic business. It may be done by federal or provincial governments, or by dairy of grading and control are in force here and there in different countries. New Zealand has the first and most complete system of grading. Grading in New Zealand is comparatively easily applied, and is both educaring and commercia he the United States various methods are adopted. Canada also has several systems. Denmark has a system of government contro without grading, by which all exports of butter must bear the "I ur" brand, and no creamery is allowed to standard. Sweden has a system somewhat similar to Denmark, while Holland supplies a mark or brand to The object of grading, said Mr. Ruddick, should be to give the maker of a high-grade article full recognition, to facilitate business; to promote conect with the industry. The grader's report will show the make where he failed, and this information will be forthcoming whether the buyer is satisfied or wismitied wer purchase. Under the present system the buyer only is falling. Grading also will eliminate disputes as to quality, and the seller need not be bluffed about his
product. The opinion of the speaker was that it will be necessary for Canada to adopt some system of grading, if only because our principal A very enjoyable banquet was held on Thursday evening, at which several interesting addresses to the
presented. On this occasion Mr. Ruddick referred tutter rather general statement that the market for butter
at the present time is bad. This impression he said $=5-5-4=5$ for very high prices. The difficulty is almost entire as

Treasurer, H. S. Johnston, Lindsay; Directors: J. A.
Mceeeters, Toronto; D. Reddick, Cornwall: G.R. Taylor
Guelph; P. Christie, Ottawa. Representatives. to the Guelph; P. Chistie,
National Dairy Council: Mac. Robertson, Belleville.

Oxford Holsteins Sell Well The fourteenth consignment sale of the Oxford
Holstein Breeders' Club was held at Woodstock, on Wednesday, December 15. Messrs. Moore, Dean and
Pullin were successful in disposing of seventy head, consigned by twenty-nine consignors for a grand total
of $\$ 16,030$, or a general average of $\$ 229$. Included in the sale were seven bull calves, averaging $\$ 242.14$;
twelve yearling bulls, averaging $\$ 190.83$; one two-yearold bull, $\$ 110$; one aged bull, $\$ 190 ;$ thre one eifer calves. averaging $\$ 20$;
$\$ 230$; twelve two-year-old
heifers, ten three-year-old cows, averaging $\$ 260.50$; ten four-
year-old cows, averaging $\$ 243.50$; and eleven mature cows averaging $\$ 274.55$. There were forty-three females, Generally speaking, the cattle were in fairly good condition, but there were a few consignments that it
probably would have paid the Club to leave at home, The sale average was also lowered to some extent by
the number of bulls sold, there being twenty-one in all. The crowd was, we understand, the largest that ever
attended an Oxford County sale and was certainly too big for the seating accommodation provided, in spite
of the fact that the latter was much more liberal than is ustally the case with consignment sates. The sales stable was also warm and comfortable, although the
selling space was crowded more than is desirable. The high price of the sale was secured for Sir Paul Colanthus, a great grandson of May Echo Sylvia, and whose four
nearest dams averaged 34.11 lbs. of butter and 738.37 lbs. of milk in seven days. This bull is out of Lady
Pauline Colantha, a $26-1 \mathrm{~b}$ cow, and he is by King Paul Pauline Colantha, ad-cow, and he is wh ch eraul
Pontiac Echo, the dam and sire's dam of which averaged 37.67 lbs . butter and 848.40 lbs . of milk in seven days. This young bull went to Wm. B. Poole, of Ingersoll, for
$\$ 635$. The received for Madoline Dolly De Kol, consigned by
rest highe price the sale was $\$ 50$, Wm. Stock \& Son, Tavistock. This was an eight-year-
old cow with 14,173 lbs milk and 621.35 lbs. of butter at four years, and 25.23 Ibs. butter in seven days. She is also a daughter of Baroness Madoline, a former
Canadian champion, with a record of 23,673 lbs. milk Canadian champion, with a record of 23,673 lbs. milk
and $1,122.5$ bs. butter at seven years. Her best sevenday record is 34.48 lbs. butter. This cow went to John
W. Moote, Canboro. Following is given a list of the consignors, and a list of individual sales for $\$ 100$ or

Consignors.
Consignors.
Tavistock.
(3) Wand

Bessie Bluebelle Calamity, Jas. Chambers, Currie Mercena Pietertse Johanna, C. A Grimiths, Thoroid.
Grace Fayne L.yons, S. Lippert, Embro
Pauline Pontiac Pet. Prov, Seccetary's. Depart. Ladent Minto Mercedes, Prov, Secretary's Depart Rose Echo Pietertje, Fred Ure
Susie Segis Baroness, Jas. Davis, Thorold
Cherry Butter Colantha, W m . Winer $\quad . \quad 240$ Re-Becky Clothilde Wayne Iohn Hird, Curries Re-Becky De Kol of Cedarbrae, Prov. Secretary's Jill Mept Mehthilde Colantha, Alex. R. McKay Hengerveld Segis, C. A. Griffiths.
Silver Fayne Brookbank, Jas. Crawford, Embro Brookbank Grace Segis, Jas. Davis, Merriton Francy Segis Korndyke, , R. Taylo ' Jr., Woodstock
Pietertje De Kol Hengerveld, Roderick Jack Newton
Sorah Fayne Korndyke, Bert Swale, Woodstock. May Butter Baroness, J. Campbell, London. Star's Nancy De Kol, Geo. McComb, Burgessville Nettie Snowball, Alex. R. McKay
Countess Bonnie Mechthilde A. Countess Bonnie Mechthilde, A. Groves, Ingersoll. Bessie Canary Posch, J. R. Tisdale, Norwich
Polly Mercena, Harry Yates, Orchard Park, N Patsy Brookbank Butter Girl, Alex. R. Mckay. Bessie Albino Fayne, Alex. R. McKay
Mechthilde Walker Korndyke, Wm. L. Sutherland Thisy Posch Segis 2nd, E. H. Snarey, Woodstock Males. ford Pioneer Aritilla Duchess King, Arthur Bud
Beachvile Centre View Peter, Wm, L. Sutherland
King Cubana Hartog, Wm. Reed, Princton
Sir B. B. Pontiac Sylvia, J. R. McLaren, London. Prince Colantha Korndyke, J. F. Dunlap, Chatham Prince Toake Huwtio Arthur Thomas, Salford. Burke Johanna Lad, W. H. Armitage, Ettrick. King Alcartra Johanna, Chas. G. Griftiths Springbank Baron Echo, Arthur McKay
King Pietie De Kol, Cedric Snell, Norwich Baron Echo Sylvia Posch, S. R. McVitty, Muncey Ormsby Hartog Fayne, Spencer Egan, Innerkip. Mechthilde Hengerveld Walker, Wm. Sage, Wood
Sir Fayne Segis, S. Fiddy, Burgessville.


Off-ers Canadian Creamery Association of Ontario.
 Curries Crossing, (2); W. E. Thomson, Woodstock
(2); J. W. Ines, Wodstck, (3); Fred Row, Currie's rossing, (2); Willard Scott, Currie's Crossing (2)


Iadoline Dolly De Kol, John W. Moote, Canboro 8500

 lice Pontiac Walker, Jas. E. Casler, Sal ford $-\frac{21}{180}$ ivermead Lady Faforit, Fred Üre, Maidstone ${ }_{22} 22$
 rnich Lodge Margaret Mercedes, T. Dunham, larror Veman Mercena, Burns Sutherland, Embro
arimont Daisy Alcartra, R. T. Macclonald,
 town, P.E. E.t. Pele Wilson Inizersoll
 Department, Woodstock


Duke Mercena Wayne, John S. Amos, Woodstock
Segis Gano Walker, E. H. Snarey Cegis Gano walker, E. H. Snarey
Cav Sylvius, Frank Pike Curries
 Colanthus Shadeland Segis, Mack McPherson,

Perth Holstein Breeders Sell 55 Head.
The fourth consignment sale of the Perth District Holstein Breeders' Club was held at Stratford, on
Thursday, December 16, and a total of fifty-five head were sold for the sum of $\$ 9,792.50$, or a general average of $\$ 178.04$. Excluding four calves at foot, which were sold separately from their dams and which sold for an average of $\$ 60$, the general average was $\$ 187.25$ for over, averaged $\$ 209.10$. The averages by ages were as over, averaged $\$ 209.10$. $\$ 7.25 ; 3$ yearling bulls, $\$ 135$;
follows: 10 bull calves, $\$ 78.25$ a 1 heifer calf, $\$ 70 ; 3$ yearling heifers, $\$ 90 ; 13$ two-year-
old heifers, $\$ 208.46 ; 8$ three-year-old cows, $\$ 220.62$. old heifers, $\$ 208.46 ; 8$ three-year-old cows, $\$ 220.62$;
5 four-vear-old cows, $\$ 244 ; 13$ miature cows, $\$ 197.69$. The high price of the sale was $\$ 300$, secured for the The-yigh price of the sate wastor, Rea Harto, consigned by Arbogast Bros., Sebringville. The next highest price was $\$ 335$, received for Evergreen Abbekerk Tensen, con-
signed by Harold Thistle, St. Pauls. The first-named signed by Harold Thistle, St. Pauls. The first-named cow was sold to Donald Jack, Newton, while the second
more than half as many people at the Perth sale as at the Woodstock sale the day previous. The cattle offered, moreover, were not in such good condition on Stratford is also accounted for, to some extent, from the fact that many of the dams had not been tested. The following is a list of the consignors, and of all sales for $\$ 100$ or more.
Wm. Steinacker, Stratford; Wm. Stock \& Son Tavistock; John F. Turner, Carlingford; Nelson Oliver Russeldale; Harold Thistle, St. Pauls; John R. Archibald, Seaforth; Arbogast Bros., Sebringville; Chas. Baird, St. Mary's; McNamara Bros., Stratford; Ezra Tig Wood, Mitchell; R. S. Oliver, St. Mary's; P. Dill, Dauls;

## Lady Jane Dewdrop, Geo. E. Carter, Parkhill...... $\$ 150$

 May Hengerveld Veeman, Provincial 'Secretary's 250 Greenfield P. W. Betsy, Prov. Secretary's Depart- 180 ment................ Mathies, Tavia 180 stock Sunnyside Alcartra Lily, Roderick Jack, Ne Alma Pontiac, J. W. Innes, Woodstock May Hartog Pietertje, Fred Miller, Gowanstown .... 135 $\begin{array}{r}270 \\ \hline\end{array}$ Countess Lily White De Kol, B. B. McCarty, 250 Thamesford. Sound...ascen Natsey Prow Secretary's Depart-........................... ment.............. 200
Sadie Lyons Pietertje, O. H. Killer.................... 335
Evergreen Abbekerk Tensen, B, B, McCarty....... 325 Hartog Lass, Geo. E. Carter W......................... 325 Natsey Lyons Merceder, W. Je. 190
 Queen De Kol Aaggie, Prov. Secretary's DepartHester Calamity Segis, Wm. Cornish, Stratford...... Teake De Kol Creamelle, Henry Sargeant. Elmcrest Lenora De Kirl A., Tinning, St. Paut Creamelle Natsey, Prov. Secretary's Department Lighter Day Mechthilde, J. W. Innes, Woodstock.. Kitty Abbekerk Natsey, Wm. N. Jeffrey Rea Hartog, Donald Jack, Newton................. Jane Abbekerk Peerless, Frank Famme, Stratiord. Toitilla Aaggie Abbekerk, Wm. H. Nicholson, Parkhill.
Two-year-old heifers, J. W. Innes, Woodstock......... Cleanor De Kol, O. H. Killer, John C. Murray, St. Pauls.............................................................. Secret.
Olive Pontiac Schuilin, Prov.
ment............................................... DepartKatie Faforit, Chas. Matthies De Kol of Rosarden 2nd. Henry Sargean Mercena Grange, Amos Jutzi, Gad's Hill............. 145 Rosarden Canary Segis, W. D. Gray, Britton............. 230

Males,
Sovereign Gretqui Sir Changeling, Fred Dunseith Stratford Abbekerk Waldorf Pietertje, Walter Rae, St. 110
Pauls
 Rosarden Maud's Colantha, Geo. Nichol, Listowet.

Sovereign Segis Hengerveld, Wm. H. Douglas, St. | Pauls. |
| :--- |

## Brant Holsteins Average $\$ 220$.

A total of $\$ 9,715$ was received for 44 head of purebred Holsteins at the tenth semi-annual consignme sale of the Brant District Holstein Breeders saie.
general average was $\$ 220.79$, while for 40 head of females, general average was $\$ 220.19$, whie or was $\$ 226$. There was not much young stuff offered as compared with other sales, and the averages for cattle of different ages
were as follows: 3 yearling bulls, $\$ 155 ; 1$ yearling heifer were as follows: 3 yearling bulls, $\$ 155 ; 1$ yearing heirer
$\$ 210 ; 9$ two-year-old heifers, $\$ 207.77 ; 6$ three-year-old cows, $\$ 223.33 ; 7$ four-year-old cows, $\$ 218.55 ; 18$ mature cows, $\$ 223.33 ; 7$ tour-year-old cows, $\$$ cows, $\$ 238.88$. The high-priced animal of the sale was the six-year-old cow Flora Mercena of Homedale, consigned by F. W. Woodley, Wilsonville. She was
sold to W. L. Davidson, Meadowvale. The same sold to W.L. Davidson, Meadowvale. The same $\$ 390$. She was Abbekerk Posch De Kol, and went to the same buyer. Following is a list of the consignor and a list of all sales for $\$ 100$ or more.
E. C. Chambers, Hatchley Station; W. H. Shellington Harley; Chester Lee, Kelvin; C. Duff Nelles, Scotland;
C. C. Haviland, Wilsonville; Robt. Shellington, Hatchley Station; W. H. Simmons, New Durham; F. W. Woodley Wilsonville: G. B. Robb, Branchton; Lewis Kelly Scotland; Wilbert A. Butler, Norwich; C. G. Gurney Paris; N. P. Sager, St.
A. H. Bevin, Burford.
 Royalton Korndyke Queen, T. Wilcox, Smithville..
Lulu Wayn of Annfield T. Wilcox Ormsby Butter Girl, T. Wilcox.... Lizzie Butter Girl Posch, T. Wilcox Black Beauty Calamity, Ira Shaver, Cainsville Francy Spofford, W. L. Davidson, Meadowvale Minnie Hartog Butter Girl, Geo. H. Bethune Ryckman's Corners Clothilda Spofford Rooker, H. Miller \& Sons Lila Mechthil Mechthilde Hartog, Prof Plant, Brantford..... Dean, Guelph Poschtnile Hartog, Prof. H. H. Dean, Gue Segis Maud Korndyke, G. H. Bethune Tidy Johanna Spofford, H. H. Potts, Lynnville Lady Laurier Gano, T. Wilco Princess Colantha Daisy, F. H. Peer, Norwich. ville.................................... Pietertje Schuiling Posch, L. C. Snowden, Bowman
Pietertje De Kol Gano, J. Lorne Stevens, Bowman Braeside Segis Maud, E. C. Gurney, Paris Maud Segis Fayne, Roy Teal, Ridgeway Bessie Johanna Fayne, W.L.. Davidson Matilda Johanna Brook, W. L. Davidso Johanna Pride, J. E. Brethour, Burford
Bessie Joheanna Mechthilde, Prof. H. H. De Bessie Johanna Mechthilde, Prof. H. H. Dea
Bessie Colantha Mectithilde, G. I. Bethune Aaggie Colantha Francy, J.' W. Roulston, Hagers Abbekerk Posch De Kol, W. L. Davidson... Flora Mercena of Homedale, W. L. Davidson Allied Daisy Posch, H. German, Paris...............
Pautine Posch De Koi 3 rd, Ira E. Shaver, Jers Beatrice Posch, T. Wilcox
Fairy Princess, W. F. Emmott, Newport............... Lily Pontiac Schuiling, Hamilton Health Assn milton
Launtegs Mutual Johanna Pasma Calamity, W. L. Davidson hanna Pontiac Pauline, Frank Riddle, WilsonKorndyke Artalissa Maid, G. H. Bethun Alice Smith, H. H. Bailey, Paris Wayne Pasma Calamity, Hamilton Health Assn Royalton Korndyke Leone, F. H. Peer, Norwich
Prince Johanna Schuiling, Martin L. Vansickle Mraeside King Pontiac Fayne, Lloyd Taylor, Brant Braeside King Pontiac Calamity, Wm. McClellan, Harley...........

According to a cream separator company 100 pou of skimming capacity in August 1920 cost $\$ 14.50$ compared with $\$ 45.46$ in 1890 . In other words it quired to pay for 100 pounds skimming capacit quired to pay for 100 pounds skimming capacity
in August 1920 , as compared with $2273 / 10$ pounds of butter in 1890 .

Ireland now exports 15,273 tons of cheese to Great Britain as compared with a pre-war average of
tons. This change which is said to be largely a tevelopment brought about by the requests of authorities to make cheese rather than butter caused a decrease in butter exports from Ireland from 36,110 tons which was the average quantity export
from 1909 to 1913 to 16,585 tons in 1920 .

## HORTICULTURE

Results From Dusting Apples in 1920.

Editor "The Farmer's Advocate": susceptible variety to scab and the hardest to keep clean On unsprayed trees, the terminal growth is generally
badly infected by fall, and much in the interior part of the tree dres the following spring as a result of scab
infection. Practical experience has proved that it requires at least two seasons of thorough spraying before one has a fighting, chance of controlling infection and getting a fairly clean crop the third year;
The writer has undertaken a series of spraying experiments on McIntosh for the peries four spaying in connection with his regular work at "Springhill
Orchards," Frederiction, N. B. The formulae were prepared by Geo. E. Sanders, Dominion Entomological I aboratory, Annapolis Royal,

## The first three years liquid sprays were used and

summary of these results shows conclusively that, by
all odds. the best control was $3-10-40$ Bordeaux. Hy
caused a gooll fungicide but in effective strengtis of the fruit.
Dusting.
The past season the trees were dusted, and the results have been highly satisfactory. The materials used were the new "Sanders Copper Arsenic Dust" and standard $90-10$ sulphur. The Sanders dust cost about $\$ 5.50$ per cwt., the sulphur cost $\$ 8$ per cwt. and astr base of the former is hydrated lime, while the latter is
sulphur, we found the Sanders dust to have twice the volume of the latter. A duster with a 3 -inch discharge pipe driven at maximum speed will cover 15 year old trees set $30 \times 30$, with 50 lbs . of Sanders dust per acre. We dusted 50 acres of young trees having an average diameter of 6 feet with about 25 to 30 lbs.
by giving each tree a shot as the team passed. 24th and 25th, when the bloscoms were just about ready to burst. The second application, June 5 th and 6 th was $90-10$ sulphur applied after the petals were off. As it was very showery weather an application of the same was made June 8th to 10th, using nearly 100 lbs . per acre. On July 10th and 11th, we again dusted with Sanders dust, driving slow; machine at full capacity and coating the trees white. We used a little over 50 lbs . per acre. We did intend making another application
on July 25 th, but other circumstances prevented. on July 25 th, but other circumstances prevenled.
However, the application of July 10th was plainly However, the applicat and branches, until September 1 st. On number of average barrels, hand graded, scab showed less than 3 per cent., counting everything to the size of a pin head. There was practically no russetting and we did not find a burned leaf. Part of the trees were in a fertilizer test-recciviny from
to 5 Ibs . each nitrate of soda- so that the foliage was heavy. Some of these trees picked nearly 3 barrels. They are 15 years old, but owing to neglect in their We packed out 126 barrels. Number ones were graded $25 / 8$ inches up. Number two graded $29 / 8$ to $25 / 8$ nches and threes nothing below 2 inches, and no scab packed 46 barrels or 36 per cent. Of number two's 45 barrels, or $353 / 4$ per cent. Of number three's 26 barrels, or $201 / 2$ per cent., and of Domestic's 9 barrels or $71 / 4$
per cent. In consigning them they were guaranteed not to contain over 5 per cent. scab in the three's and 10 per cent. in Domertics.

In an unsprayed adjoining orchard and under otherwise identical conditions, the McIntosh were 100 per of which received two blocks of Mrilwaukee trees, one weather) with Sanders dust, the fruit was badly affected with "pit". The other block, which received the same applications as the McIntosh, were absolutely clean. dusting for scab control. The dust is so superior and dustlng for scab control. The dust is so superior and
so much cheaper that it eliminates comparison. Its so much cheaper that it eliminates comparisor is very slight effects on the oyster shell bark louse.
The Sanders dust is absolutely safe on apple foliage either wet or dry and its only objection is the slight ussetting on some varieties when used for the caly A Few Hints on Dusting.
We got best results-most even distribution-in the We got best results - most even distribution-in the
vening, a and between 6 and 10 o'clock in the morning. Before $6 \mathrm{a} . \mathrm{m}$. the wind is variable in this locality large oval funnel with very little slope, to fit the hoel
in the hopper. Use a large flour scoop to fill hoppe It can be done without stopping the machine. Tim is worth money in dusting

## POULTRY.

## How to Get New-Laid Eggs

 pullets have been brought along from the timed hatching so that they do not receive any setback, and no difficulty in heen hatched fairly winter months from the flock. They will start to lay earlier if they have been put into winter quarters some little time before they should begin to lay.Elaborate winter quarters are not necessary Naturally, the cheaper the house the more economically dry and free from draits it it ishle, ef firentiated ance that any pullets being put into winter cuporters should be examined thoroughly and those which to show a good cońsitution should be culled out. More over, some treatment for lice should be givèn, the best probably being a small piece of blue ointment about the size of a small pea rubbed below the vent and under the wings. It is also recessary that birds which have been accustomed to a great deal of exercise on the range should not be connined too closely when -brong I It winter quaters. Give plenty of clean, deep, littei fed isalso more necessary if anything at this time than at any other time because the pullets have been ac customed to green feed all summer.
Experience and experiment have shown that where artificial light is available it may be used with good success atcertain periods, in order therease production Where birds of the type of Plymouth Rocks of Myandottes have been fretched frome the middle of March to the eideu of May, the peake in production March or A pril If these pullets are put under artificial light, so as to lengthen the day for two or three hours it is stated that the peak of production may be advance to December. Similarly, late-hatched pullets or old hens may be brought to laying earlier by the use of artificial light
As lar as feeding is concerned, it is a good idea to keep a hopper of dry mash before the flock at all times equal parts of bran, middlings, cornmeal, finely-group feeding surgestions are of Poultry Division, Central Experimental Farm, Ottawa In the morning, feed scratch grain in the litter,-cracked corn, wheat and oats, equal parts by measure or some simpler mixture. This should be fed sparingly, just about a pint to 25 birds will be sufficient. At noon give green feed, sprouted oats, mangels or something similar little scratch grain may be scattered A moist mash may be fed either at noon or in the evening, whichever is most convenient. A considerable night the flock should be given a full feed of scratch grain. The birds should have grit, oyster sheil, charcoa and clean water before them at all times. If milk cail be had mix the moist mash with it, also supply it as drink; if milk is not scrap before the hock In feeding the endeavor should be to supply every as large a proportion of mash feed as possible, as records show that increased protuction corresponds to increased consumption of mash.


Packing Apples in a Warshouse for the British Market, Kentville, Annapolis Valley, N.S

## THE FARMER'S ADVOCATE.

## THE APIARY.

## Sweet Clover as a Soil Improver

 and Honey Plant
## editor "The Fa

Assa soil improver sweet clover is excellent. By it
igorous growth and the decay of the large roots will replace humus where it has been weathered away and by its power of taking nitrogen from the air will
bring up in fertility, poor, rundown soils. The plant akes nitrogen from the air by means oflos about the roots. This adds more nitrogen to the soil and makes possible the growth of other plants. The bacteria
which inhabit the root-tubercles of sweet clover and Ifalfa are identical, or at least capable of living on eithe plant, and for this reason sweet clover is valuable as a
pioneer crop for alfalfa, insuring proper inoculation of pioneer
the soil
he soil.
Besides, the large, fleshy roots of the biennial, sweet lovers store up a great deal of plant food the first yea spring of the second year. This supply of food, not al-
together used up, yoes back to the soil on the death of the plant, adding to and enriching the humus. T roots, being fleshy instead of fibrous, decay more rapidly and so hasten the increase of fertility. Their rapid de-
cay, moreover, releases the stored up nitrogen about the ends of the rootlets sooner than do the roots of lowing plowing al alfasy operd.
In contrast to the other legumes which gather nitrogen in the same way, but which need considerable humus, sweet clover thrives where humus is quite absent. This
roots, piercing the lower layers, make way for roots of
other crops which are not able to penetrate where the ground has not been broken up. The continual growth and decay of the heavy roots slowly converts sand into
fertile soil.

Sweet clover is one of the most important honey
plants in the world. Widely distributed all over the United States, it is becoming more and more abundant. in limited it areas, the bees are always busy on it when in bloom which is from the close of white clover clear on up particularly as the beekeeper can depend on it every year, wet or dry. In the West, carloads of almost pure honey are produced. I said "almost pure" be
cause there are other plants usually in bloom the same time. This very fact makes it more saleable, because a strictly pure sweet-clover honey is a little too strong and a slight admixture of the other honey gives it a
better flavor. Conversely, a little sweet clover in any other honey adds a quality or flavor that is very delightful
For that reason bottlers of honey like to get it to mix with other honey. Taking it all in all, sweet-clover honey will always have good demand as a blender. This will be better understood when it is stated that cumarin, a substitute for vanilla, is extracted from the sweet clover plant. It is this vanilla flavor in sweet-clover
honey that makes it so desirable for blending purposes honey that makes it so desirable for blending purposes clear, light-colored honey, lighter even than the honey from white clover, is is is product; the greenish tinge certain parts of the East
in Northern Kentucky, where sweet clover grow more than anything else, there is a famous honeyproducing section. In one certain district there are
more than 4,000 colonies. The honey crop is not always
have plenty of mosture for necta Sweet ceener to cultivate for its plant which it pay plants have been icommended-catnip is suggested for a person who is going to grow a plant for this pur pose - but only sweet clover has established its righ to this distinction. It has been extensively distribute by beekeepers who planted yor bee pasture.
Farmers who keep bees should be first to try it out and urge the nel atready plant numen of beekeepers al done a great from which the bees get the white, clear honey. Bos.

## FARM BULLETIN.

## Luxury Taxes Abolished.

Suddenly, on Saturday last, the Federal Govern ment abolished the Luxury Tax; the ebolition to take effect on Monday morning, December 20. It was no an absolutely clean sweep, however, for liquors, medicine containing alcohol, fru itjuices, perfumery, playing card and infectionery are still subject to the tax. The Sales Tax collected from manufacturers, wholesalers, and importers remains in full force.
The official statement declares that the prices on many commodities have dropped so that The purpose of the Tax, it is claimed, was to dicourage extravagan buyin, and bring down prices. This having been a comphised to a large extent is deeses and if poeible abolish the Tax and thus heip business

## United Farmers Convene in Massey Hall.

THE seventh annual convention of the United Farmers Massey Hall Toronto, during the weik of Denember The organization has passed through anothe successtul year, and has not only a greatly increased
membership but has become a much more powerful meabors in the goverment of the country. The Co
factortive Compony has had an immense turn-over in operative Company has had an immense turn-over if
operanes, thus showing that the farmers can and wil business, thus showing that the farmers can and will
buy and sell through their own organization. The neeting was attended by delegates from every count in the Province. These delegates returning rom the
convention imbued with interest and enthusiasm for the movement should do much towards further increasing the membership and power of the organization. feaders had the confidence of the daiegates presel fealized that the directing of affars must largely res with the directors or executivé; therefore, it becomed
essential that the best men in the organization be elected eesential that the best men in the organization be elected
to 0 the directorate The members should exercise care
The o the directorate. The members should exercise cors.
and judgment in the selection of their county directors. With over 2,000 delegates in the meeting, it is, rather difficult to have a free discussion of ant the pros club which confront the delegates from the different clubs
All present cannot in the limited time express thei views on the various questions. There seems a need
for smaller conventions in different centres to discuss for smaller conventions in different centres to discuss Troblems and select delegates to the central convention on giving members an opportumitys straightened ou by those in a position to give authentic information. The central convention is no place to discuss local affairs or to air petty grievance, and the chairman was perfectly justined when, on different occasions,
ruled out of order when they got oft the question under discussion. The U. F., O. has developed into a big and powerful organization, and from the enthusiasm of the meetiny one would gather that it is destined to becom bigger and still more infuentariautions to the support of the Muskoka Free Hospital for Consumptives and for relief of distress in China. The meeting responde liberally to both causes

## The President's Address

In lis presidential address, R. W. E. Burnaby gave lien, pointing out that seven years ago the organization lacked infuence and the commercial enterpise was
very small factor in the business world. To-day the reports show the phenomenal growth. "The influence and prestige of the organization is by no means
said the Preail are on the U. F.O., and evr Provincial Government which is the diriect ootcome of oir orgai ediua-
Large business institutions, goerning bodies,
tioge ing our business and representation on their board ing our business ond ecrs are frequently invited to
and committees.
Spe speak at gatherings where a short time ago our organiza-
tion would heve been treated as i ioke. Those who were in power in our lectisiative hasals, who held us up to
 every by-lection, and in every case the people have


R. W. E. Burnaby
on sound fundamental principles, as equal opportunities to all, special privileges to none; an honest effort to establish the personal responsibility of the electors; to promote honest debate of public questions; and to secure real responsible governmenting by our principles and keeping the faith by standing by our principies, and question of principle is involved, the President did not think there was much danger of the organization failing. Reference was made to the action of governments in protecting industries, especially as regards the guaranteed cost plus profit which was allowed some industries during the war, and the speaker pointed out that ther had been no such inclinationk beef, hides, wool and of milk, cheese, butter, pork, believed that Canada's fiscal policy for the past forty-two years has been one that has created a privileged class, where the many were taxed for the benefit of the few. This has had a tendency to breed and foster combines and trusts, thus eliminating competition. It has put agriculture, Canada's basic industry, in a position wher industries. "Agripetture," said the President, "is quite prepared to carry its own burdens, but it strenuously objects to carrying the burdens of exploiting parasites and then have to compete on the open markets of the world with its products." The protective tariff system of raising public revenue was characterized as wasteful and expensive. It was claimed that if a government is wrong, citizenship is wrong, and can only be righted by a gradual education should realize what the franchise stands for,
should be guarded. It is the common people's weapon and safeguard, said Mr. Burnaby. Continuing, the President saids. The future is what we as individual
members make it, and depends upon our realization of the responsibility of citizenship. Never in-the history of Canada has there been a more opportune time or a greater need of an organization with aims and
such as the U. F. O. stands for. We must forget party such as the U. F. O. stands for. We must forget party and power asiness of the government of our country on a put the business of the government of our country one our task is to give the people ali the facts and then trust the people. Our duty is to keep to the front in our discussion in our clubs the big question of public policy, debates and lectures, and carry on an educational campaign. The organized farmers have blazed a new trail which not only leads to democracy, but
started from democracy. Its foundation is the people, started from democracy. Its foundation is the people,
and just so far as the people are prepared to forget and just so far as the people are prepared th building this great democratic highway, just so soon will the old party cross-roads be discarded

Sixty Thousand Members
In presenting the seventh annual report, J. J. only gave statistics to show the standing of the Association, but gave a review of the present problems and their probable effect upon the future of the organization. There are now 1,465 clubs, or a gain of 325 over last
year. While there have been no abnormal conditions pear. While there have been no abnormal conditions prevailing which would tend to stimulate organization
there has been a steady growth in membership. The there has believed a new vision has possessed the ural mind as steady, determined progress and loyalty everywhere apparent. It was claimed that rural consciousness and self-assertiveness will overcome any rights to all, special privileges to none. The financial statement showed the Company to be in good standing. At the end of the financial year October 31 , there was a surplus of $\$ 23,623.84$ on hand year amounted to $\$ 42,468.95$, which was a considerable increase over a year ago, due largely to the cost of specia directors' meetings, to sending delegations four times to opposing increased railway freight rates, ocean freigh opposing increased railway freight rates, ocean freignt sugar price fixing, etc. There has also been a sub stantial increase in the office maintenance. The meet ing of expenses of speakers at public meetings throughout the Province also cost considerable. It was not deemed fair for clubs to engage public entertainers at a consider able sum and then allow the central office to pay the expenses of the speakers. The Secretary believed that the central fund should only be used districts, and for the promotion of schemes in the interests of the industry and of the Association as a whole. Lack of funds to successfully carry through different projects which were believed to be of benefit to rural people generally was regretted. The financial statement showed las year's convention expenses, including railway fares, to
cost nearly $\$ 15,000$. This year, owing to the increased number of delegates and a twenty-per-cent. raise in passenger rates, expenses will be over $\$ 23,000$. The Secretary believed that the time had arrived when some Secretary believed for conducting the annual meeting might be
bevised. The attendance has become so large that the
educative elements of debate are lost. Mr. Morriso thought that the meeting might well consider the advisability of holding a number of conventions at be sent to an annual meeting, naturally of less pro portion but with more possibilities for usefulness. The expenses above mentioned cover the cost of promoting believed that as the Farmer's Sun is the official organ of the U. F. O. that the organization should have an interest in the publishing company. Various matter and recommendations which were later to be brough before the convention were referred to by the Secretary in his report.

One Hundred and Twelve U. F. W. O. Clubs.
The work of the U. W. was ably presented by sixty clubs have been organized, bringing the total to one hundred and twelve. The speaker believed essential that the women get to understand public questions. It was believed that right ideals should be established in the individual as to politics and citizen ship, and it was also believed that the responsibility of citizenship should be incorporated in the educationa system. Mrs. Brodie, past-President of the U.F. W. O. with the free, per country Organization, education and legislation were mentioned as the foundation to work on, but the speaker feared that there was danger of legislation superseding education. Mrs. Brodie believed that the farmers' organization should be working to put their business on an equal basis with the industries. It was necessary that the organization work for something bigger than putting a man in Parliament. Politics should not be allowed conditions could be made sufficiently attractive on the farm it would be made sufficiently attract

Mrs. Glenn, another ardent worker in the U.F.W.O. spoke on solving labor problems ia the farm homes
It was believed that women should not neglect their homes and children to work for the State, but that i conditions for doing the work were improved, women ship. Co-pperative laundries and bakeries would save two days' work a week, or a hundred and four days a year, said the speaker. These would not be new ventures, as in sections of the United States they are operated with success and with a great saving of work
to the farm women. The speaker believed that co operation should be applied to women's work as wel as to that of men. As conditions are at present in many homes, there is neither time nor money to enjoy the pleasures of the nation, and in every home there should be time for rest, recuperation and enjoyment

Premier Drury Reyiews Past Year's Worl
On the evening of the 15th, Massey Hall was packed to the doors with men and women to hear addresse
from Premier Drury; J. B. Reynolds, of the O. A. C. and H. W. Wood, of the Alberta Farmers' organization After congratulating the farmers on the success of the so closely identified with the farm movement as an organization as he had been, but he had with him hi credentials as a delegate from his local club. At the end of a year as head of the Provincial Government the Premier stated, "I am not badly satisfied with the year's work as there has been certain definite progress
on definite lines, and we have been able to place on the statute books a program of advanced and needed Opposition in Parliament had entered into the dis cussion of public questions was commended by the Premier, and it was claimed that it was with their co-operation that progress had been made. Compli-
mentary reference was made to the democratic nature of the U. F. O. convention, and this same spirit which had been attended through the summer. Govern ment was claimed to be the business of the people, and
it was gratifying to see greater interest being taken in said the Premier "but we want to feel that the peopl are back of us. We want the support that consists of structive criticism; it is a faithful friend who dares tel his friend what is wrong, and I am very glad for suggesPremier admitted that mistakes had been made, and that probably more would be made, but his intentions entering upon a period of lower prices and deflation, and that private interests must be sunk for the good of
the whole. The Premier declared that the farmers had done their part, as the prices of field crops of Ontario
have shrunk from the maximum prices fifty-one per have shrunk from the maximum prices fifty-one per
cent., while the prices of live stock products have cent., while the prices of live stock products have
shrunk forty-seven per cent. It is necessary now for Government was characterized as the child of the U. F. O., but the Premier contended that the child
must be let live its own life. with the helping hand of theTown AND COUNTRY:
The address by Professor J. B. Reynolds, of Guelph
on "Town and Country," was listened to with a great
deal of interest. It was pointed out that the town and
countr) represcntcountry represent different points of view and different
contributions to the national welfare, and that thes
should be in the proper proportion necessary to a well

The amalganation of separate industries into one bi
factory has eliminated the small village shops. Then, the factories have endeavored to locate close to lines of
railways, which has resulted in the building up of great railways, which has resulted in the building up of great belongs to the surrounding country, as its industries use the raw material and products of the farm, and its families. The city on the other hand is different from all this. The raw products used may be brought from the ends of the earth, and the finished product may be sold as advantageously a hundred miles away as in the city of its origin. The city in its rapid growth has lost local interest, and in its speculative and trading instincts cannot abide the slow process of agriculture, or the narrow restrictions imposed upon native industries, was claimed that the country is fast losing its distinctive appearance, character and individuality. The drain of manhood from the farm to the town shows its effect in the steady decline in food production. Industrial education was believed to be one remedy, especially if to the country towns and villages, and break up in part the extreme type of huge factories with their endless disputes about wages and hours. Along with claimed the speaker and this is a matter of educationsocial propaganda, whereby useful industry will be social propaganda, whereby useful industry will be larger and larger numbers the opportunity offered in trades and on the farms. It was claimed that the farmers' movement must aim at the conquest of the
towns, whose life is fed from the farms. "When the towns, whose life is fed from the farms. "When the
business of the town is done through co-operative societies, owned and managed by men who till the' soil when the financial institutions are designed to promote have become strongholds of ciculs. town is content to be small, and beautiful and comfortable; when the boys and the girls of the farm come naturally to the town to share its social pleasures, and
not merely as visitors to see its sights, then the town will have been redeemed and the country will have come into its own," said the speaker. Professor Reynolds address will appear morne.
issue of "The Farmer's Advocate.


## cretary of U. F. O and U. F. O. Co-operative Company.

The Efficient Group.
Alberta, brought greetings from the Western organization. The speaker contended that there had always been groups, but only one efficient group, and that was
the military for the destruction of life and property. An endeavor is being made to promote an efficient group which will develop the social and true laws of life, as dealt with. The speaker pointed out that we must
consider the laws operating in the past in order to understand and forecast conditions for the future Competition was claimed to be a false law, while co-
operation was the true law. During his address, Mr. Wood traced the development of civilization, showing that competition among the various classes tended of the weak. The two laws were each forcing the other
to a higher standard. The weaker have formed groups have united in the making of still stronger groups. This system has led to the amalgamation of different on, claimed the speaker. Co-operation is just beginning to assert itself in the commercial field. This developfacturing world when competition becomes too strong there is a merger in order that they may protect them-
selves against themselves. This but increases the strength of the umit. The smaller must then unite to facturers raise prices automatically until they come into competition with foreign manufacturers and then
legislation is appealed to for protection. Lacking votes
to carry their object, money was found to be effective A clamor then arose for the breaking down of the merger, but the speaker claimed that it was impossible with counter forces, or, in other words, to build up a democratic force which is greater than theirs. This interests and one viewpoint is necessary. After mobiizing the strength it is necessary that people learn to co-operate with each other and think together. It was believed that redemption would come about by the people developing efficiency, rather than by an individual
leader. Many have said that competition is the life of trade, but the speaker believed that it might be the death of the community. A great co-operative organiza tion has been
U. F. O. Popular Among Frenci Speaking

The French Canadian members were represented on the program by a son of J. H. Caron, an ardent
worker in the United Farmer's Movement, who is a director for Prescott, and spends a good deal of time in organization work. The speaker referred to the work then spreading to the Eastern Counties. It was claimed that these people see the benefit to be derived from organizing and that the principles of the movement "Equal rights to all" appealed to them. Frong the Frenchbeginning five years ago membership among
speaking people has increased to over 5,000, and the speaker believed that by next convention the
ship would be doubled and possibly trebled.

## J. P Brady Secretary of the United Far

Quebec, brought greetings from the Eastern Province. but these were being overcome. While there are only twenty clubs organized at present the speaker believed that by the end of another year practically two-fhirds of the Province will be organized. One big difficulty
to the more rapid spread of the movement was lack of speakers. It was believed that when the women of Quebec became organized, as they are in Ontario sention which has at times arisen between the two races was believed to be caused largely for political purposes. The farmer movement was welcomed in
Ouebec claimed the secretary from that Province. J. B. Levert, of Nipissing, the new French-Canadian director, on the Co-operative Organization, was loudly voiced his delight that he could speak the language o the great Shakespeare- Then he carried the large effectiveness of the organization. Mr. Levert is a fluent and able speaker, and pointed out that the farme great Canadian nation
"The solution of the problems of those who toil lies "The French with their vivacity and their quick im pulsive methods working in co-operation with the English tenacity and perserverance will put Canada
in a position of first place among the nations of the civilized world." Jas. H. Duthie, Secretary, of the National Wate in presenting arguments in favor of deepening the St Lawerence river so that ocean going vessels mimed navigate up through carried by an all-water route at approximately one-third the cost of rail transportation By opening the St. Lawrence river for ocean trafic,
was claimed that it would have the effect of bringing a material reduction in tolls charged by railways,
would also result in production of a large amount of electric energy.
Col. J. L. Fraser, President, of the Farmer's Publishing Co., dealt at length with the effort made to rais funds to start an official organ of the farmerscess of the and of the purchase of The Sun largely to having an organ through which to express the farmers views. At present there were over 35,000 subscribers and it win the coming year.

The National Dairy Council was represented on the program by its secretary, D Arcy Scott, who port is bein made to stimulate the consumption of milk and the products as it has been proven that milk is one of th. A campaign is to be put on in the larger ciet. The trans portation problems have also been dy preventing increase in rates, milk shippers were saved a great deal If the proposed increase rates had gone into effect it
would have cost the milk shippers $\$ 240,000$ annually. Cream shippers have also been saved a vast sum. Thcil. feed problem has also been dealt with by
For instance, the steamships were giving a preference of 25 cents per hundred on wheat which resuted wheat rather than flour being exported fle for Canadian the amount of bran and shorts available council working in conjunction with other interests they have succeeded of educing it to five cents thus increasere millfeeds avail able. Mr. Scott described at some length the various
lines of work taken up by the council in the interests
of the producer, and in establishing suitable markets

## Numerous Resolutions.

On Thursday afternoon the time was taken up by considering resolutions which had been submitits and various members. Filutions took place by the different members. These resolutions congratulating investigating the handling of the forest resources of the Provinces, and of the action taken ro recover money of which the Province had been de'raudod, The meeting urged that those found guilty of defrauding the Pro-
vincial treasury be made to feel the full weight of the hand of the law. It was deemed advisable that every Federal riding be uncorporated for political purposes

The law providing for mothers allowances was endorsed. of Muskoka, who is chairman of a board in the North. In regard to hydro-radials the action of the Government in appointing a Royal commission to investigate
the advisibility of extending the radial scheme, was indorsed by the meeting.
The effort put forth
aste lands in older Ontario was approved and still more aggressive efforts along this line was urged. The Banking System was championed by M. Stables. Credit systems in Quebec, Manitoba and European that out of hundreds of systems in existence not a cent has been lost. The Convention advised the creation of the Co-operative Banking Systeme took the stand McEwing while the meeting should have further information before voting to ask the Government to enter mito so large a
scheme. Thos. McMillan, a member of the commission, investigating the credit, system the past summer comonsideration, and felt that the success of the many systems in operation
Ontario taking it up
Prof. Sharp introduced a resolution that a more
dequate system of registration of births, deaths and adequate system of registration or banized districts of Ontario. Smith moved that the legislation be enacted
W. L. Sme to institute the right of the re-call system. The reof ending graft. As, when a member knows that he may be re-called if elected he strives to meet the wishes of his electors
unaminously. That whereas under the present system of Government the elector has not assumed his shared member has bilten not shown his full share of responsibility to the electorate, therefore, some form of consultation between be established with a view to promoting co-operation between them. The older systems were severely on at this convention become crystalized into the
platform of the party. Or in other words the people not the machine formulates the platform. ment be asked to appoint competent engineers to ment be asked to appoint in Northern Ontario, and that road construction satisfactory roads being constructed in the Province.
Mr . Sangster, Ontario County, spoke in favor of having work done by day labor under proper supervision, rather up the matter of railroads not living up to the law in up the matter of railroads not crossings on farms. It was claimed that removing planks eacing them until late spring made it difficult and dangerous to farmers having to team over such crossings It was moved that the Government he requested to
force the railroads to keep the crossing in condition or teaming. reasury to the N propaganda now being conducted by in carrying on the propaganda now being The meeting endorsed a resolution to the effect that the Government be urged to appoint a commission to ties produced for sale on farms devoted to mixed farming.
On motion of R. W. E. Burnaby the meeting enOn motion of R. W. E. Burnaby the meeting en-
dorsed the third party in parliament as the exponents as leader. Smith and Mrs. Laws spoke forceably in W. L. Smith and Mrsilitary training in our schools
opposition to inagurating mining as a substitute.
and suggested physical training make and suggested physical training as a substituted to make
The Ontario Government was requested
 $2=2=2=4$ - $=$ = = 5 $\pm=2=$

A surtax on idle lands in New. Ontario in order to
bring them into use was recommended. bring them into use was recommended.
The U. F. O. executive was requested to take up with packers the question of stabilizing prices of hogs. clubs, the meeting decided that the travelling expenses and hotel bills of speakers be paid by clubs asking for peakers rather than by the central organization The proposal that steps be taken to secure for the
United Farmers, stock of the Farmers Publishing Company was adopted.

## A good deal of interest and spirited debating

 developed when the amendments to the farmer's plat substantial, all-round reduction in the custom tarif and of reduction in the tariff on British imports, but When the clause dealing with free trade with United were not all of one mind. After considerable discussion the proposed amendments were laid over for a year, on motion of J. J. Morrison, so that the clubs would have ample opportunity of discussing themA large number of notices of motion for changes in the constitution came before the annual meeting. Amp one to change Clause 5 so that young people from thirteen years up might join the young people's section of U. F. O. for a membership fee of 25 cents,
Mrs. Webster, speaking to this motion, claimed that the young people's section of the movement should be as great or greater than the parent organization. There was considerable discussion regarding the motion to rom each branch up to twenty members, to one delegate for fifty members. This would lessen the number of delegates attending the convention and reduce the expenses. Many felt, however, that the delegates received a great inspiration at the meeting and carred thack to their home communities, therefore the larger but later on the question was opened again and the meeting carried it unanimously. It was also decided that there should be a lady director in each federal riding. Section 25 of the constitution was rescinded and the following inserted: Each club president, by virtue of his office may be a member of his federal electoral district, provided, however, hat there shall be at least one represips where there ownship in the riding; and in towsh be appointed for that township by the board of representatives for the remainder of the riding. The executive of the U. F. O. was increased by four, by having ecided that the U. F. O may take and hold shares in other companies carried on with a similar aim, and that representation on these appointed by the board. As it is sometimes difficult to get a quorum at the directors meeting, it was decided that thirty members of the board of directors would constitute a quorum, but to pass anything required a majority. If a director cannot atte
the vice-president is empowered called for nominations for president and vice-president there was a motion that the same officers be reinstated for the ensuing year. When put to a vote this carried unanimously making R. W. E. Burnaby President, an
Vice-President of the U.F. O, for 1921 .
Vice-President of the U.F. O. for Whitmore, York; S. J MacDonnell, Stormont Co.; A. G. Farrow, Halton The women members are Miss Agnes MacPhail, Mrs

United Farmers' Co-Operative Company
live stock department was reported as being in a flourishing condition, the total turnover at the Union Stock rards aggregating nearly $\$ 11,000,000$, and at the of a million dollars worth of business has been done. The seed department, under the management of H. W. Le May, has proven a beneficial branch of the business; report, showed a loss. However, the financial statement showed a substantial reserve and fair profits for the year's business. Dividends at the rate of 7 per cent per annum upon the
mended by the directors.

The Company has over 19,000 shareholders, but not over 1,000 were present at the meeting. The election of directors and res were placed before the conable time. Many names were placed before The nine chosen were: R. W. E. Burnaby, York County; A. A. Powers, Durham County; A. Van Allen, Dundas County; R. J. McMillan, Huron County; Elmer Lick, Ontario County; J. Z. Fraser, Brant County; H. V. Hoover, Hastings County; R. H.

The Co-operative Company have recently secured the services of H. B. Clemes as Manager. Mr. Clemes formerly had charge of the Sales Department of Gunns,
Limited, and starts on his new work with ample qualifications for looking after the interests of a bir concern. Although it is only a few years since the Co-operative Company had its inception, the growth has been very rapid, and so large is the turnover and so diversified the interests that it requires a man with great business ability to handle it to the satisfactioness with it.
J. J. Morrison, the able Secretary, gave a resume of he growth of the organization. He referred to the 1914. convention with two hundred and forty-three delegates present, with the first member being secured in March, 1914. In December, 1920, there were sixty thousand members. The United Farmers' Co-operative Company commenced business in a very small way, and with but $\$ 10,000$ capital. This was soon increased is $\$ 1,000,000$. The Company has never failed to pay seven per cent. dividend on subscribed stock, Mr . Morrison mentioned some of the difficulties which the Co-operative Company had to contend with at the beginning. Business concerns and wholesale houses did their best to throttle this new enterprise of the people and it was found difficult to buy goods in quantity at the right price. Members of at fault. It has not been uncommon for: club to order a carload of goods or feed and then if the price dropped to cancel it, leaving it on the hands of the Co-operative, Then, too, in purchasing produce from the clubs there has been a tendency for them to refuse delivery on a rising market. The speaker urged chose present tolearn to be business men and to de the From a $\$ 2$ in 1920 there was a turnover of $\$ 19,500,000$. The work is divided among ten department with over three hundred employees. There are at present nearly 19,000 shareholders, and the speaker claimed that the dynamo that has caused this phenomenal growth was the enthusiasm of the people. It has been proven tha the farmers are capable of handling big business, and the speaker pointed out that there was as good ma-
terial on the back concessions as there was on Yonge street of Toronto, but they must be imbuded with street of Toronto,

## Forty-Sixth Annual Meeting of the

 Dominion Grange.The fonty-sixth annual meeting of the Dominion Grange was held in Toronto, on December 13 , and in his opening address, J. C. Dixon claimed that the Grange always has stood firmly for the betcerment social conditions on the farm, and has been the fountainhead of inspiration and assistance to all farmers or ganizations in the Doesent-day ifls in nation andty stat that in the cure ior present-day there must be industry, efficency and economy, and with these co-operation, collective bargaining, direct buying and direct selling. He did not believe that al middlemen should be removed, but that there are many useless ones from an economy standpoint. It was believed that farming is practically the only indusiry, business or occupationteering was impossible. Now was and oned to be the time for farmers to stand together and to speak. J. G. Lethbridge, M. P. P., claimed that to-day we are reaping the harvest of what the Grange has sown in the days that have gone, and if we look over the past history we may see many reforms that it has brought about. The beginning oo the organization in Ontario was depicted by D. While there were the oldest members of members present, there was a only a score deal of interesting and educative discussion. The officers elected for the ensuing year are: Master, Howard Bertram; Overseer, James McEwing; SecretaryTreasurer, Miss Hattie Robinson; Assistant Secretary
Mr Harry Priest; Chaplain, John Prichard; Lecturer Mr. Harry Priest; Chaplain, John Prichard; Lecturer, Dawson Mr. John Kay; Gatekeeper, Mr. W. E.Wardell: Steward, Mr. Wh. Oke; Pomona, Miss Mary Murdoch; Feres, Mrs. W. Miss May Thompson; Lady Assistant Steward, Miss, Flossie Munro; Executive Committee-H. C. Dixon, H. Bertram, W. E. Wardell; Fa

Toronto, Montreal, Buffalo, and Other Leading Markets

Receipts and Market Tops.

|  |  |  |  | ${ }^{\text {TLE }}{ }_{\text {Top }}$ | ice Good |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Week | Same | Week |  |  |  |
|  | Ending | Week | Ending | Ending | Week | Ending |
| Toronto (U. S. Y. ${ }^{\text {P }}$ ) | 6,342. | .7,029 | **4,616 | As17.00 | \$13. | \$12.50 |
| Montreal (Pt. St. Chas. | 1,206. | -1, 1.589 | ${ }_{658}$ | - ${ }_{11}^{11.50}$ | 50 |  |
| Winniper | 84. | 8420 |  |  |  |  |
| Calgary |  |  |  |  |  |  |
| Emmonto | 989 | . 1,842 | 1,428 | 8.00 | 11.25 |  |


| Week | Sales | HOGS |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Top Price Selects |  |  |  |
|  | Same | Week | Week | Same | Week |
| Ending | Week | Ending | Ending | Week | Ending |
| Dec. 16 | 1919 | Dec. 9 | Dec. 16 | 1919 | Dec. 9 |
| 5,524. | 6,549. | ..5,214 | \$16.00 | \$17.00 | \$15.25 |
| 1,225 | 1,301. | 1,351. | 16.50 | 16.90 | 16.50 |
| 1,471. | 738 | 868 | . 16.50 | 16.90 | . 16.50 |
| 4,013 | .5,871 | 2,375 | 13.75. | 15.50 | 13.75 |
| 618 | .1,086 | 1,213 | 14.00 | 15.75 | 13.25 |
| 542. | 718. | 574 | 13.75 | 15.25 | 13.25 |



| SHEEP |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Sales | Top Price Good Lambs |  |  |  |
| Week | Same | Week | Week | Same | Week |
| Ending | Week | Ending | Ending | Week | Ending |
| Dec. 16 | 1919 | Dec. 9 | Dce. 16 | 1919 | Dec. 9 |
| 9,519 | 4,805 | *8,558 | \$13.50 | \$19.00 | \$13.50 |
| 1,007. | 887 | 793 | 13.50 | 16.00 | . 13.50 |
| 2,281 | 1,434. | 1,596 | 13.50 | 16.00 | 13.50 |
| 2,115 | 2073. | ..1,808. | 12.50. | 14.50 | 12.00 |
| 3,952. | 80 | .1,584 | 11.00 | 15.00 | 11.00 |
| 378. | 496. | 321 | 10.00 | 12.50 | 10.00 |



markets. There was less indifference on the part of buyers and trading was
fairly brisk throughout the week On Monday four or five loads of good cattle were offered; there was considerable bargaining over the priee of these cattle and they were not sold until all other grades had been weighed up. Fifteen steers averaging 1,210 pounds but lack-
ing in real finish were sold at $\$ 11.50$ to ing in real finish were sold at $\$ 11.50$ to butcher steers of a thicker type and averaging 1,225 pounds brought $\$ 11$. The same figure was paid for a lot of seventeen head made up of three of
four heifers and the balance of the steer four heilers and the balance or
averaging for the lot, 1,155 pounds A straight load of fat cows, averaging One choice heifer cow of beef type was solid at $\$ 10$ per hundred. Light and rather common grades of butcher steers
and heifers, of which there has been a and heifers, of which there has been a
preponderance this fall, were in much better demand. Many sales of this grade the average quality of the plain bigimproved. Some of the better grades of these sold as high as $\$ 7.50$, and the
general run around $\$ 5.50$ to $\$ 6.50$.
Canners were 25 cents up and sold at general run around $\$ 5.50$ to $\$ 6.50$.
Canners were 25 cents up and sold at
$\$ 3.7$ The increased prices on canners and
cutters was due in a large measure to the
better killing quality better killing quality of the stable-
fed stock. Bulls also were stronger and whilst a few of very light yearlings from the East were sold for $\$ 4.50$, the majority of the bulls offered brought over $\$ 5$. The heavier bulls and those of a little better quality brought from $\$ 6$ to $\$ 7.25$,
There was no change in the prices for There was no change in the prices for
grasscalves. Quotations on veal calves were nearly equal to those of the previous week but sales were difficult to make at prices asked, and there was a weaker underper Packers predicted a drop of \$1 of stock showing was the only kind were a little less particular about the age and quality of the calves offered. Out of fifty calves on sale on Wednesday, seven were held for post mortem in-
The best lambs brought $\$ 13.50$. Lot of good average quality were sold a $\$ 13$, which was the quotation for good \$6 for the tops. Average runs of commor quality sold at \$5
There are not enough hogs arriving at few hogs were weighed up on Monday at $\$ 16$. The general price was $\$ 16.50$,
weighed out $\$ 4$ less than selects, lights, $\$ 2$ less than selects, 14 to $\$ 14.50$. Pt. St. Charles.-The total receipts from January 1 to December 9, inclusive, were: 43,570 cattle, 65,669 calves, 71,252 hogs, and 106,602 sheep; compared wors, 64,801 cattle, 70,866 calves, 82,062 nog the
and 102,400 sheep, received during corresponding period of 1919 . EAST END.-The total receipts from January 1 to December 9 inclusive, were 50,034 cattle, 57,141 calves, 63,09 hogs, and 75,204 sheep; compared with hogs and 71,863 sheep, received during hogs and 71,863 sheep, received
the corresponding period of 1919 .
Wool Market Report.

Very little activity has been reported in the Canadian wool trade during the past week. Prices remain steacy. large part States advices indicate that the hands of growers or in growers' pools. London, England, wool sales of De cember 13 th were not verings being sold. only $15 \%$ Reserve price limits were reduced on Reserve Merinos and fine crossbreds by 5 to 10 per cent. Most of the woo sales scheduled for January have
suspended.


## The Old Loveliness.

 BY Chatless hanson towne. Old things are loveliest: Old houses, and the glamour of old days Old gospels, and old dreams With new delige the teems When these are tead, when these are tolAll

## In bleak December, lo!

A whirl wind of white s.
Seems wonderful again.

## Yet dream new dreams, be glad

 For all the soul once had.Old bookss old friends are bestold love is loveliest!

The Fellowship of Books. $T$ the winter is the season during which 1 the farmer and his family have of April to the last of Octaber, or even the farm and the worker's body is to tired to leave much time for books or much energy for intellectual erfort.
but when the evenings are long and darkness reigns without there are few indeed who cannot find, somehow, an the livir to spend, book in hand, beside of corse tamp. who do not care for reading-at least, they think they do oot. Perthaps they have never tried, or they may have tried to begin and have chosen the wrong kind
of $h$ giss for their especial need. Tastes oifter: The person who enjoys to the full one of Conrad's sea stories may not care at all for Ruskin's "Unto This Last, or Wells' "First and Last Things," yet all of these are literature worth read-
ing. Some people like novels best, some ing. Some people like novels best, sseme,
biography, some history, some essays, biography, some history,
some scientific books, and a few even like pootry. Every one of these "tastes" is good, provided the bookp he or she
good of thei tind but happy who has learned to appreciate all,--for then the feast is ever varied, and each class comes with the zest of novelty. a there when they would dike to cultivate a taste for reading, but do not know
where or how to berint They want to bere or how to beging They want to but have not the faintest idea what
good literature is when they see $i$ it. In this case there is the necessity for
learning to read as a child learns to walk, learning to step slowly before he tries to ture) must be read first, sind allowance made by easy and natural stages until the subject knows that he knows good books and can enjoy them. Always ider who
visable for the would-be reader whe begins thus hanio tridance of some or herself linder the guidanee on some
one who loves and knows rater hiterature. In most neighborhoods there is to be
found at least one such person. At all events the effort is worth while.
The man or woman with ideas is the interesting person in a company, the one
whose
counsels are soupht in a community on all but the barest practical
things. One of the finest lokking and the writer of this has known soon palled fad a book; he had not patience enough
 his talk constantly reverted to himself'
what he was doing ad infunitum. His vision was narrowed, the horizon of his

Having said that, in other respects he
was a
ancetty was a "pretty good fielpw", but he fell
short of what e might have been by the
eventiture of a title efort alog broder

Now books help to beget ideas, and so to develop a personality that lasts
and grows upon those who come in contact with it.- One reason for reading.Another is for information; a third for
$\qquad$
faction in knowing that, by means of the little printed page, one may come into
actual touch with the very thought of

## the greatest minds of all time.

## who still rule

The great souls whose words we read not only give us their thought. They pendent think ing for oure ouseves, set use
off to blaze new trais on our own account. "Only those sonils are alive," says an orisinal modern thinker (Bouck White) By reading we help to teen ourselves By reading we help to keep ourselves
from stagnating and so we become more and more "alive," learn more and more to really live.
And when we really live our thought must find issue in action. The book worm who is contented to merely read
and dream without doing shows that and dream, without doing shows that
he has mised the mark entirely

Many people have exclaimed
the startling absence of books from the average farm home. We do not thin! the books are absent because the farmer
and and his wite do not appreciate them, of
are too stingy to buy them, but rather because they don't know, what book to ask for and don't want to risk spending their money for trash.
It is a safe plan to read a book before you buy it, get it from a public librarn or a rriend trot and some and tens on you want to read again and again, and
so want in your library. But the the choice among volumes that are "ilitera. ture" is surely legion. Think of just fevo In fiction: Dickens, Thackeray George Elot, George Borrow, George
Gissing, J. M. Barrie, Conrad, Haw


New Officers of the U. F. W. O
the right of the picture is Mrs. J. A .Wallace, simcoe. President; on the left is Mrs. J. S. Amos,
Vice-President. They were elected at the annual convention in Toronto on December 14th.
thorne, Hergesheimer, Hugh Walpole, Ernest P.icic, Sir Gilbert Parker, Winston Loti, Tolstoi, Turgeniev, Among the essayists and in general literature: Lamb,
De Quincey, Ruskin, Richard Jefferies, ashington Irving, Emerson, Oliver Wendell Holmes, Thoreau, Charles DudShakespeare, Goldsmith, Burns, Tenny, son, Keats, Shelley, Masefield, Goethe, Schiller, Yeats, Rann Kennedy
How these lists might be extended -adding to them all the great biographers historians, and, writers of travel and wonderful scribe of the great War, Sir Philip Gibbs.

At all events, it is very important to have books-good books-about the house, and to see that they are used and a poor policy to let the movies kill the our idols, and among those in the forefront of our lives we may well put all those things that train us to finer, more efined, living. Whenever the artistic appears in the movies it is no harm to go not forget the artistic in our homespictures, music, literature. Some men make money a god, some women make housekeeping theirs. Is either idol worth whife when it excludes better ones? For may not inordnate savis or money personality as the miser in "Silas Marner" may not inordinate devotion to a housc make a woman as uninteresting and unlikable as Ellen Montgomery's aunt in "Wide, Wide World?"
There is an Eastern proverb, "If you have two loaves, sell one and buy a lily to reed your soul." With poetic license great truth. Prof. I. A. Thompson of Aberdeen University, in a Galton lecture, in which he sought to elevate to of pictures, music, the drama, literature and higher education, expressed much of the thought at the back of that Orienta proverb when he said: Let us prune our comforts before we pincticour sours. For apart from ourselve, means hardship and celibacy to those finer spirits who
are the salt of the earth, whose virtue natural inheritance of the race.'
It is easy to start a library in any farm home. A single shelf, two feet will, make a good beginning. Whent that is filled a second may be added, then a third, and finally, perhaps, a
Globe-Wernicke bookcase. which keeps the books so well a may be extended as neeessity arises, may be given the place of honor in the a library going is well worth while. If the love of books and reading be developed, nothing else about the place will give more continuous satisfaction: added treasure
"Style in Books." Poetry. 66 CTYLE" in writing is that elusive quality which, more than any-
thing else makes the difference between literature and mere writing. One writer may write of an occurrence ond his story will be just a straight account, accurate ther may tale the same occurrence and make his story of it-literature. An investigator has classified "istyle" into five classes: (1) The forceful and convincing; (2); the companionable and ambling; (3), the musical-like the breaking of waves on a shore; (4), the dainty, suggesting embroidery; . To, the list might be added a sixth, the pictur-esque- which brings a series of pictures vividly before the mental eyes.
When reading it may be an interesting diversion to notice the class into which that with which one

Of poetry another student (Holbrook Jackson) has said: "To tell a, good poem from a poor one without assistance of the author's name is to be abie to
read pbetry with true critical acumen. read poetry with true critical acumen.
This is very well put.-For the people are legion who confuse mere lines that rhyme more or less regularly with poetry -failing to discern that poetry lies in the spirit, the rhythm, and possibly in every word of the expression,
To those who would begin the stud of poetry, good advice is to begin with comparatively easy poems, that are trit poems, proceeding by easy, gradation to the more dittcult. Beginning with Kingsley's "Three Fishers," or Tenny son's "Break, break, break, one may
go on to appreciate, eventually. Goethe' go on to appreciate, eventualy. Rine the Book.'

Work for Winter Evenings. Ruge. Workbor
 $\mathrm{A}=\mathrm{matan}=$ Braided rugs are very fashionable nowactually fashionable-for bedroom and living-rooms as well as for kitchens, and very artistic they may be if the
colors are carefully chosen. Everything depends upon the color of the rugs harmonizing, or forming just the. right prevailing tone of the room. When nicely strained or painted light or dark brown ro other floor-covering is needed except three or four of these rugs, , Sometimes they are made hit or miss, and these other rooms better effects are gained hy first dyeing the rags to match (or contrast with, if preferred) the general color-
tone. For instance in a bedroom with cream walls, blue was the contrasting
note chosen, hence the rugs were dull blue we, and the curtains were burnt checked gingham with a bar of orange
To make these rume the rave are fut about the same size as carpet rags, and may be doubled, if necessary, for braiding. You can sew them as you go. As the chief difficulty is to keep the rugs from buckling up the braiding must not be must be given when sewing. Sew on the wrong side, using the strongest carpet wrong side, using the strongest carpet rags together first, then crochet round and round in singles, using a heavy bone hook.
If you have a small hand-loom you can make beautiful woven rugs by choos ing soft, artistic colors. The rags may lie flat; if woven singly a heavy lining will be required to keep the rugs from wrinkling or turning up easily. Old carpet of any kind is now made into very durable small rugs by several In she
about a house that cannot be made either at home or elsewhere, into some sort of rugs, and the money so saved may be put to other uses; it costs a
good deal to buy store rugs nowadays.

The table work-box shown in our made of a cheese-box (the lid for the made of a cheese-box (the lid for the the outside and held together with wooden legs stained the same color

## Your Health <br> [Note: Kindly enclose stamped, selfaddressed envelope if an early reply is be given, but if you choose a pen-name that alone will appear. Keep the same pen-name. Save your papers or clip out the "Medicus" department; we cannot promise

## "Growing Pains." Bed-Wetting

Mrs. R. C. Boy 12 years old. Has get up two or three times in the night, times his joints are stiff; he has "growing pains."
.- Growing pains" in a lad of 12 is just as serious as Acute Inflammatory disease. The cause is likely pus somewhere in the body and the tonsil is the most likely spot. I would ask your would not delay it too long, for fear that would not delay it too long, for fear that some permanent harm damage may
done to his heart. nearly as important as his "rheumatism." Enlarged tonsils, adenoids, phimosis (a need for circumcision) may cause it.
Do you know how much urine he is Do you know how much urine he is passing a large amount in the 24 hours. sipidus (drinking diabetes) might be the cause. It is possible that removal of
his tonsils may cure both his "rheumatism" and enuresis.

Hernia or Rupture
for Hernia (or rupture) and that is an operation. Don't waste your money
on trusses or any of the so-called cures. The operation is one that is not serious
and should only lay you up 10 days or two weeks. Your rupture may come
down on you when you are out in the
field alone and become strangulated, field alone and become strangulated,
and that would mean an immediate
is used. Your throat should improve and eventually you should get rid of your
aches and pains. In the meantime gargle your throat with hot water with salt (teaspoonful to a pint) three or four times a day, See article in "Fa
for March 4th, 1920.

## Rheumatism

Rheumatism.
Subscriber. - "Have been laid up
for months for months with swollen knees; also swollen. I don't think medicine will cure me. Please let me know how I can get cured?" $\begin{aligned} & \text { Answer.-I would suggest that you find }\end{aligned}$ the cause of your rheumatism. Now, what is the most likely cause? Teeth.Why? An abscess may form at the root not get out and so is absorbed into your blood, and then it attacks the parts of the body that are not well supplied with nourishment or blood, for example, the joints. You know how white the joint of an animal is. It is white because there is little blood there. How can you
find out if there is an abscess at the root of some of your teeth? An X-ray picture



Work-box Made fro: a Cheese Box.


Han --Woven Rug,


Braided Rug.
tonsil may cause your rheumatism in the same way. Pus in the appe.ndix or gall-
bladder or prostate (at the neck of the bladder) may also be possible causes. So, first have an X-ray of your tit th, and if any abscesses are found go to your
denist and have the teeth out. If your teeth are nor at fanlt have your tonsils removed. I would. uggest that yotr ask your doctor to carefully examine your urine for sugar and albumen
You have no time to delay; otherwise you will not get relief for months, even though you have your teeth out, etc. Drugs, electricity, mineral water, etc. move the cause, and the cause, in the majority of cases, is an abscess some where joints and muscles.

Constipated Baby
Mrs. R. W. N. W., Ont.-"My baby age $21 / 2$ months-a breast-fed baby-is
habitually constipated. I have used abitually constipated. I have used
former seems to te losing its effect, as have to repeat the dose several times be constipated myself. I hove. tried no ots of fruit and vegetables, but without any apparent effect on him, also have taken cascara myself.
He seems to be troubled a good deal wind on his stomach, especially afte each feeding. He is led regularly every 3 hours and once at night. He used to take hot water and would get relief, but cannot get him to take it now.'
Answer.-One of the most
auses of constipation is too little sumo in the breast milk. If that should be the trouble in your case, I would suggest that you give your babe one bottle a day o malted milk, Mellin's Food, or even plain granulated sugar, say 4 ounces o lly increasing to 4 teaspoonfuls of If the bowels are too loose or the napkin green, lessen the sugar or stop it alto

I would try this treatment faithfully but at first, if you feel you must ige medicine, I would suggest either Milk o Magnesia, one-half to two teaspoonfuls anmer Cascara.


## ood Anaphylaxis. Skin Rash.

"Interested Mother."-"My son suffers from a skin erruption on his face
It first appears as a headless pimple which oreaks and a watery substance oozes out,
then a scab forms. As the disease ad vances the corms. As the disease ad nderneath is very red. The pimple when it first appears is itchy, but gets sore as it vances. Would you advise using the Answer.-The important thing. course, is to find out the cause of the rash, and the first thing that I would
investigate is "food anaphylaxis" or, for better term, food poisoning. For example, if certain people eat straw-
berries, they will suffer from "hives." Canned salmon with other people will cause a rash. Dr. Chandler Walker, of Boston, has studied this problem and he foods. If a drop of one of these foor exskin punctured with an ordinary sewing

needle through the drop, a "reaction" will occur, that is, a big hive will soon
appear if the patient is susceptible to thi particular food. By using extracts several foods the doctor is extracts of if any of these foods is the couse to thl skin rash. Excess of sugar in the the especially in children, is a very common

The local trestment of any acute ski
very similar.-(1) Don't was with soap and water. Soap is especially irritating to the skin. Some of the "a snare and delusion." Waters than irritating. You know how it smarts whe you put on a raw surafce. To mate more soothing, add a teaspoonful of ordinary salt to a pint and use lukewarm Don't wash more often than is absolutely
(2) Don't scratch. You may infect it (3) Use Calamine Lotion (your drug gist can put thi (4) If the itching is very troublesome, a tablet of acetysalicylic acid (the Ger mans call it aspirin) 5 grains, three o four times a day, will give relief. Violet ray would likely make the rash mor Ask your doctor to test out on you cause of the rash is from some food he

## Whence the Christmas

## Tree

TN 1900 a writer on folk-lore said "Although we are accustomed to consider Germany the home of the Christor more than not been general there Old people are still living whose parents tion of houses with olivc-leaves and green tion of houses with olive-leaves and green is a far more ancient custom, and can be noticed in Botticelli's picture of 'The Adoration of the Shepherds,' in the National Gallery in London."' It is, as ritz Ortwein observes, a distinct remthe turn of the year during the twelve days of the Jul festival in honour of Woden greenery could be fetched by all very hall was decorated with green leaves and branches. Again, in old works on English customs we forating of the in terior of the dwellings, as well as the pious and the finction whe fir tree as symbolical of the palm. In the halls of the barons and the squires and in the gigantic kitchens of the farmers a fir tree ever held prominent place, but whether ordinarily decorated or not is not specifically recorded. Here we are in doubt. In all probability the remaining fruits of the orchards of as a propitiation to the gods of the

## The Shepherd Play

Going abroad we get full know ledge of these things. The custom of carrying away branches and trees from he woods at Christame so extensive on parts of Austria became so extense the account of the surg of 1755 and at Nuremberg, in 1768, severe bylaws were issued against persons purlioning from the forests. In some regions of Hungary hefore the War a solemn procession with a decorated the place through each vilage betore "It was adorned with ribbons and fruit, and was supposed to symbolize the tree of knowlwdge. Although most of the Christian customs adhered to by the Austran-Germa peasant can be traced back to heathenish
German rites, some dispute the use of a tree at the Jul festivities; neverthe-pines and firs were set up at this time before antiquarian authority on these subject says: "The ancient heathen sat before trees, and ate and drank at the turn of The Christmas tree was introduced into Austria some ninety years ago by
a Duchess of Wurtemberg, and spread

The forty greatest inventions of modern times are credited to six nations-Great Britain, America, France, Germany, Italy to one nation in their entirety, but a few or the steam engine, the Bessemer ocess, aniline dyes, the steam turbine, c locomotive, the hot blast for the blast pen-hearth process, the cyanide process, Enerative furnace ered for the other hal



Both. Thackeray and Dickens seized Christmas gatherings and the Christmas tree and Charles Dickens in 1850 used The of his annual stories. Thackeray in his Round About Papers has aparticulariy pleasing article entitled Southey sang:

And as when all the summer trees are
seen
So bright and green,
The Holly leaves a sober hue display, Less bright than they.
But when the bare and wintry woods we What then so cheerful as the Holly tree
Holly is indeed the true Christmas tree native coral bright and armed leaves,' but the real
is the firs, which is for all time the Christ

Modern Times

## The Windrow

## A Stevenson Club has been former

 in Edinbrrough, and has bought No. 8,Howard Place, where Robert Louis Stevenson-
years ago.

A great deal of interest, and some adverse criticism, are being stirred up it
the United States in connection with the portaits chosen for the new national at the University of New York. Among those so far accepted astus Saint Gaudens, sculptor; Roger and founder vocate of religious libert discover of ether; and Alice Freeman Palmer, educator and President of Wellesley College-the only woman given a asking: What of Walt Whitman? John Paul Jones? Ed
And Pocahontas?

One of the new measures elaborated for the reconstruction of Bulgaria is the
so-called Labor Conscription Law, which has been put into effect in combination with a law for "expropriating the surplu land of individuals who cannot cultivate all Bulgarian citizens of both sexes, who have completed, the men 20 , the women 18 years of age, are subject to 16 months and the women 10 months The conscripted persons will be put upon tasks for which they are fit and part of their time of service wining as stated in the preamble of the law the aim of this obligatory labor is: "(1) To organize and utilize the social forces in order to increase production and general welfare (2) To stimulate in all citizens, irrespecdevotion to public things and love fo devotion to public things and love for
physical labor. (3). To elevate the people morally and economically ment of duty to themselves and society, and by teaching them-rational methods economy."'. In spite of these economic innovations, Bulgaria shares with Turkey
the distinction of being one of the nations of the defeated alliance which retains their monarchical system practically untherr monarchical system practically un-
altered by the War. The present Czar, Boris, is said to be democratically

## Great Inventions of

 odern TimesTHE FARMER'S ADVOCATE
engine, the Diesel motor, the by-product
coke oven, and the X-ray; France is hailed as the home of photography, the Jaquard
loom, artificial refrigeration and parts of loom, artificial refrigeration and parts of
the development of the open-hearth process and of aluminum. Italy, of course, is credited with wireless, and
Norway with half of the work necessary to develop the fixation of nitrogen.
Then comes the American list, starting with the cotton gin, the reaper, telegraphy,

## Muppyd

How Pickles Learned a Lesson.
ERHAPS they called him Pickles
because he was such a sour-tempered - dog. It was indeed a name that suited him-for nowhere could you have found a dog that was so mean.
It was too bad that Pickles was so mean, too, for he was a handsome dog with a jet black, glossy coat that must have been quite warm. He was a big dog, too-and oh, how fierce and strong he looked though, to tell the truth, inside his heart he was a very cowardly dog. Being a coward, Pickles greatly feared the young dog, Prince, who lived at the farm-house close to the woods. Prince was much smaller than Pickles, but what a brave dog he was! He had fought wolves and jackals and coyotes and other fierce animals, Pickles had heard. Be cause all the other dogs admired Prince the bad dog hated him
One day, however, poor Prince was sadly hurt in a fight with wolves in the and had many cruel wounds. Then Prince took a fever that left him very another fight with the wolves would end his pet's life, so he chained Prince to the kennel in the yard. How Prince did fret at his chain, and how his spirits sank-he felt so miserable he became thinner and weaker than before.
Imagine bad Pickles' delight one day as he chanced to pass and saw Prince in such a sorry plight. How brave the
bully felt when he saw the hero dog so humbled and so wretched looking.
Pickles knew the chain held Prince secure, so he went forward very boldly The mean dog could see that the othe dog was weak, but just the same he kep out of reach of Prince.


He Growled Taunts at the Sick Dog
vulcanized rubber, the sewing machinc cent light, half the work of aluminum the induction motor, the airplane, the kinetoscope (foundation of the moving boat electric welding hishspeed stee half the labor in connection with the phonograph, the trolley car, and the Cottrell precipitation process.

## Hope's Quiet Hour.

## Follow on to Know the

 Lord.ow the Lord;
the morning. lis going forth is sure as the morning. The prophet was appealing to the priests, primes their evil ways and follow humbly and penitently the Leader Who would guide them along the right way, His going forth is sure as the morning There is absolutely no risk in choosing Him as a Commanden, the morning" be defeated. "Sure as the morning! long we can always look confidently orward to the daynght, which wirk of our Great War we knew that peace would come; though we could not be certain of the hour. When see the every, day that the sun will rise at a certain hour, I think of the dependableness of the sun's Master. How amazed we should be if the sun were a few minutes late for business one day in a year, or a fellow on to know the Lord: His roing forth is sure as the morning." If we follow Him faithfully we shall make a real success of this perplexing business of living. As we can depend on Hie éun knowing that it will rise at the appointed moment, so we can depend on our unchanging God. He is the same to-day as He was in the days of Abraham, His mercies fail not and they are new every day, and yet the same from generation to generation. We have confidence in the rising of the sun, even though clouds may hide its light from us:-and yet the sun might possibly fail, but God is been warned that a day will come when the sun will be turned into darkness but even then we can find linght and oofety in the love of our Almighty Father.
For several days these words from the Book Exodus have been ringing in my head. "And we know not with what we must serve the hord, until we come to Moses to go into the wilderness with all the people of Israel and "serve the Lord," as they had requested. But, he saic "let your focks and your herds be stayed. The king of Egypt wanted to hold on to his slaves, "Our-cattle aleo shall wo with ws. there Our cattle also shall go with us; there hall not an hoof be left behind; for thereo must we take to serve the we know not with wit it must serve the Lord, until we come thither When our Lord called men to follow Him, long ago, they turned from their doing, placed themselves unreservedly under His orders. It was a soldierly thing to do. When our men enlisted they were prepared to follow whereve they were led, even though it might be "over the top" into a land unknown. They knew them until they came righ reg to it What should we have though up to it. What should we have though would only follow orders if it suited them They might be "volunteers;" but when they had volunteered they had no choice Captain invites volunteers into Hi Capty. but those who enlist are also under orders. He may lead them to some ter rible Calvary; but He never sends disciple where He shrinks back Himself He does not say Go or Me but "Com after Me!" A soldier of His army may ,

The night is black; I fear to go astray!
"Hold My hand fast. I'll lead you al

St. Paul was not a man who did any thing half-heartedly. When he was fighting against Christ he did it with all his might; and wher of the Great Captain he counted his own comfort and safety of no conse
recklessness in his declaration that he

knowing what shall meet him there except that it wilc certainly be bonds and there is in his bold words：＂I hold not my life of any account as dear unto my self，in comparison of accomplishine my course，and the ministry which I received from the Lord Jesus．＂－Acts 20：24（R．V．margin．）

What a glorious soldier he was！ready to endure hardness in the trench，on the field or in hospital． serve the Lord until we come face to face with responsibility－which is al－ ways Opportunity．It will not do for us to tie ourselves too tightly to earth， by collecting treasures which we can＇t bear to drop when the Master calls us to serve Him with both hands．Our business in life is to obey His orders；not to get rich．We dont know what 1921．We stand on the threshold of the New Year，ready to follow as we are led．Our way may be through green pastures and beside waters of comfort or it may be over mountains of difficulty We shall know with what we must serve the Lord when we come thither；if we have surrendered our lives to
are following where He leads us．
Looking back over the past we feel ashamed，as we close the record of an－ other year＇s failures and give it into the
keeping of the All－Holy．We intended to follow our Lord in brave endurance， in loving kindoess，in purehearted loyalty to the best things．We have not lived splendidly；but have been selfish and and pleasure，and seeking the admiration of men more than the praise of God． of men more no cause for boasting and great cause for shame．Well，so had the people to whom the words of our text were addressed．Priests，princes and common people had all failed，and the prophet was calling them to repent and return unto the Lord．He accused them the priests were murderers and adulterers． And yet the Lord was prepared to heal their sin－sick souls and to raise them up from the－death of wickedness．Though Israel had turned away from God，as a married woman going aiter many lovers， yet His love was not killed．＂Hew tender are the pleading words：＂How shall I give thee up，Ephraim？how shall execute the fierceness of mine anger． for I am God，and not man．They shall come trembling as a bird out of Egypt，and as a dove out of the land of Assyria：and I will make them to dwell in their houses，saith the Lord． If our safety depended on our own faithfulness and goodness，we should with trembling fearfulness．But the love of our God is＂sure as the morning．＂ Though we forget Him，He will never forget us．His call to repentance is thrilling with tenderness：＂I will heal their backsliding，I will love them freely： for mine anger is turned away from him． I will be as the dew unto Israel；he shall
blossom as the lily，and cast forth his blossom as the rily，and cast forth his
roots as Lebanon．．They that dwell roots as Lebanon．
under his shadow shall return；they shall vine as the corn，and blossom as the I to do any more with idols．，
When the Divine Sower has planted living seed in a soul He waits in patience for the time of fruit．Let us also learn to wait in hopeful patience，though the iruit of the Spirit may ripen very slowly friends and neighbors．There may be living roots，and tiny shoots of faith nursing carefully in many a heart which we venture to condemn as ent irely worldly
and selfish．The Master was very and sent with His disciples，who were slow in Him was weak．Through His tender－ grew stronger and stronger；until the men who had forsaken Him，and fled in
$\qquad$
Him＂．
Him．
We are sure to follow some leader who will＇lead us forward and upward There is a caterpillar，called＂The Proces sional Caterpillar，＂which has a habit of walking in long lines，each following the one in front．＂One day a naturalist saw some of these caterpillars marching round a stone vase in his garden．He got some more and filled up the gap be－ The story goes that they walked round that vase for a week persistently found ing their leaders，working hard and making no progress．Don＇t let us act in that foolish fashion．What is the use of marching through one year after another unless we are making headway？Let us follow on to know the LORD，＂for this is life eternal，to know the only sent．－S．John 17.3 Christ，whom He has Every day，as we have a chance to make a fresh start And spite
And puzzles forecasted，and possible pain Take heart with the day and begin again． Dora Farncomb．

For the Sick and Needy
Some children in a public school sent $\$ 2$ for＂needy little ones＂and A．M．L． also sent $\$ 2$ for the Quiet Hour Purse． Many readers forwarded literature（S．S． West Ave Tor，



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Measurement－Waist．．．．．．．．．．．．Bust．．．．．．．．．．．．．
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## 曷蹋 <br> 

With plaits extended，the skirt widn oot is $2 \% / 8$ yards． 10 make the suit for medium size will require $51 / 8$ yards of 0 －ins 15 mate 3436．Boy＇s Blouse and Knickerbocker Crousers． 5 sizes $68,10,12$ and 14 en Cut in 5 sizes： $6,8,10,12$ and 14 years． 36 －inch material for the blouse and 0 yards for the knickerbockers．Price，15c．
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3460．A Neat Yoke Dre：
A－year size will require $21 / 4$ yards of 36－inch material Price 15 cents，of

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Cut in 4 sizes： $14,16,18$ and 20 years． 30 －inch material．The width of the skirt at lower edge with plaits extended is bout $2 \%$ yards．Price， 15 cents．
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$\qquad$
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size will require $61 / 4$ yards of 36 -inch ize will require 15 /4
3096. Girl's Dress.

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Size 10 will require $31 / 2$ yerds of material. Price, 15 cents.
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15 cents FOR EACH pattern
3455. Girl's Co
vears. A 10-year size will require $33 /$ yards of 44 -inch material. Price 15 c .
3443. Misses Dress

Cut in 3 sizes: 16,18 and 20 years.
An 18-year size will require 43 An 18-year size will require $43 / 8$ yards of
44 -inch material. The width of the skirt at the lower edge with plaits ex-
tended is about $17 / 8$ yards. Price 15 c

3452-3383. A Smart Coat Suit
Coat 3452 cut in 6 sizes: $36,38,40,42$,
44 and 46 inches bust measure. Skirt
3383 cut in 7 sizes: $24,26,28,30$
34 and 36 inches waist measure. For
the entire suit in a medium size $63 / 8$ yards 44-inch material will be required. about $17 / 8$ yards. TWO. separate patterns, 15c. FOR EACH pattern.
3435. Girl's Dress.

Cut in 4 sizes: $6,8,10$ and 12 years. An 8 -year size will require $45 / 8$ yards of
3277. A Popular House Dress.

Cut in 7 sizes: $36,38,40,42,44,46$ size requires $61 / 4$ yards of 36 -inch material. Price 15 cents.
3458. Girl's Dress.

Size 4 will require $31 / 2,8$ and 10 years. Size 4 will require $31 / 2$ yards of 27 -inch 3134. Ladies' Dress Cut in 6 sizes: $34,36,38,40,42$, and
44 inches bust measure. It will require $1 / 8$ yards of 38 -inch material for a medium size. The width of skirt at lower edge is
about $17 / 8$ yards. Price, 15 cents.

## 3440. Juniors Dress

Cut in 3 sizes: 12,14 and 16 years. A 14 -year size requires $41 / 4$ yards of
4 -inch material. Price, 15 cents. 3448. A Pleasing Apron 36-38; large, 40-42; extra large, 44-46 inches bust measure. To make the
design for a medium size will require design for a medium size will require
$1 / 2$ yards of 36 -inch material. Price 3451. Ladies' Blouse. Cut in
and 46
in 7 sizes: $34,36,38,40,42,44$
inches bust measure. A 38 -nch will require measure. A 38 yards of 38 -inch nateral.
(ut in 6 sizes: $34,36,38,40,42$, and
 Vill require $6 / 1 /$ yards of 44 -inch material.
he width of the skirt at lower elge is

## 3454. (Girl's Dress.

 an 8 -year sizes will 4 , 0,8 , and 10 years $31 /$ yards of3456. Ladies' Work. Dress or Aron.
(utt in 4 sizes: Small, $32-34$ medium,
 $4-46$ inches bust measure. A 38 -inch
ize will require $41 / 4$ yards of 36 -inch 3446. Ladies' Corset Cover.
Cut in 3 sizes: Small, 32 -34; medium,
 ned 1 ink size will require 11,4 yards
i 36 inch material. Price, 15 cents.

A 10-year size requires 4 yards of 30 -inch material. Price, 15 cents.
3133. Ladies' House Dress, and 46 inches bust measure. A medium size will require $53 / 4$ yards of 36 -inch its lower edge is about $17 / 8$ yards. Price 15 cents.

## 3437. Child's Dress.

Cut in 4 sizes: $1,2,4$ and 6 years inch material. Price 25 y yard

The Ingle Nook Rules for correspondence in this and othe paper only. (2) Always send name and address
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## Two Noted Women of

 Modern Times.
## $I_{1}$

ToNDER if you readers of the
Ingle Nook are as much interested as 1 am in anything
To-day I have been reading about two Who ,"ave cone the white light" of publicity lately.
One of them belonss to the United States Miss Alice Robertson, who was recently elected to Congress for Oklas homa. By all accounts this is a lady of no end of strength of character and a goodly fund of originality. For one thing,
she is not afraid to appear contradictory; she is not afraid to appear contradictory,
he occupies the rather unique position she occupies the rather unique position
of being a persistent opponent of woman suffrage now seated in Congress. To be explicit she steadfastly opposed woman uffrace until it came then suddenly announced that she was going to see whether the country meant it or not and presented herself as a candidate for Congress. Her plan of "electioneering" or herself was somewhat out of the ordinary: it consisted in writing little paragraphs containing her political (and risp a way that people began to in first thing to her corner to see what she
had to say. Miss Robertson is a spinster
Although Mis up in years" she likes men and declares she always got along better with them has 'always done a man's work, carriec and so consistent is she in this that she is going to have a man for her secretary
in Washington. Miss Robertson, by the way, was a warm friend of Theodore Roosevelt, who in 1903 made her post-
mistress of Muskogee, the first woman to mistress of Muskogee, the first woman to
have charge of a first-class post-office.
ave charge of a frst-class post-office.
Miss Robertson was born in the Indian erritory near Muskogee in 1854, but College, whence she graduated with ar M. A. degree. Her first position was in
the Indian Office at Washington, but soon she went back to the Indian Territory as its first teacher of domestic science. the Indians, and herself established two schools for them. For a time she was became postmistress, and at the same time established a flourishing cafeteria for girls which still goes on. Among the many kindly acts told of her was the adoption
of an illegitimate Indian baby girl-who is now, by the way, married to one of the richest men in Oklahoma. She has also girls, who have been married in her
$\qquad$
to-day was a Japanese. Her name was Nao Baasan, or Old.Woman Nao, and rag-picker, trying to support her eight deserted by the drunken husband. Morning and night, however, she never failed
to pray in the Shinto temple. At last
place to make her words come frueg the was turned over to her relatives on ondition that they kept her locked up. which they did, keeping her in one room, where she wrote so busily that when she manuscript The little room is now known as is preserved as a sacred shrine.-For upon her writings has been founded a new faith called Omoto-Kyo, or the Religion of the Fundamental Faith, which now has thousands of followers and is said to be gaining rapidly in spite of the
efforts of the Japanese Government to suppress it. There is even a community at Ayabe, with many temples, where the people, all devotees of OmotoKyo, await the millennium, which, according to the prophecies of O Nao, will begin in 1922. Of course, the prophecies according to them the Japanese followers will be the favored people No part of O Nao's writings have been translated into English, but the following synopsis of the "religion" has been made by Edwin E. Slosson, who had written of the cult for The Independent.
like the world is on the eve of blossoming like the plum-flower. One of the great by blooming flowers and evergreen pined and he shall reign over the whole earth and bring it peace. Japan is a divine country and must be divinely ruled. Foreign countries are under the contro of beastly devils in human form. Even Japan has now become a land of beasts. made fit to be the abode of the gods. Occidental civilization is based uponin dividualism, that is to say, selfishness, All its literature and moral codes are inspired by selfishness. It has stolensoclety and stolen the state and wouldstea the world and the universe itself. A1 of individualism. The pye abolition world are clamoring fople but world are clamoring for reform, but ity. Such reform is like a house built on the sand. The reform designed by our gods is the reform of man himself." The Omoto people also believe in faith healing.

Reading the synopsis above one notices common sense, insight and racial pre common sense, insight and racial pre-
judice. The odd thing is that the old rag-picker should have started, in this age, a cult that promises to rival the two reigning religions of Japan, Shintoism and Budis.

N remember the old fisticuff times at the pell as tongues sometimes used fists as common thing for the voter to an home at night "drunk as a lord" as well as somewhat battered in appearance. Voting has become a sane and sober thing nowa days, with sometimes scarcely enough ex of the occasion
For we are governed-both locally and nationally- the wen we choose to ment affects every part of our lives, from ment affects every of the children to the price of the groceries in our pantries. Perhaps the last statement seems far-fetched, but it is nevertheless true that the prices we pay are more or less arranged by The ballot, then, is a very important little slip of paper. One ballot may not seem a very potent thing, but mony a we only vision enough, we might wel agree with Bouck White, who says The ballot-box is going to be discovered as probably the one greatest spirtual
contribution to mankind."-That is a statement that takes a good deal of thinking over. Yet the meaning cannot be so dense when one realizes that good goverous people, and that prosperity, if rightly things. It is hard to be very spiritual
when one is grubbing day and night for when one is gruat to eat and wear: Education and books help to spirituality, and how can they be obtained without any means?
It is too often true, but not at all neces

[^1]
## Founded 1866

a charge of firing the ver to her relatives. She they kept her locked on d, keeping her in one room ote so busily that when she
room is now known a as a sacred shrine.-Fo tings has been founded alled Omoto-Kyo, or the Fundamental Faith, which usands of followers and is Japanese Government the There is even a com yabe, with many temples, ple, all devotees of Omploprophecies of O Nao, will Of course, the prophecies ctly Japanese flavor, and hem the Jap ored people.
Nao's writings have been "religion" has been made Slosson, who had written The Independent. is on the eve of blossoming flower. One of the great
appear in person, welcomed owers and evergreen pines, eign over the whole earth peace. Japan is a divine
must be divinely ruled. ries are under the control become a form. Even rld must be cleansed and e the abode of the gods. ilization is based uponin-
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The reform designed by reform of man himself."
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in the run governy part of our lives, from he children to the price
our pantries. Perhaps seems far-fetched, but true that the prices we , is a very important nt thing, but "mony a enough, we might well going to be discovered mankind."-That is a takes a good deal of thinkthe meaning cannot be so happy and prosperous prosperity, if rightly
e a way to spiritual
to be very spiritual ing day and night for spirituality, and how true, but not at all neces-
the words of the poet

Where wealth accumulates, and men

Women have had a long, long struggle to get the suffrage. Now they have it in nearly every country in the world, and of it, and the necessity of keeping in formed on the issues of the times so that they will make no mistake in voting. paper: ${ }^{\text {Dora.-'How did you vote?' }}$

Flora.-'In my brown suit and squirre It's a good thing there was a Dora as well as a Flora.
Perhaps as yet women on the whole do know as much about government (I (ike that word better than "politics") as men-on the whole, but as time goes on
and they learn more and more to realize and they learn more and more to realize
vhat voting means, that difference will be rectified.

Worth Thinking Over. In the light of the facts and forces onfronting the world to-day, we can find no faustatement of that vigorous thinker who says: "A democratic League of Nations may seem Utopian dream, but the war is a witness that we have no other choice It is
mals.
othing but what is essentially humane education can save the world from the horrors of and that through which it has just passed. For humane education is nothing less than the teaching in the schools and colleges of the nations of the principles of ustice, oood-will and humanity to ward all life, human and sub-human alike. A generation trained in these difficulties as neighbors and not as enemies.

Dear Junia.-For months I have in tended to write you, to say how much howing up the follies of the fashion books and their faithful followers. I am so often in London-I see the same thing in other places for that matter-that know your description of the silk stockinged legs and pump shod feet was "true "fashion" allow women to walk on their feet instead of their toes? Why can't we see that those high heels may walk us into a doctor's office and invalid's chair or even into an early grave, but will never carry us through the great and
grand things of life? afoot" is extremely interesting, and I am very glad to hear that the Western University will send out lecturers. The next time our U. F. W. club meets this matter will be taken up. Ithis sort. much interested in the letters you published this week, of those young course, there are just such women to be found here and there in neighborhoods, but from what I see of farm life they are the exception not the rule. I had occasion to visit about one hundred and
forty farm homes this summer. And in most cases the wives and mothers, yes freely about their affairs generally. And I must say I did not find many of them so joyous over farm conditions as those Americans. About one hundred and
twenty of them were willing to try anytwenty of them were willing to try anysuch as organizing a community laundry or canning centre. I note with interest the press, are both considering the question of community laundries, and
the Exeter people have nearly all the the Exeter people have nearly all the
required number of shares sold, and will call the shareholders' meeting as soon as
Mr. J. J. Morrison, Secretary of the organizing.
How do you account for the great
rural depopulation and great number rural depopulation and great number

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$\qquad$

is built around. The spirit of co-operation between the firm and our employees is as important to us as the good materials and ex t workmanship we employ in the making of our high-grade pianos This united effort has produced a There is a Sherlock-Manning dealer in nearly every communWrite us direct for the name of the one nearest to you.
The Sherlock-Manning Piano Co. London, Canada
advertised in our Canadian papers, farmers are so happy and prosperous If farm work is so pleasant and profitable Why so great a rurdle-aged mien and women alone on one and even two-hundred acre farms?
Huron Co., Ont.

## Fancy Cakes.

DRING the winter, when parties are
rohionable, is the time to try fancy cakes. A good layer cake is capatio ory familiar
transformations. For a basis ant kind will do, perhaps in winter one requiring too many eggs. Here is simplef bitter and? cupe of encar: add cup beaten yolks of 3 eggs and $1 / 2$ cup of milk mixed with as much water. Put this in gradually, alternating with $31 / 2$ cups flour; then ford in the stififly-beaten whites of the eggs, with 2 teaspoons baking-powder and a pinch her 2 or 3
Flavor to taste and bake in either layers. this or any similar cake as a
With
foundation, a number of fancy cakes may be created.
To make an orange cake of it, instead of putting in the milk and water, prat
in a cup the juice of 2 oranges and grated rind of one, and fill up the cup with water. For a filling scald a cup of milk in the double boiler; beat up 2 tablespoons sugar, one and a half tablespoons cornstarch, and 3 egg yoliks; turr into the hot milk and cook until it thickens; add a
pinch of salt, cover, cook 5 minutes, and pinch of salt, cover, cook 5 minutes, and
then put in 2 tablespoons orange juice and the grated rind of one. Spread between the layers while they are warm. When
the cold ice smoothly and trim with tittle
green leaves cut from candied citron, and green leaves cut from candied citron, In-
some tiny orange-colored candies.
Ind stead of the orange pistachio
"Mocha" cake is a name given to any cakce made with a good deal of coffee.
An easy way is the ollowing: Make the cake as usual, and divide it, putting half into one tin. Color the other half brown
with litte strong, black "made", coffee, with a little strong, black "made coffee
putting in an extra tablespoonful of four
While it bakes putting in an extra tablespoonile it bakes cup of sugar; thicken with a heaping
cuablespoon of corn-starch dissolved in half tablespoon of corn-starch dissolved in hal.
a cup of milk and add a pinch of salt. When thick spread between the two layers of cake. Slightly color the icing of English walnuts around the top. A richer filling is made as follows: Beat 2 eggs light, add 2 tablespoonfuls cornstarch and a small, half cup of sugar and cook until thick, then add 1 cup hot milk and a teaspoonfui of strong coffee.
it delightful maple icing is made thus Mix 2 cups light brown mater. Boil to maple syrup all", stage (when tried in cold
the "solt-ball water) then add at once a third of a teaspoonful of cream of tartar. Take off
the fire at once and beat well until it is the fire at once and beat well until it is
cool and smooth, then spread at once on cool and smooth, then spread at ofnuts alt
the cake. Put an edge of wall the cal
round.
A so
A solid nut loaf cake is made as follows: When writing advertisers pleose mention Advocate Cream together a small cup of butter

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winner of six first prizes; one Hackney, rising two years. These are Al slow horses. A choice lot of
Shorthorn heifers in calf and calves at foot.
HERBERT J. MILLER, Peterboro' Co., Keene P. O.


- BRANDON BROSS., Forast, Ont. and a cup and a half of sugar; add the
beaten yolks of 3 eggs and a tablespoonful

lightly beaten egg-white and sprinkle with mixed cinnamon and sugar, or with
chopped almonds. Cut into cakes or
strins

The Scrap Bag.
Eggs will be less likely to crack when
boiling if they are first dipped in cold
water.
Remove matches from the box when they come home and put them in a tin
box or a glass jar. This will obviate all
danger of fire. . * *** *
Milk Spots.
Remove milk spots with cold water
and mild soap. Hot water might set the stain, and is almost sure to if the material
is boiled without first removing the stain ${ }^{\text {is }}$ with cold
Make a boiling solution of one-fourth pound of sal soda to a gallon of water,
dip the pieces of silver in, one at a time, rinse in hot water and polish at once with dry clothes or chamois. *

The Flower Window. Cut from a beech or birch $\log$ a piece, by the window, as a pedestal to hold
large blooming plant in a rustic box filled with wood-ferns. Be sure and leave the bark on, for the beech's gray bark is beautiful. Put three small This plan will make a "thing of beauty."
for the flower-window.

Serial Story.
' The Money Moon." BY JEFFREY FARNOL.
Serial rights secured from Dodd, Mead \&
Company, New York. CHAPTER XI.
Of the "Man With the Tiger Mark." It is a moot question as to whether a
curl can be more alluring when it glows beneath the fiery kisses of the sun, or
shines demurely in the tender radiance of the moon. As Bellew looked at it
now,-that same curl that nodded and
beckoned to him above Anthea's left opinion. Miss Anthea." "Only as far as Mrs. Dibbin's cottage,Just across the meadow."
"Adam also informs me that Mrs. "People call her so." genuine, old witch,-so I'll come with
you, if I may?"
"Oh, this is a very gentle old witch, and she is neither humpbacked, nor does
she ride a broom-stick,-so I'm afraid you'll be disappointed, Mr. Bellew."
"Then, at least, I can carry your baket,-allow me!"' And so, in his quiet,
masterful fashion he took the basket from her arm, and walked on beside her, " "What a glorious night it is!" exclaimed of the fragrant air, "Oh! it is good to be worries, life is very sweet!"
After this, they walked on some distance in silence, she gazing wistfully upon
the beauties of the familiar world about her while he watched the curl above her
ear until she, becoming aware of it all at once, promptly sent it back into re-
tirement, with a quick, deft little pat of her fingers., said Bellew at last, "I do
"I hope," sat nephew safe in bed,-you see -" tells me that he can't possibly sleep un-
less you go to 'tuck him up'- and I quite less you go to 'tuck him up,-and I quite
believe it." ing quite jealous of you, he can't move a ing, and lauding your numberless virtues!" Il, and if he talks of me to you, he talks
you to me, all day long." "And, among other things, he told me
that I ought to see you when your hair 'Oh!"' exclaimed Anthea
Indeed, our nephew is much luckier my own to come and 'tuck me up' at her-like a beautiful cloak. So you see, but I think I can imagine "." Sergeant?" Anthea enquired, changing
the subject abruptly the subject abruptly.
"I like him so much that I am going
to take him at his word, and call upon him at the first opportunity." comes marching along regularly every
day, at exactly the same hour?" getting on!" nodded Bellew. peaches are dreadful coward," said Anthea, smiling, "it has taken him five years to screw up, courage enough o tell her that she's un-
I think it young for her age. And yet, makes him so lovable. And he is so sim.
ple, and so gentle-in spite of all his war ple, and so gentle-in spite of all his war
medals. When I am moody, and cross, the very sight of him is enough to put
me in humour again.." "Has he never-spoken to Miss Pris-"Never,-though, of course, she knows,
and has done from the very first. I asked him once, why he had never told her
what it was brought him so regularly, what it was brought him so regularly,-
to look at the peaches, -and he said, in
his quick, sharp way: ${ }^{\text {Miss }}$ Anthea,can't be done, mam,-a poor, battered,
old soldier, only one arm,-no mam.'" "I wonder if one could find just such Bellew, "I wonder
Now they were approaching a stile to-
wards which. Bellew had directed his eyes, from time to time, as, for that
matter, curiously enough, had Anthea; but to him it seemed that it never would it would be reached much too soon, trying to remember some gate, or any necessity of climbing it. But, before she could recall any such gate or gap, they
were at the stile, and Bellew, leaping over,
had set down the basket, and stretched out had set down the basket, and stretched out
his hand to aid her over. But Anthea, tall, and lithe, active and vigorous with
her outdoor life, and used to such things from her infancy, stood a moment
hesitating. To be sure, the stile was
rather high, yet she could have vaulted it nearly, if not quite, as easily as Bellew she was not alone, moreover, be it remembered, this was in Arcadia of a mid-
summer night. Thus, she hesitated, only
a moment, it is true, for, seeing the a moment, it is true, for, seeing the
quizzical look in his eyes that always
made her vaguely rebellious, -with a made her vaguely rebellious,-with a
quick, light movement, she mounted the
stile, and there paused to shake her head in laughing disdain of his out-stretched rending cambric, she tripped, and, next
moment, he had caught her in his arms.
It was for but a brief instant that she lay, soft and yielding, in his embrace, yet arms that held her so easily, ere they set "I beg your pardon!-how awkward I
am!" she exclaimed, in hot mortification.
"No," said. Bellew, shaking his head, it was a nail, you know, a bent, and "Oh, that is nothing, thank you!" were silent once more, and very naturally,
for Anthea was mightily angry -with herself, the stile, Bellew, and everything sudden, warm clasp of her arms, of the shy droop of her lashes as she lay in his side her, saying nothing, within his secret
soul he poured benedictions upon the head of that bent, and rusty nail. grassy lane and crossed a small but very-
noisy brook that chattered impertinences
among the stones and chuckled at them among the stones and chuckled at them
slily from the shadows, they eventually
came upon a small, and very lonely little cottage bowered in roses and honeyabouts. But now Anthea paused, look-

queer, and ,sometimes says very-surpris-
ing things." "Excellent!" nodded Bellew, holding
the litte gate open for her, "very right and proper conduct in a wit
surprises above all things."
surprises above all things."
But Anthea still hesitated, while Bellew stood with his hand upon the gate, waiting
for her toenter. Now he had left his hat fehind him, and, as the moon shone down
on his bare head, she could not but notice how bright, and yellow was his h
despite the thick, black brows below. "I think I-would rather you waited
outside,-if you don't mind, Mr. Bellew." outside, IY mean that I am to be denied the
.'Yof conversing with a real, live, old wotch, and having my fortune told?" he
sighed. "Well if such is your will so be it,", said he
the basket. "I won't keep you waiting very long,-
and-thank you!" she smiled, and, hurry ing up the narrow path, she tapped at the "Come in! come in!" cried an old,
quavering yooce, albeeit, very sharp, and
piercing "That be my own soft dove of a a maid,-my proud, beautiful, white lady Come in! come in!-and bring him wi'
you, -him as is so big and strong,--him you,-him as is so big and strong, - him
as I've expected so olong, the tall, golde man from over seas. Bid him come in,
Miss Anthea, that Goody Dibbin's old eyes may look at him at last.
Hereupon, at a sign from Anthea, Bellew turned in at the gate, and striding up the path, entered the cottage. the hearth and crouched over this up great elbow-chair, sat a very bent, and
Her face was furrowed agd seamed with numberless lines and wrinkles, but her eyes were still bright, and she wore no spectacles tikewise her whant
hair was wonderfully thick, and abund as oould plainly be seen beneath the frill of her cap, for, like the very small roof
of this very small cottage, she was extremely neat, and tidy. She had a great, curving nose, and a great, curving, chan
and what with this and her bright, black eyes, and stooping figure, she was ver albeit a very superior kind of old witch.
She sat for a while, staring up at Bellew who stood tall, and bare-headed smiling down at her; and then, all at once,
she nodded her head three several, and "stinct times.
"Right!" she quavered, "right! right,
it be all right!- the golden man as I" watched this many an' many a day, the curly hair, and the sleepy eye, and
the Tiger-mark ufon his arm,--right "What do you mean by 'Tiger"I mean, young master wi' your golden
curls,- 1 mean as, sitting here day in, and day out, staring down into my fire myy dreams, though there's them as calls
it the 'second sight,'
But pray sit down, tall sir, on the stool there; and you, my tender maid, my dark lady, come you
here-upon my right, and, if you wish, I'll look into the e ink, or read your pretty there in the fire. But no,-- first, show
what you have brought for Old Nannie In the blessed basket, the fine, strong down here -where I can open it myself hess you for the tea, my dear! And eggs, Lord bless your kind heart, Miss Anthea. Ah, my proud lady, happy the man who
shall win ye! Happy the man who shall wed ye, my dark, beautiful maid. And
strong must he be, aye, and masterful he dark, great, passionate eyes of yours.
And there is no man in all this world can it but he must be a golden manWhe Tiger-mark upon hit
Aye,-blush if ye will, my dark lady,
"At
" Mothe he fire, dreamed it in her dreams, and read it' in the ink. The path lies very
dark afore ye, my lady, -aye very dark
it be, and full $\mathbf{o}^{\prime}$ cares, and troubles, but it be, and full o' cares, and troubles,
there's the sun shining beyond, -bright,
and golden You be proud, and high, and golden, You be proud, and your
and sconful, my lady, tis in yo
1,lood, - youlil need a strong hand to guide ye,- and the strong hand shall come.
By force you shall be wooed, and by force Bv force you shall be wooed, and by force
vou shall be wed,--and there be no man trong enough to woo, and wed ye, but

gently interrupting her, and patting the
old woman'shrivelled hand, you're for
getting the basket, you, haven't found al
we've brought you, yet."
"Aye, aye!" nodded old Nannie, "the
fine, strong basket, let's see what more
be in the cood
said A pound of your favorite tobacco!"
 your kindly thought!!" and, with a sudden gesture, she caught Anthea's hand to her upon Bellew.
"And now, tall sir, can I do ought for
ye? Shall I look into the fire for ye, or the "ink, or read your hand?". ing out his hand to her, "you shall tell me two things, if you will; first, shall one
ever find his way into the "Castle of Heart's Desire,' a nd secondly;--When?"' hand to tell you that, tall sir, nor yet in it all in my dreams. And now, see you, doors, and great locks, and bars. But have seen those doors broke down,as bears the Tiger-Mark. So much for the first. And, for the second,--Happi-
ness shall come a riding to you on the full moon,-but you must reach up-and enough." "And-even you are not tall enough to do that, Mr. Bellew!", laughed Anthea, as she rose to bid Old Nannie "Good-
night," while Bellew, unnoticed, slipped certain coins upon a corner of the chimney piece. So, OId Nannie blessed them, and thoroughly and completely, with a fine comprehensiveness that, only a genuinely accomplished old witch might hope to attain to, and, fonowing thems to the door, paused there with one shrivelled,
claw-like hand uplifted towards the sky: "At the full o' the moon, tall sir!" she for you, my dark-eyed lady, I say, by force you shall be wooed, and by force ye shall be wed, aye! aye!-but there is no Tiger-Mark upon him. Old Nannie it in the fire, and read it all in your pretty hand. And now-thank ye for the tea, my pretty, and God bless ye for the good
weed, and just so sure as you've been goortune be good and kind to you, Miss Anthea." "Poor old Nannie!" said Anthea, as they went on down the grassy lane, "she is so very grateful for so little. And she
is such a gentle old creature really, though is such a gentle old creature really, though
the country folk do call her a witch and are afraid of her because they say she has the 'evil eye,'-which is ridiculous,
of course! But nobody ever goes near her, and "'" with her, and let her talk to you?" en"Yes." do you believe in her dreams, and "No, - of course not!" answered Anthea, rather hurriedly, and with a was still intent upon the moon. . seeing he was silent.
swered slowly, "but she is rather a wonderful old lady, I think." "Yes, she has wonderful thick hair," "Yes, she has wonderful thick hair, and her eyes are as clear and sharp as
ever they were." "Yes, but I wasn t meaning her cyes,
or her hair, or her hearing."
"Oh -then pray what were you pleased to mean?" "Did you happen to notice what she said about a er-Man with a-1iger-
Mark?" enquired Bellew, still gazing up the moon.
Anthea laughed "The Man with the Tiger-Mark,--
ourse! he has been much in her dreams

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fye industries, a loan to Armenia and Home Rule in Ireland became law on Home Rule in Ireland became law on
Dec. 18 th. During the preceding fort
ing of
Dublin Castle.
Dublin Castle.
Four new states have been admitted to the League of Nations-Bulgaria, Fin
land, Luxembourg and Costa land, Luxembourg and Costa Rica
During the past week the Assembly gave During the past week the Assembly gave On Dec. 13 th it adopted a plan for setting Justice, the plan to be signed and ratified by a majority of the nations before it can become effective. Provison is made for
ratification by the United States. The Court is to be without compulsory France, Italy and Japan-getting their way in this against the will of the other debate the League decided that the nations are not yet ready to disarm wright) the famous South African writer
who wrote "Tale of who wrote "Tale of an African Farm,'
"Woman and Labor," etc., died las "Woma
week.
The monarchists have again lost in
Germany. The "Compensation" Bill for the Hohenzollerns was rejecte
Prussian National Convention.
Former King Constantine of

Investigating Farm Prob lems in the Annapolis Valley.
highly-colored apple which follows the
King in season; one that should stand King in season; one that should stand shipping and is a compromise between
cooking and desert in flavor and quality. cooking and desert in flavor and quality. the line of combatting insect and funemployed in developing the plantation are of the utmost interest and import-
ance, but these matters will have to be dealt with in a future article. We have
endeavored to introduce the Farm to our endeavored to introduce the Farm to our
readers in the Maritime Provinces, and readers in the Maritime Provinces, and
bring to the attention of farmers everywhere some of the problems that have
a direct influence on agriculture, both

## Markets

## Toronto Produce

Manitoba Wheat.-No. 1 northern,
$\$ 1.915 / 8 ;$ No. 2 northern, $\$ 1.885 \%$ No. 3 , $\$ 1.915 / 8 ;$ No. 2 northern, $\$ 1.885 / 8 ;$ No. 3 .
northern, $\$ 1.825 / 8 ;$ No. 4 wheat, $\$ 1.695 / 8$.
Manitoba 0 $531 /$ No

## 


points, according to freights, $\$ 1.85$ to
$\$ 1.90$; No. 2 spring, $\$ 1.90$ to $\$ 1.85$. American Corn. Prompt shipment,
No. 2 yellow, track, Toronto, $\$ 1.15$. Ontario Oats. No. 3 white, 50 c . to
53 c ., according to freights outside. Barley.-Malting, 85 c . to 90 c ., accord
ing to freights outside. prompt shipment, straight run bulk, seaPeas. No. 2, $\$ 1.75$ to $\$ 1.80$, outside.
Manitoba Flour. - Track, Toronto First patents, $\$ 11.10$; second patents, Markets nominal.
Buckwheat.-No.2, $\$ 1$ to $\$ 1.05$.
Rye-No.2, nominal; No. 3, $\$ 1.50$ to $\$ 1.55$;
Millfeed.-Car lots, delivered, Toronto
freights, logs includerl. Bran, per ton,
$\$ 38.25$ to $\$ 40.25$; shorts, per ton, $\$ 42.25$;
white middlings, $\$ 47.25$; feed flour, $\$ 2.75$

| Farm Produce.Prices, at country pointNew-laid, cases returnable, 7held, $58 \mathrm{c}, \mathrm{to} 60 \mathrm{c}$.Live Poultry.- |  |
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strained, 60,30 and $10-\mathrm{lb}$ tins Toronto 18 c : to $19 \mathrm{c} . ; 5-\mathrm{lb}$. Lith. pails, 19 c . to 20c.: 21/2-1b. Lith. pa

## Loose.-Prices of loose hay on the St

 loose, No. 1, per ton new, $\$ 35$ to $\$ 37$ loose,No. 2 mixed, $\$ 32$ to $\$ 35$

## Timaled-Dealers were offering for No

 Timothy bal$\$ 32$ per ton.

## Buffalo.

Cattle-Last week. started off with supply that totaled 140 cars, or 3,500 head, twenty-four loads of which cam over from the week before and including around thirty-five cars of fresh Canadians
Nothing real choice in the shipping stee line was offered, best here, which were landing at $\$ 12$ and $\$ 12$ weight order landing at $\$ 12$ and $\$ 12.10$, with a com moner kind ranging on down to $\$ 9$ and a quarter to a half lower than the week Canadians ran to the more desirable kinds. A small drove of fancy yearlings but, was no criterion of the general trade. Few sales on real choice handy steers and heifers ranged up to $\$ 10$ and $\$ 10.60$, but it took a good killing
class of butcher steers to sell from $\$ 8.50$ class of butcher steers to sell from $\$ 9.50$ and nice, tidy butchering heifers sold from $\$ 7.50$ to $\$ 8.50$. Fat cow trade was generally lower, excepting canners values. Best heavy cows ranged up to $\$ 8$, but only a few scattering sales were made above $\$ 7$ and canners landed mostly at $\$ 3$. Market was about steady
on bulls, stocker and feeder trade was dull, slow and lower and an extremely bad trade was held on fresh cows and pringers, latcer kinds going off $\$ 25$ and they were hard to sell at that. Offerings after Monday consisted of mostly medium and common cattle, for which of each day showed several loads going over unsold. Receipts for the week totaled 3,325 head, being against 4,300
head for the week previous and 5,425 head for the same week a year ago.

## Montreal.

Horses.-Heavy draft horses weighing Irom 1,500 to 1,700 lbs, were quoted at rom 1,400 to 1,500 lbs., $\$ 225$ to $\$ 250$ each light horses, $\$ 175$ each; cu!ls, $\$ 75$ to $\$ 100$
each and fine saddle and carriage animals, $\$ 250$ to $\$ 300$ each
Dressed Hogs.- No great demand is
reported for dressed hogs and prices are easy. Abattoir-dressed, fresh-killed
stock was quoted at $161 / 4$ to $161 / 2$ cents per b., and country-dressed stock at 20 to 21 Potatoes.-The market for potatoes is dull, as is usually the case at this time were quoted at $\$ 1.60$ to $\$ 1.70$ per bag of 90 lbs . in carlots, ex-track, while higher. In a wholesale way Quebecs were selling at $\$ 1.90$ to $\$ 2$ per bag of 80 t a slightly higher range. inued for poultry and prices were firm. Choice turkeys were 52 to 54 cents per lb .; good turkeys, 48 to 52 c .: chickens 33 to 40 c .; fowls, 26 to 32 c .; geese, 30 c . to
33 c . and ducks 36 c . to 40 c . Eggs.-Supplies of eggs are light and Strictly new-laid eggs were quoted at 90 c . to $\$ 1$ per dozen; selected C . 66 c . and No. 2 C . S. stock, 52 to 60 c . moderatly active and prices were un changed, although there was a wide margin in quotations. Solids were quoted

Millfeed--Prices of millfeeds continue steady. Bran was quoted at $\$ 40.25$, and track, less 25 c . per ton for spot cash dairy feed $\$ 45$, and mixed grain mouille, $\$ 42$ per ton, including bags, delivered.
Rolled oats were quoted at $\$ 3.80$ per bag of 90 lbs . delivered and at $\$ 3.70$ Baled Hay.-In
Baled Hay,-In view of the shortage
ing up their hay for higher prices. The demand, however, is quiet and this action on the part of farmers has had no hay was quoted at $\$ 31$ to $\$ 32$ timothy hay was quoted at $\$ 31$ to $\$ 32$ per ton, grades are being offered at $\$ 25$ to $\$ 27$

Hides and Skins.-No change was yet reported in the market for hides and skins. Steer hides were quoted at 10 c . per 1.; cowhides
calf skins 8 c . to 10 c .; kips, 8 c .; lambskins calf skins 8 c . to 10 c .; kips, 8 c .; lambskins
were 50 c . each and horsehides $\$ 2$ to $\$ 3$

## Monday's Live Stock

 Markets.Toronto, December 20. Cattle.-Refew choice cattle on hand and a with demand for this quality. Choice butcher cattle sold at from 25 to 50 cents a hundied higher in spots; other grades of killers were in good demand at steady prices,
with the result that receipts were cleaned up at noon. Feeder trade is dull, except sold up to $111 / 2$ cents Heavy beef steers, not quoted Butcher steers, choice, $\$ 10$ to $\$ 11.50$; good $\$ 0$ to $\$ 10$; medium, $\$ 7$ to $\$ 9$; common, $\$ 5.50$ to $\$ 6.50$. Butcher heifers, choice, $\$ 9.50$ $\$ 4$ to $\$ 6$. Butcher cows, choice, $\$ 7$ to $\$ 10$; medium, $\$ 5.50$ to $\$ 6.50$; canners and and cutters, $\$ 3.25$ to $\$ 5$. Butcher bulls, good, $\$ 2$ to $\$ 9 ;$ common, $\$ 4$ to $\$ 0$. Feeding steers, good, $\$ 9.50$ to $\$ 11$; fair, $\$ 8$ air, $\$ 6.25$ to $\$ 9.50$. Calves.-Receipts, 84. Choice veal sold at from 15 to $161 / 2$ cents. The draggy for choice is good, but a little $\$ 14$ to $\$ 16.50$; medium, $\$ 11$ to $\$ 13$; common, $\$ 5$ to $\$ 10$. Milch cows, choice, $\$ 100$ to $\$ 140$; springers, choice, $\$ 110$ to Sheep.-Receipts, 2,122. Lambs are selling about steady, with last week's and heavy yearlings are a slow sale. Quotations: Lambs, $\$ 12.50$ to $\$ 13$. Hogs.-Receipts, 1,281. Hog prices are about steady with Thursday at $15 \% / 4$ to 16 cents, fed and watered. Quotations, $\$ 16$; lights, $\$ 13.75$ to $\$ 14$; heavies $\$ 14.75$ to $\$ 15$; sows, $\$ 11.75$ to $\$ 13$. bipts, 2500 Good steers were a quarte a half lower. Tops, $\$ 11.25$; others Hogs.-Receipts, $\quad 19,000$ Medium and heavy, $\$ 9.75$; yorkers, ten pigs; Seceipts, 20,000. Top lambs 10.75 . best ewes $\$ 1$ to $\$ 450$. Canadians, $\$ 8.50$ to $\$ 9$. Receipts, 2,000. Tops, $\$ 15.50$. Advices from Washington are that 30 per cent. tariff will be placed sheep and Montreal, December 20.-Cattle.Receipts, 1,626. Trading was fairly active. Prices were about steady on good catle and about 25 cents up on common grades nipeg, and were sold for $\$ 10.75$. Nearly nipeg, and were sold were either light in weight or common in quality. The were sold at prices ranging from $\$ 1$ to $\$ 8.50$; common and medium cows and light heifers from $\$ 0$ yood, $\$ 9$ to
Butcher steers, choice to $\$ 11$; medium $\$ 8$ to $\$ 9$; common, $\$ 7$ to \$8.25: Butcher helfers, choice, $\$ 7$, $\$ 6$ $\$ 750$ Butcher cows choice, $\$ 8$ to $\$ 3$ to $\$ 3.25$. Cutters, $\$ 3.50$ to $\$ 4.75$. Butcher bulls, good, $\$ 6$ to $\$ 7.25$; common, $\$ 4.75$ to $\$ 6$. Receipts, 356. Grass calves were steady. There were not enoug The tone was weaker. Quotations: Good, veal, $\$ 12$ to $\$ 13$; medium, $\$ 9$ to $\$ 12$; grass, $\$ 4.50$ to $\$ 5.50$. L ambs were
Sheep-Receipts, 2,339 . L. quoted at $\$ 12.50$ to $\$ 13$ and an odd lot cents off. Quotations: Ewes, $\$ 4$ to

Hogs.-Receipts, 1,179 . Owing to light volume of receipts and keen demand for cars. Quotations off car weights: se

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It is astonishing how quickly Caustic Balsam relieves Stiffness
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THE FARMER'S ADVOCATE

## TRAPPING

Muskrat and Beaver The muskrat, altheutigh previous to 1 year, while the lowest-priced of any o
the fur-bearers was the war-baby, taken, in the aggregate amounted to a great deal more than that of any othe the muskrat into itsown, in price at least and it is to be hoped to contimue. The Iur of the muskrat is really onf of
most beatififul of any Canadian furs, is enjoyng an unequalled demand as
fur, Hudson seal. for ladies' carment In addition to this fur, which is one mad
up, it is used a great deal in its natural The muskrat is an aquatic anima land small streams lakes, marshes, ponds and rule, the lake rats are larger than th ones secured on streams, but the latte
are superior in quality of fur. They never leave water for any length of time although it is nothing strange to see then during the day.
On account of the muskrat being suc a prolific animal millions of dollars o them are taken each season, and there
will be as large or larger numbers for many years to come. The majority the muskrats caught ore their being found in such large numbers in rural
communities and their being so easily taken.
Their houses are of two kinds: Thos of bulrushes and other aquatic plants
made in the form of a large dome. These houses are very warm and comfortable,
and certainly lack nothing that is unique and certainly lack not they have a very in construction, wonderful interior that would greatly surprise the ordinary person were he to
see inside. There are two compartments, an upper and a lower, one being built at water level to serve as they enter and the other, the upper, serves as
a living room which is divided for several a living roomilies. The other type of rat different families. "The other type of
generally called "bank-rats" and congeneral by misinformed people to be distinct species, make their homes in the banks of streams in much the same way as a skunk his burrow. - Muskrats
BAIT AND SCENT. herbivorous, living on vegetables, roots and grasses. As natural apples, carrots, attractive beets, cabbage, etc. However, mangels, beets, have much success with these natural baits for the simple reason that food of the kind the muskrat wants is very plentiful; and in addition small animals such as squirrels, etc., are
to disturb the sets when so baited.

What


Two Cabbage Heads Staked in Shal low Water with Traps Around. On the other hand, a good scent is of
inestimable value in taking rats. This is especially the case during the spring months, which is their breeding season, when they are easily attracted bandpoint Muskrat musk, a secretion secured on attractive to them.
TrAPS. It is not di fcult to trap muskrat; it is, however, ditcult to hold them.
structed and if the rats are not to get
away by gnawing off the font or pulling out, the trap made especially for then
must be used. The traps in question are the No. 1 Giant, 91 Vicker,
vewhouse. These traps all have the
double or extra high, wide jaw and grip

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 ter. All priced to $e$ eil. Witte. call or phone. Thomse Graham. Port Porrn tho Onere Dual-Purpose Shorthorns of ofering Moung suoce roun Hi, end hamad Priced right as I need room. $\qquad$ Has for sale two PURE SCOTCH
BRED SHORTHORN BULLS and
one Dual-purpose Bull out of a one Dual-purpose Bull out of a 60 -
lb.-a-day cow. Right good onea, and lb.-a-day cow. Right good onee, and
priced to sell. $C$ an also spare a few females.

> D. A. GRAHAM


## Grand River Dual-Purpose Shorthorns

 10 YOUNG BULLSGood dark reds and roans bred from big, strong cows, and sired by the great Lavender whose dam HERD NUMBERS 50 HEAD
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Choice cows, heifers and herd-heading sires for per sale. cow.
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## MILKING SHORTHORNS

by imported sires.

## Hillview Dual-Purpose Shorthorns



## Dual-Purpose Shorthorns


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Glenburn Farms Shorthorns


Herd headed by cows in calf and with calf at toot. choice heifers and young buls.
GLENBURN FARMS ${ }^{-}$- ( 45 minutes from Toronto by rail or motor)
Scotch-Scotch-Topped Shorthorn Females Sire in service-Sittyton Sultan Dale $108651=466391=$.
have at present a number of bred heifers and also a very limited number of young bulls which am pricing easy, quality considered. Some of the heifers are Scotch-topped, while the othors are o

## Fairholme Scotch Shorthorns

## 



Visitors welcome
at al times.
PERCY

## SCOTCH SHORTHORNS

 robert miler

STOUFFVILLE, ONTARIO 15 Scotch Shorthorn Bulls

 J. A. \& H. M. PETTIT FREEMAN, ONT

## Braeburn Scotch Shorthorn Females



Tenth International EggLaying Contest
The tenth International Egz-laying Contest is now being conducted at the Exhibition Grounds, Victoria, B. C.,
under the auspices of the Poultry Division under the euspices
British Columbia Department of Agriculture. The present contest is for an eleven-months period and runs from October 2,1920 to September 21,1921 .
The following notes have been forwarded "Twenty-six pens arrived previous to date of commencement, and the remainder afterwards. At every contest so far there has been several birds arrive in a back-
ward state. This year a pen arrived with sappy plumare, and it is doubtuul if they
will be laving before Christmas. Whilst will be laying before Christmas. Whilst
the Deartment loses egys only, owners the Department loses eggs only, owners
of immature birds contesting do not give themselves or birds a square deal The birds must be backward, as it is not
likely that the owners would sign a likely that the owners ware of mature
statement that the birds age, and then send birds much younger
than declared age. "The birds were divided up as soon as
received, and have taken to surroundings very rapidly. The fact that two strange
birds were housed in strange quarters birds were housed inde strange quarters
seems to have made the birds
Let birds will be confined to the house during the winter months, and the yards have
been limed, dug, and sown to rape and chicken lettuce. Two trapnests are being used in each pen until it is found out whether eegss of proper color are laid by
the two breeds aater which the traps will be opened up. beincu a plentiful supply of chickweed and
rape available. Scalded wheat is fed tape mornings weekly in place of wet
three en
mash. A Barred Rock pullet arrived weighing seven pounds, empty crop in all past nine contests, did not send a
 five or six years absence. The majority
of competing birds this year have been bred from trapnested stock, and given
better climatic conditions, a much higher record is presaged. The spare birds
are housed in two houses-one shed roof are housed in two houses-one shed roor
open front, and the other a Wood's house . The birds in the latter hoube
are Class 1 birds, and the heavyweights are in shed root house 5 .ayht that an open front house facing 'south in the vicinity
of Victoria and district is liable to driving rains blowing in, as prevailing winds are
from south- west. To check this the from south-west. 1 Io check ents the
houses accommodating the spare birds
Vord
 athe birds are fed similar rations to con-
the
tirds by 15 feet deep. Of the first eggs marketed, five dozen were graded No. 1, or
standard, and four dozen No. 2, or pullet egss." There are two birds to a pen and twenty pens each of lightweight and heavyweight varietes. except ormer all
are White Leghorns excent one pen of of Anconas. Among the heavyweight varieties thirten pens are of White
Wyandottes, three are single Comb R. I. Reds, and one each of Rose Comb
R. I. Reds, Buff Orpingtons, Barred Rocks, and $\frac{\text { Buft wyandotes. }}{\text { Gossip. }}$
 of May Echo Sylva. There are also
of
three heirers comit will be bred to Woodland Korndyke
Colantha, a brother of a 35.01 . four-sent-old cow. B. Curr is consigning
a cow which he purchased at Catills
$\qquad$
$\qquad$

Winners in Grain at the International
The grain exhibit at the International attracts a good deal of attention draws entries from various parte Canada and the United States, in order to make the competition as fin as possible in oats, the territory is divided into regions, No. 1 being the Wester Provinces and Western States, Region takes in Ontario, Michigan and surround ing States. The. Canadian exhibitor captured the lion's share of the award and took home with them the champion hip in both wheat and oats. That Ontario can produce good corn evidenced by the fact that in the flint variety Ontario was first, second, third xhibiters seventh, in competition with Wisconsin, Colorado, etc. The follow ing are some of the winners. Flint Corn.-1, A. S. Campbell \& Chatham, Ont . 3, Stew. J. Johnston, Blenheim; 4, P. E. Davis, Massachpeetl, 5, Edwin L. Lewis, Massachusetts; Gllbert, Norfolk, Ont.; 8, Jeno Krogh Minnesota; 10, A. W. Jewett, Jr., Mich, Wheat: 1, J. C. Mitchell, Dalinda R E Goman, Oak, Lake, Man, W. Osborne, Montana; 5, Seager Wheeler, Rosthern, Sask.; 6.F.F. C. Sumner, Alta.; 8, W. J. Hartman, Montana; 9 Oak Garron, Brooks; 10, T. H. Smith John W. Lucas, Cayley, Alta.; 2, Duke Kirkham Saltcoats, Sask. 4. E. E. Young Oak Lake: 5 , F. H. Smith, Oak Lake: 6 John Huffine, Montana; 7, H. E. Fields Appelle, Sask; 9, J. B. Eshome, Brooks Alta.; 10, Kallal Bros., Tofield, Alta, Oats, (Region 2): 1, B. R. Cohoe, South Wisconsin, E Browning Ordritt Ont. ${ }^{4}, \mathrm{H} . \mathrm{S}$ Norum, Minnesota; ${ }^{3}$ Otto Wolf, Wisconsin; 6, J. L. Krause , Andrew 'Schmidt, Mildmay, Ont. 9, E. H. Thompson, Wisconsin; 10, F. J.

Tobacco Report of 1920.
. harvested without damage by frosts. The fall has been exceptionally fine for curing, and at the present time the crop crops being practically finished. The tobacco seems to be very thin throughout the tobacco belt, and the crop, including all varieties, is below last year's standard in yield and quality. However, there are many very fine crops of tobacco in the country. The section homs.in Harrow Road and south these points, the Essex County between these portion around Northwood and Kent Centre deserve special mention. There is-much good tobacco in practically every locality The following figures give the acreage


The total production for the 1920 Fine-
cured or Bright tobacco crop for all counties and townships shows $2,259,100$

Decemper 23, 1820
How one Regester Dose the Work with he

Pilot Superior Pipeless Furnace


Thin Pilot Suserior Combination Revisiat composed of two sections; the central portion
provides for a distribution of the warm air gener-
ated by the furnace, and the outer section admits ated by che furnace, anr nace. By withdrawing the
the return air to the fur
con air from the buiding through this outer sec col air from the building through this outer sec-
tion, the resistance to the warm air is overome.
This provides space for the rapidly expanding warm air, which circulates in large volume to all portions of the building. A vacuum cannot be
created, therefore the warm air fills all the corners
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Farm yourself and select him from the choice lot of youngsters now in the pens are sired by our great son of Lulu Keyes, King Korndyke Sadie Keyes. The records of the dams of these calves we would like to show you run from 20-1b. two-yearGORDON S. GOODERHAM, Manor Farm, Clarkson, Ontario

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best young calves we have ever bred. All are from dams wwe wath a nuod combination
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COBOURG, ONT. Silver Stream Holstein Herd Sires
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R. W. E. BURNABY (from North Toronto) Jefferson, Ontario Raymondale Farm Holsteins




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LONG-DISTANCE RECORD HOLSTEIN SIRES
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 Quality HALEY \& LEE, Springford, Ont. Production







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The diameter of the piston in relation to the diameter of the cylinde the Udder Pulsator, even after four years of wear, still pass ng factory ton
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anism of any kind, make possible such unusually long service. The action of the De Laval Milker pleases the cow. Its long service pleases the owner.

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MORRISON'S R.O.户. AYRSHIRES
Ve are at present ofering a number of bred two-yearo-ld
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SPRINGBANK AYRSHIRE HERD SIRES

BURNŚIDE FARM AYRSHIRES


Co-Operation in the United States.
A survey undertaken in 1914 by the
office of Markets and Rural Organization of the United States Department of Agriculture, resulted in a list of 5,424
farmer's co-perative marketing orghizafarmer's co-operative marketing organiza-
tions in the United States. of these there were 1,637 grain elevator and warehouse companies, 1,708 creameries and companies, 213 cotton organizations, 275 co-operative stores, 43 tobacco associations, 96 live stock associations, and 581 miscellaneous. The following discussion of co-operation in representative states
is from Bulletin 547 of the U.S. Department of Agriculture
In order to give a clear representation parts of the United States, brief statements showing the results of the survey in differentates representative of the different sections of the country, the vary-
ing conditions surrounding the organizaing conditions surrounding the organiza tion of the farmers North Central group of the States of $h a v e$ been included because in this section have been ion among farmers is more general than in any other part of also
country. States have been selected al to show the extent of agricultural organization among the fruit growers of the West, the farmers of the South, of the tobacco belt, the truck-growing regions, and the
older farming regions of the North Atlantic

## Minnesota.

Minnesota leads the States in the number of co-operative organizations of farmers. Of the 5,424 organizations in the United States or 18 per cent. of the this survey, are located in Minnestoa. The prominence of Minnesotas place among the farmers is largely due to its importance as a dairy State. Co-operative creameries and cheese factories make up about 63 per cent. of Minnesota's total, while the
elevator companies comprise about 25 per elevator companies comprise about cent. The remaining clude live stock shipping associations, fruit and produce associations, and a few miscellaneous organizations.
Minnesota show the possibilities of suc farmers' organizations. Over 600 of the 850 creameries of the State are owned by the farmers. Table II shows the most of these creameries are co-operative in character. in Minnesota which report the stock-company plan of organization are farmers' elevators; the other classe principles in the method of conducting their business. transacted by the farmers marketing organizations of Minnesota can be made
by using the figures reported by a large proportion of the associations as a basi 000,000 . The 980 organizations reporting have about 90,000 members, which gives an indication of the extent of organization marketing purposes in this State.

As Iowa is represented by 505 farmers'
marketing organizations, it is second to marketing organizations, it is second to ditions in Iowa and Minnesota are ve have followed the same lines in both States. The two leading forms of organcreameries, as these two classes make up Iowa falls behind Minnesota in total number of organizations largely because
of its smaller number of creamery and cheese-factory associations, Jowa report-
ing 204 and Minnesota 624 organizations

Wisconsin ranks third in the numbe organizations reporting. Conditions in Minnesota and Iowa. The latter are important grain-raising States and have a Wisconsin, where grain is not grown on paratively few farmers' elevators. Wisconsin is an important dairy State; therefore, 75 per cent. of the companies re-

porting are creameries or cheese factories.
porting are creamereres or cheese factories.
in Minuesota and lowa nearly all of the
dairy organizations are creameries, white in Wisconsin there are a large number of cheese factories as well. The other forms
of organization found in Wisconsin are of of organization found in Wisconsin are ol
the same nature as those found in Minne sota and Iowa

Kansas is another member of the group States where farmers' organizations are the most numerous. It is an important grain state, consequently over from this State are farmers' 'evorting companies, Kansas may be contrasted with Wisconsin in the matter of farmers associations; the former has a large number of grain elevators and only a few creamery or cheese-factory organizations, while, the situation is reversed in the latter State

Conditions surrounding the organizaion of farmers in California are decidedly different from those in the North Central States. California is one of the leading fruit-growing States, and as the frifit
grower has found it profitable to organize grower has found it profitable to organize or the marketing of his products, t is organizations which reported froint the State belong to the fruit and produce class. The others consist of creameries and cheese factories, stores, olive and nut associations, and various miscellaneous farmers' marketing enterprises.
Co-operation in this state is noted especially for the central organizations made up of local walnut almond and apple growers. The elevators and creameries of the North Central States for the most part have been content with the method of allowing each local coneern to look after the marketing of its own products independent of neighboring as sociations of the same charactere th fruit growers of California have found 1 advantageous to selling bodies, It must not be inferred that this is the only Statt where such central organizations an found for there are a number of examples of such centralization throughout the United States, but the success of thi. form of endeavor has been particularl notable in California.

The North Pacific States.
The four Pacific Northwestern StatesOregon, Washington, Idaho, and Mon tana-may be grouped together activities. sidering farmers marketing actine. with reference to organization and some of the lines of activity extend to all of the States in the group. Of the 329 organiza. tions which reported from these four States, about 35 per cent. are fruit and produce associations, 30 per cent. an grain elevators or warehouses, $15, p$ cent. are creameries or cheese far cent. are per cent. are stores, and 13 persociations. The central selling organizations found in these States among the apple growers are the most notable. For the last five years various movements have been set on foot to make the fruit growers' associations in these States more effective rise and movements have resutted selling of other fall of numerous centrat sual changing of affliations and policies on the part or local associations. In this region are a number of very successful cantreries which have been established to take care of fruit and vegetable products in the cannot be marketed to advantage in the Iresh state. Not an successful, for $/$ a established have been successtur,

Texas. The State of Texas may be considered represented. Over 50 per centis State organizations reporting from about 20 per are cotton associations, produce associations. In the remaining number ars, and some miscellaneous organizations.

Florida, like California, interting ecause is represented largely by organizations for the marketing or perishit able products, such as citrus fruits. Aeport 80 per cent. of the organiza to the fruit ing from this State belong indicates the and produce class, which indicatanization importance of The State. The other associations in

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## SHROPSHIRES

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 $\overline{\text { Oxford Ewes }}$ - Choice bred eves. bred ${ }^{\text {Jor rices }}$ John M. Ross - Embro, Ont. Chester Whites - Young borrs. fif for sergexes. all god type and bred from four Imil ceo. e. norry, r.r. No. 1, Tillury, Ont. INVERUGIE TAMWORTHS


## YORKSHIRES

## Both sex, Bacon type and from large litters Write- R. HONEY \& SON. - Dartford. Ontario

 Springbank Yorkshires - Young boars fit for[^2]the State belong
miscellaneous class.
North Carolina, South Carouna and The States of North Carolina, South
Carolina and Georria have been placed in
 the total number of organizations which reported from these ethree tsates, waout
41 per cent. hande cotton in the capacity 41 per cent. handle cotton in the capacity
of warehousemen, this form of organization being especially common in Georgia about 12 per cent. hande fruit and pro-
duce; about 1.2 per . ent. are storess; over
25 ${ }^{25}$ 25 per cent. fall in the miscellaneous Classs and the remainder consists on a tew
creameries and tobacco associtions, and one live stock association.
From the stantuchaty of organization
ff producers for marketing purposes, the State of Kentucky is interesting because of its tobacco prowers ${ }^{\text {assocotiations. }}$
Almost one-half of the tobacco associations from which reports have been
received are loated received are located in this state. Ken-
tucky reported 66 organizaztions, and of this number 21 are tobacco associations
15 are fruit and produce associations. are elited as insclelaneous 6 are stores,
6 creameries or cheese factories, and 1 an 6 creameries or cheses factories, and 1 a
grain elevator company Virginia, Maryland and Delaware. The States of Virginia, Maryland and ing associations. Of this number, 39 are miscellaneous organizations, 22 are fruit
and nroduce ascociations 12 are creamery and produce associations, 12 are creamery
or chese factory associations, 5 handle tobacco, and 1 handies ive stock. These states are in a truck and fruit-growing
section, and this fact accounts of the
隹 sertain, and
orgaizations which handle fruit and produce, Three are some good ex
amples of central marketing
organizations among the truck growers in this section of the United States
One hundred and twenty-four organizations in the State of New York reported.
About 60 per cent. of this number are creamery and creese-factory associations about 25 per cent. handle fruit and
produce, and the rest is made up of a few organizations. organizations

The new England Statss.
The New England group of States. re-
ported a total of 157 marketing corganizations. Of this number 61 are creameries 49 are miscellaneous, 27 handile fruit and
produce, 19 are stores, and 11 is a grain produce
elevator

Questions and Answers.
Miscellaneous.
Casoline Engine Heats When Running. 1 installed a gasoline engine a few
months agd, but it gets very hot after running a few minutes. It is a six-horse power engine and is used to pump water
and saw wood. What is the cause of the eating? ? Ans,-The trouble may be due to
carbon, a clogged exhaust, not firing carbon, a clogged exhaust, not firing
at the right time or there may be some
TTe mat sor solld be taken up with the frm from whon the engine was purchased. One should especially after it had become properly lubricated. Miscellaneous.
$\qquad$ 2. Where can I secure a book on the 3. What would you suggest as good ration for milk cows, so as to b.
S. H. M. Ans.- 1 . A sample might be sent
0 the Ontario Agricultural College Guelph, or to the Chemistry Department
of the Experimental Farm Otawa. of the Experimental Farm, Ottawa.
of tondid book on beekeping may be secured through this office, a 3. If a person has plenty of silage and good straw The grain ration nould consist of a mixturch ont ten per cent. of oil cake. This could be fed at the



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pairs not akin. Your inspection and inquiry solicited. Arthur Welstead, St. Catharines, Ont.
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boar which are not akin. My prices are right, and they will be sent on appoval. Write to-day.

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young bulls from 6 to 10 months old, and a few females. Write me to-day. Prices rigit. BERKSHIRES MEADOWVALE, ONTARIO

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A Real Election in B. C. Editor "The Farmer's Advocate": paign in the wonderfully grand, but still new Province of. British Columbia, wonder if impressions of a provincial wonder if impressions of a provion viewed from the outside might not be of interest to my farmer friends in my own Province. boast that Ontario has, by any means become fully emancipated from the taint of heredity partyism, the extremely bold call made by both the Governmen candidates and their rally to the party
electors in B. C. to rall standard savors strongly of my earliest I did not quite understand it all then, any more than too many of the electors firmly by their hereditary colors-but I can still plainly see the husky, "Tory"
school boy challenging this "Grit" opponent, or vice-versa, to knock the chip ort This was the signal for beginning the tussle which would prove which party
had really a just claim to virtue. For had really a just claim to virtue. was pretty good cony of its elders. While those days had virtues that might have well been preserved, I like fast fading. In any case, it gave me a feeling so rampant in this Province. For barring the few Labor candidates and
fewer Independents, partyism was the fewer Independents, partyism was the
first and last and only rally cry of both the Liberals and the Conservatives here Great circus-sign boards blazed , with similar conservative notices greeted one at every turn. The leading Government supporter urged that "vote for the man" would breed only discord in the Legisla-
ture, while I do not recall that vote for ture, while I do not recall that vote for the principle was seriously mentioned. Each party seemed to be quite too benents and trying to convince the electors that it possessed all the virtues that there wasn't time to consider the importary To give you an instance, one speaker of a Liberal, I've given four Liberals to the country, and I have a brother a Liberal in an Ontario city." Doubtles the Conservative speakers made equalis vain boasts, but I did not chance to pick up anythit funniest of all the funny things that happened was after the election, when the Liberals met to celebrate their vicotry in the ball-room of the palatial Vancouver Hotel. The present Province as "Honest John" was on th platform in time to await the coming of who had polled an overwhelming majority of Liberal votes-the greatest majority ever polled by any cadidate in thi
Province. And-must I tell it-"Iohn greeted "Mary Ellen" with an embrace I feel sure that Ontario's farmer Premier has better manners than that
And say, if Mrs. Smith were not a widow, And say, if Mrs. Smith were not a widow,
British Columbia might still have a change premiers.
British Columbia

Indians as Plowmen.
While Indians as a rule are not credited
with being expert farmers, there are with being expert farmers, there are a in their plowing, and not only do they
compete in the Provincial Plowing Match but they have formed a branch of the Ontario Plowmen's Association and hold
an annual plowing match. These men are capable of doing exceptionally good the prizes and trophies in keen competi
tion. A plowing match was held on the Six Nations Reserve in November last
and the following tre the names of the Winners: High-cut plow, First, Sweep
stakes and Cup: J. Capton; 2, E. Green plow, open to those who have never won John; 3, R. Jamieson; 4, P. Smith. General; 3, H. Anderson; 4, D. Burnham in the jointer class: 1, G. Garlow; 2
E. Miller; 3, H. Styres; 4, G. Green
Sixteen-year-old boys with jointer plows

Best finish: P, John. Best crown: IV Vansickle. Best-groomed
Miller. The officers of the Miller. The officers of the Six Nations sociation are: President, W, H. Jamieson: First Vice-President, G. S. Johnson; First ice-President, General; Treas
Second Vice-Pres., T. G. Garlow.

The Dog on the Sheep Ranch.
By David H. Talmadge:
Up in the hills of western Oregon there are many sheep and many dogs, for any sheepman will tell you that the raising of sheep without the assistance of dogs would be a dificult thing to do. Also any sheepman will tell you that there are dogs which kill sheep, as there are men joy of killing.
Then, if you ask him, he will give you his opinion of so-called wise folk who would legislate the dog out of the world, and his opinion will be forcibly expressed and easy of comprehension. It may be a bit lurid, for his patience with the nerve-strained people of the cities who would anihilate the dog family because some unfortunate member of it buried a bone in a flowerbed and thereby ruined a plant or two, is pretty well exhausted. if wouldn't mind if when these injured people write their letters to the papers damning the dogs," he says, "they would grievances. But they don't. Likely they grievances. But they don't. Likely they
think the indictment would be insufficient. So they cry out that dogs kill sheepmillions of 'em-worth millions of dollars -every year, and this being expressed in dollars takes hold of the American comprehension. But no sheep-raiser ever writes letters of this kind. . Personally, I have written several of another kind and flatter myself that I squelched one doing it By the way look out for the dogdoing it., By the way, look tou trust him any further than you can see him. except perhaps in money matters. He is usually a dollarworshipper-can't get much out of life beyond that which costs so much per. And then he will tell you a dog story or two, if you ask him (at least this particular sheepman told me one). The sun was just sinking behind the coast mountains. We stood in shadow, the sticepran, sheeptawny, loose-jointed and Mount Jefferson looged behind us white and pure as mercury. The sheepman said, "Buddy," softly, and the dog cuddled to him and kissed "Look at his eyes," said the sheepman. "Human and maybe a bit more, what?" I nodded honestly "He does things with sheep I can't do-
knows things about 'em I don't know. Listen: "We had a flock of five or six hundred in couple of miles from the house. The rains came one night, and I found next day that the river had carried off about twenty feet of fence. I found also that if the dog had depended on us for in-
telligence those sheep would have been gone. "When I got up there next day Buddy the job pretty much all night. We never lock him up. He has was a bit worried when he failed to show up at the many human beings ranging these hills with guns at that time of year, and-well, there
 understand the reason. down the trail to the valley that night, all like. Buddy, perhaps, but they were taking a visible interest in the affairs of the ranch. And I knew that my sheepman

Owing to the schools being closed, the from this week's issue.

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