

## To Innestors

THOSE WHO, FROM TIME TO TIME, HAVE FUNDS REQUIRING INVESTMENT, MAY PURCHASE AT PAR

## DOMINION OF Candad DEBENTURE STOCK

## an sums of $\$ 500$ OR ANY MULTIPLE THEREOF.

Principal repayable 1st October, 1919
Interest payable haif-yearly, 1st April and 1st October by cheque (free of exchange at any chartered Bank in Canada) attherate of five per cent per annum from the date of purchase.

Holders of this stock will have the privilege of surrendering at par and accrued interest, as the equivalent of cash, in payment of any allotment made under any future war loan issue in Canada other than an issue of Proceeds of this stock are for war purposes
Aroceeds of this stock are for war purposes only.
A commission of one-quarter of one per cent will be allowed to recog for this stock which bear their stamp. For application forms apply to the eppartuent of pinance of Minister of Finance, Ottawa. DEPARTMENT OF PINANCEE, OTTAWA,
OCTOBER Fth, 1916.


## GRAMD TRIMK RAILwAY

HOMESEEKERS EXCURSIONS
Bound trip tichets to pointa in Maritobe, Salat.
Treman and Alberta va North Bay, Cochrane and

Through Tourist Sleeping Cars to WINNIPEG on above dates, leaving Toronto 10.45 p.m., no change of cars, via Transcontinental Route. RETURNLIMIT, TWO MONTHS. Hifclusive of date of sale. Final return Ilmit on all tickets, December 31st.



## Empire surpres System




## Every Modern Convenience in the Farm Home

 Running Water for Every Farm Need W HY not provide your farm home with just as good conveniences as any cit provide greater comfort for your family and lighter burdens, but wilcrease the value of your property as well crease the value of your property as well. Just think of a strictly modern bath
room with all fittings-running hot and cold water in the room with all fittings running hot and cold water in the kitcheil and other part
of the house, in the barn and outbuildings. Do away with the old, unhealthy inconvenient outdoor cesspool and water-lugging methods. with the old, unhealthy

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describing the EMPIRE SYSTEM. Write us your requirements, and we will
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 Sells For Sixty-fiveThe greatest engine value ever offered-our new $21 / 4 \mathrm{~h}$.-p. en-gine-ready to go to work on your farm, for only $\$ 65$. No farmer in Canada to-day can afford to be without this engine. It is absolutely guaranteed for FIVE years. Write us for our free trial and demonstrating offer on any size for the first one in each neighborhood.
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TRAPPERS! Send your RAWFIRS to JOHN HALLAM
 まiwewewiviz FRER Hotiv Muluin imitai 117 Hallam Building, Toronta.

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## 1




## $\$ 13.25$ at Catesbys in London

 Buys a \$25.00 Canadian Suit Duty and Carriage Paid Right to Your Door We will prove it to you without a cent of obligation on yourpart. Just sign and return the coupon below, and well. part. Just sign and return the coupon below, and we'll
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## This Fall

will probably see more persons apply for I.ife
Insurance than ever The res The reason is clear. During the past few
months thousands have had it brought forcibly of prosperity, to set aside hame to them that the wise course is, in years portion of their gains in the saf seat all investments-an invest ment that attains its greateat value at the time
of greatest need - LIFE INSUR of greatest need-LIFE INSURANCE. A Life Policy offers the one
sure way of making certain provisions for an uncertain fyture Full particulars of the Company's Policices will
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## FREE LAND

FOR THE SETTLER IN Northern Ontario





## Winter Hauling Made Easy

FOR the use of our customers whose hauling cannot be stopped by the snows of winter, or to whom the snows are welcome, as furnishing a smooth hard road over which to move their products, we offer a line of bob sleighs so complete that each man may find in it
the kind of sleigh he needs and uses. the kind of sleigh he needs and uses.
Unless a sleigh will stand hard in Canada. Therefore, we make these sleighs, above all else strong. Even the erore, we make these sleith itest, abe-horse. sleighe all else,
selected pieces of high are as strong as selected pieces of high--rrade wood and steel and the most careful
workmanship can make them. No inmertect or workmanship can make them. No imperfect or unsound
material fins its way into the manufacture of these goods. it Each sleigh we sell is guaranteed, with fair usage, to carry size. We make a liberal guarantee arrangement to take care of
the satisfaction of the satisfaction of our customers. It is handled by I H C local ngent who will show you how big a line it is. Or, if you can-
not convinty see the a gent, drop a line to the nearest tranch
house and we will send full information.

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## EDI

In the fight for 1 Another winter supply of comforts.
Unfitted stock fin in a judging ring.
Good managemen
as is hard work.
The wailing win Rush the fall work

The stable is a w November nig

Getting soil read connection with nex

- More attention selection and breedi

Honesty is the It is well for them it out.

The farmer feeds because he doesn't loss to himself.

The bigger the arilier seeding will

When votes are of the country, bu struck the country

If you sell all next fall when grain

It is not the Watch the trend of

A dairy cow with her milk on the sca
place her. Fied cows.

Two cows and are at present price
all a farmer needs on this year's crop

Frustrated near marine nightmare
Wilhelm, it won't Allies in this fight

It is a rule of th when the producer
It is too bad thos thing could not und
When those in seeking out the
should not forget There is a bigger in Europe than po himself what he h

## The carmers Advocâte and dua Home Magazine

LONDON, ONTARIO, NOVEMBER 2, 1916

## EDITORIAL.

In the fight for liberty there can be no shirkers.
Another winter in the trenches! Keep up the supply of comforts.

Unitted stock finds as little favor in a sale ring as in a judging ring
Good management is just as responsible for success as is hard work.
The wailing winds warn that winter approaches Rush the fall work.
The stable is a good place for the stock on chilly, November nights.
Getting soil ready for winter is a big factor in connection with next year's crop.

More attention should be paid to fecundity in the selection and breeding of live stock

Honesty is the best policy-even for politicians. It is well for them and for Canada that they are finding it out.

The farmer feeds them all and gets unmerited abuse because he doesn't do it for nothing, or at least at loss to himself.

The bigger the acreage of fall plowing done, the earlier seeding will be finished next spring, and early seeding means bigger yields.

When votes are wanted the farmer is the backbone of the country, but when laws are made and tariffs struck the country has no backbone

If you sell all your cows and pigs this fall when grain is scarce, what will you do for cows and pigs next fall when grain may be plentiful?

It is not the brightest outlook when stocker and feeder cattle are being killed rather than finished. Watch the trend of affairs next summer

A dairy cow without a record is an "also ran." Put her milk on the scales and if she is found wanting replace her. Feed is too expensive to waste on boarder .

Two cows and six hens, if they milk and lay well, are at present prices for eggs and dairy products about all a farmer needs, but then they are all he can feed on this year's crop, so there you are.

Frustrated nearer home, the Kaiser tries his sub marine nightmare off the American Atlantic coast Wilhelm, it won't work anywhere! The spirit of the Allies in this fight for liberty will not sink.

It is a rule of the law of supply and demand that when the producer has little to sell prices are high It is too bad those who blame the farmer for every thing could not understand this simple truth

When those in charge of recruiting this winter are seeking out the men who should join the colors, they should not forget the pool rooms and dance halls. There is a bigger and more important game going on in Europe than pool or dancing. Let every man ask himself what he has done to help win it.

## Who Pays the Duty?

The old question of who pays the duty is more pertinent than ever now that the agitation against the high cost of living is at its height, and people are at the same time asked to save all they can. The worst feature of indirect taxation is that it seems so indirect, while in reality it is direct in so far as the consumer of affected articles is concerned. Who pays the duty? Why, the consumer of the manufactured or other dutiable article every time. The other day an agent called upon us to sell a very useful piece of farm machinery at a price of $\$ 375$. It was made in the United States. We happened to ask what the same article sold for across the border, and his reply was $\$ 275 \mathrm{f}$. o. b. place of manufacture. The Canadian farmer must pay $\$ 100$ more, less the freight, for this one piece of farm machinery than does the Unitè States farmer. To the man living Just outside of Windsor the price of the same dentical article laid down is nearly $\$ 100$ more than to the man across the river, just outside Detroit. When you come to think of it, the consumer of such an article -the farmer who uses it-pays a pretty heavy tax for the privilege. We recently read a paragraph in a leading daily which claimed that the people were clamoring for a removal of the tariff on imported food stuffs and asserting that the farmers wouldn't mind because they understood that manufacturers of prepared foods were reaping the benefit. If the consumer of manufactured foodsturfs pays the duty, is it not just as true that the user of imported farm machinery, implements, tools, manufactured foodstuffs and dozens of other things on the farm pays the duty, which is a real tax? Every time in every country where duties abound the consumer pays and the farmer being a heavy user of dutiable articles, pays a big share. How many hundreds of dollars do you pay yearly in duty to protect some other fellow with thousands where you have hers? You can depend upon in here will not sell Canadian manufactured goods any cheaper in this country than wif the sam could fire it aut outside manufacturer. H you cond ans directly enough to keep you quiet. Since confederation airectly eror both porical partes ha quil lay of the farmer. The user pays.

## A Cell in the Social Organism.

The farmer of a few years ago was a cell in the social orgainsm. The farmer of to-day is pretty much of a sell (spell it with an $s$ ) in so far as rural social conditions tending to improvement are concerned In former times the farmer and his family found time to drive over and visit neighbor Jones, neighbor Smith and several other neighbors, and some who resided almost too far away to be called neighors, wif ye were neighborly. Io-day, the farmer, his wife and family think they can find time for no such nonsense (or good sense), and farmers seem destined to know as little of their next door neignbors a.d living round about as some haughty city people know of the people next door-they don don't want to. Under such condions it a dimicul problem to promote a canpaig for social conditions. Cat and too independent to be sociable. The old-time parties, husking-bees, wood-bees, plowing-bees and so on are no more. Whe ther and ast days, the women cooked the of the had been ding was heme as so was the fun, and wholesome for men and the
community. Young people then took an interest community. Young people then took an interest
in country life-particularly that of their own circle. All this seems to have passed from the land. Work bees are few and voluntary natural social evening are fewer. John says "Good day", to William, and William says "Good day" to John and they pass by William says, "Good day, to John and they pass by are too busy and haven't time to get well enough acare too busy and haven't time to get well enough acquainted with their fellowman to properly appreciate
him. We are getting too self-centred and independent, too busy chasing the dollars, too absorbed in work and worry, too afraid of our fellowmen for the good of our own rural social conditions. The country has tried to ape city ways and has succeeded to such an extent that most of its young people are now in the city, and the older people have grown tired, lonesome, dour and suspicious. Cheer up for this winter and the future. Visit; get together; join the Farmer's Club or the Literary Society. If one doesn't exist, start it going. Loosen up; throw off reserve. Make life a fittle moreworth while. You'll forget you are tired in congenial company. Be a "cell" not a "sell" in the social organism.

## Can Union Save the Tottering Rural Church?

In the small country village, or at the corner of good side road and the concession line or main thoroughfare, is to be found the church which should stand to benefit from church union. Anti-unionists, sectarians, people who seem to glory in schism and are lovers of doctrine and certain formality, or lack of formality, may say what they will against church union, but the fact remains that, standing against one another in place of together, the country churches are decaying and their congregations dwindling, while their ministers, good and true men, struggle along on smaller salaries than should be their lot according to the sacrifices which many of them make in the work. Many are the country villages of only a few hundred population which boast of two, three and even four Protestant churches, and the farming population round about arat meeting ormerly. A visit to the church ond the hours nights, young people's meeting nights, and at the hours of Sunday services would not reveal any great reason for the boast, for empty pews are the real ags villages imes. People are and many rural districts than formerly and the churches
are far from overcrowded.
Farmers clubs, hterary societies and like organ izations are doing and have done a reat work in-country communities, but the runtry leadership. Unless the be the source of real country leadership. Unless the country be the tomer in closer to interest the people ander and with their Maker harmony with one another and with their Maker it is missing its object. We would not like to say it in doing this, burs. Interest flags when numbers dwindle. It was thus and will continue to be so. The fact is was encers in many is the commine the case, to two, three, or four fair-sized church buildings. One would, in many cases, be sufficient to accommodate the people of all denominations. Then, better salaries could be paid to the most efficient and best ministers, stronger church societies and organizations could be maintained without the everlasting money begging now necessary. Better business methods could be incorporated into the work Greater interest, would result. Church ef ficiency would soar above par. More people would eventually go to church and help the church. Church societies would begin to do the work they should do to help the young man and young woman and the older

The Farmer's Advocate and home magazine.

 JOHN WELD, Manager.
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1. THE FARMER'S ADVOCATE AND HOME MAGAZINE


2. Tmaker of any pabilication in Canada.
 2. ADVVarci Sing RATES-Single insertion, 25 cents per line,






 12. WR.O. Nidremese ARMERS to write us on any agricultural Fvawizu


## 18. AD

18. AD


man and older woman in the country districts. The church, divided against itself denominationally, cannot accomplish these results.
What could a united church do in the country? Nothing, unless the people composing it were really united in purpose and ready to forget differences of creed, doctrine, or sect, and ready to banish schism and replace it by union in which there is strength. A so-called union in which the different factions retained their own little pet beliefs, and held them near the surface, ready to crop up on slight provocation, would be a dismal and disastrous failure and new divisions on old lines would soon be separated by a much wider chasm than now exists. To accomplish successful union certain conflicting beliefs must be deeply buried never to be allowed to break through where danger and damage would result. Can it be done? If al are on the right road to the same Heaven, and we believe are on the right road to the same Heaven, and we belient
they are, it should be quite easy of accomplishment We have heard Methodists say, in speaking of certain annual church socials, that they didn't mind if they "were not outstandingly successful as long as they "beat the Baptists. We have known Baptists to nurse the same sentiments. The same may be true of Presbyterians, English Church people and so on.
Under real christian union all this would be forgotten -the old order would pass away and all things would be made new.

What could a harmonious union of christian churches do for the rural communities? It could fill one or two churches well which are growing in emptiness yearly it could build up church organizations which would interest the young people and bring them into close touch with ch cond work. It could organize literary and debating societies, libràry work, various club and terest in the right kind exent as to promote an in terest in the right kind of reading, good speaking, and the social life of the rual community, which it should the And then, throurh these things, the pastor deacons and his church workers would be pastor, his position to preach and teach Christianity. People position to preach and teach Christianity. People
must be interested enough to go to church before sermons do them much good. There is little use of preaching to empty pews. Get the people to church
and then give them something worth while and they will continue to come and will soon bring their neighbors. The rural church, may be criticised for being out of touch with the people and for allowing gossip and petty differences to disrupt it. Choir quarrels are almost proverbial. Line-fence differences and neighbor troubles are taken to church on Sunday and William Jones and Thomas Smith, deacons, do not speak on the way out, which spoils the effectiveness of a good sermon and good music on the young mind in the back pews, or the doubting Thomas who drifts in to find fault. The minister, sometimes, is too afraid of his spotless linen to put away his own horse when making a pastoral call on a farmer in his parish, and the farm boy busy with his work resents the losing of the time necessary to do it for him. The minister, offen, does not make himself sufficiently conversant with the work and difficulties of his people. For instance, the average rural minister knows too little of agriculture and its problems. And then people are too prone to find fault. There is too much destructive
riticism and not enough sympathetic Samaritanism.
The rural church needs an awakening. If union will rouse it, why not union? In real christian union there should and would be strength. In union in name only, while the old fires of resentment and misbe disaster. It rests with the people. Are they ready?

## Put it Away.

When through with an implement, machine, or small tool, put it away. Rust is a glutton for iron more quieldy than most weople realize, and wooden parts left out unpainted and integrate Carelessness is and unproceted, soon disfor things net put where costly-is a time waster, for things not put where they belong are very often in search bome hours of nunting wasted in search before they are found. It is autumn again machinery outside is at hand Howplements and mad these implements and . How long have you had these implements and machinery? Are they wearlace the replace them when they should be still capable of earnThis is aidends on the money invested in them and is a good time to economize on machinery, money by putting the he machinery, save time, save money by putting the binder, the mower, rake, plows, cultiproper place for the , illers, scumers away in their farm tools and put them. Also have a place for the using them.

## Nature's Diary.

This year a great step has been taken in the conOn August 10th a toate for the protection of miert tory birds in the United States and Canada was signed Washington, and Robert Lansing Secretary of S to of the United States. This is, I believe, the first international treaty ever made in the interests of
For a long time those who have been studying
the problem of the protertion of birds.ife in North Ahe problem or the protection of bird-life in North entirely in the hands of the various provinces and
states is far from satisfactory, as one part of the states is lar from satisiactory, as one part of the
country may protect certain birds onl
 the full treaty is of such importance that 1 g give here the full text of the main clauses:
Treaty for the Protection of Migratory Birds in Whereas many species of birds in the course of their annual migrations traverse certain parts of the
United States and the Dominion of Canada, and Whereas many of these species are of great value as a source of food or in destroying insects which are injurious to forests and forage plants on the public
domain, as well as to agricultural crops domain, as well as to agricultural crops, in both the danger of extermination through lack of adequate pro tection during the nesting-season, or while on their way
to and from the breeding-grounds. to and from the breeding-grounds;
the King of Great Britain and Ireland and of the the King of Great Britain and Ireland and of the being desirous of saving from indiscriminate slaughter and of insuring the preservation of such migratory biras as are ether useful to man or are harmless, thave resolved to adopt some uniform system of pro-
tection which shall effectively accomplish such
objects.
Article 1-The High Contracting Powers declare
that the mizratory birds included in the terme of
this Conventoo shall be as follows.

> 1. Migratory Game Birde.
(a) Anatidre or waterfowl, including brant, wild ducks, geese and swans,
(b) Gruidæ or cranes, including little brown
sandhill, and whooping cranes. (c) Rallide or rails, including coots, gallinules (d) Limicole or shore-birds, including avocets curlew, dowitchers, godwits, knots, oyster catchen phalaropes, plovers, sandpipers, snipe, stilts, sur wild (e) Columbide or pigeons, including doves an 2. Migratory Insectivorous Birds: Bobolinks, ca birds, chickadees, cuctoos, fickers, flycatchers, cat
beaks, humming birds', kinglets, martins, meadow beaks, humming birds, kinglets, martins, meadow. larks, nighthawks, or bullbats, nut-hatches, oriotes
robins, shrikes, swallows, swifts, tanagers, titmice thrushes, vireos, warblers, waxd wings, whippoorvills woodpeckers, and wrens, and all other perching
birds which feed entirely or chiefly on insects. 3. Other Migratory Non-game Birds: Auks, Auk lets, bitterns, fulmars, gannets, grebes, guilleatints
gulls, herons, jaegers, loons, murres, petrels, puffins
shearwaters and terns.
Article 2-The High Contracting Powers agre that, as an effective means of preserving migratory
birds there shall be established the following clos seasons, during which no -hunting shall be done excest for scientific or propagating purposes under permits ior scientific or propagating purp,
issued by the proper authorities.

1. The close season on migratory birds shall be
between March 10 and September 1, except that the close season on the Limicole or shore-birds in the Maritime Provinces of Canada and in those State
of the United States bordering on the Atlantic Coss of the United States bordering on the Atlantic Coast
which are situated wholly or in part north of Chesa peake Bay shall be between February 1 and August
15 , and that Indians may take scoters for food but 15, and that Indians may take scoters for food bu restricted to such period not exceeding three and restricted to such period not exceeding three
one-half months, as the High Contracting Poin
may severally deem appropriate and define by one-hali mont
may severally
or regulation.
2. The close season on migratory insectivorous
birds shall continue throughout the year.
shall The close season on migratory non-game Eskimos and Indizns may take at any season auklets, guillemots, murres and puffins, and eggs, for food and their skins for clothing, but
Article 3 provides for a close season for a perin of ten years on pigeons, sandhill and whooping and all shore-birds except black-bellied and
plover, Wilson's snipe, woodcock, and yellow-le Article 4 provides special protection for woo d eider duck.
Article 5 prohibits the taking of nests or egss of any migratory bird except for scientific or propagat
ing purposes under permit from the proper authorities Article 7 is of peculiar interest to the farmer aid horticulturist, and reads:
"Permits to kill any of the above-named birds
which, under extraordinary conditions, may become which, under extraordinary conditions, may become
seriously injurious to the agricultural or other interests in any particular community. may be issued by the proper authorities of the High Contracting Powers
under suitable regulations prescribed by them res under suitable regulations prescribed by them pectively, but such permits shall lapse, or may be
cancelled at any time, when, in the opinion of said authorities, the particular exigency has passed, and
no birds killed under this article shall be shipped, sold, or offered for sale.
Article 9 states that this treaty shall remain in force for fifteen years, and then from year to year until notice

November is a good month in which to pack away implements and machinery no more needed this fall, and which have been neglected up to this time.

The man who has the welfare of Canada and Canada's homes at heart, rather than his own politioal aggrandizement, is the kind of politician Canada needs. Unfortu

The report of the Commission on the High Cost of Living, large and ponderous though it was, did not faze Old High Cost of Living one iota. He climbed up and up while the report hibernated in the dust and darkness of the backmost shelf.

Even governments find as years go by that the High Cost of Living is real. They sometimes spend mory money year after year in order to hold the favor men with the votes. A government that

Foundis 1866 1 in the terms of ng brant，wild ling little brown， coots，gallimules， including avocts，
sn oyster
snipe，stiltochen，surf snipe，stilts
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nd define

NOVEmber 2， 1916

## THE FARMER＇S ADVOCATE

## THE HORSE．

## Legislation and Unsoundness in

 Stallions．We have never been strongly in favor of attempt－ ing to legislate good stock into a country，because such can scace it must have public sentiment behind
can be enforce a community，a township，a county
i．Beore a provice，or a coumuntry will brened nothing but good，

 call for better stock must，come tegislators or govern－
and not，as a general thing，from lem limel ment employees．desire to obtain a better sire and a
dividals have a
lem females of a higher class，they will usually find dividual a a a higher class，they will usually find
few females of them．It is all right to make it easy a way to get them．It is all right to make it easy
for them to obtain what the watt，but the people Ior then es must hold the initiative in the matter if it is
themselv be the success which is should be．If a man
ever to be man or growp of men desire a Percheron or Belgian horse，
never＇be satisfied with a Clydesdale or Shire， they will never＇be folly to attempt to induce them to
and it would be for and it would be folly to attempt the chace are that
take one．If they do take it，the chanes and possibly
they will lose interest and neglect it and and they wino what will nick with their mares as well
they
as does the man placing the horse．If they want a as does the man placing the horse．If they want a
Cylydesale or Shire they want it，and should get it．
ghe Cydesdare is true of the various breeds of other classes
The stock．It．is．altogether impossible to give
of sto of stock．It．is altogether impossible to give
10 per cent，satisfaction with something＂just as
100 no good，＂which can never an inherent desire for sorething else．
who has an Over in Britain there is an agitation on foot to
attempt to legislate unsoundness in horses out of the country．In the various provinces of Canada egisla－
tion theen enacted，making it compulsory to tion has ben enacted，making led and in Ontario
live stations inspected and ennolled and the grade stallion is beting legislated out of business
which we believe is a good move and one demanded by the horsemen of the province Some objections
may be raised to legislation which would prohibit may be raised to the use of unsound stallions，particularly as authorities the use agreed upon what constitutes an unsound－
anes．The whole is visery well set forth in an article
net which recently appeared in The Farmer and Stock
Breder ＂The question at issue which breeders have to decide is not whether they are sympathetic or un－ sympathetic to the traveling of unso to remove them． the means which may be adopted to remove them．
We all agree that the unsound horse on circuit is an We all It isree said that one of the proposals is to prohibit
evil．
the service of all stallions which are unsound．If this sis so then we regard it as an effort to run before
one finds one＇s feet for walking．Opposition to such one finds one＇s feet int warteted as due to lack of sympa－
a step must not be a step must ness drastic proposals may achieve the some
thy，for lowe
end．We are hopeful that no such step will be beriously meditated for would natur arms；that is to say， horse breeding community int argest stake in the pro－ gressive march of horse breeding．It is quite righ
that we should do nothing to encourage the travelling of unsound horses，and an effort should be made to
dispese with the cheaper grade of stallion－whose dispense with the cheaper grade of stallion－whose
services merely make trouble．To achive that end services merely make troubo some lenthe，but when
we are quite willing to go sor
the proposal is extended to include horses of un－ the proposal is extended to include horses of un－
doubted breeding talent which may not be perfectly doubted breeding talent which may not be perfectly
sound，then we think there is something to be said in favor of walking warily
in avor of walking warily．
＂It must not be supposed that we urge in principle
the retention－for breeding－ the retention－for breeding purposes－o ol unsound
horses．Very far from its but it we read history aright we realize that it is the gradual elimination
of unsoundness that is the sensible plan．History of unsoundness that is the sensibe plan．History
certainly tells us that certain horses have made their
mark and it cannot he supposed that all famous mark，and it cannot be supposed that all famous
stallions have been entirely sound animals．Let us stallions have been entirely sound animals．
put it to the breeder．Would he rather have a horse put it to the breeder．Would he rather have he in
that is perfectly sound－knowing him to be an in
different getter－ difiterent getter－or would he prefer a stallion that
dit
may have some form of unsoundness and yet prove a may have some form of unsoundness and yet prove a
superlative breeder？We look at these things in the superlative breeder？
common－sense light，and we must presume that the common－sense $i$ ight， and we must presume the case．
question of impressiveness does enter into the Soundenss is only one of the merits of a stud horse．
The question is further complicated by the impossibility The question is further complicated mares．
of applying a general rule to the mate
${ }^{\text {of }}$ applying a general rule to the mares． were a a opted．Suppose a very valuable young colt
is offered for sale．What sort of－market would he meet，even if bred from sound parents，if，on the off－ chance of his turning unsound，he is refused the
opportunity of proving his breeding talent？We can opportunity of proving his breeding thent sale of young
inagine that it would do away with the
horses at enhanced roices，and practically restrict horses at enhanced prices，and practically restrict
the demand to older and proven stock．Can be breeding would gain in the long run if the operations of the smaller man，as seller，were thus restricted？
There would be little speculative purchase of young There would be little speculative purchase of young
colts．If，on the other hand，a proposal were sub－ colts．If，on the other hand，a proposal were sub
mitted limiting the services of unsound，mature horses to those carrying a minimum of a 610 fee，the pro－
posals may find wider acceptance；but，in our belief， posals may find wider acceptance，but，in our belief
the correct way to tackle this matter is not sum the correct way to tackle this matter is not sum－
marily causing a shortage of stallions by refusing to
allow a horse to serve at a fee if he is unsound，but
to to make it compulsory that all travelling stallions
should have certificates to show whether they are sound or unsound．It should be whater an oftence，
if patronage has been solicited，and the certificates if patronage has been solicited，and the certificates
are not shown to the patron on request．We do not are not shown to the patron on request．We do not
believe in hastening unduly the ideal，and we doubt believe in hastening unduly the ideal，and we douts
indeed if the millenium in horse breeding will ever arrive when different opinions are known to be held upon the identification of unsoundness．Any plan
which is likely to interfere with trade must be de－ which is likely to interfere with trade must be de－
preciated，and we have certainly not reached that point preciated，and we have certainly not reached that point
when we can declare that the impressivenss of the stallion is a small thing to set against the presence

## LIVE STOCK．

## Care For the Young Stock．

 During the first year of the average farm animal＇s life it usually makes more growth than through what surprising to many people This，may be some－ it is true．For instance，a well－grown draft colt will make up to 1,200 pounds in one year and its ul timate weight may not be over 1，700 to 2,000 pounds．Dataon 35 draft colts from mares 1,700 pounds weight on 35 draft colts from mares 1,700 pounds weight
and sired by a 2,000 pound stallion showed that at
six months they weighed an average of 830 pounds， and at 12 months 1,170 pounds．
with the intention of maky were grown parents．In cattle the same principle applies since
in one year a well－grown beef animal may weigh from 1,000 to 1,400 pounds and the ultimate weight at three years of age not over 1，500 to 2,000 pounds．The
pertinent point in these figures is that during the first year of an animal＇s life（horses or cattle）it makes by
far the greatest development．This development is lesser and lesser in its momentum as the animal ages from birth to maturity and，if through inefficient feeding or managing the maximum growth is not
obtained throughout the animal＇s entire life，the mate development．will not be what it should have been．Moreover，since the rapiditity of development is greatest during that period will hairst year inefficient handing effect than the same inefficiency in later life．In brief，improper care will result in its greatest injuries
at an inverse ratio to the age of the animal． ${ }^{\text {at }}$ Every atom of carelessness with the coits and calves during this fall and winter will tally seriously against their maximum development，in fact tha
standard at maturity will be a telltale of mismanage standard at maturity will be a telltale of mismanage
ment．If under－feeding or some other factor is un－ avoidable，let not the younger stock bear the burden but rather the more mature which can withstand hardships with less ill effects．May the growers oi
stock realize that the first year in an animal＇s life is all important．

## Final Fall Touches for Stable and Barnyard

Feed and labor have not been more scare in many years than they are this present inil． such preparations as will conserve the fodder and im－
prove the facilities for handling the live stock this prove the facilities for handling the live stock this
winter．Uncomfortable stables will cause the animals to Terequire more feed to keep them thrifty or－produce． and unnecessary hours spent in doing chores．One cannot afford to feed lice and ticks or any kind of vermin
this season．When the mow is built high with hay，
the bins heaping with grain，and the silo or root cellar
full of succulent feed，we are often indifferent to methods full of succulent feed，we are often indifferent to methods
of conservation；but when conditions are generally


Best Canadian－bred Clydesdale stallion at London，1916，for J，M．\＆H．C．Robson，Denfield．

## a direct negation to those already mentioned，it becomes

 particle do its bit．To bring this about the stock must be healthy， ，ortable，free from annoyance and and grain available．Before actual winter feed．ng begins the stable and barn－yard should be put in The first essentials to the proper housing of animals are sunlight and sanitation．Hand in hand with these go ventilation，and so important are these three factors to anyone can prolitably，spend several days，atthis time，making things right．Sunlight is a powerful germicide and the least expensive of any now available． We must economize in our methods of rearing and Yeeding，yet it is well to be ever mindrul of the fact that false economy is just as bad a policy as that which
condones waste and negligence．Banish false economy cond extravagance in an effort to evolve a standard
and
that will give the best returns at the present，and，
to give results．
Whitewash is a splendid material with which to apply wash catself has some purifying qualitities and it helpe to brighten up the interior of the stable．Further－ more it will tend to fill the cracks and crevices making
it less easy for dust and germs to find a lodging there． it less easy for dust and germs to find a lodging there．
A whitewash，that will stick to the wall inside or out， can be made in the following manner：Take half a bushel of burnt or lump lime and slake with warm water，keeping it covered during the process to retain
the steam．Strain the liouid through a sieve or strainer， then add a peck of salt previously dissolved in warm． water；three pounds of ground rice，boiled to a thin paste and stirred in while boiling hot；one pound of
glue dissolved in boiling water and one opund of Spanish glue dissolved in boiling water and one pound on Spanish
whiting．To the mixture is added five gallons of whiting．To the mixture is added five gallons of
hot water；it should then stand for some time．The wash is best applied hot and eit
pump can be used to put it on．

To facilitate matters and accomplish the work
m
more quickly at a slight sacrifice of effectiveness,
slake $71 / 2$ pounds of lime using hot water, if neces-
sary, to start action. Max to a creamy consistency
and make up to five gallons by adding water. The
a
proportions in this recipe and the previous one have
been given, and any quantity can be made at one
st
time simply by using multiples of these amounts.
It now becomes necessary to select a disinfectant.
Some that are practicable and within the reach of
stockmen as to price are: chloride of lime, formalde-
hyde, crude carbolic acid, cresol, compound solution
of cresol, and Zenoleum. The latter is a patented
product and full directions accompany the preparation. product and full directions accompany the preparation. in a two or three per cent. solution is an efficient disinfectant for stable work, but it is somewhat difficult
to dissolve. However, if warm water is used añd to dissolve. However, if warm water is used and
the substance well mixed this disadvantage
can be overcome. It retails in the neighborthood of twenty-five cents per pint, but a better rate can usually be obtained by the gallon if that amount is required. The strength of this material varies according to its content of cresylic acid which ranges from
90 to 98 per cent. Cresol containing less than 90 pêr cent. cresylic acid should be rejected. Compound
solution of cresol is composed of equal parts of cresol and linseed-oil-potash soap. It has the advantage
of mixing readily with water. of mixing readily with water
to complete the job and into it prepared at one time be poured while the preparation is still warm, for then
the different substances can be mixed more satisfactorthe different substances can be mixed more satisfactor-
Ily. If cresol is used add one gallon to every forty or dy. If cresol is used add one gallon to every forty or
fifty there will be of the total product. This, as before
stated, is best accomplished by adding the cresl stated is best accomplished by adding the cresol to
the whitewash while it is still warm. If a spraying apparatus is used the material can be applied more A barrel spraying outfit handy for thits wort. A coarse nozzle will do and sufficient pressure should be maintained to spread the mixture
and force it into the cracks and crevices. With and force it into the cracks and crevices. With a fis a simple job and need.cause no great amount of Worry. When a sprayer is not available the white-
wash brush can be brought into service. More time is required with this method but it is effective. At Weldwood it requires between fifty and sixty
gallons to disinfect the stable, part of the horse-barn gallons to disinfect the stable, part of the horse-barn is a modification of the one given previousty containing
lime, salt, rice, glue and Spanish whiting. The glue lime, salt, rice, glue and Spanish whiting. The glue
and riče, however, are omitted and the resultshave been satisfactory. About three bushels of lime are required each time. Zenoleum was used as a disinfectant; one gallon of the preparation to between fifty and sixty
gallons of the entire mixture. It was applied with a galons of the entire mixture. It was applied with a
common barrel-spraying outfit and was first strained through wire similar to that commonly found in screen doors or windows. Very little difficulty was experienced from clogging nozzles.
Stalls or pens used by animals during parturition
should be thoroughly disinfected, particularly after being occupied for such purposes. Contagious diseases which affect the health, strength and numbers of the herd are often communicated through these stalls being dirty or infected with germs. Joint ill in horses,
and contagious abortion in cattle should be rigidly guarded against by thorough disinfecting.

## More Light and Ventilation.

Sometimes the stable could be flooded with light
if the windows were only kept clean. Often, however if the windows were only kept clean. Often, however there is too little space devoted to glass in stable walls of lighting and ventilating, onty those things which can be done quickly and at little cost are being mentioned Nevertheless, one can easily hinge the windows at the bottom so some of them can be opened into the stable
at the top and pure air deflected over the cattle. complete the system some provision should be made to carry off the foul air from the top and bottom of the stable. A galvanized iron pipe, 18 inches in diamIt should be left open at the bottom and anothoutlet. for impure air should be cut near the ceiling and covered in such a way that it may be opened and closed at will Any tinsmith can prepare these and install them.
Keep the windows clean so the sun can bathe the stable with germ-killing, purifying light.

As For the Barnyard.
Readers may, at first thought, consider that the
parnyard has little to do with the feeding and care barnyard has little to do with the feeding and care
of live stock, but anyone who has had experience with a wet, miry barnyard will at once know that it means should when forced to wallow about in mud and manure cat to their bellies, during fall and spring. Nevertheless and only in a dry, hard run exercise and pure air, Wet barnyards are a fertile source of "foul in the foot" and other diseases that will set the cattle back
in gains and production. It is very unpleasant to have dairy cows come in with their flanks and udders smeared with mud and manure.
First of all, drain the yard and use nothing smalle than four-inch, tile. If the soil is clay the tramping over the tile is likely to render it useless and prevent
the water from reaching the tile at all. In a case
like this the efficiency of the tile can often be increased by first placing a few sods about the tile to keep it in
position and then filling the trench with broken stone,
brickbats, and on top of this, coarse gravel to the
surface. Concreting in barnyards is now becoming
a common practice. Five or six inches of concrete in a common practice. Five or six inches of concrete in
depth, mixed one to five or six, makes a firm, lasting bottom. In preparing the foundation, level off the ground and fill all spongy or soft places with broken
stone. It is the water beneath concrete that destroys it, and the better drainage provided, either through and satisfactory will be the work. When the lastin is large a part near the stable can be handled in this way, and it should be large enough to permit att this cattle to stand or walk about on it. Keep the mapure
in a well-built pile and as far from the doors as is con-
venient and practicable.

## Winter Feeding Under Present Condition

An abundant crop of hay but a shortage of corn
and coarse grains are the factors that must influence and coarse grains are the factors that must influence
feeding operations throughout the greater part of feeding operations throughout the greater part of
Ontario this winter. Millfeeds are high in price, so anyone who ordinarily would purchase concentrates
to balance or augment the home-grown feed must to balance or augment the home-grown feed must
first count the cost and decide whether his investfirst count the cost and decide whether his invest-
ment will return him interest with profits. The problem would not be a difficult one to solve if corn probiem would, like hay, had yielded well, for then young
stock and dry cows could have been wintered in a stock and dry cows could have been wintered in a thrifty condition, and the feeders could receive what
grain there happened to be available with some grain there happened to be available with some
millfeed added. There are farmers who will not really appreciate the significance of these remarks,
for their grain bins are heaping and their silos full. for their grain bins are heaping and their silos full. Even they, in many cases, we fear, will allow themselves to sell grain in spite of the pleadings of their
own consciences to hold it and feed it on the place. There was a fair crop of fall wheat, but it, at time of writing, is moving at $\$ 1.50$ f.o.b. With a small crop of coarse grains and a full stable a man should price, unless he turns around and puts it into some other kind of feed which. he thinks will give better
results. Of late years many stockmen have fed results. Of late years many stockmen have fed
dollar wheat to cattle and hogs, claiming it paid them has drawn to a close? Farmers are disposing
young pigs also, explaining in a light-hearted young pigs also, explaining in a light-hearted m
that "hogs won't eat hay," If the war shoul
minate during the coming winter or minate during the coming winter or early sur but if conditions now prevailing continue to
their influence over next season's buying and their influence over next season's buying and sel
we believe it is not outside the bounds of we believe it is not outside the bounds of reason to
hazard the guess that prices for meat animals will rul
high indeed. high indeed.
Many farmers will remember 1907 as a lean yea Hay as well as coarse grains and millfeeds were hig
in price. During the week ending Noverne in price. During the week ending November
1907 quotations on the Toronto market at $\$ 17.50$ to $\$ 18.50$ per ton for baled, market in cange on the track. At the same time baled in straw wa
quoted at $\$ 9.50$ to $\$ 10.50$ per ton. quoted at $\$ 9.50$ to $\$ 10.50$ per ton; number 3 yello corn was 72 cents; number 2 white oats were 54 cente
barley was, 95 cents; bran was $\$ 25$ per ton barley was 95 cents; bran was $\$ 25$ per ton, and shors
$\$ 28$. For the sake of comparison with condiotion that exist now and which may extend their infurion over next spring's operations, we may state here tha
during the spring of 1908 butcher cattle sold at during the spring of 1908 butcher cattle sold at Toronto
at prices ranging between $\$ 5$ and $\$ 6$ per cwt at prices ranging between $\$ 5$ and $\$ 6$ per cwt . During
the same period hogs sold at varying prices, ranoing the same period hogs sold at varying "prices, rangin The fall of 1907 presented difficulties similed.
those we must face again this



Young Leroy

Fewer steers are being fed this winter than for beveral years, and, furthermore, many feeders are this will result in a scarcity of seood butcher cattle next spring, and from all appearances there will be no large supply of pork or mutton to satisfy the With no exceptional numbers of other meat animals to be consumed in the place of high-priced beef
and if the law of supply and demand be unhampere nothing now visible stands in the way of high-priced butcher cattle in the spring of 1917. There will be a large number of two-year-olds wintered on meagre
rations, but they will probably be so thin in the spring rations, but they will probably be so thin in the spring way ready for the block, and it is not outside the realm of probability that some may be carried ove as store cattle to be finished during the winter of 1917-18. It is the spring and early summer cattle
that should meet with the most remunerative demal Will it not pay well then so to feed that the surplus stock can be finished in the spring, or, with a little grain, on the early grass? If wheat is sold, and the cash received is not urgently needed to meet out
standing obligations, we believe the money shou standing obligations, we believe the money should
be invested in feed of some kind. We are laboring under abnormal conditions with regard to prices, but if the value of a finished bullock, a finished hog, or one hundred pounds of milk, is such that produc
tion has not been accomplished at a loss, thing not so different after all. We cannot overlook the fact that swine are not only being disposed of in an unfinished condition,
but the brood sows, upon which we must depend but the brood sows, upon which we must depend
for future stock, are moving in significant numbers
Pork, at the present time is so high used only in a limited way as a substitute for beef used only in all be the state of affairs after this seaso
coming spring and summer? Crops must be produced
in 1917 and in years to come. Will it profit sacrifice future yields for pres. Will it proat one to This is the question each must answer for himself according to the fertility of his soil, available capital Avoid All Waste
In our winter operations, conditions demand that all leaks should be stopped. The grain should be
dispensed in the most profitable or silage should be fed in small quantities at least to the young stock and dry cows, which will probably have their grain rations materially reduced. Some saving of grain can possibly be accomplished in the swine department by boiling roots and mixing then
with chop or millfeed. This makes a very palatabl mixture for hogs and one on which they do well By utilizing every particle of waste material, or by products, and putting them up in a tasty manner fo milk will take the place of a certain amount of kitchen refuse also has some value, and this all combined with a few roots and some tankage, if the skim milk is scarce, will tend to liberate for the cattl oats and barley that would ordinarily go to the man-
facture of pork. On the other hand it would be folly to skimp the hogs. They should have sufficient grail or meal, over and above the by-products and refus supplied to keep them thrifty and growing. Farmer producing in these days. Ten, eleven, twelve or even thirteen-cent hogs, such as we have had, are a dil ferent proposition and these values warrant the feed ing of high-priced meal. However, the object shoutd
be to make everything count to the very best advantage. Turning to the stable we meet several alternative

NOVEMBER 2, 1916

## THE FARMER'S AUVOCATE.

Those who.do not as a rule finish cattle for the spring
narket will
arobably fuly find formselves equiper to carry their breeditg ample fodder to carry their breeding stock and grow-
ing catte through the winter in fair condition. Plenty ing cattie hay, with a little silage or a few roots, will
of good he the animals thrity and growing. If som of good hay,
keep the animals thrifty and growing If some grain
can be spared, the store catte possibly can be kept cap be spared, the store cattle possibly can be kept
can
in such fit that four to six weeks on good grass would in such fit that four to six weeks on good
make them acceptabie to the butcher.
Again, there will be many who annually finish
some few head, which they have reared themselves. some few head, dimand from professional cattle feeders thiis season will enhance the number of farmers who
will find themselves obliged to keep the feeder class will find themselves oblitiged to keep the feeder class
of animal rather than sell it as has been their custom, of animar rather thld dispose of such stock for less than
unless they shour . These farmers have two alternatives;
it is worth. thee can finish the cattle themselves, perhaps that
will necessitate the purchase of some grain, or, they will necesitate the purchase of some grain, or, caey
can winter them roughly and finish on grass or cary
them over to be fed during the winter of $1917-18$. them verr next spring and early summer, it is not unlikely
that the greatest ultimate profit will accrue from thai thing such cattle this winter, even if some grain
finis millieed must be purchased. If one has plenty or mileed some silage or roots they will suffice for
of hy and son
the first month. Fill the cattle up with this feed, the ats the beginning of the second month introduce
and at about two pounds of chop into the ration. If silage
isfarly plentiful, cut straw and silage mixed can be
fed twice each day at the start, also oñe good feed ised twice each day at the start, also one good feed
of hay. As the winter advances gradually work
of of hay. As the winter advances gradualy work
back to the hay, so by the frist of March straw will
be entire replaced: Slowly increase the grain each be entirely replaced. Sowly increase the grain each
tonth until the quantity reaches eight of nine punds
per day per steer, by the beginning of March. This per day, per ster, by the beginning of March. This
mettod wwill conserve the hy for the cow and young
metho stock, which
better feeds.

To the professional feeder who fills his stalls or runs each rall with feeder cattle, little need be said.
His position is different from that of the man who usually takes an inventory of his stores and then puts
 one-hundred pounds of gain on so much fodder and a certain quantity of grain, and after computing the
cost of feed and the value per hundredweight of his cost of teed and he valte, he has some idea regarding his profiss,
feeder cat feeder cattle, he has some idea regarding his pronts,
provided the price for the finshed bullock is not
disapoointing. Extensive dealers are buying cattle provided the Pxtensive dealers are buying cattle
disappointing.
quite freely for distillery feeding purposes, where they are obliged to purchase every ounce of feed. They
are in close touch with the market, and are paying are in close touch with the market, and are paying
good money for the choice kind. This is signifieant,
gor they are not new at lor they are not new at the game.

What Feeds Shall He Buy?
There has bén a good crop of hay, and this
aviates the necessity of purchasing several kinds obviates the necessity of purchasing several kinds
of feed that might have been found neessary.
turthermore there has been an opportunity of obtain Furthermore, there has been an opportunity of obtain
ing good alfalfa hay very reasonably, and this class ing good alalata hay very reasonably, and this class
of forder takes the place to some extent of bran,
roots or silage. Corn, which formerly was bought roots or silage. Corn, which formerly was bought
freely, is now quite high, but even at present values it will not cost much more than two cents per pound so No. 1 Western. feed oats are perhaps as good a
buy at 62 to 65 cents, at which they are quoted when writing, as any feed on the market. They are saie, and when ground with a ilittle bariey or whea
make excellent chop both for fattening cattle and growing stock. Corn and this class of oats are not yet
out of reach when we consider the price of beef and out of reach when we consider the price of beef and
pork. Young pigs will perhaps require some middligs,
which, with a little skim milk, will produce good which, With a little skim milk, will produce good
results. Possibl it will be necessary to use some bran
if the silage and roots are scarce, but it appears that if the silage and roots are scarce, but it appears that
oats. and corn, particularly the former, are as good an investment for the feed lot as there is now in
sight.
It is always wise to buy carefully, and only those
feeds that will combine well and profitably with the home-grown stuff. Farmers are now fairly well
informed regarding the different properties of feeding stuffs, and they should consider this phase of the question. Balance the protein rich feeds, such as
alfalfo hay, bran or oil-cake, with the feds rich in
carbohydrates, such as corn or wheat. An excess carbohydrates, such as corn or whe
of either kind will result in waste.
We have made a few suggestions regarding markets
and the feeding problem, and they are based entirely upon conditions which, exist at this time. Every farmer shoulid take suffcient time off at this season
of the year of figure out how he stands with regard to his live stock and available feeding stuffs. Furthereffect a saving in some department without unfavorably influencing another. Conditions are such that de-
liberations are necessary. There is a splendid op liberations are necessary. There is a splendid op--
portunity, for the man who uses his head, to convert remunerative while he who will not something quite waste or alter his methods to suit his circumstances
may long remember this as as nearly as possible the value of the finished pro as nearly as possible the value of the finished pro
duct, then, if after distributing the material at hand to the best advantage, some extra feeds can be used at a profit do not hesitate to obtain them.

Who Can Beat This Grade Cow? 12, together with her three in ours of issue of Octuber months is certainly a valuable cow for W. E. Johns of and in additianio. Mee cow 14 years old as stated and in addition to giving birth to two calves Apri
15,1914 , two more June 11,1915 , and a third pair May 25, 1916 , she gave in her 1913 lactation period
$7,885 \mathrm{lbs}$ of milk, $7,376 \mathrm{lbs}$. in $1914,8,988 \mathrm{lbs}$ in 1915 , and $8,367 \mathrm{lbs}$. in the period ending, early in 19116 with lactation period she gave $1,605 \mathrm{lbs}$. milk testing her per cent. fat. Her highest day's milk was 60 lbs. This is surely a dual-purpose cow. There are few cows young or old, pure-bred or grade which give in four
consective
lactation periods 32,616 lbs. of milk testing $3.5 \%$, or an average of $8,154 \mathrm{lhs}$. each period, It al would producing that the calves reguction of twins may be to two ars of twins in less than eleven month and all were raised. Her heifers, if they show individuality
of the of the right kind, should be kept.

## A Hot Bath Saved These Pigs

Edrtor "The Farmer's Advocate: 12 nice pigs few have a fine sow which farrowed 12 nice pigs a for some reason, were lying on the only bare spot in the pen, the floor of which is cemant. Whiled ang almost life-
would pass out as they were bady wouid pass out as they were bady yhiled the farmostried these almost lifeless pigs into warm quarters and put them into a warm bath and kep the the there until they
were warm, then fed them a litle warm, new mill were warm, then fed them a little warm, new milk
with a few drops of whiskey. For eight or ten hours we.thought their chances were poor, but one by one they began to revive and were taken back to the sow and at present are doing well.
Waterloo Co 0 .

Oak Lodge Duchese 312th. to be pretty well wound up by the fiftenth of this month
because the weather is not dependable after that. But during the next two weeks considerable may b accomplished in the way of getting the land ready for an earlier, duicker and better seeding in the spring.
The greater part of the soil will only be plowed once this year as the early after-harvest cultivation was thade practically impossible through lack of moisture made practicaly impossibe the bulk of the deeper plowing
and sarcity of help. The
remained to be done after the 20th of October and remained to be done after the 20th of October and
much of it is still to be done. For the most part much of it is still to be done. For the most part a aurrow
from five to seven inches deep, cut wide enough that the land is well turned over, but not so wide that it is simply cut-and-covered, should be about the right thing. On heavy clay soils, or even those moderately
heavy, most farmers prefer to leave the soil turne up rough from the plow so that the frost gets its best
chance to pulverize, disintegrate and prepare it for chance to pulveri

Hoed Crop Land.
What should be done with corn ground which
has been kept clean and well cultivated throughout has been kept clean and well cultivated throughou
the season of the growth of the crop? If the land is in good condition and weeds have been kept down
the soil being anywhere between clay and loam composed of either one, many believe that it is folly
to plow or cultivate in the fall Some of the best farmer to plow or cultivate in the fall. Some of the best farmers
in the province, when they have their hoed crop land in the province, when they have treir hoed coop a and
clean, including corn and root ground, and they aim to have it so, leave this land as the crop lett it until to have it so, leave the it then, but simply cultivating
spring ont pot owing isking in prepartion for the wetd
well or
writer has tried this system for the growth of both writer has tried this system for the growth of bow
sping wheat and barley after the corn and roots spring wheat and barley after the corn and roots
with excellent results, and under most conditions where
the land is clean enough would faver leaving it withthe land is clean enough would fayor leaving it without plowing. Where such is done it is generally neces-
sary to roll with a heavy roller after seeding in the spring to put the corn stubs down out of the way of the binder. Where the cornd lind in bad condition and where weed
have thrived during the summer in the have thrived during the sommer in the oorn or roo
crop, of course plowing would be advisable and it Crop, of course plowing would be advisabie, and it is
well to go about the same depth or a little deeper than
that to which the
 domn previous to
planting the corn or planting the corn or
sowing the roos:
This tends to keep the This tends to keep the
manure up in the sur-face where it is more
accessible to the roots
of the shallow-rooted cerene shallow-rooted
collow the hoenerally
crop. follow the hoed crop.
Manure should not be plow
deeply.
For Stubble Land. For Stubble Land.
Most of the stubble
land will, this year. get only oone plowin,
and in order to facild.
tate matter


Feed Value of Roots. A circular on "Root Growing in Quebec", issued
De the Cereal Husbandry
Department of Macconald College, contains the following information about roots and root tops: "The feeding value of rots
depends on their content of dry matter, mainly condepends on their digntent carbohydrates. Ten ppunds of mangels, carrots or swedes (swede turnips), twelve
and one-half pounds of turnips (soft white) contain, and one-half pounds of turnips (soft white) contain,
on an average, one pound of dry matter and have the on an average, one pound of dry matter and have the
same feeding, value as one pound of grain. Each same ent constitutes one feed unit. Root tops represent a valuable feed and may either be fed fresh or put
into the silo. Ten pounds of carrot tops and fifteen into the silo. Ten pounds or carrot tops and constipounds of mangel,
tute one feed unit."

## THE FARM.

## Putting the Land in Final Condi-

 tion for WinterWere it not for the fact that this has been an unusual season and that farm work has been delayed for which to discuss putting the land in final condition for winter. But, owing to the drouth which con tinued in most sections of Ontario well on into the fall, and partly due to the scarcity of labor, a great eul
the farm work which, as a general thing, would be accomplished in October will have to be done this year in November if the frezz-up does not come too
early. By exercising
memory a a little we are led to hope that winter will not close in before Novembe 20th at least, and probably not until nearer the end of the month. As a general thing the plow is not stopped by frost in the greater part sen seasons such as is pre-
of
November, and in open dicted for this year, plowing is done up to November
25 or first of December. It is a safe rule, however,
rowed plow. two- me-
depth of about five inches or possibly six. sill to the work. in the iall when the ground is soft as it io now. We would much rather have the fields well turned with the single plow, Of course a g great deall fopenited be kept adan usted and in the ground so that ane even,
fairly straight and well-turned furrow results. Striking out and finishing should be done with a sesingle plow
no matter what style of two-furrow implement is ised no matter what style of two- turrow implement in ine
Somie good farmers, when Some yood farmers, when they can get their plowing
done foirly early, have found it excelent practice
to plow to a fair depth and follow this later on witi to plow to a fair depth and follow this later on with
the cultivator with broad shares attached, or with the disk, learing the land in this condition over winter.
This is all right where the soil is not too heary and is not liable to run torether and become sticky whind would delay spring operations and work to the detri-
ment of good tilts next April ,when the 1017 crop going into the ground. For heavy soil or that which
is inclined to be wet and rather late at seeding tine a goo practice wet to ridge the land the very last thing
in the fall. This is something which might be done to good advantage on considerable of ontario farm
land. After the plowing has been completed if a few days or weeks remain, the doublomp-mented, board turnip or mangel rows. A good man wish a making
class team will put up anywhere betwen three class team will put up anywhere between three foid
four acres a day quite handily and this ridged boil, exposed ases a day should be to to to the frost, gets ali the beneifit exposed frost action, dries out much more avickly in the
from
pring and a cule of strokes crosswise with harrow spring and a couple of strokes crosswise with harrow
and cultivator put it in fine condition for the seed, generally permitting of getting the spring seeding done genereast a few days earlier, and every day counts.
Many of our readers might well try feld o their heavy soil according to this system this fall if time permito. Where a double-mould-board plow is not at hand very good
work may be done with an ordinary single plow eut-and-covering, generally crosswise of the plowing.

The Sod Fiold
The sod field is a different proposition. In some
districts where sod is to be plowed for corn, fall plowing plowing has proved to be much more adyantagring Sod to be worked up for spring crop of cereals should be plowed fairly late in the fall and to a fair depth, being careful to turn it well, and if possible use a skimmer to help get over the difficulty of grass growing up in
the seams before the land can be worted in the spring the seams before the land can be worked in the spring
We would advise fall plowing of all sod intended for oats or barley next spring. For peas, spring plowing is generally good practice where the t.me can be had to do it in the spring, or where the field is so situated that a few days plowing may be done before the other is to be sure that all grass and other growth is well is to be sure that all grass and other growth is well
turned under. It is sometimes considered good practice turned under. It is somettimes considered good practice to get thie top fine, which aids in rotting the sod and preventing grass growth. Sod has not the same tendency to run together as
zecording to this system.

## Water Furrow

Most of the land would be benefited by running a system of water furrows throughout the field. The
more quickly the water can be pumped away from the more quickly the water can be pumped away from the
surface of the field in the spring, the earlier seeding will surface of the fied in the spring, the earlier seeding will which should be attended to just before freezing up.
A day or so will water-furrow a whole farm and in mány cases it would pay well.

## Five Things to Remember

There are five things to remember. First, if the leave it as the crop left it : Second, replace the single plow with the two-furrowed gang and rush the stubble plowing to completion, cereal crops will be the better of plowing and cultistubble land is and the work can be done after the plowing would be better in some localities. Fourth, phere the land is heavy and has been plowed and time
remains, ridging up would put it in better condition remains, ridging up would put it in better condition
for winter and for an early seeding. Fifth, waterfor winter and for an eary

Selecting, Curing and Storing Seed Corn
What is known as the corn producing area of the Dominion lies in the South-western portion of Ontario, and to a limited extent along the lake shores where
the temperature is tempered by the water. However, certain varieties mature satisfactorily in a more northern latitude, especially where the soil is inclined to be warm, so that seeding can be done fairly early in order to give a long growing season., On many farms, choice seed corn for the next season's planting can be secured in the home field. In making the selection, and the kind of stalk which produced it, consequently the proper time to select seed corn is while the crop is standing. It is too late for that now, and, in fact, many have difficulty in finding time to do it even when the crop is standing. The next best thing is to pick out
ears conforming to your ideal at the time of husking. ears conforming to your ideal at the time of husking.
Corn allowed to mature and then cut and shocked gets a fairly good chance to dry, but it is advisable to husk it and take it in from the field before severe frosts occur. It does not take a very heavy frost to injure the germination of the kernel if it contains much moisture. Freezing causes the water in the kernel to expand,
breaking the cells. When mature, and still standing breaking the cells.
corn contains about twenty-five per cent. of standing, and this should be allowed to dry out in a place that permits a good circulation of air. It soon evaporates
if the corn is standing in shock, or if the ears are lying if the corn is standing in shock, or if the ears are lying
on facks exposed to the breeze. If not dry by the time on racks exposed to the breeze. If not dry by the time
frost comest the seed corn should be placed in a building and artificial heat applied in order to drive out the moisture, after which severe freezing will have little
effect on the corn. To have thoroughly mature corn is not sufficient to guarantee a high percentage of germination next spring. It must be cured properly
and kept dry until seeding time. In seed corn belts special drying kilns, or cribs, are erected but where only a few bushels of seed are saved, less expensive,
but nevertheless effective means of curing and store the corn are employed. There is a lot of corn to be husked yet and while
the frost came earlier this year than usual there are fields where the corn was matured before growth was stopped by the frost, and it may yet be possible to select
good seed corn. There are certain types of ears that good seed corn. Mhere to gather. No matter what
it is found advisable to the miat
variet, the rows on an ear should be straight with the variety, the rows on an ear should be straighter with hhe
same number at the tip as at the butt. Regular rows produce more corn, and kernels from a straight
ear are likely to produce ears with straight rows of mentin favor of seeing the corn on the ear. The ideal arguis strong in the centre, tapers slightly towards the etip,
with a full, well filled tip and butt. In endeavoring to secure ears having the tips and butts well covered,
due regard must be given to the proper length of the ear, which varies with the variety. For a dent corn
the best length is from seven and one-half to nine and
one-half inches, and the circumference measured one-third of the, distance from bumft to tip, mease fived ane-
half to seven and one-half inches. Of course, the length half to seven and one-half inches. Of course, the length
of an ear of flint corn is greater than this, and the circum-
ference less. With the dents there is a certain ratio etween circumference and length which it is advisable to aim at. It is claimed that the circumference should tention must also be quarters to the shape of the kernel, the best being broadly rounding, wedge-shaped kernels. The shoe-peg type is undesirable. The sides of the carnied right up to a square shoulder; the point should be plump, as that is where the germ is found, and it is also the part of the kernel richest in oil. The germ
should run well up towards the upper end of the kernel should run well up towards the upper end oh the kerne and should be thick through. Those which appear pointed when viewed edgowise. Such grain is low in feeding value and weak in the germ. It is possible to increase the yield considerably by careful selection of the seed. For this reason it is advisable to know the kind of stalk that produces the corn. This cannot always be done, but it is possible to know the kind o left on the ear over winter there is less danger of the germ being injured than if it is shelled.

## The Origin and History of Mangels.

## By L. H. Newman

An interesting article on the origin and history
mangels by L. Helweg, Director of Root Seed Production in Denmark, is published in a recent
number of the Danish Crop. Production Journal number of the Danish Crop Production Journal
(Tidsskrift for Planteavl, ${ }_{2} 3$ Binds, 2 Hæfte, 1916) For the benefit of Canadian readers the writer is taking the liberty of translating and making a brief summary of this article which follows:
Cultivated forms of field roots are among the oldest ${ }_{2}^{2}, 000$ years B. B. ${ }^{\text {C }}$. , 000 years B . ... there was (about 320 B. C.) cites that red and white beets were commonly cultivated in Asia under the name of Teulion melon and Teulion levkon. Pliny and Columella, in the first century after the birth of Christ, speak
of these beets and also mention the bluish-red beet, of these beets and also mention the bluish-red beet, cultivated in Italy. The latter is called Teulion
kokkinogoulia.
Yellow form
therefore be assumed that these were not known in ancrient times. Helweg expresses the opinion that
violet-red and bluish-red forms were cultivated in violet-red and bluish-red forms were
ancient times as dye-producing plants.
ancient times as dye-producing plants.
Our cultivated forms
beets and red beets are believed to have orisinated from the so-called Shore or Strand beet, (Beta mari tima. L.) which is found growing wild by the Caspian Sea as well as in Spain; France, Holland, Denmark and Great Britain. In order to show the relationship between Strand beet, the sugar beet and mangel,
Helweg makes comparisons between certin istics. Thus Strand beets are perennials, but fter produce seed stalks the first year. Our cultivated beets as a rule, are biennials, but according to many investigations it would seem that one may obtain
roots which produce seed during successive years as does the Strand beet. during successive years, as does the Strand beet. The seed stalk in the of the Strand beet is procumbent, while that in the case of our common outivated beets is upright. The color of the lea
of the Strand beet is a darkish green, while in that of the cultivated beet it is more of a light green.
Sugar beets, on the other hand range intermediate Sugar beets, on the other hand range intermediate
between the cultivated beet and the Strand beet in Color and position of leaf. The Sludstrup Barres the acme of man's efforts in improving upon this
ancient type. As intermediate between these two extremes, many inferior and degenerate forms are to
The influence of cultural conditions in changing the type of beets and producing a certain form of degeneration has long been recognized. One of the
most striking illustrations of this effect was found in connection with certain work conducted in Denmark,
In 1905 a German seed grower in one of the Rhine Provinces bought 100 kilograms of common commercial Denmark. This grower produced his own seed and after growing this particular type for four years he
sent back a quantity of seed to Denmark. The roots produced from this seed proved to be quite degenerate The German grower reported that during the first
two or three years the roots were grown on volcanic two or three years the rots were grown on volcanic of the degeneracy. He does not believe that in this
case cross-fertilization with wild forms, which very commonly produces a form of degeneration, played
an important part. In supporting this view he marked a number of careful comparisons and observations,
the details of which need not be repeated herv The root of the Strand beet is small and spindly, but when taken from its natural habitat and cultivated on well-manured land, it develops a thicker main root
and decreases in dry matter. This discovery of this and decreases in dry matter. This discovery of this
behaviour of the Strand beet is probably accountable Many experiments have been conducted with a view to proving whether the Strand beet was actually
the original form of our cultivated beets. Many noted workers, such as Rimpau, Timbal, E. von Proskewetz
and others have devoted much time to this work, and
of types is to a large degree a result of cultural condy tions. Helweg summarizes the points which seem to indicate that strand beet is the original form from whilows:

1. Strand beet's botanical characteristics in main compare closely with those of our cultivated forme ses show definite relationship between the Strand beet and the cultivated beet.
happens that outer as wett as inner deganerates it approach more or less closely those of the Strand beet During the past thirty years a great many different types of mangels have been tried out in Denmark
but today, 88.4 per cent. of all seed handled on the market consists of the so-called Barres type, a Yellow esting in view of the fact that both in Denmair and Canada this type has come to displace all other types of mangel grown.

## History of Barres Mangel

The Barres forms of roots are first spoken of in LeVeque de Vilmorin who died in 1862 His belonging to the firm of Vilmorin, Andrieux and Co in Paris, reported, in 1899, that through the continued selection for many years of the beet called Diselle jaune by his father on one of the seed firm's estaten called Les Barres, he produced a sort to which he zive the name Jaune first time in 1853 and appears first in Danish literatue in a report published in 1861 on experiments conducter at agricultural high schools.
Professor Jrgensen in this report writes: "The new type of mangel called Barres is an attractive was obtained in France from Vilmorin of Pario loat year." The area devoted to root growing in Denmarl
has increased very much during the last thirty yen. In 1878, according to statistics, there were 12,330
acres of roots, while in $1915,307,307$ acres were under acres of roots, while in 1911, 307,307 acres were und
cultivation. No other kinds of cultural plants and no other variety has m
during this
In many countries root growers believe that a certain kind of soil requires a certain sort. This same belief prevailed in Denmark for many years, but as
a result of experiments conducted by the State between 1893 and 1899, this idea has come to be abandoned. These experiments showed that the Barres stoclos were practically always superior to any other, spective of the kind or quality of soil. During the past few years the problem which the Danish growers have been considering most is that of improve
ing upon the Barres type. This type has heen defined ing upon the Barres type. This type has heen defi orange-yellow mangel, the root being, as a rule, so what more than twice as long as it is broad, the greatest thickness being found usually just below the middle The flesh is some cases it is thickest at the mid The flesh is white but with a weak yellowish tinge
From 1900 to 1913 there were tested out at the Danish and strains of this type. The strain which has duced the best results was given the name of 5 strup, having been procured in 1887 by
J. H. Michelsen, of Sludstrup, Denmark. Barres has been tested out in Canada for a number best types of Yellow Intermediate type of mangel, and steps are being taken by the various agricultural colleges and some of our experimental stations to produce pure seed of this sort. This year
stock seed of this variety was obtained from Mac stock seed of this variety was obtain onald College, P. Q. by a number
intend, as members of the Cantadian

After the ears are thoroughly dry, care must be
ken to store them in a dry place. One method used io drying the corn is placing it on racks whete no two ears touch, and where there is a free circulation of
It does not take long to tie a number of ears and hang them in a furnace room, the attic together or barn to cure. Some drive nails into boards and grana way of is husked it should be spread out where it will geot th circulation of air. Cases are known of where it was left was destroyed. It does not require a great deal of spac to store sufficient corn to plant the usual acreage o bushel of shelled corn, which will give some idea amount required. An extra quantity should be lected, as it may be necessary to cull out a number
ears in the spring, and there is always the posibilit ears in the spring, and there is always the possibilit must be takén to store in a dry, well-ventilated place.

## Canada's Young Farmers and Future Leaders.

## A Town Boy's Summer on the Farm.

Eodror "The Farmbr's Advocate"
mm going to attempt to write an article about my experiences while obtaining my examinations my employment during the past summer. f do not claim to be in possession of any fund of special facts, so that the following wil be merely
a recital of what many others in similar positions a rocital of have experienced and observed during their terms of employment in the country.
terms farmers only" realized what they add to their own reputations, and how much more work they dan exact from their empayyees meaness and roughness to their wages, I feel sure that farming as a profession would not be half so unpopular among town boys as it is at the present time. hel almost as though he had taken him into
him feet
ind him
partnership, and uses him as he uses his own family;
another parturer employer haggles over a few days wages, is
another
continually talking about the high cost of living at mealtime, and growls at his hired man as though he placed him in the class with his horses. The re-
sult is that the latter's hired man leaves him at the sult is that the latter's hired man leaves him at the
frrst opportunity, and naturally tells all his friends frrst opportunity, and ont the ""place," and his former
the particulars about the employer is surprised to discover, that few will hire
with him at any price, while his neighbor, who use
his hired help "white," is lauded everywhere and
never has any trouble obtaining help. I have in never has any trouble obtaining help. I have in employment on farms where ""grub", was scarce,
and of others where there were "all kinds of it ." employment on farms where " "all kinds of it."
and of others where there were
Needless to say, in each case a different kind of recommendation, was given, and nearly all the young men included in their stories the statement that, lots to eat." In my own experience I found that hearty meals and cheery words made me fit for any work which, might happen to come my way,
We didn't finish sepding last spring until after We didn't finish seding last spring until after
the middle of June, and even then most of the seed was "mudded" in. Some of the fields we had to leave without harrowing, as the rain would come on
almost at any time and practically at all times However, I noticed that when the harvest was of the ground that was not harrowed apparently yielded as much as the ground that was harrowed; althoug none of the crops were anything in comparison
those of other years. In making this statement must not forget the hay crop, which has seldom been surpassed in this part of the country, either in quantity or quality, for you will rèmember the perfect weathe that we had about the middle of July, at which-time
we had haying in full swing. On the farm where we had haying in full swing. On the farm where
worked we harvested clover as heavy as three loads worked we harvested clover as heavy and that was from the first year's seed ing. It seems to me that here lies the comforting feature of the farming profession. Farmers are not dependent upon one crop alone for their living. If

One of Nature's laws is that those depending on her
shall not be left desolate. Can the world, I mean the general public, be credited with such *kindness? Although hay was plentifut, we had to economiz with it to offset the scarcity of other feed, and soon found out that the horses could do as much and looked just as well when they received and oats as when their mangers were kept full to the brim In this connection, if I might be allowed to make th suggestion, I think that the scarcity of feed this yea ought to teach farmers a lesson. Several farmers hav told me that they were planning, by means much stoc and make as much money as usual this year. Now if they can get along as well one year with a poo crop as they can another year with a good one,
is plainly time that lessons in economy should is plainly time that lessons to all Conada, I believ forthcoming. Applying this to a that were the lessons of sacrifice and economy taugh by the present national crisis, practiced in times peace and prosperity, in future years this war migh be termed a national blessing

Taking everything into consideration my ex periences during the past summer have been soerial
thing but unpleasant. Football and lawn social thing but unpleasant. kind friends at all times far more than offset the blazing sun, the blistered hand and tired limbs, and I know of no place where anyon can spend their holidays more pleasantly and profic ably than on a fa
consists of work

Student.

## Automobiles, Farm Machinery and Farm Motors.

## Fire-Side Arguments.

Have you yet attended a meeting of the "Hotbrought your friends closer to the fire in a mood to discuss the automobile and its summer performance Whether this opening event has occurred or not suggestions that will in all probability provoke end suggestions
Tess
discussion.

Perhaps you have heard of the words "Chamber and Gather" as applied to front wheels. 'The forme can be described as the amount of divergence fro the vertical, and the latter as the amount of "toe-in." Front wheels must, of necessity, steer easily, and also
allow for even wear upon the tires. Now, the chambe allow for even wear upon the tires. Now, the char to position under the king bolts, and the gather obviates any tendency towards abuse of the casings by result of uneven usage. Never allow the front wheels to get
gut of their proper alignment, as the tires will not give
able.
Speaking of tires, if your machine is going to be 0 wash them with some brand of pure soap an water, and then wrap them in strips of cloth or thicl paper and store them away in a place free from ligh to remove your tires during the period in which your auto is out of commission, perhaps it would be as well to invest a few dollars in jacks and so elevate the motor that the rubber will not, at any place, be' touching the floor. If you cannot take any of filled with air and move your machine from time to illed with air and move your machine firmem time to
time in order that the rubber at the different points of contact may not become dead and inert. Were you ever driving along the road when you
found that the radiator cap had become loosened and that brown drops of water were' being sprayed upon the hood? The indication was perfectly plain-
the water in the radiator was dirty. It might be well, once or twice a year, to take a solution of common soda and pure warm water and run it through the radiator by the operation of the motor. Afterwards
drain off the liauid and clean out your machine with Irain off the liquid and clean out your machine whe
water before re-filling for road use. water before re-filling for road use. talking about the saving of gasoline. Do constantize that radiator and hood covers will economize on fuel in winter-time. This has been established beyond any question. The covers do not allow the engine to
cool off rapidly and so reduce the amount of effort hecessary to its starting. Some of these accessories are built up of grain artificial leather, heavily padded constructed of silk mohair. The prices are extremely reasonable, and there is no doubt but that the benefit
accuruing from them justifies the expense. about cone clutches which, as you know, are utilized
for the purpose of taking the load from the motor after it has been started and putting it to use. Never
get oil or grease into the clutch housing, as there is a get oil or grease into the clutch housing, as there is a
duty for them to perform and they may cause the clutch to slip. Also remember that constant use or
abose makes the clutch hard and unresisting. It is
It
earth. A small quantity of neatsfoot oif is also good, and some car owners claim to exercise the utmost care,-that it is well to control the car with the throttle as far as possible, but never, under any circumstances, have your foot in any
position that will make it difficult to reach the clutch position that will make it difficult to reach the
in a hurry
If your auto has been standing for any length of time these cold morning Under these circumstances do not forget to pull the button on the cowl or instrument board. Of course, we refer to the button whic cuts the air from the carburetor. Should you not have an appliance of this kind, the same effect can be produced by asking a friend to hold his or her hand method, and that is by pressing up and down the little button on top of your carburetor. From eithe one of these three operations you will get a rich mixture which should take fire readily. In the old days we primed the motor by pouring in gas, the same way that we primed a pump by pouring in water. The movements we have described, of priming.
the place of the antiquated system of priming

Why do some cars of standard manufacture have three-quarter instead of $U$ doors in the tonneau? This can he explained when we state that in the the frame in order to provide a better motor balance The policy of the company has been "Safety First." Uoors are very comfortable, but, where big power plant this minor convenience not always possarantee safety at the same time. We mention this as the matter frequently comes up for discussion. Speaking of motor balance, we need only say that the lower the
centre of gravity, the greater the ease and surety centre of gravity, the greater the ease a.
of operation in any piece of machinery.

## Stopping the Car.

Editor "The Farmers Advocate of October 19, under the heading, "Automobiles, Farm Machinery and Farm Motors, there appears an article deanot agree, the stopping of a motor cars: "Never stop your car by using the service brake if it is at all possible to utilize the clutch, and never under any circumstances use the brake without first pressing down the che arguments in its favor wrong. I give herewith my reasons for saying thatsin order to stop a motor car the service
brake should be used with the clutch engaged. brake " "Economy in tires." In stopping a car if the clutch is released before applying the brake the rear whels are allowed to slice when the brake engaged the rear wheels must sevore you must agree of the rear wheets on the tire than the revolving action would be. . when the brake is applied if the clutch is released This causes skidding, which at all times is very danger-
ous. If the brake is applied with the clutch engaged
the rear wheets must revolve, and white revolving
the tendency to skid is removed. ing the car can be stopped much quicker by applythe brake is applied in this manner the car cannot slide and the mpmentum is at once stopped; the brake working on the drum acts against the engine, giving greater friction to the tires and so stopping the car. in examining for chaffeur's nermit is to see how the applicant would stop his car. If he releases the clutch
before I drive a Cadilac car and have been instructed by one of the mechanics to release my clutch as seldom as possible. I have been driving for some eight years now, and find personally that the use of the service brake while the clutch is engaged is tory method of stopping my car.
York Co., Ont.
Norman $\mathbf{H}$. Campbel.
Ans.-The best newspaper and engineering authorities in the automobile world do not agree with your that it is never wise to stop your car by wing the service brake, if it is at all possible to utilize the clutch. The success of the automobile business must inevitably rest in direct ratio the econ is no shadow of doubt regarding the advisability of bringing any vehicle regarding the advisainete stop solely by shutting of the power. When this method is pursued, it is not only saving in gas but in tires and machinery. It must be patent to anyone, that a brake should not be asked to tight
against the speed of an engine as well as the momentum against the speed of an engine assary to do if the clutch is not released. When your clutch is engaged, one wheel does the skidding, but when it is out, two wheels perform the same operation and the latter is the safer This is an established fact.

## Can You Tell Iron From Steel:

In many instances a farmer is at a loss to know whether a piece or form.
There are numerous methods used to distinguish between these, of which the following are the four most common: First: The method most commonly used is to tap me metal with another piece of metal or to drop pote the sound made. If the metal has a clear ring it is steel, if a very dull or dead sound it is iron, Second: Examine the surface and corners of the piece in question. If the surface has a glass smooth
ness and the corners are sharp it is steel. If the ness and the corners are sharp it is stea, rounded
surface be rough and the corners somewhat rem it is iron. Touch the metal to an emery wheel and
Third:
observe very closely the sparks given off. If all the observe very closely the sparks given orf is steel. In
sparks burst after leaving the wheel it sparks burst after leaving the wheel it is stee. ind
steel some of the sparks burst and then the particles steel some of the sparks burst ave happens and but
burst again. In iron this never hes very few of the sparks burst.
Fourth: A final method, if the person is -still in doubt, is to break the metal. If the fracture shows up fibrous with a dull appearance, it is iun If the break is clean and the particles have a luster lege, Fort Collins, Colorado.

## Storing Farm Machinery.

For a great many farmers storing farm machinery is no problem. They do not store it. For others it presents difficulties, for they would like to store it
and have not a suitable place. Still others have the implement shed, but are more or less careless in getting their machinery to it and in packing it away; and a fourth class have the shed, know that it pays to keep their machinery inside and keep it there in first class order so that no time is lost when any machine, implement or tool is required.
The first class of people mentioned are moré or less hopeless; they do not seem to realize that rust and decay quickly consume the best of implements and machinery which represent their good money They are just careless and indifferent about their binders, mowers, rakes, cultivators, disks, plows, harrows and the whole business, and these may be found scattered about the place, under trees, in fence corners, down the lane or behind the barn, rathet than inside. They have the biggest implément shed in the world-all outdoors-and they scatter their valuable property around as though they owned all the shed.

The second class of farmer is generally a careful man who keeps most of his machinery inside, even though he has no regular implement shed. Crowding in his barn or driveshed is all that keeps him from having all his machinery and implements well-stored at all times. This man usually finds time to gather up all the implements and machinery about the place and pack them away on a part of the drive-shed floor or on one of the drive floors in the barn before winter sets in. He is the man who will have an implement shed before long, because, by taking care of things
on the farm, he will soon make mioney enough to build an implement shed, tor he understands the benefit such would be. For the man with the big implement shed badly arranged and whose implements and machinery are found in the fields when_they should be inside, there is little excuse, and there are alto-
gether too many of this class in Ontario. Why anygether too many of this class in Ontario. Why any-
one will allow plows to freeze in at the back end of
the firm the farm, cultivators to stand in the fence corner for to be exposed to the weather for many days when they have a large enough implement shed to house them all is almost beyond conception, and yet such is the case. We have been in implement. sheds where
the machinery, implements and tools were so badly the machinery, implements and tools were so badly
jumbled up that the shed was a puisance too time being lost in getting at what was wanted from time to time.
For the man who has the shed and keeps his
plements therein at all times very little need be said. implements therein at all times very little need be said.
He knows what the shed is for and uses it for that purpose. His binder and mower and such machines at any other are put in the most remote corner at any other are put in the most remote corner,
while those machines and implements, such as cultivators, disks, manure spreader, plows, etc., are arranged
at the front of the shed where they may be hitched at the front of the shed where they may be hitched
on to at any time without moving half a dozen other machines or implements out of the way. His simply a well-arranged file of his farm necessaries There are a few little things to remember in putting implements and machinery a way for the season.
In the first place, whether you have a special shed or not, put the implements under cover. The barn
floor is just as good if not quite as handy as implement shed. Clean all the implements well,
take all the dirt oft the diss and the plow, and put a little oil or grease on; this will prevent rust, and make them work better in the spring. Arrange things so that all nuts may be gone
over and loose ones tightened during the winter oifseason; prepare to wash up the wooden parts, if dirty, and during mild weather give them a coat of paint. sharpened ready for the next year, and they may be time during the winter. Take all the knives from
mowers and binders; looked over, sections replaced and all sharpened rea be for next year. A little oil on the knife after grinding will prevent rust.。 Tongues may be taken from many
of the larger machines and implements of the larger machines and implements, painted and
hung from the rafters. This saves space, and, especially with heavy machines, saves springing them out of shape.
The farm wagons are very often not considered with the implements, or at least are not stored at they
should be. The life of the average farm wagen should be. The life of the average farm wagon
could be prolonged at least fifty per cent. if it were given the same care that the young man on the place
gives his buggy or automobile. There is no reaso why the wagon should not be kept washed clean and painted once in a while in order to prolong its use-
fulness. A corner of the implement shed where one is being built, or is built, should be set apart for a
little workshop in which a stove is kept, and this
painting painting and repar work done is in the winter.
forge and a few blacksmithing and carpenter Iorge and a few blacksmithing and carpenter to

- will be a profitable investment on most farms.


## THE DAIRY.

Relationship of Feed Consumed to Milk Production.
When some feeds are scarce and all are high in price the question darymen is, are all the cows paying market price
for feed consumed and leaving a fair margin of profit? Evidently the herd as a whole is doing so, or the cows would not be kept, but to arrive at a definite answer by mere supposition may lead one far astray. Circumstantial evidence proves that some cows are much
more profitable than others, but, according to statistics, the value of the product of the average cow in Canada is less than the cost of her feed. If this is the case, where does the cash come from to pay for labor, interest on investment, depreciation in value, etc.? No doubt but that the herd returns a profit or the dairy while some cows are boarders their stablemates are giving good returns for their feed and thus bringing the balance on the right side of the ledger. The profits
would be larger, however, if the entire herd did as well would be larger, however, if the entire herd did as well as the best cow. The cows may all have the same
breeding, weigh about the same, eat an equal breeding, weigh about the same, eat an equal amount give about an equal quantity of milk, but unless th scales are used to weigh the milk during the year it is difficult to determine what the cow is really worth as a milk and butter-fat producer. Furthermore,
it is necessary to use the scales in order to the proper relationship between feed consumed and the milk yield. There never was a time when it was so necessary to conserve our forces as at the present. Labor is scarce, feed and stock are high, and dairy products, are commanding record prices. It must
always be borne in mind that whether a cow be a poor or a heavy milker she requires a certain amount of feed enance


Duchess Skylark Ormsby 124514
World's champion butter cou over all ales and all hrees. Year's reorrd: Butter, 1,506.36 1bs, milk or meat. As yet a very small percentage of dairy-
men are keeping records of their herds, but those who do find that it pays them. There is a vast difference give a considerably to convert feed into milk. Some will amount of feed than others. The scales aid in finding out if it pays to increase the ration. This information
can never be gained by guess work. can never be gained by guess work. No person can
estimate to within two or three pounds the amount of milk in a pail, and four pounds a day for two hundred days comes to eight hundred pounds, or at the present
price of milk, to about fifteen dollars price of milk, to about fifteen dollars.
In order to show dairymen attending the National Dairy Show that it was impossible to estimate the
yield of milk, the butter-fat appearance only, those in charge of the record work average herds of which records had been kept during the past year or two. In fact, the cows appeared a
little above the average in condition but
were only ordinary grades, judging in condition from color. There were only
gas the grade Shorthorn, Jersey, Ayrshire and Holstein. The
old brindle cow was also there. On the manger in front of each cow was a chart showing the number of pounds of milk and butter-fat produced during the last lacta-
tion period, the cost of feed, what it had cost to produce one hundred pounds of milk, and one pound of
fat. The age of the cow was also the date when she last freshened and the value of milk for each dollar's worth of feed on each day of the show. The man in charge gave a lecture on results that have been obtained in this work in different parts of the
country, and by use of the charts emphasized the portance of every dairyman keeping recordsed the im- only
of the milk produced but also of the feed con ond
would be a profitable one would think that pounds of milk and 232 pounds of fat gave 7,55 which is a good deal above the average. However the cost $\$ 82.95$ worth of feed which brought one pound of fat to 36 cents. This shows that the butter-fat content of the milk is a factor to be taken cheapest of any. Her milk weighed 8,445 pounds the taining 346.5 pounds of fat. It cost $\$ 56.92$ to her, which was considerably less than it cost to the former cow which was not as heavy a mil One hundred pounds of milk was produced at a feed ost of 67 cents and one pound of fat at 16.4 cents. the other two cows in the herd averaged up fairly well or dairy products all the cows gave a fair profit over the cost of feed consumed, but there was a difference of about $\$ 52.00$ in the profit made by the best cow and the These figures were taken from the record sheets of cows that represent herds that are a little above the average.
In fact, the cow that gave the least milk gave as much as the average cow of the Dominion, according to the latest statistics. We have reason to believe that there are scores of cows that do not begin to pay for the feed which they consume. If these were weeded out and
the feed which they would consume given to the best the feed which they would consume given to the best
cows in the herd, the average milk yield would be increased and the profits would be considerably higher. It has been proven time and again that the boarder cows cannot always be picked out with the eye. The use of the scales and tester are required. It orily takes a few minutes each day to weigh the milk fro
each cow and record it on a sheet, but the figures wil


THE FARMER'S ADVOCATE.
eauthentic information asto the real value of each cow
and the teed occasionally in order to gain some idea as to what it actually costs to keep each cow and thus enable
ne to figure out the profit. A little experimental one to haure also be done. Increase the concentrate
work may ration a trifle and see iten it will be found to pay to
milk yield. Very of the mik yieid, very ont of grain fed to some cows and to
increase the amount amount fed to others. It is only by
derease the and keeping records
know his. cows.

Always Breed to Improve the Herd. From the appearanoe of many herds the owners
have for years been working along the line of least have for years beenay placed sires at the head of retherds, and there has been an increase in numbers unt a lack of a definite ideal. The individuals in many
buerd are little better than their ancestors were twentyherds are ittle better This is indicated by the very slow five years ago.
rise in the average production of milk and butterfat per cow. looks like slow improvement. However, alonside these average herds are some that were
similar in type, conformation and production 25 similar in type, conormation and production than years ago , of the average cow. Why the vast difference in production? It is largely due to the one breeder having an ideal and evere aneeding conformation and were backed by producing ancestors were placed at the
head of the herd. The result has been that the head of the herd. progeny was generally superior to the sire and no place for hoarders or orf type animals in the herd The other breeder thought more of the dollar in the hand than. of the ear reaching
good sire. While the herd increased in numbers good sire. While the herd increased
the same as the neighbors there was very little improvement in quality or production. The one looked at the breeding business through a long distance lens,
and could see the results of always using sires that came up to a certain standard. He aimed at having
a herd averaging so many thousand pounds of milk a her, averaging so many to to expensive to purchase per year the high producing females, hence the desired re sults were attained by breeding the cows he had to the best sire available. It took longer to reach. the ideal over the route chosen, but it was a satisfaction
to know that each generation was better than the previous one. The breeder who saw only the immediate outlay and returns still has an average herd During the 25 years his animals consumed as much
of the same kind of roughage as his neighbors and now they cost profit.
These same types of men exist to-day, but it is time
that all stockmen realized the value of deciding on breeding one class of stock and constantly im-
proving it through the sire used. It must be re-
 good stock. There are cull pure-breds as well as
cull grades. Along with the breeding must always cull grades. Along with the breeding must
be considered the individuality of the animal. When purchasing a sire to place at the head of
the herd it is folly to allow a few dollars to stand in the way of securing one that has the backing and
individuality that should thaprove the herd individuality that should improve the herd. Twenty,
fifty or even a hundred dollars extra for a bull of the difty or even a hundred dollars extra for a bull of the
right stamp may pay big dividends by the increased right stamp may pay big dividends by the increased
value of the calves produced. It is almost imposible to estimate the value of a good sire. He either
improves the quality of the herd or gives it a set improves the quality of the herd or gives it a set
back, not only for one year but for years to come back, not only for one year but fro years to cone
Every breeder should study pedigrees and know the points to look
in the herd.
The price asked for a high quality bull may exceed the amount an individual breeder cares to invest in one animal. In this case the difficulty has been
overcome by two or three breeders in one neighborovercome by two or three breeders in one neighbor-
hood co-operating in the purchase. The production hood co-operating in the purchase. The production
of many grade herds has been raised from between four and five thousand pounds of milk to between seven and eight thousand pounds oy using only sires
of the right type, quality and breeding. Breeders of the right type, quality and breeding. Breeders
of frade cattle as well as breeders of pure-bred stock
shen of grade cattle as well as breeders of pure-bred stock
should pay more attention to the selection of suitable

## HORTICULTURE.

## Why so Many "Slacks?"

 The telegraphic reports issued weekly by the Dominion Fruit Commissioner have indicated almost apples are arriving in the Old Country markets in a sented and there is is no mention made of the boats being longer than usual in making the voyage. Wemust infer then that the cause i.es in the manner in must infer then that the cause lies in the manner in
whijch the apples had been handled, beginning with which the apples had been handled, beginining with
the picking. There is considerable agitation in the
Western St o pay more attention to the picking and handling to pay more a attention to the picking and handiling
of their fruit. Competitors have improved their growing methods to such an extent that only, by improving on their packages and manner of picking
and handling the fruit can they expect to enjoy a

Tontinuance of superiority in the commercial product. There is no doubt about it; growers almost univers in the apple, and they have improved their cultural and growing methods in order to produce that result.
The time will come when he who wishes to have a The time will come when he who wishes to have a
superior product will be obliged to lay particular superior product will be obliged to lay particular
emphasis on the picking and handling of his fruit. There are certain stages in maturit mere are certain stages in the maturity of every order to obtain the best possible keeping qualitites. Furthermore, the apples must be put into storage of
a suitable temperature as soon as picked, for if left a suitable temperature as soon as picked, for if left
in the orchard and subjected to the effects of sun and in the orchard and subjected to the effects of sun and
dew they are sure to deteriorate. Picking and pack. ing methods have been responsible for a good many "slacks", arriving on the European markets, in the past,, and since the growers have made such strides
in spraying and cultural methods it seems too bad in spraying and cultural methods it seems too bad that more attention is not paid to the handling of
the fruit after it has been produced, at considerable expense, to obtain a superiority and good keeping qualities.

## Remember the Mice.

After last winter's experience many fruit growers, who never considered it seriously hefore, will provide some protection for their young trees against mice.
The damage wrought by this type of vermin was worse in some districts than in others, yet the injury was sufficiently widespread to induce farmers to take more precautions this winter. The circumstance which conduced to this misfortune may not be repeated this season, but still they might. The winter
was long, and a considerable blanket of snow covered the ground late last spring when ordinarily the mice could get ample food in the fields. With this supply,


The Mound Protection Against Mice.
to a large extent, cut off, they made channels to the young trees and destroyed thousands by girdling them
completely. Many of these trees leaved out, as one would expect, but they began to show evidences of inadequate nutrition by the autumn and when the leaves began to fall they showed unmistakable signs on inting
stored up very little material to force them into life again next spring. Some trees lost only their outer bark and except for a slight set-back may survive if canker or other diseases do not attack them at that vulnerable spot. Those that are gone should be marked this fall and replaced with young trees in the
sring. If we do not learn from experiences like spring. If we do not learn from experiences like
these they constitute serious. losses. We can profit by them, however, by adopting preventive measures by them, however, by adopting preventive depredations. Last winter's conditions may not be repeated at once, in any case it is better to be safe than sorry. Less trouble results from this source in orchards case many weeds or a crop grow up in the autumn and case manage the mice to move in search of food, and as the trees are often allowed to stand in a luxuriant growth of vegetation, the mice will find their way to
We believe it would be advisable, so far as possible, to clean away all weeds or vegetation for a possible, to clean away an surounding each tree, for, if the mice when channeling in that direction found no sustenance they would become discouraged and change their course. There are several method whereby the grower can obtain a airl degree or wishumity expend considerable labor and desires no financial expend considerable best system is to clean the weeds
outlay, perhaps the best
and grass away from the tree, and bank it up with one foot. This mound should extend either a foot or a foot and one-half away from the trunk of the tree. The accompanying illustration shows a tree in an orchard near Trenton, Ontario, that was protected last winter in this manner. Unprotected
trees in the same orchard suffered considerably, but it was demonstrated there fairly satisfactorily that the mound of earth affords a certain degree of immunity against mice. To make this practice all the more efficient, the snow should be tramped about the tree after each fall, which method seems to discourage the Perhaps the best way to protect the trees is to wrap them with wooden veneer, which comes very cheaply and is easily applied. An air space should be left between the veneer and the tree and the
former should be secured with twine or some kind of cord. This material also affords considerable pro tection against sun scald. Ordinary building paper, which does not cost a great deal, is very service able. This also should be tied loosely, and the bottom made firm with a slight mound of earth. Tar paper
will keep the mice away but injury to the trunks of will keep the mice away but injury to the tranks o
trees has resulted from its use. It often pays wel o invest in wire netting, which can be wrapped around the trunk where it will stand for years. Formeceny this cost about seven cents per tree but during recent years the value of all kinds of wire has intwelve ant he cost wous twelve cents. at this time.
The mound of earth, the timely tramping of the snow, and the clearing away of all vegetation are preventive measures that will cost nothing but the labor involved, and they are quite efiective. Veneer and ordinary building paper, perhaps incu:
pense but they are slightly more efficient.

## A Grower's Views on Co-operation

editor Tum armer's advocatr. May I congratulate the writer of that article about
the United Fruit Companies of Nova Scotia Ltd., in the issue of August 12, on the fairminded way in which he presents the situation in Nova Scotia? have been in this movement for nine years, but to the conclusion that co-operation at its best, means control by the majority, with majority standarde, and majority methods. I conclude the grower of very poor fruit will do better out of the co-operative move ment as his fruit requires a midare mai who special izes in such a peparate co-operative company which could handle such low-grade stuff to advantage, only, as he is of lessdeveloped mental capacity, he would probably make a mess of his organization. The very good grower may be better out of a company such as the pro not
 extra quality. The medium quality grower is the extra quality, The medium quainy His difficulty in the successful running of a co-operative company is, that abuses grow from such small beginnings, The average men, who are the vast majority insuous, are
co-operative company, dislike to be conspicuol opposed to all disturbers of their peace, and allow such opposed to
abuses to Their methods of reform are nefucient.
belieye co-operation is an effort to cure the wrong distribution of wealth. The evil is that all progress colong to the public, but which at present go to the belong to the public, but which at
private owners of land. $I$ believe Single Tax the best way to free the land for the use of the people and lessen the strain in competing for a living Jobn Buchanan.
Kings Co., N. S.

## Peach Growing in Ontario.

Peach growing in Ontario has been a costly experiment for many, and a profitable investment for some. While there are certain areas in this Province which will produce luscious peaches in great abundance, these areas are limited. Furthermore within those same districts there are certain farms and small sec-
tions where it would not be profitable to plant peaches tions where it would not be proitable to plant peaches.
There are pockets where the frost is likely to injure There are pockets where the frost is likely to injure
the trees or destroy the crop, and in the other places the atmospheric conditions are such that a peach tree will not prosper. Apples will grow over a much
larger area and conditions for the same are not neceslarger area and conditions for the same are not necesisarily so closely defined, but the peach which must
tropical fruit and there are many things when tropical fruit and there are many into consideration before launching heavily into the production of this crop. A builetin entitled "Peach Growing in Ontario" has recently been puiblished by the Ontario Department of Agriculture.
It was compiled by F. M. Clement and A. G. Harris formerly Director and Pomologist respectively at the Horticultural Experiment Station at Vineland. The beginner should study this work before venturning upon an enterprise which requires considerable experience, and the grower of long-standing can derive con-
iderable benefit from it, especially from those depart siderable benefit from it, especialy from, thase depark-
ments dealing with the production, pack ments dealing with the production, packing, and no means a fool-proo enterprise, espocila and thought countre success will accrue to anyone engaged in it.

## POULTRY.

## Profits From a Pen of Barred Rocks.

 editor "The Farmer's advocateSome claim that there is no class of live stock money invested, feed and labor, as do hens; others are positive that there is no money in keeping them, especially when grain is high in price, and, according this fall, while others are going entirely out of the business. If one man can make a profit in keeping
poultry why cannot another? The breed, age of poultry why cannot another? The breed, age of
fowl, kinds of feed, housing and methods of caring for them must play an important part. Chickens for them must play an important part. Chickens in small quarters and all the feed purchased on the conditions, it would a ppeear that poultry raising should be a profitable business on the farm, where free range
is available and feed is secured at first cost. Then, is available and feed is secured at first cost. Then, too, fow on open range secure an ample supply of
green feed and meat feed during the summer. In the winter mangels, turnips, and clover leaves can be
secured $q u i t e ~ c h e a p l y ~ t o ~ s u p p l y ~ t h e ~ g r e e n ~ f e e d . ~ M i l k ~$ secured quite cheaply to supply the green feed. Milk
is highly recommended as a poultry feed, and on is highly recommended as a poultry feed, and on
most farms it is available for the poultry. After the most arms it is available for the poultry. After the
grain is harvested hens and chickens will pick a large grain is harvested hens and chickens will pick a large
Dortion of their feed in the field, thus making use
on that would otherwise be wasted of grain that would otherwise be wasted. However, maximum profit, the complaint is made that there is no money in poultry. The past year or two eggs have but, of course, winter eeggs bring the highest months, True, it costs more to produce eggs in cold weather than during the summer, but it is the hens that lay when eggs are high in' price that make the greatest profit high at the back and seven feet at the front, built twelve birds. According to poultry authorities the However, during the past year the hens laid fairly well and appeared healthy at all times. There is no glass in the building, but on the west and south sides are openings covered with cotton. On warm
days this is raised but is kept closed during the winter.
The birds The birds get plenty of ventilation through the wotton. and as yet not one has had a frozen comb, although time or two. A layer of straw is kept on the floor of the pen and there is a small yard for them to run in, Barred Rock hens are kept and have proven paid their way but have come a long way short of the two-hundred-egg mark. Records of egg production
and feed have been kept since October 1, 1915. At and feed have been kept since October 1, 1915. At
that time the flock consisted of three yearling hens, 77 egos were bid in November only 5 but the numb increased to three dozember only 5 , but the number were laid in January and 15 dozen in February. During these months eggs were fairly high in price, which was in increasing the pront. High-water mark A part of this time two hens were egroding were laid so in reality only ten were working at eggy production During July and August the egg yield kept up pretty well, but dropped to $33 / 4$ dozen in September. The
total for the twelve months was 133 dozen, or 133 eggs per hen. At the average price of 27 cents per chicks were hatched and raised and are worth at lean 60 cents each for the table, but, as the pullets look as if they would soon commence laying, they are
really worth a dollar apiece. However, at the former really worth a dollar apiece. However, at the former
figure the gross returns for the year are $\$ 44.91$, or 33.74 per hen. The feed bill for the twelve hens and net profit came to $\$ 2.10$ which is a good rate of interest on the one dollar invested in each bird. The birds were well supplied with a variety of feeds, although
at times they no doubt would have done better had at times they no doubt would have done better had
more green feed and milk been available. The winter rrain ration consisted of wheat and corn, half and half red in the litter of straw. The rule was to give each
bird a small handful a day. Occasionally a mash of shorts and bran was fed and a couple of times a week rolled oats were fed in a hopper. During the year
about 20 pounds, of beef scrap were fed, and oyster
shell and grit were always kept in the pen. Occasion ally a mangel or cabbage was fed during the winter should have owing to the difficulty in securing it For the summer, corn was dropped from the ration and whole oats substituted. A few rolled oats wer also fed and occasionally a mash of shorts and corn-
meal.
Since the first of July the birds have been on free meal. Since the first of July the birds have been on free
range and were able to procure all the green feed range and were able to procure all the green whe
they desired. Scraps from the table were fed, which possibly tended somewhat to keep down the cost of feed. It is doubtful if this average profit per hen could be made with a large flock. The larger the flock the greater the percentage of poor layers; even with the number of some that others did. It is a difficult problem to pick all high-prodicers, and a large flock seldom receives the same attention that is given to a small one. This flock is considerabiy below the records claimed for flocks of bred-to-lay Rocks. How ever, they laid a goodly number of eggs and it is received more green feed and meat during the winter On the basis of profit which I received it would pay well to keep one hundred hens. But, everyone who keeps fowl cannot. be getting as high profits, else instead of disposing of their flocks, poultrymen would
be increasing them. Feed is higher in price than be increasing them. Feed
usual, but, so are eggs.
Middleser County

## FARM BULLETIN.

## The Dentist.

Farmers are not much given to "dressing up." they wature overalls and jumper jackets, and once the habit of clothes carelessness is fastened on to a man it, like any other habit, is hard to change. Because in overalls fequently see carmers going to town even not a hundred miles from here had toothache. For Convenience we will say his name is John Raft. This aching tooth bothered him for two or three days. alum and saltpetre and cream of tartar and spirits of camphor but all to no avail. Finally he hooked up the geldings and wént to town. He didn't feel ane togging up so he went in overalls, shoe packs
and a battered felt hat. $H$ He put the team in the barn and then went over and fortified his system with a finger or two of gin. From there he walked up and down past the dentist's office two or three times, then swung up the steps two at a time and bolted in through the door. He found himself alone in a small outer office. There was a chair or two and a wall contained somebody's hat. He looked around, then tiptoed towards the outside door. Just then the inner door opened and an anaemic looking individual in a clean white jacket looked out. "Got a
tooth here I want-" "I Ust a minute," tooth here I want-" "ust a minute," said he
the white jacket and disappeared back inside.
Considerable time passed and John was just about to break out when the door opened and a fellow from out his way came out. Greétings over and crop prospects discussed our friend passed inside. "The
dentist waved him solemnly to his big chair. "Go a tooth I I want pulled," said John, "it's aching to
beat all." The dentist sicked that looked like a spoon and went on inside. When he had both hands and his head well in John's mouth
he asked, "Which tooth is it?" John crowded he asked, Which tooth is it?" John crowded a then pried into it with a red hot Johnson bar, dug two outside. This over he picked up the teaspoon looking "Ylass and went all over John's teeth upstairs and down. he said. "Who did it?"" "Oh, two or three fellows," said John. "Most of them real dentists." " The dentist went back inside again for a while would do that kind of work is a disgrace to his pro fession." "I know it," John said, "Every dentist
always knocks the other fellow's work. Now if
you will tell me I have wor different from anything you ever saw before, we can gough wiead and pust of the preliminaries, and, tooth." "Pull, it,"
centist said astonished. "Why, no I dentist said astonished. "Why, no, I won't
I'll treat it for you, kill the nerve and fill
tol "go the is pead."
While the dentist was mixin ranging things, our friend read the various doe and on the walls. The first thing was a dental certificate, and it was dated 1914. "A a two-y yar-old
commented John, and read on. The name commented John, and read on. The name it se
was Percival Algernon something. That "to thint could go anyway. "Lord," Over in front of him a typewritten a name like of that a deposit must be paid on all worl. ${ }^{\text {He }}$ that would be all right in the case of these nighters who worked for wages, bank clerk on, but, of course, it didn't mean him. Why h
enough money tied up in 'implements alo enough money tied up in implements alone
this fellow out several times over, besides couple square miles of ground and eight or he had to pay wheat. It was different with h hat. He pay his debts, his home wasn't under bis the dentist plugged his tooth "Comes and ti to-morrow," he said. "All right", in day "How much money will you want", for "the the tob John' said and went out On the appointed day he was back. He
head over ears in work but he wanted to have
tooth business over with. The dentist the cotton, explored around a bit dentist removed more dope and covered it up with sealing wax. "Come in Monday," he said. John expostulated. "You
said you'd fix it to-day, I can't be running in here every few days, my time's too valuable just now解 tailed to be impressed but looked steadily back again. The dentist removed the John came wax, blew out the hole with hot air then cotton and it up again. "Come in Wednesday at two oclock he said. John began to see red. "Look here can't," "the dentist informed him, "it's not in be filled, needs to be treated again. "Come in whape day," "All right," said John, "you'll "fill it the eh?", "Ye-e-e-s," said the dentist. "If-" "f what?" "We require a deposit on all work befo it is completed- "Great Lord," John near exploded. $\cdot \mathrm{He}$ dived into his pockets and came In a few minutes he was in the bank. "Got hundred dollar bills?" he demanded. They d they had nothing bigger than a twenty. He g one of them and went out. He,spread the mone
on the dentist's desk. "There," he said. "No see if you can fill that tooth." The sealing ammed in. On the way hame silver mixture oo the geldings, said, "Now what in blazes do think of that?

## Graft.

by peter mcarthur.
If a man wants to attract public attention eith in the press or on the platform the most effective subady to listen to or read about "graft" daryases There are supposed to be grafters in every department The plain people feel and in all lines of business upon by innumerable parasites and they talk about it wrathfully whenever a few of them have met together. Because of this widespread interest in t subiect I am glad that I have a new phase of "graft"
to discuss this week You may not like it but $I$ want you to read about it for it gets pretty close to home for a good many of us. While having a heart to heart tall with a Member of Parliament some weeks ago he made a few charges of a kind that he would never
to make in public. As I am convinced that a majoity to make in public. As I am convinced that a majoition
of our members of parliament are in the same position as he is, I. am going to take the responsibility of making the charges for them. It is just possible that we have been less than fair to our representatives in the past peo many of us are inclined to treat them as the Weorywarlds. They elected the poor man to the position of Constable, and then no one would be see speaking to him on the street. After we elect our members with much enthusiasm we begin to how
about graft, and in some cases we "use them for our mirth, yea for our laughter when we are waspish."
But now that I have heard an M. P.'s side of the But now that I have heard an. M. P.'s. side of the
story my sympathies have been aroused, and I want story my sympathies have been arous
to say something in the:r defense.

The member of parliament who honored me with
for him to makc ends meet with the salary he gets. Of course that sounded amazing, for two thousend five hundred dollars a year with free transportation on the railroads should enable an ordinary Canadrall
citizen to worry along comfortably. I naturdly asked him to explain, and this was his answer.
got to say for yourself? You never thought got to say ror would come so near home as that
giting charges would
did your Whe member explained, 1 saw tha did charges were weighty and that he had a real
fins
grievance though he did not dare to say anything
As member of parliament givout it in a public way. As member of pariament
about
or $h$ tiding he is expected to contribute to the prize or his riding every fall fair and school fair that is held.
fund of He is also expected to give liberally to ali charittes,
and whenever there is a collection to pay off a church dets the is expected to come asition. When the boys that is in keepig
organize a base-ball team they touch him for a contribution and when the attend and be-a liberal spender, and he is expected to look pleasant about it too: Whenever
there is need of a chairman at $a$ tea-meeting or concert there is need of his riding he ic expected to iump at the invitain, hare he must bear the expense from his own
or livery hire pocket. When he is at the Capital if a constituent
happens along the member must show him liberal happens a a
hospitality, and buy him mild cigars and expensive
diners at the best restaurants. If you take the dinners at the best. restaurants.
trouble to figure out just what these demands would amount to in a large constitutency each year you
will find that the total is enough to knock the tail feathers out of the sessional indemnity.

The result of this grafting by constitutents is
The seons than most people think. To begin more serious than most people think. To begin
with it keens out of parliament many men who should be there. Some years ago I had a talk with a farmer who had been urged to take the nomination almost riding where hiss elect that he could not afford to give
certain. He explained certain, fervices to the people in this way because the miner who was retiring was a wealthy man who had set a pace in the way or suppor could keep un with that no man ery subscription with a bountiful conHe headed every subscription wis constitutents at least
tribution and expended on his the full amount of his salary. A poorer man elected
to his position would soor find himself despised anid to his position would soor because he could not give
fegarded as a tight-wad as lavishly as had been practically the memory of his free spending has been forgotten will it be possible for a farmer or ordinary citizen accept a nomination

There is another and more sinister side to the situation created by the grafting of constituents on their member. Some time ago a member of parlia-
ment who was critised for owning stock in a corporament who was critised for owning stock to a corpita-
tion protested that in order to live up to his position a member of parliament was obliged to have an income a member of parinament was indemnity. This being true our representatives are exposed to many temptations
Orom
the insidious representatives of big business from the insidious representatives of ob business
who haunt the lobbies of parliament. These engaging who haunt the lobbies of parliament. These engaging gentlemen are always ready to give tips that will
lead to profitable investments, and if the stocks in which investments. are made should be affected at any time by legislatton it would be hard for the logislative investor to give his sympathies to the
piblic welfare. An experienced manipulator of business
and politics once assured me that in all his experience
of parliamentary work he had not met half a dozen members who were open to cash bribes. At the same
time he admitted that he had always found it possible businfluence try
the if wad we to do daway with grafting in the coun-
try home and stop grafting on our representatives. Their salaries are none too large for the services they are keep their full salaries so that they keep their fulb salaries so that they can afford to
steer clear of business entanglements. Just keep this in mind the next time you are getting up a subscrip tion list for anything. Of course, if you ask your
member for a contribution it puts him in the position member for a contribution it puts him in the position
of not daring to refuse for fear of offending you and losing your vote or influence. They should not be expected to give any more than any other well-to-do
citizen, and they should not be approached for such contributions except in the neighborhood of their homes
where they could give like other citizens.

A Great Stock Sale at the O. A. C the The third pubicic sale of pure-bred stock held at October 26 , was an unqualified success in every
particular and seller and buyer were plensed particular and seller and buyer were pleased from
start to finish. The stock offered were a good lot and they brought a fair price. Distributed as the were over Ontario, they should do good to live-stock breeding generally.
The Scotch Short
lot Lady families three of the most noted of the breed Harry Fairbairn, of Thedford, got a good bargain in the choice young bull Proud Augustine, an Augusta rare by Proud Diamond, the College sire. He is a be heard from later Gordon Auld, of Arkell should the choice young four-year-old cow, College Augusta 4th daughter of the former College herd sire now at the head of. Mr. Auld's herd and this year's chamthe highest price of the sale. She is bred in the purple and has gone into good company Ahest in the price list, Augusta O A C 3rd a hig white three-yearold, going to Joseph White, St. Mary's, for $\$ 460$. The Roan Lady bull, Roan Diamond, one of the most promising, youngsters of the sale, a March calf, fell to the bid of Kenneth Mackenzie, Kincardine, at \$340. P. J. McLean \& Sons, Puslinch, got a growthy,
masculine youngster in the Lancaster calf, Lancaster masculine youngster in the Lancaster ceif tell to the bids of J. A. Watt, Talbot Bros,, and Harry Fairbairn, for $\$ 225$, $\$ 325$ and $\$ 825$ respectively. Eight $\$$ Scotch Shorthorns sold for $\$ 2,875$, or an average of
Only three dual-purpose Shorthorns were offered $\$ 130$ they were all small calves. They brought $\$ 70$, There was a choice bunch of Holsteins sold. Boutsje Lad, a son of Boutsje Q. Pietertje De Kol, and Johanna Rue 4th's, Lad, topped the tot at stoo, going to the Kemptville AAticultura seeding and quality, and in
bull in size, substance, bres
double the money, Toitilla Rue was the highestpriced female going at $\$ 245$. Kemptville School
took the bulk of them. They must be congratulated upon getting these good cattle, but at the same time it doubtful whether it is good policy for such sale. Such, in time, may not be looked upon with favor by the individual breeder or buyer. This draft sale is intended to be for the good of the farmers
and breeders. Fifteen Holsteins brought $\$ 2,225$, and breeders. Fifteen. $\$ 148.33$. an average of $\$ 148.33 .1$
Three Ayrshire buil
an average of $\$ 65.33$ calves sold cheap at $\$ 190$, or Three dairy grades brought $\$ 265.50$. One cow selling for $\$ 150$.
average $\$ 48$ shire sows bred brought $\$ 389$, or an average of $\$ 48.62$ each. Twenty-three young York-
shire sows brought $\$ 586.50$ an average of $\$ 25.50$ Five young Berkshire sows brought \$117; an average of $\$ 23.40$
at Two Oxford breeding ewes were knocked down Leicester ram lambs at $\$ 20, \$ 18$ and $\$ 25$ respectithree four Shropshire ram lambs at $\$ 26, \$ 20, \$ 21$, and $\$ 20$ respectively. Total for sheep $\$ 312$, or an average
of $\$ 24$ Two fat steers weighing 1,770 lbs, and $1,750 \mathrm{lbs}$.
respectively fell to the bid of the Live Stock Branch respectively fell to the bid of the Live Stock Branch 11 cents per pound, figuring out at $\$ 449.15$ for the pair. These steers will form part of an educational feature of the coming Winter Fair at Guelph.

The sale totalled 87,725
Following is a list
Following is a list of buyers of pure-bred cattle

## Proud Scotch Shorthorns.

Proud Augustine, Harry Fairbairn, Thedford. Lancaster.Diamond, P. J. Mccean, Pusinch $\quad . . .240$ College Augusta 4th, Gordon Auld, Arkell. ....... 600 Augusta O. A. C. Jrd., Joseph White, St. Mary's... 460 Lancaster Pride, J. A. Watt, Elora...
Proud Lady, Talbot Bros, Rockwood.
Dual Purpose Shorthorn:
o. A. C. Barrington Duchess 3rd., Anson Kirk
O. A. C. Princess D. Darlington 3rd., D. H. Snyder,

Holsteins.
Boutse Lad, Kemptrille Agricultural School....... 400 Morly Rue 2nd., W. A. Mckiilican, Maxyille........ 160
Toitilla Rue, Kemptville Agricultural School:......... 245
Molly Rue O. A. C., Neil McLean, Rockwood..... 130
Mercena Rue Lass, Kemptville Agricultural
Scithoon Rattler's Lass, Kemptvile Agricultural
Toho
Mercena Netherland's Pride, Kemptville Agri-
Molly Pontiac Pride, Kemptville Agricultural
Mercena's Pontiac Pride, Kemptville Agricul. 100
tural School.......................................... 145 O. A. C. Walker, Kenneth Mackenzie._.......... 100
Count Rattler, Pontlac, John C. Brown, Stam.
ford... Toronto, Montreal, Buffalo, and Other Leading Markets.

## Toronto

 Receipts of live stock at the Union Yards,West Toronto, Monday, Oct. 30, consisted f 275 cars, 4,779 cattle, 259 calves, 1,543 hogs, and 4,880 sheep. All cattle active sheep strong. Calves steady. Hog market,
lower.
The fotal receipts of live stock at the
City and Union Stock Yards for the City and Union
past week were:

|  | City | Union | Total |
| :---: | :---: | :---: | :---: |
| Cars | 100 | 8 |  |
| Cattle. | 1,304 | ,700 | 11,004 |
| Calves | 142 | 918 | 1,060 |
| Hogs.. | 1,104 | 12,934 |  |
| Sheep. | 1,562 | 10,923 | 12 |

The total receipts of live stock at
the two markets for the corresponding week, 1915 were as folows:

cattle on sale which was the heaviest
run of the year: despite the large run run of the year; despite the large run
all grades of cattle sold steady to firm. The bulk were of the common to good kind, very few real choice animals being on sale. Choice butcher steers were very much in
and were réadily disposed of at good and were readily
prices. Handy weight butcher heifers sold a little better than the previous week. Good to choice butcher cows
were strong and sold at from $\$ 6.25$ to $\$ 6.50$. Canners and cutters were active and strong, selling at from $\$ 3.75$ to
$\$ 4.50$. Stockers and feeders were much in demand, the hetter class selling à from $\$ 6.25$ to $\$ 6.75$, while a few real
choice lots sold at $\$ 7.00$. Milkets choice ats springers of breed and quality were
and strong and sold at from $\$ 80$ to $\$ 120$ strong and sold aw ral fors.- The calf
for real choice cows. Calve. for real choice cows. Calves.- alie call,
market was slow and dragyy week,
and sold at from $\$ 1.25$ to $\$ 1.75$ lower than the previous week. Lambs wer strong, and active the first of the week,
choice lots selling as high as $\$ 1.40$, The bulk, however, sold at from \$11.2 to
toward the end of the week and sold
25 c. lower. Sheep were much in demand, the better 9c. per lb. Farmers have bought a la
number for breeding purposes. Hogs.
Although packers made a strong Although packers made a strong at,
tempt to lower, the price of hogs
they were not succesful. They quoted weighed off cars at $\$ 10.90$ but had to weighed. $\$ 1.75$ to $\$ 11.85$ and in some
pay
for cho:ce lots they paid $\$ 11.90$. $\begin{gathered}\text { Quotations on live stock.-Choice } \\ \text { heavy steers, } \\ 88.25 \\ \text { to }\end{gathered} \$ 8.50$; good
heavy steers, $\$ 7.50$ to $\$ 8$. Butcher
steers
$\$ 7.75$. and heifers , hoice at $\$ 7.25$ to steers and heilers, choice at $\$ 7.25$ to
$\$ 7.75$ good at $\$ 6.7 \mathrm{to}$ to $\$ 7$ medium
at $\$ 6$ to $\$ 6.50$; common at $\$ 5.50$ to \$5.75. Cowz, choice at $\$ 6.25$ to 86.50 , good at $\$ 5.75$ to $\$ 6$; medium, 85.25 to
5.50 ; common at $\$ 4.25$ to
 and cutters at $\$ 3.75$ to $\$ 4.50$. Bulls,
choice at $\$ .75$ to $\$ 7$. good at $\$ 6$ to
$\$ 6.50$ medium $\$ 6.50$ medium at $\$ 5.50$ to $\$ 6$; common to $\$ 5.75$ to $\$ 5.50$. Fedders, best, $\$ 6.50$ $\$ 5$ to ; $\$ 5.75$. Stockers, light, good to choice, $\$ 6$ to $\$ 6.50$. common to
medium, $\$ 4.50$ to $\$ 5.50$. Milkers and springers, 855 to $\$ 120$. Spring lambs, choice $\$ 11$ to $\$ 11.25 ;$ cull lambs, 8 c .
to $81 / 2 \mathrm{c}$. per 1b. Light butcher sheep, 7 c . to $83 / 2 \mathrm{c}$. per per lb. lb . heavy, fat sheep and bucks
. 61/2c. to $7 \frac{1}{1 / c}$ c. per lb, culls, 2 c . to 5 c . per
lb. Veal calves, choice at 10 c . to 11c. per li.; heavy fat and grassers at 41/40 $71 / \mathrm{c}$.
per lb. Hogs, fed and watered, 811.50 to \$11.60; we:ghed off cars, $\$ 11.75$ to $\$ 11.85$. sows, $\$ 5$ off stags, and one-half of one per cent. government condemnation loss.

## Breadstuffs.

Wheat. - Ontario, according
freights outside - No. 2 winter, new,
per car lot, $\$ 1.68$ to $\$ 1.70$. No. 1 com-
mercial, old, $\$ 163$ to $\$ 1.65$; No 2 com
mercial, old, $\$ 163$ to 81.65 ; No 2 com-
mercial, old, $\$ 1.53$ to 81.56 . No. 3 com-
mercial,
mercial, old $\$ 1.44$ to $\$ 1.48 ;$ Manitoba
wheat (track, bay
wheat (track, bay ports) - No. 11
northern, new $\$ 1.91 / 2 ;$ No. 2 northern,
northern, new $\$ 1.91 / 2 ;$ No. 2 northern,
new, $\$ 1.881 / 2 ;$ No. 3 norther, new,
$\$ 1.8312$ n. No. 4 wheat, new, $\$ 1.75$; old
wid
crop trading 3c. above new crop.
crop trading 3c. above new crop
Oats. - Ontario, according to freights
outside, No. 2 white, 60 c. to 62 c. nominal:
No. 3 , No. 3 white, 59c. to 61c., nominal; Manitoba oats (track, bay ports) - No
2 C . W. $2 \mathrm{C} . \mathrm{W} ., 651 / 2 \mathrm{c}$, according to freights
outside; No .3 C . W., 64 c . extra No. feed, 64 c .; No. 1 feed 64 c
Peas.- According to freights outvide Rye - Aceording to freights outside,
No. $2, ~ n e w, ~ \$ 1.23$ to $\$ 1.25$. Buckwheat - According to freights outside,
Barley
per bushel $\$ 1.05$.
. \$1.07, noy.- Oninal; feed barley, 98c. to $\$ 1.00$, nominal.
Americ
American Corn. - No. 3 yellow, $\$ 1.15$, Flour. - Ont ing to sample, $8785^{\circ}$, inter, new, accord to. Manitoba four-prices at Toronto were: first patents, 89.70 ; second patents,
$\$ 9.20$, in jute; strong bakers, 89.00 in jute: in cotton, 10 c . more.

## Hay and Millfeed.

Hay - New, car lots, track, Toronto,
No. $\mathbf{N}_{\text {per ton, }}^{\$ 12}$ to $\$ 13$; No. 2 per ton, $\$ 10$ to $\$ 11$.
Straw. - Baled, car lots, $\$ 9$ to $\$ 10$, Bran. - $\$ 30$ per ton, Montreal freights middlings, $\$ 34$ per ton, Montrua
freights; good feed flour, per bag, $\$ 2.50$ freights; good feed flour, per bag, $\$ 2.50$,
Montreal freights. Shorts, $\$ 32$ per ton.

## Country Produce.

## Butter.-Creamery, fresh-made pound

 Butter.- Creamery, fresh-made poundsquates selling at 41c. to 42 c per 1 b . squares seling at at 41 c . to 42 c , per b .
creamery solids, 39 c . to 4 c . per lb . dairy, 32c. to 33 c , per llb.; separato
-Eggs, - New-laid eggs in cartons 45 c .
per dozen; fresh eggs, selects, in case lots, 36 c . per dozen. Poultry. - Live-weight prices chickens, 15 c . per lb .; ducks, 12 c . per lb .;
turkeys, 25 c . per lb . fowl, 4 lbs. and
over, 1 lc . per lb .; fowl, under 4 lbs , 12 c .
per 1 lb .
Beans. Hand picked, $\$ 5$ per bushel; prime white, $\$ 4.40$ to $\$ 4.80$, according to quality.
new, 23 c . - per 1 lb .; 24 c . to 25 c . 231 , per lb .; new, 23 c . per lb .; ${ }^{-t w i n s, ~} 231 / \mathrm{c}$. per lb .
Honey. - $60-\mathrm{lb}$. tins selling at 12 c . per lb; glass jars $\$ 1.00$ to $\$ 2.00$ per

## Hides and Staint

City hides, flat 20 c , country hides cured, 19 c ; country hides, part cured,
18 c. ; country hides, green, $161 / \mathrm{c}$. skins, per lb. 25 c c; kip skins, per 1 lb .
22 c. ; sheep skins, city, $\$ 2.50$ to $\$ 3.50$ 22 c ; sheep skins, city, $\$ 2.50$ to $\$ 3.50$;
sheep skins, country $\$ 1.50$ to $\$ 3$; lamb
skins, and pelts, $\$ 1$ to $\$ 1.50$; horse hair, skins, and pelts, \$1 to $\$ 1.50$; horse hair,
per Ib., 38c. horse hides, No. 1, $\$ 5.50$
to $\$ 6.50$. No. 25 to $\$ 5.50$; washed, 42 c . to 46 c . per lb .; wool, re jections, 35 c . to 38 c . per 1 lb ; unwashed, to 9 c .: solids, 7 c . to 6 c .
Wholesale Fruits and Vegetables. Receipts of home-grown fruits and pegetables week, and the quality was quit poor. The imported fruits began to come in in larger quantities.
Peaches came in in very small quanti ties, and sold at 20 c . 25 c . to 40 c . per 6 qts . 11 gts. with a few good ones bringing 75 c . to $\$ 1$ per 11 ats Pears were mostly of the Kieffer variety and sold at 20 e to 30 e per ess bringing 40 c to 50 c . per 11 qts. declined, selling at 25 c . to 30 c . per $6-\mathrm{qt}$. basket.
Crabapples were shipped in small lots, selling at 50 c , to 75 c . per 11 -qt. basket. price, selling at 50 c . to 80 c . per 11-qt price,
Oranges are quite high priced, the
late Valencias selling at $\$ 5$ to $\$ 6$ per case, Jamacicas bringing $\$ 2.50$ to $\$ 2.75$ Califor
Vegetables lemons brought $\$ 7$ per case. prices. Beets sold at 30 c . to 40 c . per prices. bets $\$ 11$ at. basket, $\$ 1.35$ per bag; cabbage,
$\$ 2.25$ to $\$ 2.50$ per bbl.; carrots 30 c . to 40 c. per 111 -qt. $\$$ basket, carrots 30 c . per bag; cauliflower $\$ 1$ to $\$ 2$ per dozen;
celery, 25 c, to $30 \mathrm{c} ., 40 \mathrm{c}$.
to $60 \mathrm{c} .$,
75 c . celery, 25 c , to $30 \mathrm{c} ., 40 \mathrm{c}$. 40 poc., 75 c .
to 90 c per doze, $\$ 4.75 \mathrm{per}$ case;
onions, Spanish, $\$ 4.75$ per case, American $\$ 3.25$ to $\$ 4$ per $100-\mathrm{lb}$. sack; parsnips, 40 c . to eOc. per $11-\mathrm{qt}$ basket.
Potatoes advanced wick Delawares selling at $\$ 2$ per bagper bag.

## Montreal

Cattle were ${ }^{\text {t }}$ in fair demand on the
local market last week but supplies were limited. Choice stock was particularly scarce practically none bcing
offered. at around $71 / 4 \mathrm{c}$. to $71 / 2 \mathrm{c}$. per took place fair stock sold at $61 / 4 \mathrm{c}$ c. to 7 c . and common steers as low as $51 / 4 \mathrm{c}$. per tb. Butch-
ers cows showed little change, the price ranging from $41 / 2 \mathrm{c}$. to $61 / 4 /$ p. per 1 lc .,
while bulls ranged from 5 c . to $61 / 2 \mathrm{c}$ while bulls ranged from 5 c . to $61 / 2 \mathrm{c}$.
There was a very good demand for canning cattle, and packers cleaned up
the market at $43 / 4 \mathrm{c}$. to $51 / 4 \mathrm{c}$. for bulls and $33 / 4 \mathrm{c}$. to $41 / 4 \mathrm{c}$. for cows. Choice
millch cows were in good demand and prices ranged from $\$ 100$ to $\$ 110$ each. and offerings were none too firm and offerings were none too large. per lb., while Quebec sold at $93 / 4 \mathrm{c}$. to
10 c . and sheep ranged from $63 / 4 \mathrm{c}$. to $71 / 2$ c. per lb. Calves were in good demand both for local account and for
export to the United States and price ranged from 9 c , to 10 c . per 1 b . for choice, while fair to good stork sold
at 5 c . to 8 c . and commonat 4 c . per 1 b . Lambs were also in good demand for
export to the United States. The price of hogs, strengthened, choice lots
selling at 113 , to 12 c . per 1 b . and fair selling at 113 íc. to 12 c . per lb . and fair
quality at $11 / 2 \mathrm{c}$. to $113 / 4 \mathrm{c}$., weighed off cars.
Horses.-Declers state that almost
nothing is going on in the horse market

Lumbermen are interested but thetrouble
seems to be that they seems to be that they cannot get suffi-
cient men to go to the woods. Prices were:-Heavy draft horses, weighing
$\mathbf{1 , 5 0 0}$ to $1,700 \mathrm{lbs}$. $\$ 200$ to $\$ 250$ each: 1,500 to $1,700 \mathrm{lbs}$. $\$ 200$ to $\$ 250$ each;
light draft, weighing 1,400 to $1,500 \mathrm{lbs}:$; light draft, weighing 1,400 to 1,500 lbs:.
$\$ 150$ to $\$ 200$; small horses $\$ 100$ to $\$ 125$ each; culls $\$ 50$ to $\$ 75$ each; No choice but these are worth $\$ 200$ to $\$ 250$ each Dressed hogs. - The market for dressed hoge was quite strong during the week and prices advanced in sympathy with
the market for live. Fresh-killed Abat-toir-dressed stock
Potatoes.-The market for potatoes was very strong last week and prices were exceptionally high for the time
of year. Supplies were barely moderate of year. Supplies were barely moderate
and. sales of Green Mountains took place at $\$ 1.70$ per 90 lbs . in car loads ex-track, while Quebec potatoes sold
at $\$ 1.60$. Smaller lots bring 20c. more Maple Syrup and Honey.-The market prices were 90 c was fally strong and prices were 90 c . to 95 c . per 8 lb . tin; $\$ 1.25$ to $\$ 1.50$ for 13 lb . tins. Sugar was 13 c . to 14 c . Honey was not very active but prices held firm at 15 c . per
lb . for white clover comb; $121 / 2 \mathrm{c}$. to 1b. for white clover comb; $121 / 2 \mathrm{cc}$. to
13 c . for white extracted and for brown clover comb. Buckwheat honey was Oc. to 10c. per 1b.
dearer almost each week scarcer, and were unusually hard to obtain. They this being for strictly new per doz., 48 c . and next grade sold at about 45 c ., while No. 1 selected were steady at 38 c . : No.
1 candled-at 34 e . and No- 2 cander 30 c 1. candled-at 34e and No- 2 -candled 30c.
Butter-The market for creamery Butter-The market for creamery
advanced once more, and the statement advanced once more, and the statement paid in the country has been realized. Meanwhile wholesale quotations on finest creamery were $401 / \mathrm{c}$. to 41 c .,
fine grades being $1 / 2 \mathrm{c}$. below and underfine grades being $1 / 2 \mathrm{c}$. below and under-
grades 39 c , to $391 / 2 \mathrm{c}$. Dairy butter anged from 31c. to 34c. white sold at 22 c . and No. 2 at 21 11-16c. Quotations for finest Western colored were $221 / 8 \mathrm{c}$. to $221 / 4 \mathrm{c}$., white being.
22c. to 2218 and Eastern white $1 / 8$. 22c. to
below
Grain.-Wheat has been going to in locally at all. Oats also advanced and No. 1 Canadian Western sold at $671 / 2$ c.; No. 2 Canadian Western at $663 / 4$ C.; No. 3 Canadian Western 65c
and No. 2 feed $641 / 2$ c. per bushel, ex-store Flour. -This market advanced once more and new high record price were again quoted. Manitoba first patents
were $\$ 9.80$; seconds $\$ 9.30$; strong bakers $\$ 9.10$ per barrel, in bags. Ontario winter wheat 90 per cent. patents sold
at $\$ 8.90$ to $\$ 2.20$ per barrel, in wood and at $\$ 4.25$ to $\$ 4.40$ per bag.
Millfeed.-Prices were very firm but
unchanged. Bran was $\$ 28$; shorts $\$ 31$ unchanged. Bran was $\$ 28$; shorts $\$ 31$;
middlings $\$ 33$; pure grain mouille $\$ 38$ middlings $\$ 33$; pure grain mouille $\$ 38$
and mixed $\$ 36$ per ton, in bags. and mixed $\$ 36$ per ton, in bags.
Baled Hay.-The market for baled hay was unchanged at $\$ 13$ per ton for
No. 2; $\$ 11.50$ for No. 3 and $\$ 10.50$ for clover mixed, ex-track.
Hides.-Reef hides advanced 1c. per 22c. per lb. for No. N. Calf skins were lamb skins jumped to $\$ 2$ each. Horse
hides were $\$ 1.50$ each for No. $3 ; \$ \$ 2.50$ for No. 2 and $\$ 3.50$ for No. 1 . Fine
tallow was 8 c . and rough $21 / 2 \mathrm{c}$. per lb .

## Buffalo.

Cattle-Offerings of cattle at Buffalo ing into consideration that the supply lightish and medium kind of half fat cows, trade was regarded as being very
satisfactory. Market ruled fully fifteen satisfactory. Market ruled fully fifteen
cents to a quarter higher on shipping steers, and this advance was noted on
the real choice butchering steers and heifers. There were around twenty
loads of shipping steers and they were mainly Canadians, best of which sold
from $\$ 8.60$ to $\$ 8.85$. Best native Irom $\$ 8.60$ to $\$ 8.85$. Best native steers,
that were on the medium weight order, ran from $\$ 9$ to $\$ 9.25$. Very few handy
weight steers sold above $\$ 8.25$, but the
demand was strong all week for the demand was strong all week for the
well-finished kinds. On stockers and
feeders, the demand was strong for
the fleshy, good quality feeders and good quality yearling stockers, but a very
common kind of stockers were slow sale; general trade, however, being quoted about steady. Feeders weighing up to eleven hundred were quoted up to $\$ 7.50$, but the general prices on the class of feeders coming were from $\$ 6.75$
to $\$ 7.25$ for the best, with the little common kinds down to a nickel, of colors selling even lower. Bulls brought good strong prices, the wide range being from $\$ 5$ to $\$ 7.25$. Milchers and springers sold at firm prices, the choice kinds being
in especially good demand. Receipts for the week totaled 6,450 head, as against 6,725 for the preceding week, and 8,075 for the corresponding week last year. Quotations:
Shipping Steers.-Choice to prime
natives, $\$ 9.50$ to $\$ 10.25$; fair to good, natives, $\$ 9.50$ to $\$ 10.25$; fair to good,
$\$ 8.25$ to $\$ 8.75$; plain, $\$ 7.50$ to $\$ 8$; very $\$ 8.25$ to $\$ 8.75$; plain, $\$ 7.50$ to $\$ 8$; very
coarse and common, $\$ 7$ to $\$ 7.50$; best Canadian, $\$ 8.40$ to $\$ 8.65$; fair to good, $\$ 7.50$ to
to $\$ 7.25$.
Butchering Steers. - Choice heavy,
$\$ 8.25$ to $\$ 8.50$; fair to good, $\$ 7.50$ to $\$ 8$ best handy, $\$ 7.75$ to $\$ 8.50$; fair to good; $\$ 6.75$ to $\$ 7.50$; light and common,
$\$ 6$ to $\$ 6.50 ;$ yearlings, prime, $\$ 9.50$ $\$ 6$ to $\$ 6.50$; yearlings, prime, $\$ 9.50$
to $\$ 10.25$; fair to good, $\$ 8.50$ to $\$ 9$. Cows and Heifers. - Best handy butchering heifers, $\$ 5.75$ to $\$ 6.25$; light and common, $\$ 5$ to $\$ 5.50$; best heavy
fat cows, $\$ 6.75$ to $\$ 7$; good butchering fat cows, $\$ 6.75$ to $\$ 7$; good butchering
cows, $\$ 6$ to $\$ 6.50$ medium to fair, $\$ 5$ to $\$ 5.50$; cutters, $\$ 4$ to $\$ 4.50$; canners, Bulls.-Best heavy, $\$ 6.75$
good butchering, $\$ 6.25$ to $\$ 6.50$. good butchering, $\$ 6.25$ to $\$ 6.50$.
Stockers and Feeders. Stockers and Feeders. $\rightarrow$ Best feeders
$\$ 7$ to $\$ 7.15$; common to fair, $\$ 5.25$ to $\$ 5.60$; best stockers, $\$ 6.50$
common to good, $\$ 5$ to $\$ 5.50$
Milchers and Springers.-Good to
best, in small lots, $\$ 80$ to $\$ 100$; in car best, in small lots
loads, $\$ 70$ to $\$ 75$

$$
\begin{aligned}
& \text { Hoads. -Trade } \\
& \hline
\end{aligned}
$$

Hogs.-Trade last week, notwithstanding that the supply was the heaviest this season, was good. On the open-
ing day, with close to 21,000 head on sale, prices were held steady, great
bulk of the crop, which ran light bulk of the crop, which ran light,
selling on a basis of $\$ 10.25$. Several selling on a basis of $\$ 10.25$.
decks, however, that carried
more weight than the general run of stuff, weight than the general run of Ptuff,
brought from $\$ 10.35$ to $\$ 10.50$ Pigs were lower, selling mostly at $\$ 9.50$, Tuesday a few heavies reached up to
$\$ 10.60$ and $\$ 10.75$, and other grades $\$ 10.60$ and $\$ 10.75$, and other grades
were but little changed; Wednesday's market was steady to a nickel higher; Thursday's market was strong, and Friday, under a 75 car supply, values went off 10 to 15 cents. Friday's top was $\$ 10.40$, 'though had any heavies $\$ 10.50$, if not more. On York-weight grades sales were made from $\$ 10.25$ mostly at $\$ 9.50$. Roughs sold good, bringing around $\$ 9.50$ and $\$ 9.60$, and stags $\$ 8.50$ down. Last week receipts
reached approximately 46,500 head, as compared with 37,310 head for the week week a year ago.
Sheep and Lambs.-Market occupied a favorable position last wèek. Monday top lambs sold mostly at $\$ 10.75$; Tuesday
bulk landed at $\$ 10.65$; Wednesday values were a dime higher; Thursday Friday buyers got the bulk at $\$ 10.85$. Cull lambs sold strong all week, best
ones bringing from $\$ 9.50$ to $\$ 9.75$ ones bringing from $\$ 9.50$ to $\$ 9.75$,
with skips as low as $\$ 7.50$. Top for yearlings was $\$ 9$, and wether sheep,
although none were here, were although none were here, were quoted
around $\$ 8$. Bulk of the sheep receipts were ewes, and the best ones sold from
$\$ 7.25$ to $\$ 7.50$, with cull sheep $\$ 5.50$ down. Receipts last week were 23,300
head, as against 16,659 head for the head, as against 16,659 head for the
week before, and 25,200 head for the same week a year ago.
was the most unsatisfactory that sellers have witnessed for a long time back. The week started with top seling at
$\$ 11.00$, and culls $\$ 9$ down. Demand after Monday continued light and for the next four days sellers were unable
o 0 advance prices, trade being slow at that. Fleshy calves with weight sold
from $\$ 6$ to $\$ 8$, with. some on the vealy order fetching up around $\$ 9$, and
grassers, as a rule, went from $\$ 5.50$ grassers, as a rule, went from $\$ 5.50$
down. Receipts last week were 2,850
head, being against 2,691 head head, being against 2,691 head for the
week previous, and 2,300 head for the
same week a year ago.

Cheese Markets.
 sheep.
si11.15.

## Gossip. <br> Sale Dates.

Nov. 8,-Western Ontario Consign-
ment Sale Co., Fraser House Stables,
London, Ont., Shorthorns. Nov, 9-W. H. Littlefield, AberdeenAngus, Brath Dec. 13,-Oxford District Holstein
Breeders'
Club, Woodstock, Breeders
Holsteins.

## Coming Events.

Nov. 21.-Ontario Vegetable Crower Toront
Nov. 22 and 23.-Ontario Hor
cultural Association Convention, Parl ment Buildings, Toronto Dec. 1 to 8.-Ontario Provincia Winter Fair, Guelph, Ont. Dec. 2 to 9.-International Fat Stock Dec, Chicago, 111 .
Dec. 8 to 9 .-Toronto Fat Sto

Cedar Valley Farm Sale.
Cedar Valley Farm is offering
auction on November 9 a number registered Aberdeen-Angus cows heifers, some of which are of the Larl Farm breeding. A Percheron stall several Standard-Bred mares, and $f$
Welsh ponies are also for sale farm is located at App's Mills, the Brantford. See advertisement in other column of this issue, and
further particulars write W. H. Lit further particulars write W. H.
field, Kerby House, Brantford.

The London Sale of Shorthorn Breeders desirous of securing Short horns, males or females, canno alifor ment Sale Company's big auction sale About eighty head, bred in the purple
will be sold. Nearly everything offere in males is Nearly everytning ofres and practically all the females are young; many are bred and all are guarain
teed to be breeders. Almost without exception noted Shorthorn families appear in every pedigree. The breeding
is right, the individuals are right, and whether you want to buy or noty should attend this sale. The place is
the Fraser House Stables, London: The date is Wednesday, Ngember 8 and the sale commences at 12,30 . For information regarding catalogue, teram etc., write Harry Smith,
Secretary of the sale.

Farmers who have choice stock market shortly would do well to enti Stock Yards, Toronto, Decemher
and 9th, 1916, and secure some of th market price of their animals. show has been coming to the from very rapidly and carries the best
largest exhibition of fat butcher in Canada and this
be better than ever.
Cattle.-Beeves, 86.60 to $\$ 11.55$. feders, $\$ 4.65$ to 87.79 .50 ; stochere and $\$ 3.35$ to 89.50 ; calves, 87 to to 811
Hogs-Fi.vi





Japan's Now Premier.
Lieut: Geeeral Count Terachit formerty Minister War. Hire the anmy and the bureaucrate.
tulamhoto international Film Service.

## The Sound of Rain.

 by madison cawein.Upon the heath the winds are laid; and starkly their gaunt heads stifly massing,
Unmoving, stone-like, save when sóme Stirs one passing hoak their stalks that

And Heaven and Earth are grayly Mist-bound in one; the twain no more divided;
As when two friends having, in grief, Each cone forgets his sorrow in the Now to and fro the thistle's plumes are And withen; the rush of rain the hush Like a loud answer to a look replying. One hears the wild rain whirling, and Wind-whipt and torn, thin in the tempest And quiristle, unutterable fills the breast
with sighing. - Scribner's Magawith sighing.
zine.

## Among the Books

The New China.
["The New China," by Henri Borel,
T. Fisher Unwin Pub. Co., London, Eng.]
A few years ago, in conversation whith the writer of this review, Bishop White, of Honan, expressed the strongest
admiration for the Chinese as a race, and both regret and indignation that the people of Western lands have con-
tinued so long to look upon the East tinued so long to look upon the East
with indifference if not contempt. "You people seldom meet the the best "You people seldom meet "the best
class of Chinese," he said, "but you
must admit that even the class which must admit that even the class which
you do see compares favorably with the similar grade among Western races." men, etc., who are commonly seen in our streets, are almost invariably industrious, quiet, , a aw-abiding. True, one
hears occasionally of a police raid on a hears occasionally of a police raid on a
fan-tan "dive," but are there not many lan-tan "dive," but are there not many
"dives" among our own people in which
games just as questionable as fan-tan are played,
ever, raided?

China slept. After reaching a state that of Europe in the same day, at a
time when America was inhabited by time when America was inhabited by
fierce roving tribes, China slept, for fierce reving tribes,
many centuries serene,
tema proud, temptuous
Yes, the day came 'when the drows giant turned, opened eyes upon the progress of the West, caught a vision,
sat up, then rose to his feet and stretched sat up, then rose to his feet and stretched
forth eager hands. He might despise the forth eager hands,
"foreign devils," but he recognized that even they had something which he lacked. He would assimilate that something, yet he would keep his be the East still, enriched and broadened Perhaps, as. Mr. Borel argues, in "The
New China," was the thunder of the apanese guns that stiked the brooding, yellow people to national consciousness.
continuous continuous and irritating aggression
of the "barbaric" foreigners- French, German, British and Russian. Per haps progress was in the air and in-
cannated itself in a few leading spirits. Or pethaps, with the turning of the cycles of history, the time had come for the great Orient to loom once more
to the forefront of things. At all events China is awake, and that fact must be recognized by the nations
of the world. Not a drowsy, nonof the world. Not a drowsy, not
progressive horde of people, but a great progressive horde of people, but a great
nation must be considered, a nation so clever and so acute-yes, so mystic, so clever and so acuter incorprenesibibe as to
so remote, so inct require the best minds and the most far-
seeing diplomacy to deal with it. Kip seeing diplomacy th deal with to the
ling struck, perhaps, closer to mark than anyone else ${ }^{\text {a }}$ when he sang And never the twain shall meet," and yet the attempt must be made The inscrutable East must be understood. To quote from Mr. Borel again (and he is only one of many who have of late years, devoted "herr attention long the Eastern question will determine the politics of the world. Peking and Tokio will become, within measur-
able time, the great centres of international politics.

## The Mistake of the West.

It is not speaking too sweepingly meets us of the West as soon as we really begin to study the Orient, is our own cocksureness-smugness, if you will. Ashamed of it as we may well be, we must admit that to the great majority of us "the Chinese,
been "Chincks," their religion a crass idolatry, their nationality a wateridolatry, their catch up. We Am America and We have have been ceive And yet,-to our everlasting dishonor we must admit it-we have not scrupled to take. Our merchants and adventurers have gore to chaina and have expred the contemptChinese, sharpness of Western "business methods." Soldiers from half the countries of Europe have marched upon
Chinese soil and "'annexed" a slice, Chinese soil and annere now Wei, Port Arthur, Hongkong, Talienwan, Tsing Tau, and other places whose names linger in the hearts of the Chinese as Alsace-Lorraine in the hearts of the French. in which England forced the importation of opium upon
retrieve the blunder), the war of France German aggression, the looting of Perman aggression, the looting not orgotten. Nor, even in smaller things have the methods of the West recommended us to Chima. Even to-day precious works of Chinese art are only tourists by placards threatening rigorous prosecution-a course forced upon the Chinese when they saw their ancien statuary mutilated, their painted hang ings torn to shreds, and their finest marbles marred by the scrae trotters.

- Our missionaries, too, supposedly men of God," have not always possessed the tact and insight necessary
to their high calling. Too often insuffiiently educated, although sincere men, they have ruthlessly burled aside everything precious in Chinese theology, failing to see that even to the sage of China has been granted some degre revelation;-and there Claristian communitie have been Fotmed; now and again insurrections against the "foreign devils" have broken out; but on the things closest to his
heart the Oriental keeps an impenetrable heart the Oriental keeps an mpenetais.
silence. To the credit of the missionsilence. To the credit of the mission years they are proceeding along a more reasonable way. "The best of them, said a noted Toronto clergyman not
long ago, "now recognize that the long ago, "now recognize that the
East has something too. They seek East has something too. They seek
to understand and assimilate that something and build upon it. They feel that while they have much to give the East, the They seek but to supply
give the Wes.
the key-note and blend all in one give the West. They seek but to supply
the key-note and, blend all in one
grand, sweet song,'


## Mr. Borel's Account.

That while we of the West have much to give the East, the East, in spite of a greal deal this is the theme that runs through the whole of Mr. Borel's very interesting book, "The New China." Mr. Borel is, it must be noted, an artist and a mystic, and his book contains a few paragraphs that wiel practical as mere "moonshine;" unquestionably his attitude is to keep his eyes open to the beautiful rather than the ugly, and so he passes over mex the most practical China; yet. even the philosophy is, on the whole, far-seeing. Leaving that aside, his descriptions of China in transition are invariably fascinating. And he knows che spening many years in the southern provinces,
he went to the Dutch East Indies as official Chinese interpreter, and while there made a translation of the works of Confucius. After fifteen years he returned again to China and travelled northward changes brought about in so short a time, he was inspired to write "The New China," and the book was finished shortly before the famous revolution and the establishment of a republic in the great Celestial empire. OO-day Newer China," but this has been the work of other hands. Nevertheless work "impressions" stili stand among the most delightful written of that most interesting time in the history of the
empire-the time which saw fhe first empire of the great modern movement.

A Train-de-Luke.
The first "shock" came to the writer when, in rentsin, he boarded a train-de-luxe railway coach en route for cushioned seats, electric fans, polished brass, even a saloon with easy-chairs

Colonel Swinton, of the British Army.

and broad windows. "I sat wondering," he says, "whether I were dreaming,
half believing, half doubting if I were not beguiled by sleen"." He was on the way to "Peking, the holy, the mysterious," to the great "Forbidden
City, in a train that might have been Paosing through the heart of France, at a Chinese landscape I less than
ten- years before, the journey would tenv years before, the journey would
have been taken tediously in four to. five days of steamboat misery on
the Pei-Ho; now it was being covered the Pei-Ho;" now it was being covered
in three hours;- yet through the windows could be seen the familiar old scenes, full of Chinese quaintness: the clay houses where played plump Chinese
babies, already babies, already wrapped in their autumn
clothes, with here and there the droll clothes, with here and there the drol
writhing dragons over buildings where froated a yellow Chinese flag "-The old scenes and yet not the old scenes, for presently the train speeds past
an open field where soldiers are drilling, an open field where soldiers are driling
modern looking soldiers in klhaki-but modern looking soldiers
they are Clinese. "T flew past in dumb years ago seated says, "I who, fitteen years ago, seated on my pony, hared to Ade into their ranks and break them. Ancient China despised war and
the soldiery. Do these manoeuvres of spruce, ikhaki-clad youths denote evolution? Or has China been forced into militarism to protect hersell? Will all the world one day return to the wisdom of ancient China in this
respect, so that war shall be no more? respect, so that war shail be no morer
Will China, with her population of over $400,000,000$ ever wage a war or agression? -Or will she become a power beneficent, in the economy of the Universe?
The traveller is somewhat disappointed at the disappearance of old romance, here and the not have been too hopelessly modernized. He is filled with excitementl And he gives us the
picture which rushes upon him as he picture which rushes upon him as he approaches the borders of the city: yellowish-grey plain? Walls, walls, grim yellowish-grey plain? Walls, wals , , orimgh them. How high, how grey with the darkness of centuries! This is as old as Babylon, as Jericho, as Nineveh!
These are the mighty walls of an enThese are the,
chanted city!',
chanted city!
Now massive,
Now massive, projecting square
bastions appear, and, dlong the foot of the walls, houses begin to cluster, City This "outer surbs, of the Imperial City. This town" seems to be with-


$\qquad$

 Fear thou not: O Zion, let not thine
hands be slack. The LORD thy God
is io is in the midst of thee, a Mighty One
who will save: He will reioice over the with save, He will be rejonte over
then His.
love.-Zeph. 3:16, 17 (R. V. margin). And year by year be tarrieth; little need
The Yord should hasten: whom He loves He seeks mot not oftenest, nor woos him But by denial quickens his desire, And in forgetting best remembers him,
Till that man's heart grows humble, Till that man's heart grows humble, and reaches out
To the least glimmer of the fet of God,
Grass on the mountain tops, or the crass on the mountain tops, or the
of wild firds in the hush before the Yesterday I was talking to a womann
who has grown swiftly in strength Who has grown switly in strength
and beauty of soul since the saf day
not many months ago-when she renot many months ago-when she re
ceived a message from Otawa announc cived a message irom Ottawa annourl
ing the death in action" of her only son Day by lay she had praved
with all her heart for that lad's safety: with all her heart for that lad's safety;
and now she is praying, with undimmed and now she is praying, with undimmed
trust, for the safely of other mothers' trust, for the sately of other mothers'
sons. Those who do not know the Love
of God may say despainow in What good comes of our prayers? ") course,
if we only believe in prayer when cod like a fond parent pives when everything One of the Mines Found Aboard a
German "'U"'Baat Captured
by the British. Internatio British.
to trust Him even if He should allow One dearer than oursclves to to be slain.
Silence is often a proof of deepest confidence. Perhaps you have a friend who writes very often to you. If, for
a few months, no letter arrivec youl grow anxious, and think: "Can I have
offended my friend? Perhans she doesn' offended my friend? Perhaps she doesn't
care for me any more. "There is little joy in a friendship that requires to be
continually propped up. You have


French Shells Dig Big Holes

Fashions Dept． Order by number，giving age or
measurement as required，and allowing measuast ten days to receive pattern．
at leasta in which issue pattern ap－
Also state peared．Price wo numbers appear for TERN．suit，one for coat，the other for skirt，thirty cents must be sent
Address，Fashion Department，＂The Farmer＇s Advocate
zine，＂ zine，name when ordering patterns Many forget to do this Postively no patterns will be sold
15 cents each，regardless of date published，owing to advance in cost of same． When ordering，please use this form：－
Send the following pattern to： Name．．．．． County．． Province． Number of Patteri
Age（if child or misses＇pattern） Measurement－Waist．．．．．．．．．．．Bust
Date of issue in which pattern ap耪


8932 （With Basting Line and Added 8806 （Wi h Basting Line and Addct




8845 （With Basting Line and Added

## Current Events

The Provincial Board of Health is taking special precautions to prevent
the spread of infantile paralysis in Ontario．
Premier Borden issued an earnes appeal for recruits to serve in every 9148 （With Basting Line and Added
Seam Allowance）One－Piece Dress for
Misses and Sma！l Women， 16 and 18


Great Britain has now ready to be launched 12 super－Dreadnoughts，the
most wonderful war vessels ever set
a foat．Four of them are equipped $^{\text {for }}$ ． a foat．Four of them
with twelve 18 －inch guns．
A referendum on conscription was
begun in Australia on October 2 Qth．
At time of going to press heavy rains are retarding operations on the
Somme，and little but artillery activity
is reported，but earlier in the week is reported，but earlier in the week
the French in the vicinity of Verdun
andured Fort Douaumont（which had captured Fort Douaumont（which had
been in possession of the Germans since the 24 th of May）taking ove
5,000 prisoners．At present Roumania
is the chief center of interest，as the 5,000 prisoners．At present Roumani
is the chief center of interest，as th
situation there is somewhat critical stuatoun the Russo－Roumanian force
Although
have succeeded in holding Gen．vo Falkenburg back along many points on th
Transvlvanian front，and have won impor Transvlvanian ront，and have won mport
ant victories along the Moldavian frontie
and in the southern passes，they hav not had as great success in the Dobrudja， where von Mackensen is now advancing
along．a line extending from the Black along．a line extending from the Black
Sea and the Danube．Almost a fort－ night ago he succeeding in taking Con－
stanza，an important Roumanian port stanza，an important Roumanian port
on the Black ．Sea，and subseruently
ond broke through＂Trajan＇s Wall＂（a great
embankment built by the Emperor
Traian about the end of the first century Traian about the end of the first century
of the（hristian era），gatined control of of the（hristian era），gained control of
the railway and of hr great bridge over
the Danube，which，however，was
practically destroyed by the retreating
 Roumana
possille，and during the last few days
I2s French and 4 British aeroplanes or scouting ！！urposes have arrived at The Real（Ine－at lady comploying ai andorel man asked his name．Mah

The Ingle Nook.


Public Speaking With the coming of winter, Literary and ${ }^{\text {D }}$ ebating Societies spring, up every-
where, apparently as spontaneously as wheres apparently as spontaneously as
mustroms in a pasture field, and cer-
tainly they cannot be too cordially tainly they cannot be too cordially the young people," are encouraged to
"find themselves, not only to think but to themselves, not only to think on their feet and say what
but
hey think, is well worth while but to stand on their feet and say what
they think, is well worth wire. The
forns may be wating, not much that
counts may be said for the first, few counts may be siid for the fifst, few
noonth, but what of that?
jeen taken in the right di step has month, but what of that? A step has
been taken lin the right direction, a
beginning has been made, and who beginning has been made, and who
can say what the ultimate end may be?
For the little literary Society or For the little Literary Society or
Debating Club held Tin Che nearest
village or in the tural schoolhouse illage or in the rural schoolhouse
not a mere deviec for a pasing a
vinter's evening it in
chool that trains- for the nationg's
 who are now earnestly or humorously
discussing the the relative atvantages of
"Reading" and "Observation," or buildgg plats, even in the air, in regard to Howed our community might be imCouncillors, and Ray be, persuredly,
Members of Parliament of our country. Of what value to them then the habit full of people Many and many a mann
who can think. logically, wisely and forcefifity, is otigeg, every day, oto sit
dumb, like an unthinking beast, simply because he an unthinking beast, simply ing his own voice in puiblic. He is awward and self-conscious. Words,
will not come fuenty, let alone"
eloquently. Even ideas tale flight eloguently, Even idens take flight.
As a result the poor stammerer passes, among strangers, for a nincompoop,
and onl hlis. friend and neighbors
know him for whet he is, a sane and clear thinker who should, be, were he
not handicapped, a greater force than he is in his community and his country.
Of course, there are a few men orators, and not amicted with shy bess who when they think a thing can say it,-but we
vast multitude.
begin too sign that in nearly all of our public schools to-day children are taught to
stand up and express themedve stand up and express themselves, even
to give little talls or "speeches, time to time. For public speaking is
tise not an easy thing, even when given the the
best chance possible. It demands persistent training. "No great orator
has ever lived," said Iord Duferin in Belfast some time ago, wwho did not feel I have often seen the legs of one of the most effective and heart-stirring speakers assembly never failed to to whom thaten, shate
like an aspen leaf during the delivery of the first few sentences of his speech;
and should the young speaker feel his tongue grow twice too long, and curl
itself inextricably round one of his canine teeth, he may console himself
with the conviction that he possesses one at least of the characteristic quassesses
of a grea
of speaker."
ord himself was always nervous about
speaking, it is said and the thought of
having to speak lay heavy on his mind having to speak lay heavy on his mind
beforehand, as it did upon that of the
亚 great orator John Bright, whose friends
always knew, from his mayner, wnew, from his, preoccupied
mene was likely to deliver
one of his great orations. One of the one oest oraters in this. Country con-
greates
fessed, not long ago, a nervousness so great that it was likely to give his
first sentences a precision and stifness
altogether foreign to his natural first sentences a precision and stiffness
altogether Toreign to his natural manner
when warmed up to his subject: and
 some note let drop the little secret
that he always finds it neeessary frrst
to preach a sermon aloud, in an attic
or some such solitary spot, to banish


## A Suggestion for Winter.

 Dear Junia, -I read with interestyour talks on higher education people on the farm. I wonder could of plays me a few short plays or parts illustrating differen or inve characters, amongst refined and educated people more especially young people.-My idea is to rehearse and act these in our own
home. $I$ believe it would furnish us with a pleasant recreation that would in ourselves that would be of great assistance to us. I would esteem it a great favor if you can oblige me in this
matter, and thank you in advance for The above letter an. time ago and answered privately, is now published at this beginning of
the winter season because of the suggestion there, may be in it for others. be a feature during the long evenings, as money and yet more money is likely
to be needed for work at the front and little dramas are always popular. of plays, folk dances, etc., on applica-
tion, but it is absoluely neas to demand good, refined plays, as otherwise very commonplace vulgar stuff
might be sent.
Even then discretion in choosing may be required, and it may be necessary to arrange to have
books In this case, of course, exchange must
be made at once, as it would not be fair to any book firm or publishing hour
to keep books any length of time.

## Left-overs Made Palatable.

on every hand, when economy is urged
be attached to the arial interest must
thing, so that nothing at alling is wastedto make left-overs palatala, but extras
as the fong finished dish is nutritious there
is the not waste involved; the body neds
nutriment to kep it well and in working
order. Every scrap of left-over food can be, and should be, used up some-
how in making these dishes. There is no
excuse for waste. Usually table scraps
are the dearest possible food for chicken are the dearest possible food for chickens.
The scrapins from the elates are ai
that should ever be put to such a use. Here are a few methods for using
left-overs in such ways that the family will never know that they are not being
treated to brand-new Fried M Con
Fried Mush--Corn meal is one of the
very best porridge materials; it convery best porridge materials; it con-
tains fat and "vitamines," so necessary te the health of the body, and-may be
eaten with cream and sugar, syrup, eaten with cream and sugar, syrup, or butter and sugar. Occasionally,
however, a bit of it may be left over.
-In this case reheat it and however, a bit of it may be left over
In this case reheat it and stir it -until smooth, then pour it into a small square
tin to a depth of about 2 inches. Let it get cold and put it away into the refrigerator or, covered, in any cool
place. Use as a super dish, cut into
slices rolled in flour and fried in smoling hot fat. Drain and serve very hot with syrup.
Macaroni and Tomato--Macaroni is a very nutritious iood that should be
seen morefrequently than it is on oountry
tables. It may be sued instead of potatoes, with meat, for dinner, but is nicest as a hot supper dishe. Uusally
macaroni is boiled until tender, then put macaroni is boiled until tender, then put and seasoning, almost covered with rich
milk and baked until browned slightly on top. If a cupful of this is left over add to it 1 cup cold canned tomato and heat
together. Pour into a baking dish, cogether. Pour into a baking dish,
cablesponth $1 / 2$ cup grated cheese and a
tat buttered crumbs tablespoonful of buttered crumbs and bake in a quick oven.
Delmonico Potatoes
Delmonico Potatoes.-Take
potatoes, 1 tablespoon butter,
1 potatoes, 1 tablespoon butter, 1 table-
$\%$ spoonn flour, 1 cup milk, $1 / 2$, teaspoon *splan, a sprincling of pepper, and $1 / 1 / 2$
"upp, grated chiese. Cut tie potatoes into small dice. Make a white sauce
from the butter, flour, milk and seasonings, from the butter, flour, milk and seasonings,
and when done add the potatoes. Turn anto a bakion-dish, sprinkle the top with
the grated cheese and bake until slightly the grated cheese and bake until slightly
browned. Potato Cakes. - Two cups riced potatoes, 2 tablespons cream, 1 egg,
pepper and salt to taste. Mix all to gether and fry by spoonfuls in hot fat
n a sidider.
Cauliflower and Potato Salad.-Two cups cold potatoes, $1 / 2$ cup cold cauli-
flower or coabbage. Cut col into dice and mince the cauliflower Mix together lightly and then mix with good salad dressing. Garnish with
parsley and serve with cold meat with Vixture of thash.-Chop coarsely mixture of cooked vegetables that may be on hand -cabbage, potatoes, turnips parsnips, carrots, etc. Combine these pint of the mixture put a tablesponflul of butter melted in a spider. Put in the vegetables and add a very little hot water, gravy or soup stock. Season
to taste, and cook slowly. Server hot, either with meat for dinner, gar-
hished with dish for tea. Bacon fat may be used instead of butter if preferred.
Soup Stock-Soun
useful if
all reapt on to hand in to heat atd weater may also be canned and kept for summer use if poured boiling hot into thoroughly
sterilized sealers and sealed. To make it, use perfectly $\begin{aligned} & \text { fresh sealed. Tracked make } \\ & \text { and all }\end{aligned}$ bones, and all sorts of trimmings of perfectly,
fresh meat, rejecting the with cold water, let soak a little, then
heat very slowly, bring to boiling point heat very slowly, bring to boiling point
and boil until every bit of the "good" is extracted from the bones and meat. reheat and put into sealers. A crock, closely covered, will do, if it. can be kept
in a very cold place. At any time a few cold, booiled veecetables, rice time. and made into a delicious soup. Serve as a "starter" for dinner, or as a hot
supper dish with bits of buttered toast. supper dish with bits of buttered toast.
By adding celery cut fine, or some canned
tomato, instead of the cold boil tomato, instead cot the cold, boiled canned
tables, a nice change can be secured ve-

## The Scrap Bag.

 Bulbs.Examine the bulbs that you are
rooting for winter bloming from time
to time to see if the to time tor see ife the soil has rom tried out.
It should be kept moist encourage root growth. Tulipt, detto to
and hyacilsths require 6 to 8 weeks in the
dark to

Choose pretty, paper and curtian
for the children's room. Very
paper borders showing little Hent paper borders showing little Hotht
girls, rabbits, etc., are now maden
the purpose. the purpose.

To Piano Keys.
To keep piano keys and ivery lain
hancles a good color wipe them
week with a cloth dam If discoltored a coth dly wpenec thent twice
mixed, and polish off with c
Washing White Silk Blouses.
White silk blouses, used
owadays for winter wear, may as follows: Dissolve some
borax in hot water and let
then soak the blouse in it then soak the blouse in it it for hatian
hour. Have ready a lather mad whit. Have, ready a lather
to the boras water almost cold Do not rut it on a a board an
wring it, just press the water well; and, if a clear white ou
blue slightly, Do not hang is the
out on the line, as that will out on the line, as that will chellow it
put it in a clean cloth, roll up, and atera
time iron. The iro
time iron. The iron must
hot.
Mutton Suet as a Remedy.
Try out a bit of mutton fat and keot it on hand to apply to scratches, and
hands, etc., during the winter. WW the part well with warm wre
castile or any pure samp, the
the melted suet and bind with clean muslin. A bottle of
of Iydrogen, which is a
infectant, should hand to apply to cuts and good.

## Warm Night Clothes.

In a cold house it is very neces
to have warm night clothee blankets of light wight clothed or old bland that have worn thin, will male n warm pajamas or night robes,
petticoats. petticoats. They may be dyed
and trimmed with lace crocheted
red red wool.

## Keeping Feet Dry,


that the feet be bept dry derine
and winter. Rubbers and winter. Rubbers wear out puth for the time by applying be ment adhesive plaster, which com
metal roll. ly dry when it is stuck on. proofing leat ther, Scientific American
the fol good an castor oil for preserving len weed once a month, or once or twi keeps in snowy weather, it not on waterproof. Copal varnish is the b thing to apply to the soles; but it soles should be thoroughly dry, and
if they be roughed on the surface before apply
ing the varnish. ing the varnish.

One by One.
Mid," and hould gone to the "Laties six, Marsery and Harriet were to pit
supper all by themselves alm by themselves. "I'm goins overs, " said mother with some
the smaller of the
"Why.
how to make them, you don't kjocted Margery but Harriet consulted the cook-bool It set to work beating and stirition came in a long process, and her mothar as she. had put the pan
col "What are you girls up tor" she
asked, as she saw the cooking utensils an the kitchen table.
"Mother, I've made some popovers,
Harriet announced
Harriet announced, proudly.
"But what are all those?" asked
mother, stooping to look into
mother, stooping to look into a rom a
six cups and bowls which showed the
had contained something yellow.
in. The these are what I beat the egse
separately, I said, six eggs, beater
in. The book said, six
separately. I don't see
took an awful long time!",

November 2,1916

TheBeaverCircle

## To The Fairies.

airies when the winds are cold; Fairics,
Faries
and
a human, big and tall-
a human, big and tall-
Brownies,
pixies, Brownies, pasies, sprites.
am curious, that is all. ain. elves, , tiny selves Cong the fowers have been asleepDaisy, hareben, wy, rose,
Not a nook for you to creep, Not a noor
Far as any human knows.
Not a nook, and it is chill; All the butterfies are gone All the little birds are stiled and wan.
Frocted is the gossamer; Ghostly stands the stubble grey And the broken chestnut bur
Liters where you used to play
Fairies, when the winds are cold;
Fairies, when the leaves
Fairies-May 1 be so bord
Whither at this time of year
Ernest h. A. Home.

## Little Bits of Fun.

"Pa, when you say you're laying for a person it means you have a grudge my son.' 'Well, has the hen aneraluse mainst the farmer, par'-Boston Transcript:'
She was a little girl, and very polite.
It was the first time she had been on It was the first time she had been on a visit alone, and she had been care-
fully instructed how to behave. "If they ask you to dine with them," they ask you the "you must say, '"No, thank you; I have already dined'" It turned out just as father had anticipated. friend's father. "You must have a bite with us." "No, thank you said the little girl, with dignity
bitten."-Exchange.

A School Fair Prize Essay. Mr. J. Laughland, District AgriOnt., has sent us the following essay, which won first prize at the Simcoe
County Rural School Fair, in an essay County Rural School Fair, in an essay
competition "open to
pupils 10 years of age and under." The bright little tot who wrote it attends school in S. S. No. 16, Oro Township. She wrote
a very nice little essay even though a very nice lottle essay,
she had no potatoes to show. Beavers, if you have never had a school fair in your district try talking one up parents. and teachers interested you may have one next year. Winter such plans, and seeds should be ordered about the first of March

## My Potatoes.

whitten by maggie martin I was at the school fair last year.
Our school wasn't in it, though I wished it had been. the list of the plots came This year the list of the plots came
to the teacher, who read it out to the to the teacher, who read it out to the asters, but when I asked at home what
I would take they said potatoes, so I I would take they said potatoes, so The order was sent in to Mr. Laugh land. Time passed. It was getting lander and later. We thought the seeds were never coming. My plot had been ready waiting. I had prepared it early
At last one day in school a knock was heard. Our seeds had come. That night I went to work and stirred the ground and cat and laid my potatoes
out carefully on papers. I had to be out carefully on papers. 1 had to be
very, very careful indeed, because they had such long sprouts. her garden and measured my rows wit it, and every twenty-inches I put
potato seed Then some came up, but at first I
wasn't sure whether they were ground
plums or potatoes. I hoed them anyOne day as I was hoeing them I spied some potato bugs, so Hiad to keep the I hoed them until the tops were tod big. I picked the bugs every day except them I had to then the could who them that to hold the tops whine on them. I thought I was going to have a good patch because the stalks were so big.
$\underset{\text { My worst enemies were mother's }}{\text { chickens. Those chickens dug }}$ tatoes up. I I tried my best to fix the hills but as soon as 1 had them hilled up and had gone away, in would come
those chickens. Then the hot dry weather came and
the leaves died and fell off. At the very worst time the inspector came. He said the bugs took my potatoes, I got up Saturday and caught the chickens in the garden. I wanted to know whether was going to have any to show or not. I dug and only
found one ortwo small potatoes in each found one or two small potatoes in each
hill but I have none to show

Junior Beavers' Letter Box. Dear Puck and Beavers.-As I have
seen many letters in The Farmer's Advocate which were written by the other Beavers I thought I would like to write too. I go to school every day I am able to. 1st prize on racing and 4th prize on darning a-soelk: My sister tookera cake and potatoes. She also got 2 nd prize on cake The Farmer's Advocate for as
long as I can remember. Well, I guess I had better say good bye this time, for fear that w. p. basket gets it, but I hope it is away on a holiday
trip. I. will close with a riddle.-What lions are allowed on the public park
Ans.-Dandelions.

Mar.- Dandelionson Rutherford,' R. R. No. 2, Castleton, Ont.

## The Windrow

A few weeks ago the British steamer Cumberland carred Australia, for meat million rabsits at the front. Rabbits are also being raised in Germany to keep up the meat supply.
"Ford" farm, near the village of Dearborn, Mich., consists of about Mr . Henry Ford. Mr. Ford is a bird lover, and is interested in protecting not only bird life, but the muskrats,
other innocent forms squirrels, and life. On his farm are many nesting boxes and feeding, stations to which food for the birds is carried on winter mornings. hemp and millet seed, buckwheat, cracked corn, small wheat, and occasionally raw oatmeal. Suet. is also nailed to the feeding boxes and hung among the trees during cold weather. As a result of the farm than at any other point in the surrounding country.
Roumania is a country of 53,000 square miles, with a population of less than 8,000,000. Military service is compulsory. The area for area, it produces more cereals than any other great grain-producing nation in the world, in spite of the fact that, side by side with the is to be found the small farm where the most primitive methods are still used. can expor years the Roumanias of corn, 50,000 ,
about $40,000,000$ bushels 000 of wheat, and $11,000,000$ of barley Large families are the rule in Roumenily and the people live simply and merstitious.

## Words Born Out of Conflicts.

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chine if later on you need a larger size to keep pace with larger size to keep pace
the growth of your herd.
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from whom or how we learned the
food value. Many times food walue. Many times, by accideer the most valuable articles have been
added to our list of foods so with the potato. When the Spaniar went to Quito, South America, the found
The potato is a native of Chili which country it has extended
over the greater part of Europe. The potato is remarkably adapted for a universal vegetable, sin
it will thrive in almo tween the Arctic and the Antarct circles; hēnce it is more widely cult vated and eaten by all nations an classes than any other vegetable,
Once, only the rich could a luxury, for in the days of such Elizabeth as much as five shillings were paid for one pound of potatoes,
From the common name, Irish From the common name, Irish po.
tato, many suppose that we are in. vegetable, but the reverse is the truth for the potato Ireland is indebted to America. In 1585 Sir Walter Raleigt having obtained some of the tubers
from Spanish sailors, who them as a part of their cargoes to the estates, had them planted on his ever, did Cork. Its cultivation, how in Ireland, until the middle ever eighteenth century. It is called trist potato generally in the United State and baish from the sweet potato food staple has become the chie raised Ameriea the potato was lirsi Frederick II so fully believed in the value of the potato that he compelled
the Germans to plant it in spite of their protests extensively of the Upper Hartz were more peop gressive and of their own accord raised the potato; their success and satisfaction derived therefrom are attested by the unique monument which thes potato was found, not many years ago in the undergrowth of the Upper rests a block of massive stone base which is inscribed, "Here in the year 1747 the first trials were made with the cultivation of the potato." I virtues, of the homely to proclaim the turies to come
There are more ways of using the potato "than are dreamt of in our some disguised form times each day in potato. When we stamp a meet the gum that sticks the stamp is made of dextrine from the potato; much of our laundry starch, and also that we use in cooking, comes from the same monly sold as arrowroot, tapioca and other farinaceous compounds are often ormed from potato flour or starch In 1836, in the city of Paris where the
bread was considered of quality, 40,000 tons of potatoes were converted into flour. There are said to be 250 ways of palatably cooking potatoes, so we need never tire of this taple vegetable, but should remember we need and use it as a food, rather than for its nutritive value, since the potato is mainly composed of water, containing 78.9 per cent. .water, 18 per
cent. starch, proteid 2.1 per cent. mineral matter 9 per cent, fat 1 per cent The sweet potato, though analogous o the white potato, is the fleshy root of the plant; it belongs to a different of sugar. These potatoes cannot be raised in high altitudes nor do they keep so well as the white or Irish potato. Irish potatoes are tubers of the
Nightshade family, and are not roots, Nightshade family, and are not roots, wes its value The peculiar habit of developing underground slender, leaf-
less shoots, which differ from true roots less shoots, which differ from true roots
both in office and character, and which gradually swell at the free end and tatoes, differs entirely from the manner of development of the sweet potato.
The latter, though formed underground The latter, though formed underground,
is not of like nature or office, for this
tuber is a part of the root proper, the

shat simply dilating into a large club-
saped mass, rich in starch and sugar These tubers, unlike the Irish potato,
do not contain eyes or leaf buds- that in due time lengthen into shoots from
which new which new plants may be raised. From
the West Indies, Sir Francis Drake sent sweet potatoes to Queen
with careful instructions for raizabeth them. He omitted, however, to tell should be cooked. The Queen's gar-
dener had a large crop. He tried the dener had a large crop. He tried the
new vegetable by cooking the tops, new vegetable by cooking the tops,
and pronounced them "a most disgusting mess". He then told the Queen they were not fit for food,
though he had followed carefully the Admiral's instructions for cutlivating
them. In a rage he uprooted the them. In a rage he uphooted the
entire crop and set fire to the pile. As
ats slowly roasting and sent out an odor The gardener could not long resist and tasted one warily. The delicious morsel made him grieve deeply for his rash
deed and declare the sweet potato was indeed a dish fit to set before the Queen.
There are many varieties of this West There are many varieties of this West
Indian dainty, but the yam leads in Indian dainty, but the yam leads in
flavor; the sugar it contains oozes out in a syrup as the potato is roasting.

Parcels for Prisoners of War.
The Post Office Department has been
notified by the British Post Office that notined by the British Post Office that
many parcels - sent from Canada to Prisoners of War in Germany are being
received in London in a damaged condireceived o that frequently they have to
tion, so be packed before they can be forwarded
to Holland for transmission to Germany. The British Post Office adds that in most cases the damage appears to be
due to the fact that the parcels were inadequately packed by the senders. that parcels for Prisoners of War, unless they are very strongly packed, will probably arrive in such a condition as
to be of little or no use to the recipients. Os shoe-boxes thin cardboard boxes, such should not be used; nor does a single sheet of ordinary brown paper afford sufficient protecton iven where proper
materials are used, it is important that materials are used, it is importan packed
the contents should be tightly
sin so as not to shake about during transit.
The following forms of packing are $\underset{\text { (1) Strong double cardboard or straw- }}{\text { recommender }}$ rugated cardboard and having lids which completely enclose the sides of the boxes are the most suitable.
(2) Tin boxes such as are used for packing biscuits.

## (4) Several folds of stout packing

 paper.The British authorities advise that parcels not be wrapped in linen, calico,
must not canvas, or any other textile material. Parcels posted in Canada, for Prisoners
of War in Germany, which have not of War in
been adequately packed by the senders been adequatery parded but will be re-
will not be forwanders, as the British
turned to the sender Post Office has notified the Department that parcels which are inadequaters.
packed must be returned to the senders.

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The Girl Who Cooked
 stir sala, and aid the poatoses wien and settings and climaxes, and
the most fascinating little ideas fancies keep dancing into your mind up into stories. Especially if the writing of them means, possibly, college in the fall; and not writing them means, certainly, no college.
And besides, Nan hated cooking, anyway. At least, she had hated that she never in her life did anything she didn't want to. Her method, you see, was that as soon as she found she had about wanting to. It wasn't easy for Nan to be spending her summer over the cook-stove and the ironing board. her triumphantly through the "roughness of her year as backwoods "school gaily, as she tossed her head to kee back the tears, "Just wait till summer Oh, the stories that I can write-nex
summer." "the girls", from their near by schools, had ridden over to say good school closed. "Be sure to tell us all about your writing, Nan," they called out.
"Don't forget to let us know check you get." College next fall," were the last words she heard as the train pulled out. College next fall? Yes, if hard work could bring it. Wean the stuady she the meant she had planned to do, she knew she could "make" college. It would mean giving up everything; no vacation fun for her, but a steady grind at her sacrifice anything.
But when she got home, her plans went very badly "a-gley," indeed. No
sooner had she flown into the house, dashed wildly at her mother, and her brothers and sisters of varying ages and the kisses and fun, and home-again gladness of it all, then they began telling her how needed she was. home band again-not to be "the school-marm," and a pattern for the community any more, but to be just Nan, to find her old p.
for her just the same. her mother all her summer plans,-how she would have her regular hours for work, writing out under the cherry
trees in the little nook where she used trees in the little nook where she would read, and study up on short-story structure and methods, and all the hundred and one plans she was so eager to scarcely follow the conversation. Conversation at the Little Brown House was of a three-ring circus variety invented by Nan and the others, destined Everyone talked at once, and you listened to whichever interested you most. *Everybody cheerfully interthe jolliest, happiest-hearted affair imaginable.," her mother was saying, "I'm so glad you're back, and can take hold of things. I've let the housecleaning go, and I'm behind in the sewing, to coach me in Algebra this summer You know I flunked."
"And you can make my summe pops, "Wand teach me to embroider. "We've just been waiting for you to relief in her tone. "I had to keep up, some way, till you came.
No one waited for Nan to make any reply, and no one noticed the white look of dismay in her face. It was gone on the instant, and Nan was the twins' pranks.
In some wireless fashion the news had got round the neighborhood that
Nan was home. For anyone to say


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"Nire." "was as much as saying, "Fire Fire. to be done, and made a grand rush for the Little Brown House.
Nan welcomed them all, from fat homely Mother Bagley, to the Trum
bull babies. The doorbell and th belephone kept up a merry carol, and "Hello Nan" echoed everywhere. In all the merry chaos of talk and laughter, it seemed to Nan as if every
body said something about how nice body said something about how nice
it was that she had got home, and could "take hold of things," and give her mother a rest. "I wish I had a daughter like that.
You're, a lucky woman, Kate," her overhearing, flushed.
"But I can help more by working at my own work," she thought passion-
ately; "Anyone can sweep floors and ately;,"Anyone can sweep floors and It was not until the supper dishes
were out of the way that Nan could snatch a moment to think out this problem that had come to her.
Then she ran lightly out to her own Then she ran lightly out to her own,
little corner of the world -the little little corner of the world the where
nook under the old cherry tree, where
she had fought she had fought out all her girlish battles.
There, all alone in the sunset, she faced her problem squarely, and had
all the bitterness of her own little all the bitterness of her own little
Gethsemane. "It's my own, own work. And it means college. I can't waste my
splendid summer just doing other
people's corners.". She lifted her head spende's corners.". She lifted her head
people sunset hills. "A girl must live
to the to the sunset hills. "A girl must live
heer own life, and choose her own lifework." Impulsively she threw her arms
around the old tree, and laid her face around the old tree, and laid her face
against it.
" what ought I to do?" she sobbed. But all the while, she knew what she She had a little motto of her own that She had a little motto of her own that
had steadied her hand sometimes, and she quoted it, ruefully, through her
sobs " When in doubt, do the hardest thing." "Well," she straightened her slim figure, and stood out proudly, ""here goes. wasn't a very poetical surrender
It
to duty, but she meant it. She marched to duty, but she meant it. She marched
steadily toward the house, stopping at the little spring to splash cold water into her eyes, and luring all the twinkle She remembered how scornfully one of the girls at High used to say, "Anygive in as if he liked to do it." She flashed up to the porch, and was immediately taken possersion of by
every occupant of it. "Wait until the every occupant of "it. "Wait until the
newness wears off," she taughed, "then
I won't I "Won't be so popular." her mother smiled up at her affec"Having a little think-fest all by myself, muz,", Nan answered, cheerily.
"Will you tell me just what you have for breakfast, and how you cook it You know I don't know a thing about cooking-but 1 m going to."
So that was how Nan came to be cooking dinner on this busy Saturday, while the tiny birds, bursting their
throats with joy, and the lure of sum mer, called to her in vain. She was tired, tired, body and soul as tired in the morning as when she tumbled into bed at night. But no
one knew She and the alarm clock had a little dispute every morning. The alarm
clock always won. She hand to the stove-lifter, and she
would not turn back. Would not turn back. kitchen was littered up with everybody, through the laughing, quarreling chaos,
to the culmination of dinner "Say, Nan,"" suddenly demanded Kenneth, Nan, sutting up straight, and looking over at her, "why don't ,you ever Nan tossed back her head, and nut on the fork, and turning her fre flushed face upon him. "Stories!" "her beans are burning!" When she had rescued the beans, and put in a new panful of sizzling doughnuts, she turned
again, and waved her arm tragically
over the scene
matically. "why," she announced, than to write them, $\mathrm{Ke}-\mathrm{Ke}$," " she storie blithely.
"Yes," agreed "Ke-Ke,", "but, gee!
sis, your stories are corkers,"
sis, your stories are corkers." but,
curtseyed, and, like Thackeray's ," she curtseyed, and, like Thackeray's heroine Nan had tried, for a while, butter. two masters. She had hoped to write in the corners of the day, but she soon and that corners were a largely circular quantity. Also she discovered Also, she discovered that stories and
cooking do not mix. If she ran to her cooking do not mix. If she ran to her faintly fugitive ideas, everything in sight would burn and boil over and
mutiny. And when she would cuddle up in the lap of Fancy all by herself for a moment, it was surprisingly diffic to describe even a sunset. Then, when her pencil would get in tune with things, and she would feel the glow of well-turned sentence, "Nan," someon would call, and the little, maddeningly
intrusive tasks would begin all $\underset{\text { Fina }}{\text { again. }}$
Finally, she gave in to the great god,
Work, and locked up her pathetic little writing desk. She shut her eyes, and,
standing under the old cherry tree threw the key just as far as she could Then she put all her heart into feeding the family, and sewing buttons on them, and dimpling out at the world in general.
And nobody even guessed about th And nobody even guessed about the
slender little key she had thrown a way and the locked-up place in her heart: When any of them spoke of her
writing, she turned them off writing, she turned them off gaily, as
she had Kenneth, to-day. His reminder she had Kenneth, to-day. His reminder but before dinner was over, she was her own cheery self again.
A little later, the twins plunged in With the mail, to where Nan, arms in
the steaming dish-water, was singing away. "There's a letter for you," came their two-fold shout, "Open it quick, Nan!
Nan's letters were an advent to the Nan's letters were an advent to the
whole household, as much to be shared as a box of candy.
Laughing, she wiped her hands on her apron, and, pulling out a hair-pin ran it under the flap. Out of the envelope dropped a clipping.
"The letter's from Pauline, the school ma'am in the next district," she announced happily, and, perching on the
table, read out the droll, jolly table, read out the droll, jolly epistle " In the middle of a sentence she stopped M $M-m$," she skipped, and then started page. Nobody noticed the omission excep her mother. Mothers always notice Nan's mother had confided to he best friend, the day before, "You neve know your children are growing up, Nell, till they first stop showing you
their letters. Then you suddenly realize that they're not your little boys and girls any longer, but young folks with an individual life of their own. Na always tossed her letters over to me,
as a matter of course, before she read as a matter of course, before she read
them or after, it made no difference them or after, it made no difference,
But now-It's foolish of me to mind, of course." She had laughed at herself but she did mind, all the same.
the girls' letters this summer. They the girls' letters this summer. They
were too dangerously besprinkled with gay little references and questions abou Nan's writings and checks-and Nan
would not for worlds, haver mother know what she was giving up. again the page she had skipped.
"I suppose you are too busy with in it," Pauline said, "but I'm enclosing a clipping I noticed in the Homemaker's Magazine. You said you were doing some 'cooking, didn't you?", Then she
went on to ask about Nan's stories and went on to ask about Nan's stories and Nan picked up the clipping. "A
Contest! dollars," she gasped. "And for a cook ing article," she read on farther, "telling
the experiences of an amateur, and what she learned. Well, I certainly ought to be able to give a heart-felt experience talk.". She laughed at a sudden vision
of her soda-less biscuits,' surplus-salted of her soda-less biscuits,' surplus-salted
rice, and a few other of her strikingly rice, and a few other of her strikingly
original versions of culinary prowess.

Yo goc will do $n$ you of th of Red make for Insealed
and Two Large The Mo Hituig ․․․ .

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 motherimatang of tit so long as it does the



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[^0]put off the task as long as she could，
but she really must，she knew，set but she really must，she knew，set
about applying for a school now． At least，one afternoon，with a sort of
Latimer and Ridly expression，as Ted Latimer and Ridly expression，as Ted
diagnozed it，on her face，she had col－ diagnozed it，on her face，she had col－
lected her courage，some paper，en－
velopes，and several school clerks＇ lected her courage，some paper，en－
velopes，and several school clerks＇
addresses，and was grimly preparing addresses，and was grimly preparing to convince them of the peculiar adap－
tability of her talents for their several tability of her talents for their several
schools，when the postman＇s whistle came like a welcome summons．
Everybody tumbled out of the house，
and somebody seized the budget，and and somebody seized the budget，and
bore it in，in triumph． grumbled，＂I believe you＇re Uncle grumbled，
Sam＇s favorite niece．＂Whew－here＇s．
business－like envelope．＂ a business－like envelope． glanced at the corner of the envelope． do＂you thirk－＂

## OUR NEW．SERIAL STORY <br> Serfal Rights Secured from the Bobbs－Merrill Publishing Company． ＇The Brown Mouse Y

## BY HERBERT QUIGK．

CHAPTER II REVERSED UNANIMITY．
The great blade of the grading machine， running diagonally across the road
and pulling the earth toward its median and pulling the earth toward its median persiflage about Jim Irwin＇s forth－
coming appearance before the board had been addressed to Jim and ex－
changed by others for his benefit． changed by others for his benefit．
To Newton Bronson was given the task of leveling and distributing the a labor，which in the interests of fitting a muzzle on his big mongrel dog，he deserter whenever the machine moved
away from him．No dog would have seemed less deserving of a muzzle，for he was a friendly animal，always wagging his tail，pressing his nose into people＇s palms，licking their clothing and other－
wise making a nuisance of himself．That
there was some mystery muzzle was evident from Newton＇s pains to make a secret of it．Its wires were
curled into a ring directly over the dog＇s curled into a ring directly over the dog＇s
nose，and into this ring Newton had
fitted a cork，through which he had thrust a large needle which protruded，
an inch－long bayonet，in front of Ponto， an inch－long bayonet，in front of Ponto＇s
nose．As the grader swept back，horses straining，harness creaking and a billow Ponto，fully equipped with this stinger raced madly alongside，a friend to every man，but not unlike some people，one
whose friendship was of all things to whose most dreaded
As the grader moved along one side of
the highway，a high－powered automobile pproached on the other．It was at empting to rush the swale for the hil of the newly repaired road．A pile of loose soil that Newton had allowed to lie just across the path made a certain
maintenance of speed desirable．The knavish Newton planted himself ir the path of the laboring car and waved its came to a standstill with its front wheels chauffeur fuming at the earth，and the stalling－a contingency possibility of Newton had confidently reckoned． ＂What d＇ye mean by stopping me ＂I want to ask you，＂＂said Newton with mock ．politeness，＂if you have
the correct time．＂ The chauffeur sought words appropri－
ate to his feelings．Ponto and his muzzle leaped from the car，and attracted by the evident friendliness of Ponto＇s greeting pricked up its ears，and sought，in a
spirit of canine brotherhood，to tough
onoses with him muzzle did its work to the agony horror of the pointer，which leaped in an effort y，and turned tail．Ponto， finding itself bayonetted at every with this demon dog，the pointer de－ finitely took flight，howling，leaving Ponto in a state of wonder and humiliation
at the sudden end of what had promised
to be a very friendly acquaintance to be a very friendly acquaintance．I similar among human beings．The pointer＇s master watched its strange
flight，and swore．His eye turned to flight，and swore．His eye turned to
the boy who had caused all this，and he alighted pale with anger．
Newton＇s impudent question，＂to give you what you deserve． Newton grinned and dodged，but the bank of loose earth was his undoing，
and while he stumbled，the chauffeur and while se stumbled，the chauffeur
caught and held him by the collar And as he held the boy，the operation of flogging him in the presence of the Prading gang grew less to his taste．Again stood holding Newton，the dog evaidently regarding the stranger as his master＇s friend，thrust his nose into the chauffeur＇s palm－the needle necessarily preceding as his pointer had done，saving and excepting that the pointer did not swear． It was funny－even the pain involved Tould not make it other wise than fuiny． The grading gang laughed to a man．Ne
ton grinned even while in the fell clute of circumstance．Ponto tried to smell the chauffeur＇s trousers，and what
had been a laugh became a roar，quite had been a laugh became a roar，quite general save for the fact that the chaul－
fer did not join in it． Caution and mercy
the chauffeur＇s mood；and he drew back his fist to strike the boy－and found
it caught by the hard hand of Jim Irwin． it caught by the hard hand of Jim Irwin， boy，＂，said Jim gently，－＂even if you had the right to punish him at all＂， the rear of the car，who had hitherto manifested no interest in anything save
Ponto．＂Get in，and let＇s be on our way！＂The chauffeur，however，recognized in a man of mature years and full size， and a creature with no mysterious
needle in his nose，a relief from his embarrassment．Unhesitatingly，he released Newton，and blindly，furiously and futilely，he delivered a blow meant for Jim＇s jaw，but which really mis－
carried by a foot．In reply，Iim carried by a foot In reply，Jim uppercut，which was superior to the chauffeur＇s blow in one respect only －it landed fairly on the point of the slowly toppled over into the soft earth which had caused so much of the rumpus． Newton Bronson slipped behind a hedge，
and took his infernally equipped dog and took his infernally equipped dog
with him．The grader gang formed a ring about the combatants and waited． Colonel Woodruff，driving toward home in his runabout，held up by the traffic blockade，asked what was going on here，
and the chauffeur，rising groggily，picked up his goggles，climbed into the car； and the meeting dissolved，leaving Jim Irwin greatly embarrassed by the fact that for the first time in his life he had ＂Good work Jim，＂said Cornelius
some notice or other，of course：Sh
pulled out a slender blue slip of then stared at it with a dazed expresser in her eyes．
says．I can＇t be seeing straight what quick！＂her voice shook． Motherybody clan
＂Pay to the order of－＂began Ther Kenneth．
＂Oh，Nan！＂Lollipops flew at her， smiling at her，proudly．mother was
Nan＇s eyes Nan＇s eyes shone．College，colleze the check seemed to chant joyously as She opened her lips to speak．But in the kitchen，and the check fluttered unnoticed to the floor． and vanished through the dored Nai and vanished through the door




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"It's beastly," saif Jim, reddening.
I didn't know, either." Colonel Woodruff looked at his hired
man sharply, gave him some instructions man sharply, gave him some instructions
for the next day and drove on. The road gang dispersed for the afternoon.
Newton Bronson carefully secreted the magic muzzle, and chuckled at what had been perhaps the most picturesquely
successful bit of deviltry in his. varied record. Jim Irwin put out his team, of the school board
The deadlocked members of the board
had been so long at loggerheads that their relations had swayed back to something like amity. Jim had scarcely
entered when Con Bonner addressed the chair.
"Mr. Prisidint," said he, "we have
wid us t'night, a man who nades no introduction to an audience in this place, Mr. Jim Irwin. He thinks we're move that we hire him f'r teacher and pinding that motion, I move that
he be given the floor. Ye've all heared he be given the floor. Ye've all heared
of Mr. Irwin's ability as a white hope,
and I know he'll be listened to wid respect!""
Much laughter from the board and the spectators, as Jim arose. He looked Con Bonner regarded it as a tribute to his successful speech. ${ }^{M r}$. President and Gentlemen of the Board," said Jim, "I'm not going to
tell you anything that you don't know about yourselves. You are simply
making a farce of the matter of hiring a teacher for this school. It is not as if any of you hat a theory that the teach would be any better than or much diflerent from those of the others. You know,
and I know; that whichever is finally engaged, or even if your silly deadloc is broken by employing a new candidate, will be the school it was when I came into it a little ragged boy "here jim's voice grew a little husky- and when 1 lert
it, a bigger boy, but still as ragged as

There was a slight sensation in the audience, as if, as Con Bonner said about the knockdown, they haen't
thought Jim Irwin could do it, "Wo,
"Well,". said Con, "you've done well to hold your own." attended this "In all the years I attended this
school," Jim went on, "I never did a bit of work in school which was economically userul the city schools. No other pupil ever, did any real work of
the sort farmers' boys and girls should the sort farmers' boys and girls shouid
do. We copied city schools-and the schools we copied are poor schools. any of you three men were making a fight for, what Roosevelt ' country of rural school,' I'd say fight. But you aren't. You're just making individual fights for your favorite teachers. Jim Irwin made a somewhat lengthy speech after the awkwardness wore of
so long that his audience was nodding so long that his audience was noding by the time teached his peroration, in which he adjured Bronson, Bonner and Peterson to
study his plan of a new kind of rural school,-in which the work of the school hould be correlated with the life of which would bêe in the highest degree cultural useful and obviously practical. Three sharp spats of applause from the useless hands of Newton Bronson gave the final touch of ahsurdity to a situation
which Jim had felt to be ridiculous all which Jim had felt not been for Jennie Woodruf's "Humph!" stinging him to do something outside the round of
duties into which he had fallen, had it not been for the absurd notion that perhaps, after they had heard his speech they would place him in charge of the
school, and that he might be able to do something really important in it, he would, not helt himself a silly clodhopper, filled with the east wind of his own onceit, out of touch with the real world The nodding board of directors, the secretary, actually snoring, and the
bored aiidience restored the field-hand to a sense of his proper place. "We have had the privilege list nin',"
said Con Bonner, rising, "to a great

Spech, Mr. Prisidint. We should be proud to have a borned orator like this district Agricultural reglar William Jonnin's Bryan. I don't understand what he was trying to tell -us, but sometimes I've had the same diffculty with the spaches of the Boy. Orator of the Platte.
Makin'
a yood spache is
one thinz Makin a. good spache is one thing, but in order to bring this matter before the board, I nominate Mr. James E . Irwin, the Boy Orator of the Woodruff
District and the new white hooe, frt District; and the new white hope, frt
the iob of teacher of this school, and Ine jove or that when he shall have rececived a majority of the votes of this board, the secretary and prisidint be insthructed to enter into a contract with him fr

The seconding of motions on a board of three has its objectionable features, since it seems to commit a majority of the body to the motion in advance when he said-"If there's no objection, it will be so orderen. The chair hears no objection-and it is as ordered. Prepare the ballots for a vote on the election
teacher, Mr. Secretary teacher, Mr. Secretary. Each votes
his preference for teacher. A majority helects.
For months, the ballots had come out of the box- an empty crayon-box Foster, one; Margaret Gilmartin, one;
and every one present expected the same result now. There was no surprise however, in view of the nomination of Jim - Irwin by the blarneying Bonner when the secretary smoothed out the first ballot, and read: Clearly this was the Bo. Irwin, but when the next slip came forth, "James E. Irwin , two, "the Board of Directors
of the Woodruff Independent District were stunned at the slowly dawning Before they had rallied, the eccretar drew from the box the third and last ballotila jol President Bronson choked as he an-
nounced the result-choked and stammered, and made very hard weather of it but he went through with the motion, as we all run in our grooves.
"The ballot having shown the un-
animous election of James E. Irwin. animous election of "James E. Irwin, He dropped into his chair, while the from his portfolio a contract duly drawn of the save or the signatures of the officen of the district and the name and signa-
ture of the teacher-elect. This he calmly fure of the teacher-elect, and passed over to the president pointing to the dotted line. Mr. Bronson would have signed his own death-warrant at that moment, not to mention a perfectly and Bonner looking on stonily. The secretary signed and shoved the contract over to Jim Irwin.
"Sign there," he said
Jim looked it over, saw the other signatures, and felt an impulse to dodge that the action of the board was serious. He thought of the platform he had laid down for himself, and was daunted.
He thought of the days in the open field, and of the untroubled evenings with his books, and he shrank from the work. Then he thought of Jennie Woo
"Move we adjourn," said Peterson. "No 'bjection, 'tis so ordered!" said Mr. Bronson.
The secretary and Jim went out,
while the directors waited while the dire
"What the Billy-" "began Bonrier
and finished lamely! "What for did you vote for the dub, Ez?
"II voted for him," replied Bronson, "bocause he fought for my boy this afternoon. I didn't want it stuck into one vote." "ard. Wanted him to have van vote too," said Bonner. I thought mesilf the only dang fool on the board-an' -but f'r the love of hivin, that dub f'r a teacher! What come over you, Haakon-you voted f'r him too!" vote
"Ay vanted him to have wan vole oo," said Peterson. And in this wise, Jim became the
teacher in the Woodruff
District-all "n account of Jennie Woodruff's "Humph!" To be continued.


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Cure for Worms in Horses and Swine. Kindly publish a good remedy for
worms in horses and swine.
worms in horses añ swine. P. F.

Ans.-See answer to query "Mare
Has Worms" in this issue. A mixture of salt, charcoal, and ashes, placed in a box and available to the pigs is a good
preventive for worms. As a cure, starve preventive for worms. As a cure, starve
the hogs for 12 hours then feed one part oil of turpentine mixed with 16 pig four weeks old is one ounce; for a full-grown hog, six to eight ounces a week and are Repeat the dose in Mare Has Worms.
Would you kindly publish a remedy for worms in a horse. I have a mare
weighing about 1,400 lbs., and she has weighing about 1,400 lbs., and she has
worms. She passed one on October $22,115 / 2$ inches long. What would be a good thing to give her to remove
them? Ans.-Take Subscriber. Ans.-Take $11 / 2$ ounces each, sulphate
of iron, and sulphate of copper, and one ounce calomel; mix and make into 12 powders. Give a powder night
and morning in damp feed. If it is not eaten in this way, mix with a little water and drench. Starve for ten
hours after the last powder, and then, if the mare is not in foal, administer a ginger. Feed bran only for 24 hours after giving the physic.

## Bloody Milk.

 I have a cow that gives bloody milk,she is just a heifer, and the first season
she has been milke win more or less blood in the separator bowl all summer but more especially
of late. late.

Ans.- The trouble is caused by rupture udder, of the small blood vessels of the weakness of the vessels of the udder While the flow of blood can usually cannot be prevented. In addition trouble hereditary tendency, contributory causes are, abuse, chasing by dogs,
hurrying, or accident of any kind to hurrying, or accident of any kind to
the udder. Bathe the affected quarters long and often with cold water, and give one ounce tincture of iron in a pint of cold water as a drench three times a
day until blood ceases to flow. If of raw linseed oil. If the give a pint ment fails to effect a cure it is advisable to dispose of her to the butcher as it from doubtful if the milk would be free rom blood after the next lactation. A Verbal Lease.
In 1909 A entered into a verbal agreement with B. B was to have the
use of one acre of A's farm, upon which to build a slaughter-house, the timbers At which were to be supplied by A. and lot were to revert to A. A's pigs were also to have the run of the
lot. B sold out his butcher business C had the building and years ago. in his name without notifying assessed also put pigs on the lot. $C$ has not
paid the taxes on it and it is now up for sale for taxes. At the same
time A has paid the taw farm. What course of action should take in order to keep his rights and lot?
Ontario. A SuBSCRIBER Ans.-It does not appear from your statement that $B$, or his assignee, was
to pay taxes, and we rather infer on the whole farm, including pay same in question. We think that A should
pay the arrears and so save from tax sale. But at same time A
cught to have his



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Beef and Dairy breeds of cattle, Show and Field meep. Mustrated catalogues and testimonials on
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## Robt.mcEwen, R.R.4.4,London,Ont.


 BALMEDIE ABERDEEN-ANGUS

 Aberdeen-Angus Cattele Several choice




Manor, at 300 guineas, and the same a red four-year-old by oxford Record,
out of out of a Cranford Furbelow cow, Mr. Yyser getting her bull calf at foot
for 130 gineas. Rigby, opposed by
Duckworth, secured the highest-priced animal in the sale, paying 580 guineas
for Darlington Day for Darlington Day Dream, a rich
roan four-year-old, by
Oxford Record out of Darlington Cranford 10th. Sir Gilbert Greenall went to 300 guineas Wild Eyes heifer, bred at Tring, by Dreadnought, and 300 guineas were
given by Duckworth for Puddingto Foggathorpe, a wide, good-looking cow
by Oxford Foggathorpe Record out of Primose and another daughter
of Oxford Record, Rose a three-year-old, white heifer,
calved, and possessinite chaped, and possessing one of the best-
shaters of anything in the sal ${ }^{250}$ guineas to Colonel Thorneycroft tained when the twenty-eight bulls came out. Oxford Record, for which Sons 400 guineas, Messrs. Hobbs ${ }^{\&}$ although in his
end eighth year, made 100 guineas to Mr bred and very handsome roan bull bred by Sir Gilbert Greenall, made 230
guineas to Sir Clifford Cory. Puddington Prince Furbelow, a red yearling cow that made 240 guineas, topped the sale of the bulls, reaching 550
guineas, paid by Captain FitzHubert guineas, paid by Captain FitzHubert
Wright. Mr. Millar gave 210 guineas for Darlington Prince by Barrington Darlington Day Dream. The 115
head sold averaged $f 121$ 1s. od. apiece and realized 613,925 2s. Od. The 8 28 bulls 6.120 . It was a great day
2121

Shirla contrast let me add that J. L
Sirley's 35 non-pedigree Shorthorns Shirley's
sild
for
f48 non-pedigree 1 Sh. each, but 14 of thorns (cows) averaged
cow
Etiverty f109. Abe of the most successful sales of taken place in England was held in Birmingham under the auspices of the English Aberden-Angus Cattle Associa-
tion. Seventy-five,
including calves, were sold at an average of $£ 41$ was. per head. Best price or bulls
was borne for H. J. King's Meteor of
Apethorpe, bred by H. L. C. Brassey, and nearly two years old. H. G. Fraser
paid 53 guineas to $W$. A. Sandeman Royston, for Question of Claverdon
5 th, 18 months old. The cows and heifers evoked a great amount of com-
petition. The best price of the petition. The best price of the day
was 100 guineas, this sum being given for Vitis, a seven-year-old cow from Stocksfield-on-Tyne, property of Viscount Allendale. The purchaser was Mrs.
Scott, Dumbleton, Evesham. Thi Scott, Dumbleton, Evesham. This lady
is enlarging her herd. She bought several of the late Lieutenant King's
Latel
Cate, giving 50 guineas cattle, giving 50 guineas for Elisma,
six years old; 52 guineas for Kathlean of Morlich 19th, five years old; and 60 suineas tor Era of Morlich, five years.
Holsteins are also making biy money to wit, an average of 558 13s. 9 d .
for 57 head, sold at Wigginton Sussex. head, sold at Wigginton in all over the United Kingdom. I may add that I hear that such prices as
£1, 833 for Bletchley Condor; $£ 1,745$
for
 Royal; 61,571 for Secret Sign, and
G960 for Boquan Coliper Monarch,
have British-bred Shorthorns, held in Buenos

A Record Wheat Crop. ecord wheat crops for large areas,
he Crowfoot Farming Company
 Statement of their results for the year
1915 which probably surpass all properly
authenticated authenticated claims from other sources.
From 1,356 acres the Crowfoot FFarming
Company of 51 bushels, $561 / 2$ pounds per acree
of number one spring wheat, by actual sening weight- 400 acres wheat averaged
$591 / 2$ bushels
per acre were established in the Canadian Pacific
Railuay Irrigation Block of Southern
Alberta.


Your Frisky Colt.



BECAUSE the Spring Needle Ribbed Stitch gives to the fabric an elasticity possible in no other to every garment that brings it back to normal shape the moment the pressure is removed. In all popular fabrics and sizes, for men, women and children.

## Matson's <br> NEEDLE SPRING RIBEED NEEDLE <br> UNDERWEAR

## AGRICULTURAL LIME <br> The farmers of England have limed their meadows and pasture lands in the fall for hundreds of Yoursime yours and the question will be answered; also lime your plowed clay land this fall. You will ind it more tillable ahd earler to get on to. That means earlier seeding, and be sure to seed clover where 

Clydesdales We have still left some exceptionally good drafty stalliome champions; also in-foal ranares and indilies. ornere is is a horse boom coming. SMITH \& RICHARDSON, Columbus, Ont.

## 


ORCHARD GROVE HEREEORDS
L. O. Clifford

SHORTHORNS AND SHROPSHIRES-T. L. Mercer, Markdale,Ont.



3GLENGOW SHORTHORNS AND COTSWOLDS


PLEASANT VALLEY SHORTHORNS
 Spruce Glen Shorthorns $\begin{gathered}\text { When in want of shonthom vidt oir } \\ \text { hed } \\ \text { ved }\end{gathered}$
 James McPherson \& Sons, Dundalk, Ont. When Writing Please Mention this Paper


## Louden Barn Equipments   Lowiden Machiney co

## MILTON BRICK <br> Smooth, Hard, Clean-Cut. Write for booklet. <br> ESSED BRIGK Milton, Ontario

## SEED WANTED   <br> ToDD \& Coos

Cotton Seed Meal
In car lots and L. C. L.
Write, 'phone, or wire for prices. The chisholm Milling co., Limited

Glenfoyle Shorthorns Large selections in females, all ages, bred
from the best dual-purpose families. One extra choice fifteen-months bull, some younger ones coming on. Priced well Stewart M Grah
stewart M. Graham, Lindsay, Ont.
 We have now for sale ond 2 -shear Leicester ram, three shearlings and 14 ram lambs. Also a few
youmg ewe
excellent quand ewe lambs ality and choice breeding, and are of
 PLSTER MLL SHORTMORES MILKiNG STRAINS- 5 young bulls, 5 to 12.
months, bred from record cowe. Visitors welcome. P. Martindale \&\& Son, G.T.R. Galedonia, R.R. 3 SHORTHORNS
 When writing please mention this paper.

Gossip.
Record of Performance Shorthorns. Elsewhere in this issue, F. Martindale
\& Sons, Caledonia, Ont., are offering \& Sons, ', Caledonia, Ont., are offering some real dual-purpose bulls; bulls that have individuality and from dams that have excellent official yearly records for milk production. One is a good, straight, eleven-months calf the noted R. O. P. cow Garnet Quee which qualified as a four-year-old with nearly $7,000 \mathrm{lbs}$. of milk for the year. There is another nine-months roan calf from Rosa of York, a two-year-old, now running in the Record of Per formance which is also a daughter of
Alice of York, a $10,000-\mathrm{lb}$. R. O. P. cow owned by the Alberta Govern-
ment Demonstration Farms. Another, the same color and a month younger is a straight-bred dairy bull all through,
from the Martindale's famous Annie family. He is not showing in too good family. He is not showing in too good
fit at present, but will be well worth waiting for. Last but not least, there is a six-months deep-fleshed youngster by the noted young sire Burnfoot Chieftain, a son of Dairymaid, whose record of $13,535 \mathrm{lbs}$. of milk testing 4 per cent. was, until recently, the highest
for Canada. A few others of various ages, bred with muchice lot in. young heifers make up their entire offering spondence to F. Martindale \& Sons, Plaster Hill Farm, Caledonia, Ont.

Brownlee Shorthorns.
Elsewhere in this issue, Douglas Ont., offers some choicely-bred young Shorthorn bulls. Mr. Brown's herd should not be entirely unknown to Advocate readers as he has at or siferen through
offered a few head for sale these columns, but until recently his surplus has not been large. Most
of his older breeding females are got by of his older breeding femaistopher (Imp.) and Nonpareil Victor, a Roan Lady bull got by Nonpareil Duke (Imp.) milking strains and Mr. Brown wa fortunate in laying his foundation by getting, right in the start, some excellent
milkers of the breed. His offering o young bulls at present are all descended from these cows and are all sired by the
Nonpareil bull Royal Saxon got by Nonpareil bull Royal Saxon got by
Royal Star. These include an even Royal Star. These include an enearly ready for service. Two others by the same sire, one a twelve and the other a 16 -
months' bull with two heifers of the same months bull with up Mr. Brown's conbreeding,
signment to the London Sale on Nov. 8th. The heifers will be bred Douglasbred bull got by the good breeding sire, Roan Chief (Imp.) If you are in the breeding, and at the same time would like to hold as much as possible, to the beef type you would do well to remember the two that are in the London Sale your needs arrange to see the younger ones Mr. Brown has at home,

Questions and Answers Veterinary.

## Heart Trouble.

When quite young one of my calves was dull and took sleepy spells. He did not play like the sther calves. morning and apparently unable to r.se ee frothed from the mouth. After a little so I put him out in the yar and soon found him down again and he would not attempt to rise. We he suddenly started, ran a short distance, then fell over on his side and frothed from mouth. We carried him into th but he soon died.
Ans.-There was pressure upon the Nothing could have been done.

## THE BIGGEST

## Shorthorn Sale

Of the season will be held at the FRASER HOUSE STABLES, London, Ontario, on

## Wednesday, Nov. 8th, 1916

By the Western Ontario Consignment Sale Company
the offering will consist of

## Eighty Head of Choice Shorthorns

> About one-half young females and one-half young bulls. A About one-haceld cow is the only female over three years old. Most of the heifers were calves of 1913 and 1914, and nearly all are bred. The bulls are nearly all calves of 1915 and 1916; the greater number being dropped last year and ready for service. Nearly every animal carries the blood of one or for service. Nearlies such as Lancasters, Village Girls, Wimples, Mysies, Rosemarys, Butterflys, Mayflowers, Minas, Golden Drops, Augustas, etc. Young stock, by such noted sires as Blarneystone, Clansman, Newton Friar, Buckingha Bea Foam, Lucky Star and other first-clas breeding bulls will be sold. This is the sale of the season.

> Sale will begin at 12.30 sharp.
> Get a catalogue now from
> HARRY SMITH Secretary of Sale
> HAY, ONTARIO

## Escana Farm Shorthorns

FOR SALE: Two imported bulls, proven valuable eirese, 12 bulle, 10 to 20 montho old, ath by ime
 mITCHELL BROS. Joe. McCrudden, Manager. Farm / / mile from Burlinton Jet

## Dual-Purpose Shorthorns

One young bull, 18 months old, dam qualified in R.O.P.
sired by College Duke; also number of females. Address:
WELDWOOD FARM, Farmer's Advocate, London, Ont Robert Miller Still Pays the Frolegh-And he isoffering in Shorthoratis nemo of the bee




## SALEM SHORTHORN HERD

 2 mported Clydesdale Stallions, one French coach and t wo Harkney FOr A $A$ ranging in price from $\$ 500$ to $\$ 1,200$, on easy terms. $q$. HENRY M. DOUGLAS, ELMVALE, ONTARIO
Scotch Shorthorns, Yorkshires, and Oxford Downs



SPRING VALLEY SHORTHORNS


Phone and tolegraph via Ayr OAKLAND SHORTHORNS

 Bixizili SCOTCH SHORTHORNS Mit

 imported bulle. They are all good individuals sund represent the choicest breedine. J. A. \& H. M. PETTTT,



1) 1 CT LOSSES sumer prevented 1) WAL Ly cutter's Blackleg puls 15


## 1 YEARLING BULL

Bull calves from 10 months down Could spare 10 cows or heifers bred to the great bull, KING
SEGIS PONTIAC DUPLICATE R. M. HOLTBY, Port Perry. Ont




Lakeside Ayrshires

 GEO H. MONTGOMERY, Proprietor
 Glencairn Ayrshires Herd established 40 40


King Segis Pontiac Paul 15940
 $\substack{\text { Also Berkshire } \\ \text { Yorkshire Swine }}$
Larkin Farms $\begin{gathered}\text { Queenston, } \\ \text { Ontario }\end{gathered}$
35 LB. BÚLL FROM THE HET LOO HERD


 cor, cherry
Gordon Hanhard, Sup.
W. L. Shaw, New market, Ont.
Stops 69 Young St., Toronto and York Radial Cars.

HOLSTEIN CATTLE
 D. C. FLATT \& SON,
R. R. No. 2, Hamilton, Ont.

DUMFRIES FARM HOLSTEINS
 HOSPITAL FOR INSA NE Hamilton Ont Holstein bulls only for sale, four fit for service, one being a son of Lakeview Dultchland, Ont

GLOVER BAR HOLSTEINS



CANADAS OLDEST JERSEY HERD $\begin{gathered}\text { Has for sale several Oxcep } \\ \text { tionally choice voung bull }\end{gathered}$

young Brampton Jerseys BuLLS
 WOODVIEW FARM Canada's Most Beautiful Jersey Hert WODVN FARM Present offering-Some high-class bull calves ready for service from Reord


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 THE LAURIE bRos., AGINGOURT. ont.
THE CITY VIEW HERD OF PRODUCING AYRSHIIRES

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| :---: |
| We want mo | We want more individual shippers and more men to gather rreain for u. <br> Write for our proposition. <br> Silverwoods Limited

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Our markets have advanced. We are paying according to
from 40 to 44 c . per lb . fat. Net to Shippers. Cans supplied. A line will bring you particulars.
Toronto Creamery Co., Ltd. 9-11 Church Street, Toronto

CREAM WANTED Sid pour cram to un
We tuply cans
We remit weekly.
Ontario Creameries, Limited
Harab-Davies Fertilizers $\underset{\substack{\text { Kaid } \\ \text { Remido }}}{ }$ THE ONTARIO FERTILIZERS, LTD. Tower Farm Oxfords
 For Sale ${ }^{30}$ Pure Shropahire Ram Lambe,

 LINCOLN SHEEP $\begin{gathered}\text { Shearling rams and } \\ \text { ram } \\ \text { lam bo, } \\ \text { liso }\end{gathered}$ Stherther and ewe lambs; also some registered
Locust Lodge Leicesters A feality young rams for sale. Good breeding and SHROPSHIP FS
L. G. CLAPKE, and ewe lambo.

Questions and Answers. Miscellaneous.

## Cider Vinegar.

Editor "The Farmer's Advocate": Some person wants to know how make cider vinegar. To freshly made water add one-third good, clean rain you will have good vinegar, and I think it will do in your inquirer's case. Try it, say two pails of your vinegar and one rain water and you are not much out.
J. W. Reece.

Loss of Mare.
I had a mare take sick. I sent for a veterinary. He came, and I was to let she was She seemed better I could not get "Central" to answer till six in the morning, and when he got here miles away She died at four same
day. Can I hold the company for loss. of mare when we are paying for night service, or the man in charge of central. Ans.-No.
A Tare.
 rediable firm in Toronto, dealing in
hides etc. A A hides etc. A received quotations: green
hides so much per lb, part cured much per 16 . etce $A$ note at head of quotations: 11lb. tare; ; yoot note: these shiped a number of hides to B. When
returns came, some ten days returns came, some ten days after,
they were sixty-eight llbs. short of C.P.R. they weresixt-eight ins. short of it.
weight. They stated so many.
oft for dirt, salt, tails, etc. oft ror dirt, salt, tails, etc. Of course,
there were some short besides what they docked.
Ibs. Dare not quotation of so many 2. When they quote prices f. o. b. should they not accept C. P. R. weight at our station.
3. Would it be advisable to take legal steps to
ment?
Ontario
E. E. G.

Ans.-1. No, it is merely an allowance to the purchaser for the weight of the
box or package containing the goods 2. Not necessarily.
3. We think not.

Creosote in Chimney. Editor "The Farmer's Advocate" Replying to the enquiry about a
chimney which gathers creosote, this indicates the use of large quantities of wood fuel, probably with a strong draft. It might happen with a generally bad draft, but is most likely caused by closing the stove tightly the air supply being limited, is burned by the hot coals at the bottom, and the fresh fuel on top is distilled, tar and creosote condensing in the
chimney. This is a waste of good fuel, and the fire-box, which will induce perfect combustion and also act as a check. Large ranges and heaters have a slide
damper for this purpose, but if the stove in question is not so provided a few holes can be drilled near the top of the door. If this is not a sufficient check on the fire then some sort of check damper
must be used. The disk damper, which must be
fits inside the stovepipe, is safe to use
with wood fuel and a good draft. It costs only a few cents and can be fitted by anyone. Other check dampers are
of the circle or flap type, which open into the pipe, and check the draft by admitting cold air. Any stove dealer could supply one, fitted into a length of pipe. A sleeve damper is just as good
and can be made by a tinsmith. The object is to get the draft to a point where the fire burns quietly, without roaring, even when well supplied with air. O course, check dampers must be used in a convenient place. Burn the wood with enough air and there will be no creosote. William Q. Phillips.

THIRIY-THIRD ANNUAL

## Ontario Provincial WINTER FAIR

Guelph, Ontario, December 1st to 8th, 1916 ALL ENTRIES MUST BE MADE ON OR BEFORE NOVEMBER 15th. If you do not receive entry form by Nov. 1st, write the Secretary w. w. ballantyne
R. W. WADE, Secretary

Toronto, Ont.


## 

## RAW FURS

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in Canada. Look up our show record, it will give you an idea of the kind
PETER ARKELL \& SONS, Proprietors, Teeswater, Ont. Customers, beware of imitations of this advertisemen

THE OLD ORIGINAL SUMMER HILL FARM WHERE YOU'LL ALWAYS FIND A

## FIRST-CLASS OXFORD

 Peter Arkell \& Co., Prop. Mlldmay, G.T.R. Stn. Box 454, Teewnater, C.P.R. sth

## Oxford and Hampshire Down Sheep Farnham Farm The oldeost eatablebed

 HENRY AREELELL \& SON, ROUTE 2,

RLCE REASONABLB
GUELPA, ONTARIO BLAIRGOWRIE SHROPSHIRES AND SHORTHORNS 00 Imported Shearling Eves PRE8ENT OP TE R RNGG: JOHN MILERR,
 MAPLE SHADE SHROPSHIRES


Questions and Answers. Miscellaneous.

Closed $\begin{gathered}\text { Seasons for } \\ \text { Animals. }\end{gathered}$ Fur-bearing Animals.

1. What are the seasons for catching the following fur-bearing animals, muskrat, raccoon, skunk, mink, weasel?
2. Can I trap muskrat out of season if same is spoiling tile-drains and pond? Ans.-1.
hunted or killed
No hunted or killed or had in possession
of any person between the first day of
May and the fist or any person between the Grst day or
May and the first day of December, except if their destruction is neecssary
for the preservation of drainage, embankments and dams. No trap, snare,
gin, or other contrivance gin, or other contrivance shall be set
for the muskrat during the period from
May 1 to December 1 without the person thereby incurring liability therefor. The
law law further states that no muskrats
shall be shot during the month of april sor speared at any time, nor shall any
ond muskrat house be cut, speared, broken or destroyed at any time. Open season
for mink is from the first of November to the first of May. We do not believe
there is any closed season for skunk there is any closed season for skunk
or weasel and no one will hunt raccoons
during the sumer during the summer as the hides would
be of no use.

## Milk Production.

1. What amount of milk should a
two-vear-old grade heifer sive to be worth keeping?
${ }^{2} \mathrm{In}$ what proportion, according and up to what age?
2. When would the maximum begin decrease and up to what age will a cow 4. Give amount of milk necessary for registralion under R. O. k. for Short
horns, Holsteins horns, Holsteins, Jerseys, Ayrshires for
2,3 and 4 years old?

Ans. -1 . The amount depends on
local conditions, price of feeds, price
of milk, etc. It is estimated that a
cow cannot cow cannot be kept much under $\$ 50$
a year. This being the case a year. This being the case, a cow
would have to give 5,000 pounds of milk in a lactation period in order ot payk
for her feed, if milk was selling at $\$ 1.00$ per hundred. Over that amount would be profit. Although the average yearly production per cow in Canada is con-
siderably
below 5,000 pounds of milk we do not consider that a cow giving,
less is a paying proposition, provided whole milk is sold. Some cows give
rich mill rich milk, and, if the value is based on
butter-fat content, a cow giving 3,000
pounds of milk may pounds of milk may pay her way.
2. The milk yield may increase from
500 . 500 to 1,000 pounds per year until
the cow is matur the cow is mature. Of course there are
many things which might happen many things. which might happen to
prevent an increase each year or the
increase may be increase may be much more than this.
3 . It is cows have made their highest Some
records before the records before they were matured; others
have made have made phenomenal records at ten,
twelve and fifteen years. If a cow twelve and fifteen years. If
in good health and receives
feed and feed and attention she wecilicosestinue to moper milk
well as long as she lives. Cows well as long as she lives. Cows that
are eighteen and twenty years a large quantity of milk. A Ald cow's
period of usefulness is is usully shite by loss of teeth, or some physical ailment.

## Holsteins

Two years old Three years old
Four years old

## Four year Mayshiure Ayshire:

Ayrshires:

| Two years old |
| :--- |
| Three years |

Four years old
Mature

| Jerseys: |
| :--- |
| Two years old |
|  |

Two years old
Three years old
Three years old
Mature.
Shorthorns:
Two years old
Two years old
Three years
Four years old...

| ${ }_{\text {L }}^{\text {Lbs. }}$ Milk |  |
| :---: | :---: |
| 7,500 | 255 |
| 8,500 9,500 | ${ }_{239}^{289}$ |
| -10,500 | 323 |
|  |  |
| 6,500 | ${ }_{234}^{198}$ |
| ${ }_{7}^{6,500}$ | ${ }_{270}^{234}$ |
| 8,500 | 306 |
|  |  |
| 6,500 | 257 |
| 7,500 | 297 |
| 8,500 | 337 |
|  |  |
| 4,500 | 1571/2 |
|  |  |
| 5,500 | 1921/2 |

## TAMWORTHS

 Young oows bred for Nov. and Dec. farrow, andnice lot of boars ready for service. Write Youn W. Tode. R.R. No. 1, Corinth, Ont Months, from caref ully youlcected boorck. 2 and
 Cloverdale Berkshires and Shropshires







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## Men Wanted

All classes of labor, skilled and unskilled. Steady work, good wages. Apply
Collingwood Shipbuilding Co.
Collingwood
Ontario
 1. The Hoslery trado is booming
 , 2 For Sale-four choice, pure bred
Leicester Ram-Lambs Good type and well wooled. Prices reasomable
Apply to A. F. Younge, R.R.No. 1 , Embro, Ont. Are children naturally cruel to animals? Children are generally just
their parents train them, to be



[^0]:    ORCHARD LEIGH HOLSTEINS
    Offers－several young buls from 7 to 13 months old，all from officially tested dams with records up as
    high as 29.20 lbs．of butter in 7 days．These are a good lot，sired by our own herd bulls，King Veeman
    Ormsbyy and ir Midnight Lyons Waiker Could also lore
    
    When writing advertisers will you kindly mention The Farmer＇s Advocate

