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Agriculture, Stock, Dairy, Poultry, Horticulture, Veterinary, Home Circle.*
Vol. LI.
LONDON, ONTARIO, MARCH 2, 1916.
No 1223


Royal Purple Stock Specific
 day. Will make the animal dizest its foitod proverly
and secure the greatest pood therefrom There has not been a sasason in a decade when it will bes of a bsoo
lutely nece
 Yrain and fod fore that have beens harveststed. . Unless



 Bobe to opeaterect bifir rate ten animals you have never been

Royal Purple Poultry Specific Works entirely on the digestive organs of the poultry. When a bird's gizarad is working properly,
it will be heall it will be healthy, and when healthy will lay just as
many eegss in winter as in summer woy mank esss in winter as in summer. You can fatten
turkeys and other fowl in iust one-half the time on
 ood once a day through the tall


##    

Royal Purple Roup Specific Is a moste excellent remedy and every poultryman
should use it in the drinking waler durin pall winter
 Connell $\&$ Fergusson have to say about it



 (The bird shown in this advertisement is reproPut up in 25 c tins; 30 c . by mail.




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Royal Purple Gall Cure.-25c. and 50c. ckages, 10 and 60 c . by mail. Royal Purple Disinfectant-25c., 50c. and \$1. Royal Purple Worm Powder-25c. tins; 30c
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staves tongued, grooved and bevelled knows that a cheap, inferior silo is a on both sides and ends, making perfect waster and a continuous loss. self-draining, spliced joints - inter Some of the many advantages of the changeable, perfect fitting doors wion HYLO SILO are as follows. patent lock-reinforced door frame o
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Area 49,872 cq. ft.

One Million Seven Hundred and Twenty-four Thousand Dollars for New Buildings in Canada Since War Began WHY?

building containing $1: 32,000$ square feet of floor space. The number of The third Waterloo strect. It is a three story structure having 49,872 square feet of floor space and was erected at at cost of $\$ 161,000$.
The immensely increasing demand for Ford cars in Western Canada made it necessary on mitu a fourth new ,raneh at winnipe. This is a
 The total cost of theme newe Luildiume oreated by the Fond ( Company since war began is $\$ 1,724,000$ ( Additional to this are thousiands of dollars spent to equip these buildings.
Why bas this been done?
First, to providu Ford owners with grater service facilitiom, Fach of these branches is so complntwy cequipped with parts and machimery as the humbreds of Ford d laylers in their part of the coruntry, ach of whose place of business it a woll cequipped Ford service station, in giving more The secend reaton for this , great amomint of development werk to to be found in the attitude of the Ford Canadian exereutives, If these men had food judgment, might have held up these plans for such enormously But such was not their attitude. They were convinced that progress This decerision was of vat benefit to Camadian industrives, Canadian morerhants and Conadian workmen in surch a eritical time an this, PracCanadian workmen were employed in their construction. Aud after the enthu iastic sureessful, wealch producing and distributing activities of

Ford Motor Company of Canada, Limited, Ford, Ont.
Ford Runabout $\ldots-\$ 480$
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## EDITORIAL.

At the rate the Allies are going they will have Turkey for Easter.

Perhaps the garden is being moved to a new corner There will be a suitable layout published in these columns, March 9th.

Spring on the Calendar does not always mean spring on the farm, but seasonable seeding weather usually comes before some are ready for it.

The High Cost of Living Commission have turned In their lengthy report, but still the public are paying In their money and taking their choice.
Do you know the best varieties of garden vegetables and how much seed to sow per length of row? The and how much seed to sow per length of remer
Farmer's Advocate will tell you next week.
The chilly reception given some of the Ottawa
Budget speech taxation proposals by mouthpieces of Budget speech taxation proposals by mouthpieces of
big interests will be reassuring to the common people of the land.

Thousands of dollars were lost in 1915 through Thousands of dollars were lost in 1915 through
tarmers neglecting to treat their seed grain for smut. farmers neglecting to treat their seed grain for smut.
Such loss must be avoided in 1916. Treatment will be Such loss must be avoided
outlined in these columns.
Good farmers are beginning to talk over the various methods of cultivation practised. You can speak to to know abqut your own practical methods and results.
The war is turning the few fertile parts of Africa oot held by the British and French at the beginning of the conflict into their hands. A map showing the British possessions on that continent shows practicall British continent.

It is time to be getting the farm motive power prepared for the work which soon must be done, and when spring comes have everything ready to get the most out of the horses and still keep them in good condition. Read how in this issue.

Farmers' Institute speakers who require above from one half to three-quarters of an hour to present a practical topic have something yet to attain in the mor effectual use of language. There are not many spell tinders who can hold a crowd for a full hour

No farmer can afford to be without a good garden. He owes this much to his own family, to his own stomach to the happiness, comfort and prosperity of the home. man just what he wants to know about a farm garden.
Mr. Dairyman, did you ever calculate in cold cash how much it costs you to raise a dairy cow? If you didn't, look up the Dairy Department of this issue and and out. If you did, look up the article mentioned, xiven corre-pond with your own findings.

We remenly attended two live-stock sales, each of Which over $\$ 9,000$ to the owner of the stock. from a - + beginning, in eight years. The uther was beginning, in eight years. The other wask sale of Shorthorn cattle raised or

LONDON, ONTARIO, MARCH 2, 1916.

## Is Liquor Tying the Empire's Hands?

Since the outbreak of the war the attention of thinking people has been turned toward the liquor business, and much criticism has been heard regarding it in many of the belligerent countries, as well as in meutral nations. ally wiped the business out of that of hation, and in one ally wiped the business out of that nation, and in one year from the of the peasants increased $\$ 900,000,000$ batwithstanding the fact that heavy calls were made upon them in the way of taxes to foot the war bills. In that time also five thousand new banks were started in that country Farly in the war France limited the liquor traffic, and of all the enemies which the British Empire is called upon to fight Lloyd Gearge says the liquor traffic is the strongest and most dangerous the liquor traffic is the strongest and most dangerous. It sity, the liquor traffic should o. We may lay aside a!l moral reasons, and get down to economics In 1914 Canada's drink bill was $\$ 103,019$, 128 , or $\$ 1276$ per head of population. This money if turned to the equipment of population. This money, if turned to the equipment considerable distance toward making it and keeping it efficient. The London Spectator has been promoting efficient. The London spectator has been promoting a movement under " "We must fight the Germans with both hands, and not with one hand grisping ans with beer hands, and stinence. The New York the slogan, suggests that the "Down Glasses" program should be permanent rather than temporary.
A recent Conference including representatives of twelve of the leading Christian denominations in Engand united endeaver on record as faving unremitting move strong drink, with its gre and hurful eveThe Archbishor of Canterbury wid that never before was there such wide recornition of the urgent need for temperance, and in his belief the churche with the excellent example of the King before them, could ac complish mach. at the achg beores complish much. A the sat of the Spectator stated that in his opinion the sale of intoxicants for the duration of the war should be pro-
hibited. hibited.
It should not be necessary to go further into this subject. Readers should weigh the matter carefully, Russia, what restricted legislation has accomplished Russia, what res with ecomplished in David, togeth George the Archbishop of Gan as David Lloyd-George, the Archbishop of Canterbury, and also Loe sidering , and also considering that Canada consumes over eight gallons of intoxicants per hicad at a cost of $\$ 12.76$, each year, totaling our that the comsumtion of linved, and considering also that the comsumption of liquor is greater per capita in to ela here would seem Empire's hands to in favor of continuing to the the Gempire's hands iquor, when they are needed to fight Germany. Drink has been the worst menace to and of war, need of the Allied Army. Whether the the greatest need of the Alied Army. Whether the iquor trathic is ariven out of existence by legistation, or by popular opinion due to education, matters not, so long as it goes. We betieve the quickest way in Canada would be an expression of the opinion of the people, followed up by Government action. It is a question worthy of the hought of all people interested in the welfare of the nation, and we are ircher needs two hands to fisht with suc says: "If a man needs two hands to fight with, succecsfully, how can he get along effectively with fewer to work with? If a
nation at war cannot spare a hand to hold the liquor nation at war cannot spare a hand to hold the liquor
glass, how can a people at peace?" glass, how can a people at peace?"

## Farm Efficiency.

The twentieth century business-man read a great deal about office and business efficiency. Men like E. E. Purinton are devoting their lives to studying office work of promoting directing service departments in the our farmers to take a leaf might be well for many of book, and do a little thinking on his own behalf, with regard to farm efficiency. Many men who are industrious, steady, hard workers are such poor managers that they never make thề success which they should of their farming operations. There is no system in their efforts They work hard, but not to advantage. Their farme may be poorly laid out, and their buildings unhandy, necessitating many useless steps, and consequently the loss of much time. They do not know what branch of their business pays them best, and many times certain branches lose them money each year, but, with no system of cost-accounting they cannot ascertain what pays and what does not. As has often been stated through these columns, no business but farming could be operated, and the owner still keep his head above water, with so little bookkeeping and intimate knowledge of the financial affairs connected with each branch of the business. In this issue we publish a short outline of one man's bookkeeping system, and some hints as to his method of farm management. The system may be too elaborate for the average small farmer, but it contains ideas, and, of course, these may be modified to suit the conditions on the 100 -or-200-acre farm. The best and surest way to reduce expenses and to boost returns is to keep accounts and find out just what each branch of the farming operations is returning in dollara and cents. The dairyman tests his cows that he may have evidence against the poorer ones to discard them and testimony in favor of the good cows which ensures their place in the herd. Why not put the test to every department of the farm work by keeping books. A system of farm bookkeeping will show the leaks and the farm efficiency which will follow should successfully stop them.

## Team Work Needed.

We are pleased to note that some recognition is at last being given to the fact that it requires some men to farm the farms of this country, if production is not men are far below the average. Some of our military men are now suggesting that recruits from the rural districts be allowed to return to the farms, to help with the seeding and harvest; and others are suggesting that return retired farmers hiving in the villages and towns return to the land, that more of the young men may be released for military service. We are pleased to note that military men are beginning to thimk Cr these $\mathrm{thin}_{5}$, , , but we should like to point out that, valuable as will be the help of any recruits who may be allowed to return during seeding and harvest, farming is an all-yearround busy oeason for the man forced to work 100 acres alone, or with the help of only one man. True, seeding and harvest are very busy seasons, and the number of soldiers available would be of great service on the land where farming is carried on as it is on the prairie; but things are different in Ontario. The successful farmer here is engaged in mixed farming, including dairying and fruit growing, which requires men during the entire season. We beheve that it is a good move to allow soldiers to help with the seeding and harvest, and we also betieve that many retired farmero will be found doing their bit in the fields this year; but, as a general thing, retired farmers have been working on the farms more or less during the summer season, helping their sons who are now on the farms, or assisting neighbors over the buslest of the summer's work. We
would not expect a very great increase in the supply of would not expect a very great increase in the supply of
labor for the farm from the suggestion that retired

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7. THE DATE ON YoUR LABEL ehowe to what time gour
8. ANoNMOUS ocmmunications will recive no ntention. In be diven

10. LETTRRS Intended for publication should be rritten on

2. WE INITE FARMERS to mite as on any artcolural







[^0]Empire, Kingdom, Principality, Power.
Empire, Kingdom, Principality, Power-the greedy desire on the part of Individuals, classes, peoples, nations, or groups of nations for these four has woven these words across the historical pages of past centuries in blood, and, when the history of our own century is written, these four will inderibly bot its paral dominion, controlling influence, sovereignty, pre-eminence, authority, rule - the desire for these has divided peoples, hations and alliances; has caused riots, rebellions and wars; has spilled the life blood or her histories cf the advertisement of one oularly to the Napoleonic wars, whis statement is made: "All the underlying causes of his conflict, the racial antipathies, the commercial rivalries, the sting of past defeats, the vaulting ambitions for world Empire may be discerned from the pages of history
Instinctive antagonism was common in the early days, and is still alive in certain peoples. The sting of past defeats is sharpest where pessessions are wrested from the rightful owners without cause, and where the conqueror exercises tyrannical power wil so to be ssubjected. World peace can never prevail so long as territorial agsrand he leaders of any most in the minds ar the leaders of any stror commercial rivalries are stronger than eve believed the history of the worla, and by many are belien be one or the underlying causes of he prese conct And the uncurbed anbition don will surely bring the Kaiser to grie as it dicl Napoleon to deprive others of their just rights and privileges
to deprive others of their just rights and priviteges.
We have been thinking of the State. Let us bring the question home to the individual. The State i the public - the sum total of the individuals in the cour is litle when they themselves are the Covernment. People will. The reads of sovernment eicat whon the the people of that nation. What use, then, to srumble when the man, or the party elected, does not alway walk the straight and narrow way? Even the absolute monarch, in this age, must have the backing of his people. We are inclined to think that graft and some of those elected before they entered the political century, and the greed for gold is so rampant, that then what can bee expected of them when they become puthlic men with larger opportumities and greater de-irec far as these may be exercied by the individual? These become predominant. The Dallar occupies the centre of the stage in the lives of most men and women. The of all manner of war-order scandals of graft of many kinds and descriptions. While the fate of nations
 fat financially, at the expense of the country they every public rostrum. And why do they desire money Simply that they may have a little more of Empire Kungdom, Principality, Power. And over whom? Their fellowmen. "Our Scottish Ietter,"" in last week's is affecting people in the British Ises warleter times and conseruenty do they a full day six days of the week, although the needs the country demand that they should. They are wealth. The wives of p,loughmen and stockmen refuse to milk the cons as they did hecause their husbands do it. More power from mones, exercised when the

It is time the ideals of the people changed to be more compatible with those for which our armies are fighting. Right must prevail, but before it does greed and moneygrabbing by foul means must vanish. The world's for Empire, Kingdom, Principality, Power-Moneyme mase des in keep must our country stands. Our ar mor territory but for Why should individuals, composing the adion, we the war as means to unjustly srab more mone whe they hope to use to get them more power?

## The Cost of Living Report

The Royal Commission, consisting of John McDougald, Commissioner, of Customs, C. C. James, Dept. of Labor, and J. U. Vincent, Deputy Minister of Inland Revenue, appointed Dec. 20, 1913, to investithe House of Comraons their report of two big volumes of over 2,000 pages. It deals with the fifteen years prior to the outbreak of the war, and the increase in the cost of living was found to be practically 50 per 1. The increase in the gold supply, which reduces he purchasing power of money.
2. Manifold forms of extravagance and wastage, public and private, individual and social.
3. Restricted supply following upon dispropor-
tionate urban development as compared with rural development.
4. Uneconomic methods of distribution and market. ing of products. poor.
6. ${ }^{\text {ing }} 7$. The gospel of ease which has permeated the national life of the Anglo-Saxon race
8. Too uneconomical household expenditures
9.The effect of mergers and trusts and combines
10. Dearth of farm labor at reasonable price 11. Over speculation and undue increases in th price of land.
The Comm
tariff as the cause of the main advances in prices during the 15 years following 1897, and they skate very gingerly around the thin ice of the protective fiscal The Commission is none too severe upon waste and extravagance waste in marketing, waste through purchase in small quantities, through looking for flavor or tenderness instead of nutrition, the waste of cooked
foods; poor storage facilities in the kitchenettes foods; poor storage facilities in the kitchenettes on
modern apartment houses, buying new articles when old ones could be repaired, paying too much for foods in packages instead of bulk, waste in telephoning smal orders to stores, thus necessitating frequent expensiv
deliveries. The recommendation is made that all pack deliveries. The recommendation is made that all pack-
ages containing food be required by law to be labelled distinctively, giving the net contents by weight or measure. Special attention is directed to the appalling wastes by fire, due largely to wooden buldings, poor
constraction and carelessness. Coming to remedies, the report advocates public
ownershin of all utilities in cities and towns, such a ownership, of act utilities in cities and towns, such a
water, gas, clectric light and street cars. Public mar kets and abattoirs with cold storage at large centres, independent management are recommended; also made ore attractive; standardization and improve ment of the quality of farm products, and co-operation in their distribution; extension of the parcel workiny capital, especially for Western farmers; comprehensive system of vocational training, and better understanding of the fundamental principles of production, marketing and purchase
Under the head of "Production"
emphasis on the fact that in case of many agricultural products Canada has not, by any means, kept pace with the increase in population. How could it do so, the reader of this report may well ask, when the
policies of the country have been depleting the rural population, and concentrating it in the cities and towns? Right here is the crux of the whole matter

## Nature's Diary

A visitor from the north which is with us at the present time is the Northern Shrike. This species is from nine to ten inches in ength, clat the feathers of the back over-lie the upper part of the wings. Beneath it is white with wavy transverse lines of blackish. There is a black bar along each side of the head. The
wings and tail are black, the former with a large white wings and tail are black, the former with a large white spot near the edge of hers tipped with white. The Northern Shrike breeds regularly from I abrador o the Mackenzie River region, only very occazionally nesting as far south as Central Ontario and Suthern
Quebec. In the winter it comes down into sumthern es are fighting. ed and money.
The world's The desire 5 more in keepy stands. Our ritory, but for stly grab more

## port

of John McStatistician aty
o13, to investi-
a have handed wo big volumes e fif increase in were:
which reduces $e$ and wastage, pon dispropor-
red with rural ion and market. both rich and ocational train-

THE FARMER'S ADVOCATE
and small mammats, among the latter the Meadow Mouse being its most frequent victim. Of birds it has been known to kill the following species: Chickadee,
House Sparrow, Tree Sparrow, Snowflake, Downy Woodpecker, Junco, Golden-crowned Kinglet, Field Warbler, Mourning Dove, Cardinal, Longspur, and Shore Lark. Of these the Junco, Tree Sparrow and House Sparrow are most frequently taken. In captur
ing its prey it strikes with bill, and not with its feet after the manner of the birds of prey. Mr. R. G. Price writing of this species in Quebec says: "I have seen Shrike dart into an evergreen tree, where there were several Juncos, seize one and crush its skull with it
powerful beak, start off across a field with it and when in midair drop it from its beak and catch it with its feet without any apparent effort." Mr. William Brewster, the well-known ornithologist of Cambridge, Mass., states that he saw a Shrike seize a large Meadow Mouse by The mouse, instead of trying to escape, sprang at the The mouse, instead of rying to escape, sprang at the by several well-aimed passess succeeded in intimidating the mouse, and then as the latter turned to run away, terrier would a rat. The mouse was afterwards borne of in the Shrike's claws and fixed in the fork of a tree. Shrike does both harm and good-harm by its killing of valuable weed-seed eating birds, and good by its destruction of Meadow Mice and House Sparrows. It eeems probable that on the whole it does more good
than harm, particularly as in the summer it feeds largely on injurious insects.
The nest of the Northern Shrike is placed in a bush or low tree and is composed of sticks, strips of bark, moss and grass, and lined with fine grass and hair. The eggs are from four to six in number, greenish-
gray, thickly marked with purple and reddish-brown. Tree Spother winter visitor that is now present is the from other sparrows by having a chestnut crown and O plain, gray breast with a dusky blotch in the centre. stroying the seeds of noxious weeds, as during the
winter its food consists entirely of grass seed and weed seed. The Tree Sparrow breeds in Labrador, around Hudson Bay and in the Athabaska-Mackenzie region.
In its winter migration it goes as far south as the In its winter migration it goes as
Carolinas, Kentucky and Kansas.
During the winter the Tree Sparrow utters only
its tinkling call-notes, but in early spring the males break into a very sweet song. They usually leave for the north early in April, though in some years I have
seen them in Ontario in early May. Other northern species which have been seen in Grobseak and Pline Grosbeak. AAl, these birds belong
to the Family Fringillidæ-the Finch Family-and all to the Family Fringillidx-the Finch Family-and all
are very erratic in their movements, being very abundare very erratic in their movements, being very abund-
ant in some localities during some winters and scarce
or entirely absent in other winters or entirely absent in other winters. Most of our winter
visitors belong to this family, the reason being that
the finches are the finches are seed-eaters, and are thus able to find
food under conditions when an insect-eating bird would The other day my friend, Mr. H. C. White, found
three Meadow Larks in a marsh near Kingston. This species does not usually winter as far north as this,
though ! have records of it wintering at Guelph. The Meadow I.ark fecerds on sceds as well as insects. Th and
thus able to find food here during the winter. was seen on December 21st. This is another bird which usually winters to the south of Ontario, and only occas-
ional individuals are seen here in winter. I remember one which spent the winter at a place known as "The
Rocks". in the valley of the Speed River near Guelph. Here it fed of the seeds of the Maple-leaved Goosefoot
which was abundant in a little clearing.

## THE HORSE.

## Lameness In Horses XI.

$\qquad$ of the back sinews) is a frequent cause of lameness in the knce to the foot in the forse, and from the hock to
the foot in the hind limbs, on the posterior aspect of the limb, The lameness is more frequently speen in arses used for drawing heavy loads, but it is not by Symptoms.- The symptoms of the lesion are easily
recognized. Lameness, more or less to the severity of the lesion will be noticed, the patient going practially on the toe, not wanting to allow the tion reveal the tendons swollen, hot and tender pressure in prt between the knee or hock and foot.
In very.
their and ates the tendons are swollen throughout their wh. lewh. Pressure upo the swollen part
causes. wharked pain, manifested by the patient quickl. Wharked pain, manifested by the patient
he will $\quad$ the fort, and, if pressure be continued
Tr. his hind legs if the trouble be in front Trem-its in shoeing with a he in front.
shoe,
repow.
timer

make a pint. When the acute soreness and inflamma tion have subsided, change to cold water and a stimulant liniment, as one composed of 2 oz . oil of turpentine, 2 oz. tincture of arnica, 4 ox . alcoho, and water to mak a pint, and, in an hour after applying the linimen
apply a bandage that has been soaked in cold (commonly called a cold-water bandage) to be lef on until time for the next bathing. If a thickening of the tendons remains, or lameness continues for longer
than two or three weeks, a blister should be applied. In some cases repeated blisterings are necessary, bu
unless the lesion has been very severe the case is likely to yield to ordinary treat ment.
sprain of the suspensory ílgament
This is a ligament that extends on the posterior
urface of each common surface of each common bone, in front of the flex or
tendons, and close to the bone, from the knee or hock to the pastern. It is attached superiorly to the bones of the
knee or hock, is flat and thin, passes down close to the flat, posterior surface of the bone to near the fetlock passes outwards and downwards, and the other inwards and downwards to the anterior surface of the limbs, where they join the extensor tendon of the limb about
the pastern joint. The edres of the ligament can be mer the pastern joint. The edges of the ligament can be
readily felt in the healthy limb, and in highly-bred clean-limbed horses can be readily seen. Severe sprain of this ligament, with rupture of its fibres is often seen in race horses, and is called "breaking down." In scends, sometimes to the ground, and fetlock pad defoot turns upwards when the animal works. Horses that have suffered from this severe lesion will make a partial recovery, but a thickening of the part is always permanent, and the patient never again able to stand this severe lesion that we wish to write, but of ordinary sprain of the ligament. This may occur in any horse from slipping, heavy drawing, driving over rough roads
cases, should be adopted first, followed by cold, and stimulant liniment, and this followed by repeated blisters. A rest of several months is necessary. WHIP

Some Great Sales of Horses in England.

## Editor The FArmers advocate:

A Shire horses are selling extremely, well in England A few dispersals of existing studs have been held, and That we are in for a Shire boom we all recognize, made breeders are getting ready. For instance ogne astute man who is a lawyer by profession and a-horse breede for a hobby this time last year only had half a dozen
stallions. To-day he has 15 or and he has found a litle gold 16 -he is still buyingand hiring them out to breeding societies at fees ruein up from $\$ 1,000$ to $\$ 2,510$ a breeding season. One stal $\$ 5,500$. This stallion does not belong to $£ 1,100$; roughl $\xi$ man here mentioned, but he is in the the legal gentle shire breeder, who will soon get back the $£ 2,000$ he paid Lor him at the Norbury sale. Our governmental scheme real good horse-raising is going apace and doing goodment devotes sums of money to areas where far Govern a desire to improve their stock A commers show agriculturists put their heads together, form a horse breeding society and then apply to the Governmen or financial aid. This is readily given them and they themselves or they hire one each season from a fo man who has a lot to hire out. All stallions used under this scheme must have the Board of Agriculture'
certificate of soundness examination in wind, limb, feet and joints. They musi be top hole or they are condemned to a solitary musi useless exi tence Some valuable blood and some peer less stock some peer
the scores of on


Willow King [17115|.
This good two-year-old, by King Thomas \&mp.) (9254) [12 (1265]. and out of Jean (imp.) [25238]
and weighing 1540 lbs. is for sale by $\mathbf{T}$. J. Berry, Henall, Ont.

Symptoms.- The symptoms are not as easily no-
ticed as in sprain of the tendons, as a sprained ligament ticed as in sprain of the tendons, as a sprained ligament
does not present well-marked swelling. The lameness will be more or less severe, according to the extent of the lesion. When standing the patient will point the foot, and during progrestion will stub the toe, and avoid, as far as possible, allowing his weight to rest upon the
heel. Careful manipulation with thumb and finger heel. Careful manipulation with thumb and finger
will locate the seat of the trouble. The course of the ligament from knee or hock to the fetlock joint should be carefully followed, and gentle pressure exerted all
the way down. When the sprained part is reached the way down. When the sprained part is reached,
the horse will evince pain in the usual way. It will be plainly noticed that there is almost an entire absence of local heat and swelling, such as are noticed in sprain ness to pressure is well marked. Treat ment.-In ordinary cases, the same treat ment often noticed that the lameness is more persistent, does not so readily respond totreatment, and is more liable to
recur, hence, in most cases, a longer rest is necessary. In severn case, where there is rupture of a part or the whole of the ligament, with a greater or less descent
of the fetork pad, it is necessary to place the patient
in slinge, pad between the hoof and fetlock joint behind with bating, and apply a bandage to retain the padding, in order to support, as well as possible, and to some
 Top figure $\$ 2,150$ was paid for Harboro Charming King, a 1909 son of Tatton Friar. Young stallions
made around $\$ 1,100$ and many dozens of young fillies fetched $\$ 500$ to $\$ 650$ apiece. These are to be the future breeding stock for the "call" that Europe will make upon England when the war is over.
Again, at Peterboro' the fine young stallion Pick ford Coming King, the property of Robt. Heath head to the bid of Thomas Forshaw for $\$ 4,000$. Many sold and made $\$ 22.370$. for the 37. Lord Middleton paid $\$ 1,900$ for a apiece year-old, Blackmoor. Autumn Berry a three a hearee Stud Farm, Illinois and at $\$ 1,000$ also Truman's Pioneer At Dun=more. Tom got the two-year-old stallion, Slogan Dunsmore Morning Star, by Tattren Morn-old stallion, 83,050 , and was bought by Davis Brothers, a young
firm of Welsh breeders who are going ahead in the Shife four-y. The Duke of Westminster paid $\$ 2,050$ for the four-year-old stallion, Dunsmore Coming Star, a hall or $\$ 655$ apiece. J. E. Atterbury sold his lot at an $\$ 20,975$ of $\$ 500$ each. I figure it out that from four studs one stock worth $86.3,650$ have changed hands within
wo days.

The belief that a heifer twin with a bull is un-
certain, if not useless for breeding purposes, has received
farm sale made goodly prices. A mare and her tw
produce realized $\$ 3,615$, or an average of $\$ 1,205$ each. Col. Fairfax Rhodes, the Gloucestershire Shorthor breeder, has a rare pedigree
Actress, which has produced no fewer than seven calves Actress, which hare than 33 months. On April 6,1913 , she had twins; on March 8, 1914, a cow calf; on Feb.
18,1915 , a cow calf; and on January 22, 1916, triplets 18, 1915 , a cow calf; and on January 22,1916 , triplets
-three cow calves. All three calves in the last con--three cow calves. All three calves ind spring is being reared. The twin bull calves of 1913 were sold at the Royal Show at Nottingham for $\$ \times \theta 0$ and $\$ 350$, respectivel
with quantity surely!
 S certain, if not useless for breeding purposes, has received
fresh confirmation at a meeting of the English Shorthorn Society. A member of the Society applied for an was in calf. The Council took the safe course of informing that member that a certificate could not be was in calf, or had calved ' S.F. Edge, the old motorist, whose pig herd I once described in these columns, which is a real moneymaker. On January 7th, 1915, whe farrowed eight piglets and five of the youngsters
she
were sold for $\$ 2: 0$, three gilts being retained. She
farrowed again on July 12 th, 1915 , and had 12 youngstere Ten were sold for $\$ 240$ and two were, retained. Thuo those sold made $\$ 500$, and he has left five perfect gilts
he estimates worth $\$ 250$. Few animals on the farm he estimates wort a good return for such a small expenditure. Sive such American buyers are taking Aberdeen-Angus bulls out of the country in shiploads. South African buyers are after Sussex cattle and are paying over $\$ 350$
apiece for bulls of that type. They are fine beef makers apiece tor buls of that type. They are hine beef makers
The Old Country has still a good kick left in her. The R. A. S. E. Allies' Relief Fund now stands al
$\$ 250,000$. It is soaring rapidly. The R. A. S. E. Allies' Rel
$\mathbf{\$ 2 5 0 , 0 0 0}$. It is soaring rapidly.

## Getting the Most Out of Farm Horses.

Labor has become one of the most important factors in farm management, or farm economy. Many land-owners will this season attempt to manage all their work without extra labor, and thus keep down will probably be maintaining five horses on 100 acres, at a total annual expense of $\$ 500$ or $\$ 550$. The problem confronting the farmer is to get as many hours of work out of these horses as possible, in order to reduce the cost of their labor. The average employer of farm labor will consider long and hard how much he can afford to pay for manual labor, but, at the same time, he will give little consideration to the cost of the power with which he operates his machinery. The item of horse labor is a larger factor than that of manual labor, but it is more under the control of the employer. The price of hay and grain, type of buildings, and value of the animals, all determine the cost of keep.
tent these items can be controlled, and expenses can be regulated, but an employer bids on an open market for manual labor, the price of which is determined by the law of supply and demand. A study of the whole matter relating to the getting of all possible horse-hours out of the teams, may infuence the farmer to some extent in engaging men to handle those horses. At any rate there must be a certain amount of system governing the operations wher horses are used. The aim should be to increase the number of hours which each horse works, for this will decrease the cost per hour. Calculations cannot be confined to the period from the first of April to the first of December. During the winter months, the animals are consuming hay worth from of grain $\$ 16$ per ton, and perhaps a certain amount of grain.
All these items must be considered, and they all help All these items muse the cost of horse labor per hour higher than the average farmer would expect.
What does it cost to keep a horse one year? No What does it cost to keep a horse one year? No
two individuals owning farms, or using horses in two individuals owning farms, or using horses in
other lines, will answer this question exactly alike. other lines, will answer this question of horses will require a superior man to care for them, while another class of animals can be cared for by a common
or the buildings and equipment may laborer. Again, the buildings and equipment may
be vastly different, and this will lead to a variation be vastly different, There should also be an interest charge on the valuation of the animals. In these items lies the possibility of variation in cost
of keep. Every owner of horses can make his own of keep. Every owner of carcumstances under which he operates.

The cost of a Horse-Hour.
A very complete record of the cost of keeping
horses and the work they perform is kept by P. E. horses and
Angle, Superintendent of the Lynndale Farms, in
Vorfolk County. The records of one year's work Norfolk County. The records of one year's work
show that 29 horses performed 45,503 hours of latoor,
which means $1,56 i 9$ hours per horse, or an averave of about 157 days per horse per year. A feeder is employed constantly in the barns, feeding and gaged in directing the operations of the teams and The following statement will give the reader some Interest on value of horses $\$ 35010$ Oats and wither concentrates, including mo- 2,37489

this statement of expenses. ©Only recently a repre-
sentative of "The Farmer's Advocate" visited Lynn-
date Farms, and studied the system under which dale Farms, and studied the system under which the horses are managed. on the farm the year round. About four teams were being kept each day in harness; the remainder grain allow little work and receiving a very and a little molasses meal each day. No doubt the animals could be kept in better fit if the teams were worked day about. However, the expense of keep-
ing the horses shod, Mr. Angle asserts, would more than nullify other advantages. Possibly many farmers could strike a lower rate
for the horse-hour , han 11.64 cents. Those who can are probably making use of their teams in winter to haul manure, wood, gravel, ice, and do those sundry jobs so common on every farm. Yet in sum-
mer, where a thorough system is not in vogue, the mer, where a thorough system is not in vogue, the
chances are that horses will enjoy many idle hours
and several idle days. Under the same system and

Assum. Assuming that we have horses in proper condition
to work, the next thing in order is to have such a system as will insure the greatest efficiency on the part of the team, and also on the part of the man who drives them. Working two horses abreast is horses cheap, and labor costly, there seems no alternative but to work three or four horses in the one team controlled by one man. This has not been uncommon in agricultural districts east of the Great Lakes durwas adopted and on the Prairies the practice there demand it. We have now come to an era io Eastern Canada where larger implements and more horses should be directed by one man. While, as previously stated, this practice is not uncommon, it should be extended, and under conditions as they now exist, it should be made as nearly universal as
circumstances will pernrit. This applies more par ticularly to the farmer alone on 100 or 150 acres
 Even if there are two busy at work not requiring horses, while One modification of this principle is sug.
gested by a practice gested by a practice
adopted on Lynndale Farms. It is the cus tom there to worl
some heavy imple double-cut-away disc, with two horses, in the forenoon, and replace that team with another
in the afternoon. A in the afternoon. A
good team of horses good keam the harrow
woll king busily for hall
mover a day, but it would not be feasible to use the labor would be too severe. This it the custom in the
orchards, and under similar conditions on that farm.
Three - horse and four-horse eveners can slight expense. These should be prepared to be at tached to any imple ment or wagon as soon
as the occasion arises in the spring. Strapp and reins should me ready to attach to the ordinary double har-
ness with which to rein ness with which to reip
would also be wise to similar management, it would be possible to get more any size of team desired. It would also be wise to than it is on Lynndale Farms. The latter is a ling most liable to to give way, during the heavy teaming largely to fruit trees. Commonly, there would not Many idle hours on the part of the teams can be fruit farme, as on a holding where mixed farming is prevented if the implements receive the proper over practiced. The almost constant cultivation reymired every thing made right before the horses are hitched by an orchard, during the growing scason, might to it. As a safeguard it would also be well to have plantation in summer: however, on the farm mentioned field wo these implements. Standard-sized nute shoult do on any well-regulated farmproducing the other incidentals, such as wire, leather, and anything pupsilitity for the averuge farmer to provide his horse repairs. A walk across 100 acres to the buildinge l.for a cost of 11.64 cents, hut the writer is of the for such as these in time of mishap is all waste time. 12, memt have heen stated astheactualcostsof a horse- both to the man and to the team. of il on their machinery. Not anly does it prolong the life of the implement in use, but it prolongs the life of the heast that draws it. Where hard lubri-
cants can he utilized they should be applied when $-+=-=5=$ - - = =- =
siderable importance. More could be written about the management and care of farm machinery and
its relation to the efficiency of the team, but suffice o say that more system, care, and oversight could satisfactory results.

Fitting For the spring work
Owing to months of enforced idleness, many horses altogether unfit to cope with the demands made the lack of exercise, and on account of diminished allowances of grain, numbers of horses lose muscular aervous and respiratory tone. It is poor manage-
ment indeed to simply maintain work horses the land is fit simply maintain work horses until at hard labor. The result too often is sore shoulders and ilness that may incapacitate the animal for some
time. It requires four to six weeks, and in some cases more, to fit a horse lacking in tone and energy, to
a condition suitable for good, hard, steady,spring work. Where grain has been fed sparingly, the ration Girst. Rough fodders should be replaced gradually by good hay. Along with this gradual building ap of suitable rations, exercise should be provided With quiet horses a man can ride one and lead tw more, and thus give them a gradually increasing ystems are hardened and improved so they are cap able of performing 10 hours of steady work. A com pe made in a week or ten days, but it requires a longe be made in a week or ten days, but it requires a longer
period to properly fit a horse for regular work. One
should not consider the time Ing the animals. After the land shows signs of be
coming dry, seeding is rushed forward with the great coming dry, seeding is rushed forward with the great-
est possible expedition. Soft, or ill-conditioned horses provide unsatisfactory power for performing strenuous
labor in a limited time. Roughly-wintered horses are akely to be clad with a long, coarse coat of hair
A perspiring horse will become very uncomfortable in such a coat. After the season becomes warm and give the animal proper attention, as to proter fion from chills and colds.

The Number of Horses Required
The character of the farming carried on will in
duence to a large extent the number of acres worke over by one horse. With mixed farming there is
a diversity of crops, and a certain amount of order or succession about seeding and harvesting. One than on a small one, due, perhaps, to the fact that
freater intensity of cultivation is practiced where the acres are few. At the convention of horticul N. Y., one grower said that a team of horses would operate 30 acres of land on this plantation. On Lymndale Farms, mentioned early in this article, one team Superintendent, who has given the of land, and the labor considerable study and attention, now believe in a reserve of horse power for the farm, large or small and says six would be better. The the average farm han on crowded into a shorter period on a fruit frab Warren, in holdis book where mixed farming is the order piled records taken from 586 farms operated by owners On a holding containing from 101 to 150 acres, one 151 to 200 acres comprise the farm, the average 41 acres to each horse, and for a farm over 200 acre 6gures appear high, and were the average. These a system of farming unlike our own is in taken where this country four horses on a 100 -acre or 150 -acr of the year four sufficient. During the greater part
gould be ample, but adequate horse power during seeding and spring work is a prime
requisite. There is such a thing of course requisite. There is such a thing, of course, as horses the greater is the need of a system regulating thei
labor. Farm management is one great scheme so utilizing labor and capital one great scheme of to the advantage of each other. All farm operations

## LIVE STOCK.

How You Can Smoke Your Summer Meat.
nathe cuttom of putting up a summer supply of meat







does not relish salty pork, there are but few people
who do not enjoy eating sweet-cured, smoked ham who do Sacon. Sm . undertaking. A summer's supply of meat is not a difficult to smoke the meat six feet square and eight or nine feet high is large enoug o smoke the meat required by the average family house, if sufficient ventilation is arranged. On account of danger from fire, cement, brick, or metal walls ar preferable to those built of wood. Lumber may be used for the roof, as there is not supposed to be much
flame. The firebox may be built in the centre of the floor, but, if possible, it should be placed so that the meat will not hang directly over the fire, for fear of too
much heat frying out the fat and injuring the flavor much heat frying out the fat and injuring the flavor Possibly the most modern method is to have the fireboy ing through a flue. If there is only a small amount


The Right Kind of Yorkshire
meat, a barrel may be used as a substitute for a smoke placed on supports half over a pit. The meat is suspender rom sticks placed across the top of the barrel. The fire built the pit and the smoke fills the barrel, over Various kinds of wood are used for smoking meat but the most preferable are hickory, maple, or birch, and when these are well seasoned and set on fire, they smoulder away and hold fire without causing too great put, as only smoke is wanted. Corn cobs are used by a good many people, in preference to wood fo
smoking meat, the claim being made that a more desir able flavor is secured. However, that may be only matter of taste. Resinous woods, like pine, hemlock or cedar, are not suitable; the smoke gives the meat
The meat to be smoked is the better of being rubbed a couple of times with salt, then placed in a brine for three or four weeks. The brine should be strong enough to float a fresh egg. If a small quantity of
molasses is added to the brine, a sweet flavor is im. molasses is added to the brine, a sweet flavor is in mended is 9 lbs . salt; 3 lbs . sugar; one pint molasses


Clan Alpine 2nd
This Claret-bred, four-year-old shorthorn bull at the head of the herd of Geo. Ferguson, Salem, Ont...
 of water. This is heated slowly untiil the salt is dis- There is now less to sell in any way. That decrease
solvedt then hoilect and skimmed. The solution must
in yields is a kreater loss by lar than would have beer solved, then
be thoroughly cooled before the meat is put into it. in yiedds is a greater loss by
Meat is left four or five weeks in the mixture, then taken through feeding. out and allowed to drain for a day or two before being placed in the smokehouse, where it may be suspended
from cross-bars by means of wire hooks. Care should be taken not to allow two pieces of meat to touch when then a uniform smoke supplied. If the fire is kept going and an even temperature maintained, the smoking When the fire is kept up during the day, and allowed to go out at night, six or seven days are required to propert the smoke-house is properly built, the meat may up in a cool, dry, dark room in the dwelling-house.
Sometimes the meat is wrapped in sheeting and then
dipped in thick, whitewash containing glue. Stil another method keeping smoked meat through th summer is to pack it in barrels with oats. Meat cure has a flavor that is more appetizing to most peop than the salt-cured pork. Large or small quantitie

The Relation of Live Stock to

## Farming

 arms in Canada have based their arguments on the profts derived rom feeding roughage and grain to cattle so far as it goes, but there is a stronger arugment stil why a farmer should stock up with cloven-footed ammals. The fact of the matter is, that live-stoch marketer kent the crop of the when fed in a he sher price per bushel or ton than has some thourht for the future of his farm or his estate he who wishes to continue in business on a fertile farm and leave the soil in such a condition that a son on course left open to him-live stock he must keep of those so-called prosperous days when barley sold for one dollar or more and grain moved easily. It looked like easy money to sell the grain, pay the interest andenjoy the Yalance. But that balance gradually dimin ished and disappeared; it became more difficult to pay veered-they are always subject to change-and it are many farmers in Ontario not yet arrived at that age where ambition ceases to influence them in theiv day they reilize the folly of the grain-selling plan, or doctrine which from the results of that principle them. With a few cattle, sheep, and swine they are enfoying greater prosperity than was theirs in other ans the the soil ir of grain is worth and the yields are betrer. If a bushe is to feed, it does not refute the argument that live stoct is necessary and profitable. If men who own and operate farms in Canada could realize before it is tor ceeding then salvation and the salvation of the suc ceeding generations lies in a well-devised system os
mixed or stock-farming they would be making a lons stride toward greater prosperity
The actual example will exemplify these statemento a man and family left old out true. Twelve years agi district of Timiskaming. He cleared his land and has since been growing crops similar, except corn perhaps to those produced in the district from whence he mi were only about half what they were shortly after the land was broken up. Hay and grain have been sold cold in winter tha: s could be procured for grain when sold ou
the market samesystem is adher ed to it will be inter. esting to all except the man who owns the
farm to know the cons dition of things twelve years hence. Had live and fed on the place. the crops should have been as good in 1918
and they should be ar and they should be at borne on the virgin soil. The fact that b
bushel of grain or : ton of hay or stran more in the town of
New Liskeard that could have been realiz. ed for it directl)
through live stock doev To maintain farming on a profitable bais we mus: continue to get crops. We should get heavier crop: except by feeding all the produce of the farm on the farm and augmenting this with. green manures and: proper rotation? Whether it is profitable or not tc feeding alone matters little. A man to farm and farn

Too many proven sires go to the butcher. We rt the best bull he ever owned he purchased from : butcher when the bull was on his way to the slaughte house. T

## Stable Ventilation

ditor The Farmer's Advocate: He Farmer's Advocate on "Lighting and Ventilating the Stock Barn" leads me to offer this item re the rentilation of the stable with which I have specially
to do. The system of ventilation set forth in the article to do. The system of ventilation set forth in the article
Indicated by Mr. Archibald is specially suited to stables, in which best modern features are incorporated. My ystem is more simple, and being inexpensive, is adapt ble to any stable whatsoever.
And right here, let me say
And right here, let me say that I do not offer this jy which any man with stock may for slight outlay rave for his animals ideal a t mospheric conditions. My buildings were not designed or built to my Ilan.
Chey were on the place when I came into possession of They were on the place when 1 came into possession of
t , and I am simply making the best of the combination. To come to the crux of the matter: Instead of having :he usual glass windows, I have an opening about iighten inches wide, extending the entire length of me end or my cow stable, the bottom of which is about
ix feet from the floor. This space is filled on the inner is welf as outer sides with strips of ordinary eight-ortince luck. This hardly emits sufficient light for the stable -o that a glass window for light purposes only is an
 of duck each banging independently of the orher vorks admirably I I have essentially the same method a my horse stable.
In common with the rest of Canada, we in British Though the temperature has at times been pretty low tilll my stock has seemed to suffer no discomfort, The chill that one feels in the close stable from which team pours in a cloud when the door is opened is not
there. The odors from the manures quickly pass off. in short, whenever one enters the stable, he steps into © pure, in nigorating air, devoid of draft or chill in which :he stock enjoy health, and with relish for their forage eadily respond to your reasonable expectations.
To those especially who may be situated as I an vith barns and stables that have not all up-to-date cientific requirements, I recommend the duck pane nethod of ventilation.
H. G. E.

## Feed for Pregnant Sows

 oone and muscle should make up the pregnant sow part of the weight of embryo pigs. Much difficulty will beexperienced on the part of the dam if the young are at, and fatalities are likely to result. Corn is conducive ?o the development of fat, both in the young piss and
the parent, a condition that should be puarded asainst. the parent, a condition that should be guarded apainst.
Vot enough importance is attached to the value of oote enough importance is attached to the vale ore two requisites which can be supplied best through coots. Some breeders report good results from clover hay cut about three-quarters of an inch in length,
nixed with meal, and steamed or boiled until soft. Cut hay, mixed with meal in a barrel or tub and wet lown with a considerable quantity of boiling water ind allowed to stand covered over night, , aloso makese a nixture that serves a good purpose. Constipation during
oregnancy should be brevented. It is an unnatural ondition, induced by con finement in pens or sall uns and rations comprised of dry feeds. Pulped roots
nixed with meal will be eaten by most pigs. The nixed with meal will be eaten by most pigs. The
:ffect is laxative, purifying to the systen, and generally As for meal, it is possible to use a number of different
,arict tor, Dut a farnuer should not bee colliged to go, far field for feed sulufls. 'lerlaps no beiter complination han a mivture of ground oats and niddllings cau be


THE FARM
Get Out the Manure


## Another Sermon from "Sandy" ditor "The Farmer's Advocate":

 I wis oot at church last Sawbath, an' as it is some time noo since I reporta ony, o oor auld mind gin sernens ther mar hit the wor yearsar the score, an be grid himsel, his renark wire intended maistly for the him no an cinn 'n' tae thin a' ackin' thcir grip an' takin the ferry for that far country that we ken sae little alooot, but which we all move tae, shoncr or later.tell ye," says the munister, "we may no ken muckle aboot the life that come aifter this, but ae' thing. we may be sure $o^{\prime}$, an' that is that it will be as guid as is possithe under the cir cumstances. It wher we find thin a or hut this sulatin an or taste bor us is of no wonderin ab tomp wis muckie accoun, at , will ther 'lings. will ne' he until we tae thinkin that it will na , hang will face death wi, credit tae yersel' an yer religion I heard mon seat abot dyin' no' lang since, an' he mon speak aboot dyin, no lang lup
 the auld country When we get tae the point where we can log it in this way we hae go the mpper hand o, onr fearg an will hae ta die but once, while on the ther the mon wha is aye 'in' ahead an worrin' has tae die a thousand times mave For it's juist aboe as hard tae gae through the trial in yer imagina tion as it is in reality. But the important thing, years is tan try an' keep emplover in some work that is $o^{\prime}$ interest tae themselves an $o^{\prime}$ use tae ithers. Then ye will no' be thinkin' aboot death an' such like uninterestin' matters, an' whin mair genuine satis will find ye read da's wark than in anything e'se, an' while we're able the accomplish it we should na' deprice oorselves o the pleasure. Then oor thochts will no be
gloomy, for we will hae the knowledge that we hae done the will hae the knowledge that we an' wha can dae mair

$\qquad$ mair than mony arr a ald porcon cand dae, let we
toll ye that. It a an unco uncomfortable piec o' business, Iyin' an wase at nirht an', thiurin naething like a fair amount ó It's an awfu' piece o' folly tae rittre frue hus ness juist because ye hae miade eneuch tae heel in here lit l-ly what one woman o' eighty-tive said aboot this. She says, "IP a mon thinks he is
auld, he is auld An' gin he retires irae husi
nesy vature will agree wi, hilm an' retire him for gus, "ature will agree wi' him an retire him for him oot o' the way sae that a live mon can take
his place. I ken an auld frimd o' mine what is



An' the mair he is able tae beach ithers, of coorse. there was ever a foolish idea got
Gin the loose in the warld it wis that one aboot a mon's best work being always done before he wis forty,
an' that at sixty he wis as guid as deid, sar far as his value tae society wis concerned. Pit it as his alue ther way aroond an' ye'll get a muckle sight closer tae the truth. Say a mon's best wark is generally done aifter forty; an' the langer aifter
forty the better, provided he keeps himsel. forty the cetter, provided an' ye'll be nuse are the mark. What for hae wo been gettin' a' hese hard bumps? Was it no' tae tak' the fookishness oot o us an pit sense in its place? Gin that is the case why should we no' find ilka year mair
valuable than the last, richt up tae the time when we'll sa, good-bye tae this au!d warld, an a the thin 2 s on it that occupied sae muckle o oor attention.'
"An' noo," says the preacher, "I suppose I shou'd hae a word o' consolation for the young
people in this congregation but I'm afraid people in this congregation but m afraid
dinna ken juist what I can say. Tae be young dinna ken juist what I can say. Tae be young
an' consequently inexperienced is tae be in a dan gerous predicament, an' I ken o' nae cure but tas grow oot o it. The auld folks certainly hae the best o' it when it comes tae a case o' solid foot-
ing. However, they cam' over the same road that the young people are travelin' the noo, an' they hae left a weel beaten track that should na be hard tae follow, gin one keeps his eyes open." But look at it onyway ye like 'it's a great
thing tae be gettin' intae the "Land o' auld age" wi' a' its prospects an' memories, an' the age wh compensations that the mair youthful ken naething aboot. It's unco' like gettin' tae the tap o some hig mountain where ye can look forward and backward an' mayle soe something in
baith directions tae be thankful for. Ye can be glad that what is ahead is sae guid, an' that what is behind is na worse, an' on tap o' it a' ye hae learned how tae live, which is the best way tale find oot how tae die. Ye canna' dae the latter tae yer satisfaction gin ye bae neglecte
the former. Mind that.
SANDY FRASER.

## Tanning Hides and Skins.

Emtor The Farmer's Advocate: recipes to' $\tan$ hides, skins, etc. I sometimes get similar enquiries direct, but always have to advise against anyone trying out tanning recipes on any skin of value I have noticed many formulae for tanning, and, while a
very few of these may be of some use in the hands of a qualified tanner, many of them are absolutely worth less and unless parties trying to do their own tanning have some knowledge of the use of chemicals and the art of tanning, there is bound to be failure and loss of
time and materials. Drugs, in the hands of a doctor, can be used with safety and cure disease, but, in the handr of unqualified persons, would be useless and dangerous So also chemicals and other tanning material, in the hands of a qualified tanner bring good results and little or no value, but cause loss of t.me, etc The art of
tanning cannot be learned in a short time, and all recines and instructions one could give will not produce
sati-factory results, and the advice that I noticed you satifactory gave to one of your enimirers last week to send the
skins to the tannery to be dressed, I think was the best recipe on tanning I have ever noticed. It would be just alout as casy for us to print The Farmer's Adve it would be (o) tan hides and skins without knowledgr Xorfoll (C), ()at. Tanver CoTE-TuF Farmer's Anvocate always adviser skin- may lee done at home according to our recipes,

Finds Small Silos Practicable


The Grand Canyon.
Know the Variety Sown.
1 have read with interest IV. L. Martin's letter In the Anvocate of January 27 th and the replies to it
since. If the farmers of Ontario would sow either one since. If the farmers of Ontario would sow either one and Banner, they would not be going very far astray, and would be doing decidedly better than they are now doing.

While conducting an agricultural survey during 1915 on 100 farms in each of four counties in Ontario, it was found that a great many varieties were bcing grown In aterloo County 28 varieties were met with almong 77 farmers who claimed to know what variety the were sowing; in Northumberland niamle fact that many of these
19 anong 80 . It is an undenial 19 anong 80. It is an undeniable fact that many of these
varieties are far from the most suitable for the farms varieties are far from the most suitable for the harmo
on which they are sown. Too many farmers hear of on which they are sown. The wonderful description of it in a seed catalogue and straight way obtain seed of same without knowing the strength of the straw, percentage of hull, or its general suitability to their local
conditions. There seems to be too much of a "millinery" idea of always wanting something different. There teems to me to be little cause for confusion in the ninds of intelligent farmers who wiffully realize that what possibty not be best for Prof. Zavitz, under (Guelph possiby not be best for Prof. Zavitz, under Guelph
conditions. The fact remains that the two varieties mentioned athove are both top-notchers and the farmer
is taking less rivk by sowing either of them than some is taking lecos rik by sowing either of them than some aew varicty boomed by some one who has said
gew variety for sale. It must also be borne in mind dew vancty hor sale. It must also be borne in mind
that at (lliwa and Guelph many varieties of cerals
are becins and have been tried out for years for the dat det ant and have been tried out for years for the
arenefitit of the farmers and those who pass up these

 Agrimural survey, conducted by the commission of
 to to mann and etiok to it until smenething

A Visit to Yellowstone Park Editor "The Farmer's Advocate."
No apology to the readers of The Farmer's Advo Cate is neded thecause the subject of the following The more elderly among us will remember reading in the school books of childhood days of the boiling,
spouting springs of Iceland. What feclings of awe and wouder those stories excited! In thote days people sights. (hildren's eyes were wonder-wide. Those intermittent, spouting* springs were called
geysers. That was the Icelandic name for them, and the word is sill ap,plied to all such phenomena. At that
time no other gevers were known, and there zre only
 word known as yet. ©ne of these is in sew yealand,
and the other, and the most extensive of the three, is in Yellowstone Park. Hot Springs are found at Banff,
B. C., and in many other parts of the world. These
 does the force of internal heat acting urwon water exhibit Yellowstone Park is stuated in the northwestern litle strip from Montana on the north and from Mon tana and Idaho on the west. It it straight south of the
eastern part of Alberta. It is almost square and quite large, its area being rather over 3,30 no square mile. It
lies
lies right in the line of te Rocky Hountins which here liies right in the line of the Rockl Nountains which here
are spread wide. The great divide selparating the headare spread wide. The great divide ceparating the head-
waters of the Pacific from the Atlantic rosses the Park at an altitude of 8,500 feet. The major portion of


The Giant Geyser.




terrave, they run down its perpendic latar fare leaving
in ridkes reemblink in form liat of ice left on the

holds good throughout the park wherewe hot wate
$\qquad$
$\qquad$day and night. When our party reached the camp,
there we were told that she was duc to spout in 15
minutes. We hurried to get a good place near. The
opening is about six feet long and two feet wide in the openting is about six. feet tong and $t$ wo feet wide in the
centre summit of a low conical moundl about 6 feet hish and 1.50 feet in width. The mound is of row b built up by the geyser from the silica contained in solution in it waters.
 gathered and 250 or 30 had kodaks ready, Uid F ithtul long ted away, but that was all. Gutur bonled over. A litte longer and two ur three pouts,
burst up alount ten feet. Then the waters sank apain, and even the secom seemed to fail wontiterabls. Thus, for a time until some thought that that was and the
cruption there was to loe. And then the bumst cane. of briling water and stemul mounted straight up, pulsing
 it reached 150 teet. It penred forth is shoxd slowly, rather it continued to spout powerfully, but with dewithdrawn itself and a strong outpour of steam con-
 out at each eruption. 84 prominent geysers in the Park, but if every lithle spoutce and hot spring and steam vent worth noting were added, the number wor sited in ,three districts, miles apart, known as Upper, Lower and Norris basinis. The largest now active is the "(iant," whose circular opening is 6 feet across and whose waters, when he does take the notion
to blow off, are pourred forth in mighty volume for an hour, reaching a height of 250 feet. After such an effort, he naturally rests a while, froum eight to twelve effor, he Hist date for business and ours for secing him
days. His unfortunately did not coincide. Hiss crater and cone
seemed cool and innocent. Then there is the "Constant," seemed cood an sparkling jets from the centre of a shal-
which sends up low pool. It plays for half a minute to a height of fifteen or twenty feet, then rests hall a minute, and so on, all the wie. and duration and no two alike. Besides the true ereysers there are many openings Brom which stean alone constantly issues. One of these -"The Black Growler"--roars like the satety valve of a railway engine. (On a hill face, which was covered wenty a dense grow ore ne number of steam vents, which are steaning still. The forest was completely killed and the now bare hillside is known as the "Roaring MounAs might be expected, there are many boiling springs and some not so hot. They range in size from tiny
bublets to lakes 300 feet in diameter. Many have most beautiful colorings. Most of them send forth hot water streams, but some do not ovento, simples boin In contrast winh these white or drab colored. Also the "Mud (ieyser", a creat bowl of thick mud from whose surface large butbles of steam are constantly breaking, each as it breaks throwing upwards a chumk of mud edge of the sunken bowl, where they keep piling up until, getting top-heary, a mass breaks off and topples in II some places the rock seems honeycombed with tiny geyser tubes, which, withon a font or $t w$, in heigh
of the region wave to the gevests. And the thought of fres underneath is what wit porne in upon the mind of
fhe tourist as he picks his, way in somme of the more shaky spots.
Becides
an Becides these wonders, there are many other sights
in the Iark well worth seceing. Yellowstone Lake, in the Park well worth secting. an allitude of 7 , 7he feet, is a beautiful sheet of the clearest water. The



A Wild Bear in Yellowstone Park.
s noted, are the Yellowstone Canyon and the protected vild animal life
The whole district is policed by a cavalry force, who and even the picking up and carrying away of a piece of rock. Excellent and costly roads built and maintained by the United States Government lead to all points of interest. Until last summer transportaion stage as provided by the different companies is drawn by four horses and holds eight to ten passengers. A airly full trip occupies, $51 / 2$ days and excellent lodging and meals are provided in tents by the ay. Those who wish can stay at high-class hotels. Our party
travelled 135 miles on the tour. The total cost for such a trip is $\$ 30.00$ to $\$ 50.00$. Autos, having been allowed in for the first time last August, it is likely that in the near future the horse stages will be displaced, the time or trip shorted, ane cost lessened The Yellowstone river, as it leaves the Lake and for
ome miles below, is a free-flowing stream about oneourth mile wide. Trout of various species with which the waters are kept stocked are easily seen from the roadway. By and by the river narrows, forms into rapids, then takes a clear leap of 109 feet. Continuing
its turbulent way for a few hundred 'feet more it rushes its turbulent way for a few hundred feet more it rushes
over the ledge of Lower Falls, where the drop is 308
feet. From this point and for twenty miles down is the
famous canyon. From the edge as one looks down "the 1,000 feet of its depth the river seems crowded and dwarfed to a mere brawling creek. But it is not so much its dock walls that attract attention. For the whole of the first three miles and from the bottom upward the rock ,originally dark grey, has been disintegrated and vapors rising from hot springs below. That is what authorities tell us, and that it took place ages ago before the river had cut its way down. To us, until bette
instructed, the rock seemed rather to have been burned in a furnace. It is shattered in such fashion as might be expeeted from tremendous heat. The prevailing colo is sulphur yellow. But it varies from pure white through and red to the orivinal dark arrey orange, purplla are not perpendicular bnt they are left by the falling away of looser material in fantastic shapes, scaurs, crags and turret peaks,
At one camp on the way some young fellows started chasing chipmunks for fun. They were promplty stopped is the manager. As might be expected, where wild a great extent. In a region of such vast forests and hilly surface and only a few roads threading its great area surface and only a rew roads threading its great area
it would be the easiest thing possible for every wild
animal to keep itself unseen. Yet we saw nine deer, eight
bears, two antelopes, one elk, and woodchucks, chip munks and camp gophers innumerable. We saw als a dozen buffalo which had been corralled from the wild said to be 60,000 elks in the Park and we saw but one But the bears are tame. Evening after evening they come to root among the waste from hotel tables and can be seen by anyone. Fresh meat has to be carefully slung they will eat out of the hand. A mother and two hal grown cubs up a fine tree seemed but little disturbed by the jabbering, excited knot of us below. One of th cubs, aiter looking at us or a time, stepped out on limb, took hold of another overkead wones, or whateve he was after with the othe
Deer also become very gentle and unafraid. Two of us keturning from a walk one morning saw a larg fawn on the road infly skipped up the steep bank at on near and then lightly skipped up the steep bank at one
side and stopped about 25 feet from the road. It stood until we came opposite and after watching us, quiet for a few minates with its large, sensitive ears ere and its soft eyes studying us, as we studied it, it pu down its head and began ea grass. It was a beautif and human beings as well, everywhere respond to kindness.
Middlesex Co., Ont

## System in Farming or Farm Management.

Who has not heard of that seemingly abstract thing Farm Management"? It has been pretty well advo a doctrine or formulate a plan that will apply to one and all alike. That is why it is seemingly abstract We often hear of it and read about it being used and ut into practice the concrete as it has been presented to the farming public. Nevertheless it is real and every farmer has his own style of farm management. Sometimes good and sometimes bad, but he can usually manage to get along. If every 100 -acre farm were so of oats and 25 acres of grass, which would all be fed to 25 or 30 dairy cows, the milk from which would be sold at a cheese factory exactly two miles from the system of farm management that would be universally suitable. Such conditions are so manifestly absurd that they need no explanation. They are mentioned only to show by contrast the difficuly in arriving at ny one plaw aptable to the scores oricultural pursuit Dairying, beef raising, fruit growing, gardening, grain growing and ranching are only a few of the most important lines in which farmers indulge. Add to these dozens of others, which, perhaps, are modifications of circumstances, conditions and environments, and the reader cannot fail to grasp how impossible it would be to recommend a system of management which all could dopt with profit. In spite of this condition of things, where labor and capital are involved. Inside the walls of the factory or store it is usually termed "system" nside the line fences it is known as farm management. The writer will not attempt in this article to outline scheme that will solve the labor problem or increas articles as "Eighty Chickens and Independence," or Five Acres Enough, are more suitable, for urban readers who contemplate throwing up a $\$ 5.000$ oosition to end their days in case, adepar how and o present suggestions which, if not useful to one, they may be to another. Efficiency is now sought in very line. Even nations can become efficient, but only Efficiency can be carried so far as to make life no Efrciency can be carried so far as a to infuse a little
worth living, but it appears possible thess and still no
more system into the farming business destroy the socill life of that occupation. The sugges ions which row in mproving the present system of farm management.
A 100 -acre farm can not be run according to factory system. Certain things occur as a matter of course, and
some events are inevitable. Home and farm are in some events are inevitable. Home and farm are in
separably connected, and this is why, perhaps, that so and the home kept intact by the mother or sisters. The
home is a part of the farm and entilled to the first home is a part of the farm and entited to the firs
calls upon, it. The ordinary-ized farm depends upot one man. He must be buying agent, selling agent
laborer, manager, and employce. The proprietor car
be "boss," but not superintendent, for the income o the business will not warrant one man directing and no . Be who by
The farmer who labors has mot much time to de liberate and plan, yet a certann
is necessary. The hours thus spment ate npeni profitably

## Farm accolsis.

 There is no better aid to farm manasement thasome form of books or accounting system. It is rea
lized that farmers will not have the time or the inclina-
were used in which to jot down the details, they could be copied to a more permanent volume by some member
of the family or by the tarmer himself on a certain night each week. Such a system would show where the money came from, where it went and where it produced the greatest results. Details about the farm work
also be noted that would be useful for reference.
As complete a system of farm accounts as we hav As complete a system of farm accounts as we have dale Farms in Norfolk County. It is a large estate which Mr. Angle directs, employing a large number of men who are engaged in all kinds of work about the
farm. It is also desirable on the part of those in charge to know exactly what it costs to produce the different crops. This necessitates considerable accounting and makes the system rather elaborate. However, many farmers could obtain ideas from a knowledge of how the
books are handled and how the different items reduced to totals that convey the desired information Figure one illustrates a leaf taken from a sme order book used on the farm. The leaves can be il
duplicate or triplicate, such as a merchant uses on hi duplicate or triplicate, such as a merchant uses on hi when it is necessary to record the poosction on the place or in town. For instance, 15 bushels of grai are chopped and put in the piggery to be fed to a bunch of shotes, regarding which records are being kept The leaves are perforated and can be reened so a velope or tied with an elastic until they are copied or totaled up. This is a handy book, useful for many purposes, an
practicable.


## Teamster

Figure two shows a form used, on which to record
 asain t the crop upum which the work is spent Some


potatoes, the entry would be made similar to those already indicated. Books containing these leaflets are preserved, the week and year marked on the outside,
and kept for reference. A similar form is used to record the horse work. The hours all the horses were employed during the week
columns on the same form.
The totals of man and horse hours are then copie into a 24 -column journal, a part of which is illustrated in Figure 3. The man labor and horse labor are entere on different pages of this journal, and, by totalling them at the end of the year, it can be ascertained ho
maty hours of manual labor and horse labor wer expended on the different crops. The accounts kep also indicate the cost of the horse labor for the expense connected with the horses divided by the number hours they worked during the year indicates the col Expenditure
Expenditures demand another form. For these 12-column journal is used and outlays for spraying
material, binder twine, fertilizers and other articlee purchased are entered in their proper places. This form is similar to that used for receipts, such as ib
illu trated in Figure 4, which largely explains itself When all the receipts from a certain product or crop are in, the profit or loss of that crop can be determined. The cost of labor is indicated in the book illustrated in Figure 3. The other expenditure, connected with ayy crop are shown in the book kept for that purpose
The sum total of these two compared with the receipt conveys the desired information.
While this system is too elaborate and intricate fo the ordinary farmer, he can make modifications and adapt parts of it to his own requirements. A book simi-
lar to that illustrated in Figure 1 would be extremely useful. A form could then be devised suitable fo keeping an account of the labor. Another set to show the receipts and expenditures should complete the system on the ordinary farm. Fron the information
contained in such records all deductions could be drawn and profits or losses determined
When discussing the bookkeeping practiced on Lynndale Farms, it might be explained how the men are engaged. The hour system has been adopted, can discharge them at any time if their services become unsatisfactory. On the other hand, merit is rewarded. A man who becomes proficient in his work, and is worth more to the system than he was at first, receives a highe these farms before they were assembled into the large proposition, a few cottages have been built. It is the aim and purpose of the management to make the men
and their families as comfortable as possible, for it is and their tamilies as comfortable as possible, for farm render greater service to the system than do those the peaks in farming
It is peculiar how closely farming resembles many of
the great industries as regards the great industries as regards the peaks. An electrical electricity are $1 t$ s. peak load when the demands for has its peak upon certain days of the week and upod for shopping, and popular hours during that day. Thie more particulary few hours on almost every day, buly more partuculary on one day, the clerks are exceedingly
busy behind the counter. During the forenoons there is a lull, and the number of clerks required to handle the business during rush hours, would stand about doing almost nothing during the morning periods of the week. Railroads have their peaks, when almost every piece
of rolling stock is called into service. So it is with farming. During some of the summer months the number of men, and number of horses required are in excess of the actual requirements during other montion
of the year. The aim should be in this connection, of the year. The aim should be in this connection,
to so organize the disposal of the goods produced, thal
the matter of distribution will not interfere with pro- d from the wild
ners. There are
we saw but one we saw but one
ening they come bles and can be
carefully slung so friendly tha
er and two half little disturbed ow. ©ne of the
epped out on a h one front paw
es, or whateve nafraid. Two of ng saw a large in we came quite
eep bank at one hing us, quietly
itive ears erect tudied it, it put
t was a beautiful sides. Animals
ere respond to T. .B
are then copie ich is illustrate abor are entered
nd, by totalling ascertained how
norse labor were accounts kept or the expense a. For these other article ir places. Thi pts, such as
explains itse product or crop be determined. ok illustrated in nected with any
r that purpose. intrat and intricate fos
odifications and odifications and Id be extremely
ed suitable for her set to sho
complete th complete the practiced heen adopted, the foreman, whe services become
erit is rewarded
rk , and is worth receives a highee
y established on built. It is th ossible, for it i
duction. It may be possible to institute certain lines
of farming where the grain and fodder grown can be marketed through some class of live stock with considerable profit, over and above the market price of that product. such demands upon labor that production suffers. Production is the great essential in farming, but hand in hand with it goes the marketing of the product. The two should be so organized as to establish an equili-
brium between production and distribution so neither will suffer. Everyone can not feed steers, but steer-feeding is at example of how labor should be distributed throughout the months of the year. During the summer feeding the product to the cattle and thus disposing leeding the product to the cattle and thus disposing

BUYing and selling
The average agriculturist has not time to become a Girst-rate business man. Consequently, he should take through which to sell his product. If there is a cooperative society in the community, of good standing,
and managed by a reliable man it is usually advisable to distribute through that organization. Where a farmer has special markets of his own, it may be well to sell through them or to them, but here again too much time should not be wasted in catering to thiose markets. should not be neglected. Even if an organization in the community does procure for the farmer a slightly smaller price than could be obtained in some special If, by the would be worth his while considering it. If, by the manager of the association, taking the re-
sponsibility as to the details connected with the transaction, time can be saved that may even up the price and make the profits as great a s they otherwise would be.
The same principle applies to the buying. Goods which are used in any quantity should be bought in a whole-

Some mportant factors only mentioned.
Some system of filing, or preserving letters and
accounts, will save time and annoyance. Use machines and mechanical devices where possible. Farm imple-
ments and machinery should be carefully inspected ments and machinery should be carefully inspected,
oiled, nut tightened, and repairs made, before going
to the till. Each man should operate a large impleto the filh. Each man should operate, a large imple-
ment, dru. ty three or four horses, wherever practic-
able. ment, drana three or four horses, wherever practic-
able, Pow-ion should be made for some job during
rainy d.a., of when something goes wrone. Dits ribute


THE FARMER'S ADVOCATE
Week Ending July 24, 1915
ANALYSIS OF CORN

Pro- Mois- Ash Fat Fibre Carbo | teids | ture |  | hydrates |  |  |  |
| ---: | :--- | :--- | :--- | :--- | :--- | :---: |
| 5.71 | 6.22 | 4.81 | 2.73 | 22.12 | 58.411 |  |
| 8.74 | 6.89 | 5.39 | 2.82 | 23.21 | 52.95 |  | Drill-grown

Hill-grown Protein, carbohydrates, fats, and ash are the chief
ingredients of any feed stuff, from the feeding point of view. In this regard, it will be seen, there was little difference, pound for pound, in the two samples. In the aggregate, however, the drill-grown corn was slightly superior, for it contained ill-grown product anstances to 69.90 parts in the hill-grown product. A study of
the analysis furthermore shows that both samples did acquire, or attain, to practically the same degree of maturity.
This was only one phase of the experiment. The corn was then ensiled in the usual manner, but the two
crops were kept separate in the silo, and desiguated in such a way that the silage could not be mistaken. It was known exactly as the silage was fed on which part of the field the corn grew. The corn grown under both systems made excellent silage, and no difference
was noted in the way it was eaten, or in the results upon the cattle consuming it.
Samples of the hill-grown and drill-grown silage were then sent to Professor Harcourt for laboratory
analysis. The results of this test are revealed in the analysis. The results of this test are revealed in the following table: ANALYSIS OF SILAGE

Moisture Ash Fat. Fib. N. ides hydts. $\begin{array}{lcccccccc} & \% & \% & \% & \% & \% & \% & \% \\ \text { Hill-grown } & 6.19 & 7.55 & 5.01 & 19.82 & 4.64 & 3.86 \cdot 52.53 \\ \text { Drill-grown...... } & 5.36 & 5.20 & 5.05 & 19.92 & 4.83 & 3.86 & 55.78\end{array}$ The totals for protein, carbohydrates, fats and ash
albuminoid nitrogen and amides together make up the protein. The first mentioned is the desirable form, but there is
always a breaking down in the silo into the less valuable forms known as amides. Both in carbohydrates and albuminoid nitrogen the balance swings in favor of the drill-grown corn. In fact, the two analyses, that of the corn and this one of the silage, show figures that argue however, that the sample of drill-grown silage happened to have a few pieces of cobs scattered through it. A little corn was produced on the stalks and it so happened that some pieces were in the sample. Yet that has no
significance, for the corn grown in drills and sent away significance, for the corn grown in drills and sent away
for laboratory test was entirely devoid of cobs. In spite of that, it analyzed quite as high in food constituents as did the well-cobbed corn grown in hills. From our experience with the two methods of planting, we are led to believe that greater tonnage can be
produced in drills than in hills, under conditions as produced in drills than in hills, under conditions as
they exist at Weldwood. The analysis also indicated that corn planted thickly in drills, so it cannot cob, will become just as mature as hill-grown corn, if allowed to stand the same number of days. The food constituents are stored in the leaf and stalk instead of in the cob.
The outcome of the test has indicated that cobs are not necessarily the only evidence of maturity. Corn may be matured from the viewpoint of the character of its constituents, yet have no cobs whatever. This is one year's test. It was a peculiar season. ever, in the light of present-day knowledge regarding corn, we cannot see how the conditions which change from year to year, such as climate, could alter to any appreciable extent the relative analysis of the twe samples. It might, of course, alter the yields.
There is an opportunity in this field to determine facts that will be valuable to farmers. Corn is an
increasingly important crop and after all not too much is known regarding it.

Piles Manure to Heat in the Field. Editor The Farmer's Advocate: of spreading manure at this time, and it is certainly very interesting to note the difference of opinion ex. pressed. No doubt, each writer expresses his convictions from personal practice and its resalts. But seeing
there are so very many things to be considered, it if almost impossible for all to follow in the same train Nevertheless, for those who are willing to learn, there
still remains considerable useful teaching, and the many still remains considerable useful teaching, and the many
letters appearing in the FARMER's ANVOCATE on this subject undoubtedly prove helpful to those who are ready to give a trial to what may be to them a new system. It would require too much space for me to
give all my experience on this matter, but as briefly give all my experience on this matter, but as brienly least three different methods, on fairly large farme, placing his manure after his own plan for these crope particularly. The first would leave his manure in the barn-yard till after harvest, then draw and spread on the
old meadow that is to be the corn and root field and old meadow that is to be the corn and root field and heavy, and, in spite of the summer hear, his manure piles heavy, and, in spite of the summer heat, his manure piles
retain a splendid m, inture and he almost always has
a field of corn and roonts that gives him much satisfac- tion and is certanny a crestit to him. The second the winter and plow , he manure under in spring.
but thi- plan, an aw i, was far behind the preceding
one ault the reults were not nearly 50 good. This

demanding a supply of horses. There is little call from the West for horses. Lumbering was quiet, therefore, the cities were our chief purchasers. The war has
caused a demand not as big as was expected, but up to Jan. 1, 1916, over 42,000 horses had been purchased to Jan. 1, 1916, over 42,000 horses had more would be réquired. The greatest competitor of the horse was the tractor, but so far it had been shown that on the land the horse was the cheapest propelling power. hat tisplaced the lid always be a place and demand for good drafters. He considered this should not be overlooked, and farmers should rear one or more colts each year At the College farm they had found that the ide horse in
winter was a loss, and by breeding the mare so as to foal winter was a loss, and by breeding the large extent. Farmers must learn that a better quality horse is wanted, therefore, breed only their best mares to the best stal-
lion, and thus have high-class stock. The cost of lion, and thus have high-class stock. The cost of
production was increasing, labor being the chief factor, production was increasing, labor
and farmers must improve conditions so that better horses may be more economically reared.
At the afternoon session, James Morris, M.P. for At the afternoon session, James Morris, M.P. For
Chateauguay County, referred briefly to the manner in Chateauguay County, referred brie the front as a great
which this district was coming to the which tock centre, also that Canada had received much
prominence through her great crop and the increased production of 1915, together with the splendid part she had played in assisting the mother country in her many contributions, the best of which was the thousands itself in many cases, for the cause of justice and truth. He referred to the splendid work of the Live Stock Commissioner, in making it possible to secure the best class of breeding sires, to the great possibilities in the
dairy industry and to the work of the small experidairy industry and to the work been established at St. Chrysostome, and thought there should be one in the east end of Huntingdon county.
As Hemmingford is a great apple producing section
an hour or two was given to fruit growing. Fred H an hour or two was given to fruit growing. marketing of apples, and advised the co-operative system now so successfully carried out in Ontario, Nova Scotia, British Columbia and certain parts of

on the ground and ploughed within in the spring fosters the growth of the tree and at the same time ripens the wood,
and thus the trees become more hardy. Pruning is im. portant, the tree should be cut back so as to have a
low headed tree and heavier to the side of the prevair ing wind. Fertilization should not be neglected, 8 to 10 tons per acre of barnyard manure with 500 to 600 lbs. of good fertilizer will give good results. Wood ashes are beneficial, especially in bearing orchards. Apples cannot be successfully grown if spraying is omitted. The mixtures recommended, applied by a large hand
or power sprayer, three or four times during the season and at proper times will give excellent results. There is no reason why in the Province of Quebec the growing of apples should not be made a more prominent feature
of agriculture. We have a splendid home market and of agriculture. We have a splendid home market,and
Quebec apples should be sold in large quantities instead of apples from the States of Washington and Id ho. Robert Brodie, of Westmount, spoke briefly in the discussion which followed the two addresses, and C. E. Baxter, of the Fruit Branch, Ottawa, also spoke od
the fruit question; J. A. Robb, M.P., for Huntingdon, the fruit question;
spoke briefly on live stock and dairy matters. spoke Building up of the dairy herd by the use bred sires, and the rearing of the calf, were ably handled by R. R.. Ness, Howick's noted Ayrshire breeder, and
Neil Sangster, Ormstown's noted Holstein breeder The former stated that the influence of the good, pure bred sire was the most important factor in the improve ment of the herd. He considered that the sire was more than half of the herd, therefore, the inferior sire should go to the butcher. Sires should be selected
from families of good type backed up with good records of milk and fat. A few dollars difference in the price between a good and inferior sire frequently influenced men from procuring the superior animal. This difference was often more than made up by the first crop of calves.
Mr. Ness advocated the keeping of the old bull until Mr. Ness advocated the keeping of the old bull until his usefulness was past. quality had been established. In selecting a sire choose one that is strong and vigorous, and especially strong where the females of the herd are weak. Where the herd production had increased it was frequently due cussion which followed, co-peration in tsing the good, cussion which followed, co-peration sire was strongly advocated.
Mr . Sangster, in
his address, said that his address, said that
he recognized the imhe recognized the imsires of quality, along
with this he advocated with this he advocated paying more attention
to the babyhood of the cow. He claimed that many cows were
ruined by being stunted when in the calf period through lack of
proper feed and care, proper feed and care, was no development.
This is in evidence in many in evidence in many parts of our
country. veloped cow was more subject to disease, and
from this class we get
the great numbers of the great numbers of should be well fed, new milk at first grad-
ually turning to skim at about three weeks
old. From now on the old. From now on the
calf should be kept in a growing condiapple growers, and if they did their duty there would tion so that its development at maturity may be
be no apples imported from the C'nited States to supply insured. The feeder should use good jugment
ind the demand. He recommended box packing for so that the calf will not take scours, the bane
table apples, such as Fameuse or McIntosh. Reds. For of the dairy cattle raiser. This is usually caused the later varicties he thought barrel packing was lest by overfeeding. He advocated feeding milk to for this province. While the market was now affected the young call three times a day. As the calf
hy the war, this was only a temporary condition, and grows the skim-milk ration should be increased, and
ghe there is bound to be an ever-increasing consumption after each feed of milk give a small portion of meal.
of geod apples. The Fruit Marks Act is a great pro- When the heifer is six or seven months old the task of good apples. The Fruit Marks Act is a great pro- then the heifer is six or seven months old the task
tection to the producer. He said the three essentials becomes easier, as she then can handle and assimito successfulapple production were: Care of the orchard, late coarser fceds as the digestive organs develop.
honest packing and co-operation. These if carried From now on they should be kept thrifty but not out would make such a section as Hemming ford, famous fat. When they should drop their first calf de-
for the production of apples, and would return to the pends on the breed, size and development of the
 Pomblogital Socicy, kave an intereating paper on the is prasticed from 18 to 20 months should elapse be-
"coure of the ord hard.


 cam M M 4
1911.492 in 1912 and and 1915.
meant a larger acreage covered more evenly, while the
hand-spread manure was uneven and altogether too thick to allow any amount of the field to be fed. The results. I believe in fall plowing generally, more especially for corn and roots. For roots I prefer a good dressand plow again in spring, working until the manure is absolutely absorbed in the soil, giving the roots a good chance for development. This means a pile of manure must be held over, and if a pile is it will retain sufficient moisture to cause the desired effect, and in the fall season one may dig it out with a shovel, and it is fairly certain that no weed the stable to the field and make piles of about fifteen loads in each, leaving it at the manure yard till 1 have this amount in order to make up the pile the same day if possible. If I have not sufficient new manured ensure a slow heat, after a few loads, will help in this way. I like it to heat enough not to freeze through. I place these piles conveniently, allowing aboy remain till after the oats and barley are in. Should the land show signs of getting grassy, I at once disk it team on the spreader, and two men in about a week will spread the whole of the piles from 60 head of catk and pigs. We keep it thoroughly disked close crossing with disk, and again with the drags, if necessary the cultivator as well. We then harrow down for cient to ensure a splendid seed bed, and it is my plan to drill three feet apart and cultivate as long as I can pass through without damaging the corn, thely in order arranging the chat when a shower comes, the manure yields the rethat when a shower comes, strong, healthy corn. This plan gives us, usually, from ten to twelve tons per acre.
Iam convinced that manure well piled, loses very little 1 am convinced that manure well piled, load in winter, loses considerable plant food during "the early spring thaw. There must necessarily be a " run off," and by watching the proces
this fact.
Labelle Co., Que.

Chas. Gould.

## THE DAIRY.

All Branches of Farming Discussed at Huntingdon Dairymen's Association.
The practical side of things characterized the 34th Association, held at Hemmingford, Que., on February Association, held at President, D. H. Brown, Beith, occupied the chair, and many prominent agriculturists and live-stock breeders from the various sections of the district of Beauharnois were present at each session. R. W.
Blair, Mayor, and Robert Ellerton, Secretary-Treasurer, Blair, Mayor, and Robert Elle
Hemmingford, welcomed the
The President, in his opening remarks, paid a tribute
the succesffully o the progressive men than for 34sstuly carried on as the late D. M. Macpherson, its first presiSuch men as is successor, Rolert Ness, and those as-
dent, and
sociated with them in the work, laid a strong foundation on which we men of to-day can continue to build. Great advancement in agriculture and dairying had been made
since the organization of the Association and methods
sater beyond their reach are now widely practiced.
The Secretary, W. F. Stephen, of Ituntingdon, in his report of the year's work, referred to the past yea
as one of the best in the history of the district Large crops, an increased milk flow, There was a higger mak of cheese and more milk and cream shipped to the city
than ever before. He contrasted present conditions than ever before. He contrasted present conditions were over 40 checseries and 10 or 12 creameries. Now
there were less than a dozen checseriss and 6 or scram-
eries, owing to the bulk of milk and cream going to Montreal. The condenary at Huntingdon and receiv-
ing stations at Ormstown also took a large quantity
of milk that formerly wont wo fortorics. It is recog. nizecd that the purst and thaned nill , heverwin in




 and commercial enterprise wo
from Prof. Jull, of Macdonald College, on "Farm Poultry." He illustrated his practical address with lantern slides. He showed pictures of the various
utility breeds, and demonstrated on the best types of birds. He also showed the best kind of poultry-
houses used at Macdonald College. These are 20 feet square, 6 feet high on south and 4 feet high on north side, double boarded on back and ends with two windows and a screen on the south side. Fowls require plenty of fresh air, but drafts must be avoided.
He also dwelt on the incubation and feeding as beHe also dwelt on the incubation and feeding as be-
ing most important questions in connection with successful egg production. He recommended for
whole grains, fed morning and noon in deep litter, a mixture of wheat, corn, buckwheat and oats, also a dry mash, fed in hopper, of two parts wheat oats, and beef scrap. This gave the necessary protein required in egg production. If fed wet it should be mixed with sour milk, and a smaller quantity would do. Quebec egg producers had a splendid market at
their door, as Montreal imported many thousands of dozens of eggs each year. It was for farmers to double the number of poultry kept, improve their stock by selection, give them beter care, and the advocated the formation of egg circles, and cited cases where quite an increase had been made in the increased output of eggs and of better quality. Thus
would the income of our farmers be considerably would the
The feature of the evening session was the in
teresting address on "The Bad and Good in Dairy ing," given by Mrs. Laura Rose Stephen, of Hunting don. It was illustrated by 70 fine, slides, which brought vividly before the large audience the important points made by the speaker. Splendid speci-
mens of the different breeds of dairy cattle were thrown on the screen, and many cows famous for their production were introduced. Pictures of a scrub bull, and the $\$ 50,000$ Holstein bull, were a and feeding can do. That like produces like was strongly demonstrated by the pictures of the champion Ayrshire bull of Canada, Hobsland Masterpiece, and his son, Hobsland Perfect Piece, the cham-
pion Ayrshire bull of the United States. Both had the identical characteristics which place them at he top. The bad and good in barn locations ference to ventilation, lighting, mangers, etc., were shown. Great emphasis was laid on the atmoshould be no putting down of hay or cleaning out
of stables just before or during milking. An interest ing slide was one showing a section of a cow's udder Mrs. Stephen described the theory of milk secretion and convinced her hearers that the milk was almos ing. The cow collected the materials, but it takes the to secrete the fluid, gentle treatment of the cow and
quick, firm milking do much in adding to the milk low. The slide showing how easily the farm wel
may become contaminated from the surface drain age should cause the farmer to think of the dangers tional picture was the milk route of a town, show-
ing an outbreak of scarlet fever in about 50 homes a case of the fever. A slide showing the bacteria
on just one dirty cow hair emphasized the need of clipping the hind quarters and keeping the cow's
flanks and udder clean, and for having hooded nilk The efficacy of cooling milk was demonstrated
by showing the small life development found in milk cooled quickly by water, while milk allowed to
cool naturally abounded with germ life. Looking for the hest, keeping the best, doing the best were the
key notes of the hour's talk given by Mrs Stephen The cow, she said, was God's richest and best contributed so largely to our health, comfort and
prosperity. The cow of the right sort and handled prosperity. The cow of the right sort and handled
rightly will bring a great degree of pleasure, and a righly will bring a great degree of pleasure, and a
goodlyy profit to her owner. She is the foster mother
of the world, and the animal that is making the Quebec Prof. Barton in summing up the Convention, said
it was a hig day, as the discussions had all grouped it was a thig day, as the "discussions had all grouped
around the "old farm." The following resolution was unammously passed:
Mormulty David Pringle, seconded by Neil Sangster,
that whereas, we have learned with regret that the management of our splendid agricultural institution,


 of Muman in everal of the other provinucs Fell at the Province te the members of


we respectfully ask the Department of Agriculture we respectfully ask the Department of Agriculture
of Quebec to allocate a special amount from the
Federal Government to the Provinee to Macdonald Federal Government to the Provinee to Macdonald
College for the continuance of the District DemonCollege for the continuance of the District Demon-
strators' work, and that we respectfully ask the Hon. strators work, and that we respectfully ask the
J. E. Caron, Minister of Agriculture, to give this matter his immediate and favorable consideration, and that a copy of this resolution be forwarded to Treasurer, and all the Members representing those Treasurer, and all the Members representing those
counties where offices of the College Demonstrators now exist.-Carried unanimously. . D. H. Brown, Beith, Que.; Vice-President, R. R. R.
Ness, Howick, Que.; Secretary-Treasurer, W. F. Ness, Howick, Que.; Secretary-Treasurer, W. F.
Stephen, Huntingdon, Que. Directors-Alf. Alseph, Valleyfield, Que.: Neil Sangster, Ormstown, Que.; D. A. McCormick, Allan's Corners, Que.; John
McDougall, Ormstown, Que.; Hector Gordon, How ick, Que.; M. M. McNaughton, Huntingdon, Que.;
David Pringle, Huntingdon, Que.; Geo. Bustard, Jr., David Pringle, Huntingdon, Que.: Geo. Bustard, Jr
Vicars, Que.; R. T. Brownle, Hemmingford, Que.;

## A Common Ailment of Calves.

$\qquad$ avoid the calves becoming affected, as it gives them a cover. It is claimed that indigestion is really the disease and scouring the symptom. The trouble may
arise from several causes, as over-feeding, feeding the milk too cold, or feeding it in dirty pails. Dirty, damp stalls, or endeavoring to substitute unsuitable feeds for milk, before the young animals digestive system is strong enowgh to stand the change, may cause the
trouble. The feed ferments in the stomach, rather than digests, and products which are formed irritate the intestines, causing the calf to scour. When the feed is not properly digested and assimilated, poisons are produced ausing the to weaken. Treatment should be given when the first symptom of sickness is shown. given when the cause of the trouble and remove it. Then, give a dose of from one to two ounces of castor oil to remove any irritating material from the intestines.
It is claimed that a teaspoonful of blood meal or lime water added to the milk at each feed is beneficial. Raw eggs have been given after the oil, with satisfactory results. The following treatment is recommended: Powdered chalk, 2 ozs.; powdered catechu, 1 oz.; ginger, Give one tablespoonful of this mixture in milk night and Morning. Young calves are frequently lost by being affected with "white scours," which is believed to be caused by a germ entering the system through the navel cord.
The calf so affected frequently dies when three or four days old. In this case every effort should be made to prevent infection. Have the cow due to freshen placed disinfect the navel cord with a five per cent. carbolic acid solution. This should be repeated until the navel
cord dries up. The first internal treatment is a dose of one to two ounces of castor oil in milk, followed by the Formalin treatment, which consists of diluting one of water. The calf is fed a teaspoonful of this solution to a pint of mome before using, and the solution kept in
should lee boilerl before
an amber-colored bottle to prevent chemical changes an amber-colored
taking place.
It is possible to a void many of the troubles affecting

Rennet Supply for Canadian Cheese Assured.


borhood or by the local butcher, this iwould mear six to twelve dollars for very little labor. Afte cutting free from the other parts, the stomach should be sprinkled with salt and packed in a barrel or cask

What Does it Cost to Raise a Dairy Cow
In cheese-factory districts many dairymen hav made a practice, in the past, of sellig all their calve mature cows to keep the herd to the required numbel Men who disposed of whole milk at a good price considered it was more expensive to raise a calf that to purchase a mature animal, but, to-day the prob lem of buying suitable cows at an ordinary figur is becoming acute. The high price obtained fo dairy products during . . . . . fuenced many farmers in retaining all promising heifers and cows in their own herds. Dairymen ar realizing hot in the man tained and the productive capacity increased, the most satisfactory solution is to rear all strong,

It was only few years ago that good two-year old heifers could be purchased for $\$ 30$ or $\$ 40$, anc mature cows around $\$ 55$ or $\$ 60$. The cost of raising cows has an important bearing on the economy o milk production. The question arises, what doe it cost to raise a heirer to the productive stager believed that it costs more to raise the averag cow than is ever returned in profits. It is essential therefore, that well-bred, strong, healthy calves that will make good use of the feed consumed, b raised. The amount and kind of leed and care re ceived are important factors, in the cost of raisin, the heifers. It is possible to raise them quite cheaply by skimping the amount of milk used, and in feed ing ordinary roughage and concentrates which ari handy, rather than studying the particular requirement. necessary to grow strong, thrifty calves. The actua cost of raising calves will depend very much on thi amount of whole milk and skim-milk used, and thi Rough estimates are frequently made regarding the cost of raising calves, but few farmers are so situ ated as to be able to keep an accurate account o all feeds consumed by the young animals. Beside the feed, there are other expenses which must also be of a number of calves being raised at Macdonald College, Quebec, and during the first six months the average amount of feed consumed was 228 lbs. o whole milk; 2,699 lbs. of skim-milk; 91 lbs. of linsee meal; 92 lds . of oats, 14 end of this period the averagi weight of a calf was 372 lbs . At the present mas ket price, these feeds would cost about $\$ 13$. Dut ing the second six months $\$ 18$ would ae al of $\$ 31$ fo the year, and to this would have to be added valu of the calf at birth, cost of labor, bedding, housing $\$ 13$ or $\$ 14$. Crediting the calf with $\$ 3$ as value o nanure the net cost of a yearling would be about \$4: tates, extensive work has been carried on in a endeavor to arrive at a fair average cost of raising
heifer calves on feed grown on the average farm and figured at market prices. At the Wisconsit in the rearing of heifers to two years of age, anc the net cost was $\$ 16.41$, 12.5 per cent. of this was
for labor, 22 per cent. for other costs, and 65.5 pes for labor, 22 per cent. for other costs, and the Connecticut Station the
cent. for feed. At age was $\$ 66$. At the Ohio Agricultural Station C. C layden, M. S., ines of extensive investigation work along this line and his deductions are to the effect that Holstein riesian heifers cost $\$ 82.54$ to raise them to twi years of age, and other breeds were about the same. A1 heifers do age, the cost of raising them to the productiv stage is materially increased above the figures given. The figures for the three stations vary considerably
due, largely, to the value placed on calves at birtt the kind of feed fed, and the ruling market price The faztors considered by Prof. Hayden on arriv figg at these figures, were the value of call at housing, interest, insurance, taxes, ane service fee. It was rather difficult to put an a aver. alue of heifers, which depends on the breeding and
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per hour, which makes the cost of labor the first
vear $\$ 6.50$, and $\$ 3.65$ for the second year. Prof. pear $\$ 6.50$, and $\$ 3.65$ for the second year. Prof,
Hayden, in his work, valued the calf at $\$ 5.00$ at birth Hayden, in his work, valued the cal for the first year,
and used $\$ 6.50$ as the labor cost $\$ 5.00$ for the second year, but valued the time at $\$ 5.00$ for the second year,
is he was of the opinion that one cent per day was aot sufficient. A charge of $\$ 2.00$ for the first year and tools, and veterinary fees, a charge of $\$ 1.00$ per head was made. Housing was charged at $\$ 2.00$ per head per year; interest and taxes were charged at
of five per cent. and one per cent. respectively on the value of the calf at birth, plus the cost of tools,
the cost of feed, labor and bedding, plus one-hall less the value of the manure. The service fee was 86.00 the second year was given. The pasture was charged at the rate of 30 cents per month the firs sidered low for some sections. Feed was charged ithe following prim-milk at 20 cents per hundredweight; clover hay, 12.00 per ton; corn silage and stover, at $\$ 4.0$ per
ton; wheat-bran, at $\$ 24.00$, and linseed meal at $\$ 33.00$ per ton. All feeds were weighed, and any feed remount fed. Naturally, the heifers receiving the
largest amount of milk, and smallest amount of pasture were the most expensive to raise, which emphasizes fed, cost less to one year of age than those born in the spring, even though a normal to each. The calf born in the fall consumes its milk during the grain-feeding season, thus reducing it is old enough to make the maximum use of pas ture during the full pasture season. The springseason, and must be fed on grain and roughage at a The heifers, used in estimating the cost of feed year, and one pound the second year. They were milk, which possibly increased the cost somewhat However, if any dairyman purposes raising a thrifty is poor economy to skimp the amount of milk fed. Of small amount of milk in combination with sweet slover hay, oat chop, cornmeal, and a little linseed meal. The following figures give the average amount
of feed consumed with thirty heifers in the test: At the end of the first year the weight was 564 lbs ,, and milk; 656 lbs . of grain; 586 lbs . of silage; 768 lbs . 0 days on pasture. The total cost of the feed was at $\$ 14.79$, the total net-cost was $\$ 44.10$, for a calf the year of age. From one to two years of age lbs. of grain; $2,247 \mathrm{lbs}$. of silage; 1,419 lbs. of hay;
232 lbs. of stover, and 151 days on pasture. The total feed cost was $\$ 29.55$, and other costs $\$ 8.89$ making the net cost of $\$ 38.44$ for rearing the heifer high, but, on the feed given, the calves just made ordinary gains, and en the second year. Possibly equally good calves might be fed at less expense, on and exceptionally good care given, but the figures quoted for the various expenses and feed appear
reasonable; in fact, some of the feed was valued at would warrant. It is believed that, when everything than most dairymen figure on. It is as expensive to raise an ordinary calf from producing she which, in all probslitity will profitable producer. If a cow returns $\$ 10$ profit each the cost of raising to two years of
he cow would be past her period of
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terest $\qquad$
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THE FARMER'S ADVOCATE.
Founded 1866
itself more readily to the best working of the nest On the inside of the keg nail three strips perpendicularly
so that the top end of the strips or cleats will be about eight inches from the bottom of the keg. I generally
make the cleats out of an inch board, sawing off the make the cleats out of an inch board, sawing off the
strips an inch wide and six inches long. These cleate are for the false bottom of the nest to rest upon. Place them on the inside of the keg some distance apart so
that the weight of the hens will not tip them and let the hens fall through and down on to the eggs. If the box or keg is large, four cleats will be found better
Cut a board that will fit loosely into the keg, and in the centre of the board cut a hole big enough to let an on top of this board; then with strong cord or fine wire,
like stove-pipe wire, fasten the straw to the board by winding the wire or string over the straw, passing it
through the hole to the edge of the board, then on under the board and up through the hole over the straw again
and so on, till you have fastened it securely, going all the way round the false bottom. In the bottom of the
keg put some hay, clover is the best as it is springy Leave it cone-shaped with the cone directly pointed
under the hole of the false bottom. Place the false bottom on the cleats and the nest is ready. As soon hole, drop on the top of the cone of hay and roll to the
outside of the keg. You can get the eggs by putting outside of the keg. You can get the false bottom; lift
your hand through the hole in the
the false bottom out and if necessary fix the hay back into cone shape again. Keep the straw on the false
bottom good and high next the sides of the keg to in. sure the egg rolling to the hole in the centre of the false I have seen the hens with their legs kicking in the eggs, and so long as I kept the cone in good shape the them and they work.
West Summerland, B. C. Walter M. Wright

More Hists on Incubation.
Editor The Farmer's Adiocate:
This letter is written by one who is not in a position, financially, to make conditions suitable to his case
but has to adjust his case to suit the conditions. It is all very well for learned men to recommend to us that
we should keep our incubators in an airy well-ventilated cellar, dry, but not too dry, or a room, the temperature scribed limits. Suppose your cellar does not possess the ideal cement floor; suppose it is as damp as they
make them, are you to give up the idea of hatching chickens out of an incubator? Undoubtedly the best
place to run an incubator is a cellar. There is an even temperature, no vibration and a certain amount of
moisture. The best hatch I ever saw was obtained by a novice with a $250-\mathrm{egg}$ machine in a cellar that had
little ventilation and down the walls of which the water was fairly trickling. It was his first try and I tested
the eggs for him. As I had sold him the eggs with a guarantee that I would replace all infertiles, you can
depend upon it that I left in any that had the remotest chance of hatching-and he got 175 chicks out of 190 And if you haven't a cellar, pick out a quiet bedroom I have seen incubators run in the parlour, or even in
a big kitchen, but the owners of the last-named told me
they thought the jarring affected the results. When I first ran an incubator, three years ago, I ran it in a
room which wasn't used. Out of the first 250 eggs 1 got 75 chickens. I thought I hadn't attended suffi.
ciently to details. The chicks were there, but they
were dead in shell. were dead in shell. So I tried again with 50 chicks
this time, and a third time with only 35 . By then I
thought incubators were a fraud and gave it up as a bad job. The next year, finding results from hens set distance) were good, I set 240 in the incubator for a
week or 10 days, and then took them out and placed them under hens. and I got 165 chickens out of 190
fertile eggs. So I ran off 100 eggs in the incubatot wondered why I had such different results with the I believe the reason was that the
ut into the machine a big tray g advanced and the ground grew
POULTRY.
A Nest to Prevent Egg-Eating.

esults every time, especialls,
been carried on a rairoad,
my own or my my own or my neighbor's the better, the mo or two

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| Pack Properly. |
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|  |  | you can tell exactly when they are turned. By following the directions in other respects yo should be able to get good results, no matter what the season. Use eggs from gootheck and to be con-

will come. Rearing is another question to heavy kinds of fowls laying when the top prices are healy kiven for eggs you must use an incubator.
W. J. FLETCHE
Lanark Co., Ont.

Making Poultry Pay
Editor "The Farmer's Advocate:" oultrymen in your paper for some time past, and the many readers of your valuable paper a few point ers on the care and management of my flock I keep Plymouth Rocks, chiefly, with a few White
Wyandottes and Black Minorcas on trial. But find the Plymouth Rocks are the best utility birds showed the Blark Minorcas ahead by a small margin; ompared the Plymouth ${ }^{\circ}$ Rocks. more than doubled The place where I house my poultry is a log building, anything but expensive. It is 18 feet square when 1 let the flock run together in becasse laty find when I am forcing the pullets for the early eggs,
the old hens become over-fat and do not lay any until late in the season. When it is time to house the
geese for winter I turn this little depatment into a
goose-house and put the hens and pullets all together goose-house and put the hens and pullets all together.
The house is sprayed with a mixture of disinfect-
ants and lime, it is also cleaned regularly to keep down of the sun shine, while the hens are picking up thei pevent this they must be made work for what they
prever and this also tends to keep them from getting
get About the first of October I put my pullets in their winter quarters, and start forcing them to get them in
laying condition before the cold weather sets in. They are kept separate from the old hens unth the cold
weather sets in. Their feed consists of a mixture
of wheat, oats. peas, buckuheat and acorn. A soft mash is also given at noon. The grain is fed in a rows colder the other grains are mixed in their rations. ime, with a drink of skim-milk or buttermilk in the morning. Green feed is supplied by cabbage, sprouted sand and coal ashes, and as soon as they commence laying I keep iñ their pen a hopper full of oyster shells, and another with a dry mash composed of rolled oats, very expensive to readers but, nevertheless, it pays an apple barrel. This I keep partly filled with dry earth and ashes. I keep it on a slant, so the rays
of the sun shine directly into it. With this care and management of my flock I get fresh eggs the year highest price, and any person who cares for his flock properly will never be able to say that poultry does
. MOORE.

## HORTICULTURE.

Dommion Fruit Commissioner.

The Practice of Dusting Apple

## Whon suraving fruit trees to prevent the rav

 ages of flungous and insect pests was first introduc din th.s country many look ond on askance atthose who sionarred in thy wor wi:hout hesitation that it has been a success; use that make siraying m , re effertive than it was to such an extent that one part of the lator is
performad larcely by cas in. power. Yet there periormadarcely by cas n power. yet there twenty-five acres of orcled three or four times annually, knows fill well what this means. For

red sul hur of unusual fin niss has heen It is believed that the effectiven ss of the treat fineness of the sulphur The powd $r$ excend $n$ : in experimens was of the si-cal d fluffy type.
From the exteriments cond icted, und r Now Stat: cond ti ns, it ap ars that good results ca cenc. of exce dingly finsl ;-ground sulphur, and 15 per cent. of powdered arsenate of lead. The tree at ea"h application. me made are ad ised by those who have experinentrd with it, as follows: 1. In the pink; that
s, before th: blosso:ns clu ter-buds ha e separated. This will hill
larvac of various spring ca orpillars and will proca yx: this is the most important treatment for
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Te dusted at the same total cost per tree as to


 aving of time and lator is a fuctor in the tota Cost pere tree. It should he rememberedad also that sint is not yet commererinitiod, and materials
 Durin: the sensenn of 1915 rort. Veddich Nowghout th. Stute of New Yorr, the rasilte
 As yst, to oir knowleldes, tho pratice of dusu ro orted, howe herr, that somo wore e elony thit
 trell tor to sumying tor or conalitions, yot it is

 treat dilyerne., Gur orthrris can to kopt prac

## FARM BULLETIN.

## Sawing Logs

iob of hauling out logr an and t was something of a rush job, as the snow was melting, fast and everyone wanted to get through with it. The tree way one that lad been blown partly out by the
Trout in the lif: windstotrm of a year ago laut November th lad lodged ii the top of another tree, hut enougb
rots had remained unbroken to keer it alive. As it cillect a "widove maker It appeared to be eo firmly calush in the tranchese of the other tree that it would not be poesible to pet it down without felling the tree
in which it was locted. Children usect to eshin up its slanting trunk, and I Chought they were in no danger, but one day, when
was in the woortlot with a visior, 1 heard a crackling in the jammedt branchees that made me think that the vindow maker was coming down of course, 1 ,ssued was probably as well that I did, for a Irw days lateri, came crashing. down. As it was an entirely sound hard mapic, we decitect to send it on he sawmill for flooring

When we went to look at the tree, we saw troubls
ahead dat once The trunk was about a foot from the rround and resting on a biga branch that theld it up
Even an mamateur lumberman could see at once that the aud be ar through the rrunk.. But ! did not inagine that it would pinch so much. After viewing the situation carefully, We hunted up halr a dozen hlocks of stove- wood thal Then we cut atout polo wo the ton of a small tree that had been felled for another purpose. In this way we provided ourselves with the necessary elements of a lever and began our feat of engineering. We knew the pressure. Ater a few attempts, in which we onl) managed to push the block under the lever down into the sow, we frially got everything solid and found
that by putting all our weight on the end of our twenty foot lever we could heave up the top of the wrink a when I went to place the blocks under it, he trunk had had Kome down for the bay did not have the necesary beel

 thine he was carry cary If he tomet aroses whe goose
$\qquad$
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$\qquad$
$\qquad$ Shoved that we thould saw throuph the trunk and that
blocks as firm
sawing began
When we took up the saw I suddenly noticed that was almost swimming in perspiration and my hair to the work，for we were bound to have the stippe before they got back with the team．We started in briskly and got the saw doun about half its depth when something slipped and the saw stopped dead．We went back to the lever wedges，and，by dint of much
swinging and pounding，managed to heave up the trunk and block it so that the saw was loose．But after another spell of sawing we got pinched again．Five blessed times we had to go back to the lever to get the saw loose，but we were in too much of a hurry to take
time to get mad．We were bound to get the job done before the team got bark from the saw mill．After we finally got the top cut off the rest was easy．We placed blocks where the next cut was to be made and loosened our top－blocks，but left them close enough to keep the
log that was being cut off from splitting with its own log that was being cut off from tr
weight when we were sawing it off．

Of course，we had no more pinching，but I am not sure that that was an advantage．A，man who is out
of training，＂fat and scant of breath，＂is likely to find work on the end of a crosscut saw about all that he can iob done in time and if his wind was affected，he was to proud to show it．And I couldn＇t let him get a suspicion that he is a better man than I am，so I tugged at that saw even when I was seeing stars．There were ＂widow maker．＂Once or t wice I managed to remember something about which I could stop a moment to ask him a question，as if I had forgotten about it，and as If it were terribly important．In this way I managed my breath for a moment．But the speed at which we wete going soon nipped off the two logs and I had the satisfaction of shouldering the saw and getting safely Well，yes，for a few hours．But what an appetite Well，yes，
worked up．

## Free Wheat Voted Down．

The subject of free wheat was introduced in the
House of Commons during the present session by fohn G．Turriff，M．P．，for Assiniboia，in a resolu－ tion that in order to secure to the farmers and people of Canada the advantages of the American market for wheat，wheat products and potatoes，steps should be taken at once to put these articles on the free there had not a single year during the past

Assiniboia co

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| West Toromto，Monday Fel． 28 ，were：128 cars， 2,101 catle， 212 hogs， 186 sheep， |  |
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| Slow with prices barely steay ．Chuice |  |
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| $\$ 9.50$ ；lambs，$\$ 9.50$ to $\$ 12.50$ ；hogs，$\$ 9.75$ fed and watered． <br> IVE STOCK |  |
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| The total reverits of live stok at theOty and Union Stock Yards tor the past |  |
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 75c．，according to freights outside．
American Corn－No． 3 yellow， $821 / 2 \mathrm{c}$ ．，
track，Toronto． Canadian Corn－Feed， 74 c ．to 75 c ．， Peas－No． $2, \quad \$ 1,70$ ，according to
freights outside：sample peas，according to sample，$\$ 1.25$ to $\$ 1.50$ ． Oats－Ontario，No． 3 white， 43 c ．to
44 c, according to freights outside；com－ hercial oats， 42 c ．to 4.3 c ．；No． 2 Canada
Western， $427 \%$ in store，Fort Uilliam． No． 3 Canada Western， $407 / 8$ in store，
Fort William；extra No． 1 feed， $407,8 c$, in
store store，Fort William；
in store，Fort William
Barley－Ontario，good malting，64c．to
Gfic．；feed barley， 57 c ．to 60 c ．，according
frest outside． according to freight outside；rejected，
8.3 ．to 85 c, according to sample． Flour－Winter，$\$ 4.60$ to $\$ 4.70$ ，accord－
ing to sample，track，Toronto；bulk，sea－ board，$\$ 4.60$ to $\$ 4.70$ ，prompt shipmen
lanitoba flour－First patents，$\$ 7.00$ second patents，$\$ 6.50$ in jute；strong
bakers，$\$ 6.30$ in jute；in cotton，10c．

Hay and millfeed．
Hay－Baled，car lots，track，Toronto，
No． $1, \$ 17.50$ to $\$ 18.50$ ．No $\$ 14$ to $\$ 16$, o．1，$\$ 17.50$ to $\$ 18.50$ ；No．2，$\$ 14$ to $\$ 16$ ，
track，Toronto．
Bran $\$ 25$ in bags，Montreal freight； 27，Montreal freicht freight；middlings per bag，$\$ 1.75$ to $\$ 1.85$ ．Montreal freight．
$\qquad$ week．Creamery pound squares，fresh made， 35 c ．to 36 c ．；creamery cut squares，
3 te．to 35 c ．；creamery solids， 32 c ．to 34 c ．；
separator diry
$\qquad$ 128 cars， 2,101 catte， 242 hogs， $186{ }^{\prime}$ sheep， of cattle was common to good；trade was heavy steers，$\$ 7.60$ to $\$ 7.85$ ；choice buthers＇steers and heifers， 87.40 to
$87.55 ;$ commonn and medium， 86.25 to
8, 86.50 ；cows，$\$ 3.75$ to 86.50 ；bulls， 85 to
$86.75 ;$ fecelers，unchanged；milkers， 860
$\$ 80$
 TOTAL LIVE STOCK （ity and Union Stock Yards for the pas wetas on Thursday．
not，during ten or eleven months of the year，take
their wheat across the line，if it were not for the duty， and get from ten to sixteen cents a bushel more for it than they could get at home．He asked why every
man who grows wheat in Canada should be crucified to the extent of ten cents a bushel on his wheat？ He conceded that the Canadian millers would have to pay more for their wheat and sell their flour cheaper， but they could stand it when one company could make
$\$ 1,600,000$ profit in a year－ 56 per cent．on its millions $\$ 1,600,000$ profit iñ a year－ 56 per cent．on its mernment
of watered stock．It was about time the government of watered stock．It was about time ne ghat was good for them．Sir Wm．Thos．White，Minister of Finance，argued that the inrush of Canadian wheat on the American market would lower prices and make
any expected benefits only temporary．The proposal any expected benefits only temporary．The proposal national policy of Canada．He stated that the Under wood（American）tariff did not simply provide that if other countries admitted United States wheat free against their wheat．It enacted that if Canada，for example，allowed U．S．wheat and wheat products， such as flour and semolina，to enter its territory free of duty the United States would grant a like con－ Canada should not take any step now that might hamper preferential arrangements within the Empire after the war．The crucial point in his contention appeared to be that it would not be in＂the national a capacity of 110,000 barrels daily in competition daily capacity of $1,000,000$ barrels of flour．Sir Thos． White and other speakers suggested that farmers should look to the Grain Growers＇Company，a heavy
buyer of wheat in the West，and which，according to Hon．Arthur Meighen，last year made a profit of 27 per cent．，to raise prices．In regard to per－
manency of prices Hon．Frank Oliver ers should not be debarred this year from getting $\$ 100$ per bushel，because next year it might be only 75 cents，and asserted that farmers had been penalized for the benefit wheat crop to the extent of $\$ 12,500,000$ for the benefit of the milling industry and the railways．
Hon．Robt．Rogers attributed existing conditions ather to the high grading system of Canada and
the lack of a sample market，for which（latter）he held the Grain Growers＇Association responsible and blamable．He concluded by saying that Canadian
wheat should not be diverted into American channels where it would lose its transcendent identy．J．J． it was that．Canadian flour was sold at 50 or 60 cents a barrel cheaper in Liverpool than in Eastern Can－
ada，and thought millers must be making excessive ada，and thought millers must be making excessive
profits in Canada．W．F．McLean，M．P．，strongly favored free wheat，and proposed nationalizing the

Atlantic．He subsequently supported with his vote divisios 77 to 4

The Shearer Holstein－Friesian Sale． The sale of Holstein cattle of W．S．Shearer，Listowel was held as advertised．There was a large crowd show condition and prices realized were quite atis show condion，an pres alf the number under t years of age，averaged \＄142．The following is a lis nimals bringing $\$ 100$ or over，with their purchasers： Rosarden Lad，Willis Johnston，Listowel．．．．．．．\＄110 Burnside 1idy Kornyke，Jas．White，Listowe－ 18 Princess Gretqui De Kol，R．T．Carson，Atwood Flossie De Kol Clothilde，R．T．Carson．．． Jennie Morrison，J．J．Waechter，Mildmay $\quad 160$ M．Boyd Atwood 175 Roxey of Rosarden，Ryerson Chamney，Listowel ．．． 145 Dutchland Grange，T．Cleland，Listowel． Listowel Grange，Robert Galbraith，Atwo
Elsie Mercena，Dr．C．A．Cline，London
Henrietta Grange，Dr．C．A．Cline．．．．．．．．．．．．．．．

Officers of the Guelph Winter Fair
tario Provincial Winter of tary＇s office，Parliament Buildings，Toronto，Wednes
The following
President，Wming officers were elected：Honorary W．W．Ballantyne，Stratford；Vice－President，Jno． Flatt，Hamilton；Secretary－Treasurer，R．W．Wade，
Toronto．Executive Committee：John Gardhouse Weston；R．S．Stevenson，Ancaster；J．E．Brethour Burford；William McNeil，London；A．McKenney Amherstburg．

The date for the next Winter Fair is December
It was the decision of the Directors to add a class or thearling ewes for the 1916 show to take the place

Uncle Bije says，＂if there is a more foolish looking spectacle than a row of grown men lined up polishing a
walnut plank，with booze glasses，it has escaped his Leading Markets．

## THE ROYAL BANK OF CANADA



Savings Department at all Branches

Egg-New-laid eggs again declined on
he wholesales during the past week the wholling at 28 c . to 30 c ., and cold-storage 23c. to 24 c . per dozen.
Cheese New, large, 19 c.; twins, $191 / 2 \mathrm{c}$. F per pound; combs, per dozen sections, 2.40 to $\$ 3$

Beans-Prime, $\$ 4.25$ to $\$ 4.50$; hand
picked, $\$ 4.50$ to $\$ 4.75$ per bushel picked,
Potatos- Ontario, per bag, car lot
$\$ 1.65$ and $\$ 1.70$; New Brunswick, per bag car lot, $\$ 1.80$ and $\$ 1.85$ Poultry-Live weight: Chickens, 14 s
to 17 c . per Ib.; duck, 17 c. per Ib.; geese
12c per 1 lb .; turkeys, young, 20 c . per 1 b . 12c. per Ib.; turkeys, young, 20c. per 1 b .
turkeys, old, 18 c . pet 1 lb ; fowl, heavy, 16 c
per lb .; fow!, light, 14 c . to 12 c . per lb . lb.; fow!, light,
hides and skins. City hides, flat, 18c.: country hides,
ured, 18 c . to 17 c .; country hide cured, 15 c . to 16 c .. country hides, green
14 c. to 15 c ; calf skins. per $1 \mathrm{~b} ., 18 \mathrm{c}$. c. to 15 c . calf skins, per lb ., 18 c .
ip skins, per Ib, 16 cc ; sheep skinc, city
2 to $\$ 3 ;$ sheep skins, country, $\$ 1.50$ t $\$ 2.25$; lamb skins and pelts, $\$ 1.20$ to
$\$ 1.25$; horse hair, per lb., 37 c . to 40 c 1.25 : horse hair, per $1 \mathrm{~b} ., 37 \mathrm{c}$. to 40 c
orse hides, No. $1, \$ 4$ to $\$ 5 ;$ No. 2 , $\$ 3$
$\$ 4$. Wool, washed, 40 c . to 44 c ; wocl

Wholesale fruits and vegetables.
Prices remained nearly stationary on Prices remained nearly stationary on
nost of the offerings at the wholesales during the pact week. Navel orange
were an exception, as they declined from
twenty-five to fifty cents twenty-five to fifty cents per box; and ar
now selling at $\$ 2.25$ to $\$ 3.25$ per case. The home-grown mushrooms on sal previous shipmente and brought 60c. pe Hot-house rhubarb is coming in in
larger quantities, and is of splendid per dozen bunches. priced, a few choice domestic (and these are scarce) selling at $\$ 2.75$ to $\$ 3$ per bag
others grading at $\$ 2$ to $\$ 2.50$, the Amer
cans $\$ 5.50$ per case. Nelling at $\$ 3$ per case of about 48 head New beets at $\$ 1.25$ per dozen bunches.
Florida strawlerries are in demand a 40c. per box.
Apples- 25 c . to 35 c . per 11 -quar
basket; Spve, $\$ 4$ to $\$ 6$ per bbl. Greening and Baldwins, $\$ 3$ to $\$ 5$ per bbil.; Russets per bbl.: imported, $\$ 2.25$ to $\$ 3$ per box
British Conlumbia, $\$ 2$ to $\$ 2.50$ per box
Ontario, $\$ 1.50$ to $\$$ ?

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slight ir crease, but the bulk were un-
desirable, the animals being young and
of poor quality. These sel of poor quality. These sold at $\$ 2$ to $\$ 3.50$
apiece, with an occasional animal selling around $\$ 1$ more. The milk-fed stock
brought 10 to 11 c . per lb., and good brought 10 to 11 c . per 1 b ., and good
stall-fed calves sold at $51 / \mathrm{c}$. to $61 / 2 \mathrm{c}$. The
offerings of offerings of hogs have been larger of late
and as a consequence the tone of the
market was a little on the easy side. market was a little on the easy side
Select hogs sold at $101 \frac{1}{2}$ to $103 / 4 \mathrm{c}$. per lb
weighed off cars. weighed off cars.
Horses-There is still some demand for horses, both from cartage companies and
from farmers making preparations for spring operations, but the market was
nevertheless dull. There was no change nevertheless dull. There was no change
in price. Quotations were: Heavy draft
horses weighing 1,500 to 1,700 lbs., $\$ 200$ to $\$ 250$ each; light draft horses weighing
1,400 to 1,500 lbs., $\$ 150$ to $\$ 200$ each;
small horses, $\$ 100$ to $\$ 125 ;$ and culls,
$\$ 50$ to $\$ 75$ each small horses, $\$ 100$ to $\$ 125$; and culls,
$\$ 50$ to $\$ 75$ each. Fine saddle and carriage
animals are $\$ 200$ to $\$ 250$ each. Dressed Hogs - In sympathy with the
decline in price of live hoga, dressed hogs
sold at slightly lower prices last week sold at slightly lower prices last week
Abbatoir-dressed, fresh-killed hogs wer quoted at $143 / 4$, to 155 ., and light-weight
country-dressed hogs at $133 / 4$ to 14 c . per
Poultry-Poultry was scarce and dear
Demand fell off considerably because of the high prices and, owing to this, dealers had to accept lower figures. Choice
turkeys were quoted at 27 to 28 c . per lb.
and ordinary turkeys at 24 to 26 c . Chick and ordinary turkeys at 24 to 26 c . Chick
ens declined and the price ranged from 20 c . per ib. Geese and fowl were lowe also, being obtainable at 15 to 17 c,
according to quality. Potatoes-The market for potatoe
held its strength and supplies were none
too plentiful. Choicest Creen Mountains too plentiful. Choicest Creen Mountain
and Quebec potatoes sold in car lots at $\$ 1.80$ to $\$ 1.85$ per bag, ex-track and in
smaller way, at 15 to 20c. advance o smaller way,
these figures.
Maple Syrup and Honey-Old syrup
was not in very good demand and very little of it was available. The price held
steady at 95 c . for 8 -lb. tins; $\$ 1.10$ each steady at 95 c . for $8-\mathrm{lb}$. tins; $\$ 1.10$ each
for $10-\mathrm{lb}$. tins, and $\$ 1.40$ for $13-\mathrm{lb}$. tins.
Pure maple sugar was firm, at 13 c . Honey ure maple sugar was firm, at 13 c . Honey
was unchanged, being quoted at 15 c . for
white colver comb and 12 to 13 c . for white colver comb and 12 to 13c. for
white extracted, while brown clover comb was 12 to 13 c . and extracted 10 to 11 c
Buckwheat honey was 9 to $101 / 2 \mathrm{c}$. per Ib
Egrs- This is the one food product Eggs-This is the one food product which is going down in price. Production
is constantly increasing and strictly is constantly increasing and strict 32
fresh stock was quoted at 30 to 32 c
Select eggs were quoted at 26 to 27 c Select eggs were quoted at 26 to 27 c .
No. 1 candled at 24 to 25 c . No.
candled, 21 to 22 c . Butter-The market for butter showed slightly easier disposition, whe of year,
little surprising at this time
and suggests that stocks may have been and suggests that stocks may have be
little heavier than anticipated. Quot tions for finest were $333 / 4$ to 3414 c , while
fine was quoted at about 1 l . less and seconds quoted at about $311 / 2$ to $321 / 2 \mathrm{c}$. Dairies wer
secoss Cheese - There was no change in this
market. Finest Western cheese was $18{ }^{3}$ narket. Finest Western cheese was
to 19 c . and finest Eastern $1 / 2 \mathrm{c}$. less.
Grain down several cents during the past few days, but the fluctuations carry the price ap and down from hour to hour. Oats wheat. No. 2 white Ontario and Quebe
oat were quoted at $481 / 2)^{2}$., No. 3 at $471 / 2 \mathrm{c}$, and No. 4 at $61 / 2 \mathrm{c}$. per bushel ex-store
Canadian westerns were steady at $531 / 2 \mathrm{c}$. or No. 2, and $511 / 2 \mathrm{c}$. for No. 3 .
Flour-In sympathy with lower
rice of wheat, flour declined to $\$ 7.10$ per price of wheat, flour declined to $\$ 7.10$ per
barrel for first patent Manitoba wheat
Hour, $\$ 6.60$ for second patents and $\$ 6.10$ four, $\$ 6.60$ for second patents and $\$ 6.40$ were also lower, being $\$ 6.60$ for patents, in wood, and $\$ 5.90$ to $\$ 6$ for straight
rollers, the latter being $\$ 2.85$ per bag. Hay - The market was steady at $\$ 2$ good, and $\$ 20$
was $\$ 18.50$.
Seeds-Prices were unchanged. Dealers
quoted, at quoted, at country points, to shippers
$\$ 10$ to $\$ 12$ per bushel for red clover, $\$ 7$
10 81 for alike and $\$ 9$ in $\$ 12$ for timoth the latter being per 107 los . and ihe clov per bushel.
Hides-T Hides-There
market last week

## Buffalo.

Cattle-Receipts at Buffalo last week
were again liberal, and another market
hat was generally weak, prevailed. On

$\$ 8.50$ down. Receipts last week reached approximately 17,700 head, as compared
with 19,014 head for the week before and 10,650 head for the same week a yea Calves-Last week started with tops
selling mostly at $\$ 12.00$; the next three selling mostly at $\$ 12.00 ;$ the next three
days best lots ranged from $\$ 12.00$ to $\$ 12.50$, and Friday the bulk went at $\$ 12.50$, with a few reaching $\$ 12.75$. Cull grades went from $\$ 10.00$ down, heavy
fat calves ranged from $\$ 7.00$ to $\$ 8.50$, and grassers, unless very desirable, are
not quotable above $\$ 5.50$. No Canadians were offered the past week. Receipts for the entire week reached aroud 2,000 head, being against 2,496 head for the
previous week and 850 head for the same

## Chicago.

Chicago, Feb. 26-Cattle-Beeves, $\$ 6$. .
25
to
$\$ 9.50 ;$ stockers and feeders, $\$ 5.65$ calves, $\$ 8.50$ to $\$ 11.25$. $\$ 8.05$ mixed Hogs-Light, $\$ 8.05$ to $\$ 8.65$; mixed,
$\$ 8.35$ to $\$ 8.70 ;$ heavy, $\$ 8.25$ to $\$ 8.75$; rough, $\$ 8.25$ to $\$ 8.40$; pigs, $\$ 6.80$ to $\$ 8.75$.

## The Oxford District

 Holstein Sale.The ustal high-class offering of cattle
will be seen at the 5 th $A$ nnual
Oxxiord District Holstein Breders Clut consign nent sale to be held at Woodstock or
March 15. The members of the Club have a reputation to maintain and this they are determined to do at the coming vent. One of the chief attractions wil Mercena Madam Posch Pauline, the only cow in the world, it is said, to give $17,476.9 \mathrm{lbs}$. milk and 709.9 Ibs. Butter in 179 days.
The owner of Prince Abbekerk Mercena is also offering one of this great bull's daughters. Another lot included in the sale is a $26-\mathrm{lb}$. cow. The names of the
breeders consigning stock are familiar breeders consigning stock are familiar
to all patrons of the Holstein breed. to all patrons of the H. E. Thompson, particulars about the sale.

## Gossip.

W. J. McCallum, Brampton, Ont., and Wigton, Cumberland, Eng., whose ad
vertisement appears in another column is in the market to purchase a number of pedigreed Clydesdales. Parties having such horses for sale should communicate
with Mr. McCallum. with Mr. McCallu
J. A. Watt, Elora, Ont., writes that horns, in the last six months. The recent public sales held at Toronto were topped by Salem sold directly
either bought here, or Gainford Marquis, nine times first and unbeaten in Great Britain, cham pion at Chicago International, and
three years grand champion of Can ada, will not be shown again, although he is as good as ever. Some time ago, we sold his champion son, "Gainford
Perfection," for $\$ 3,000$, to Day \& Rothrock," Spok the sire of "'Silver Oueen, champion everywhere in 1915, and Duchess 50th, champion of the Can adian shows 1914. Gainford Marquis in the get of sions was get of the great Avondale, whose get
were never beaten in the United States.

SALE DATES CLAIMED.
March 8-W. J. Isaac, R. R. 1, Balt more, Ont.: pure-bred stock.
March 8 John Tuck, R. R. 2, Breslau Ont.; Shorthorns, sheep and swine.
March 9 -Elias Ruby, Tavistock,
March 9
March 14-W. J. Cowan, Cannington
Ont.; Clydesdales and Standard-breds.
March 14-East Elgin Breeders' Sale
March 14-East Elgin Breeders
March 15-Oxford Distrift Holstein Breeders' Club Consignment Sale, at
Woodstack; W. E. Thomson, Woodstock,

Secretary, 29-Western Ontario Consign
Ont., Manager. Men, Balliams
April 19 James Benning, Williams-
Jors, Ayrshires.


## Children.

A joyous sound of laughter
Blown through the gates of morning, A gossamer of music
(O little frightened whisper,
Glad lips with song, upswelling
Wide eyes agaze with wonder
Hearts tiptoe for adventure.
(O glance that brands the
0 words of baby wisdom!)
A rush, a cry, a scurry
A gust of mimic passion.
( $O$ litle lifted faces
Blown bubbles floating lightly
That cast no shadow after,
That nirror only heaven.
(O clear eyes filled with vision!
O lips like silent sphinxes!

Travel Notes.

[^1]of improvised makeshift contrivances
orners in plain letters. Mark Twain homes have been ruined, their property an investigating tour around the town have got tired of feeding them, and he lost his way," he says, "in a tangle country. A hundred thousand of them of narrow, crooked streets, and stayed are being sent to the southern part lost for an hour or two. Finally of orance. As they are not ang lines,
found a street which looked some- to pass through the fighting line what familiar, and said to myself, they have to be sent around by Ger-
now I am at home, I judge.' But many and Switzerland. I was wrong; this was Hell Street. For one hour I stood on the cold, Presently I found another place which damp, ground, in a chilly foggy atmos-


The "Evacués" Coming from the Station, Geneva.
alf, 'now I am at home, stire. It as they came from the station Sory Street. Aiter a little, I said, neighborhood of the station for the Now, I've got to the right place same purpose. A line of armed soldiers dise Street, I'm further from home than other soldiers, unarmed, were detailed queer names. .Calvin was the author of help them in any way necessary. Drawn them, likely." up beside the platform were big motor I have had my first glimpse of some Every one was waiting-waiting, but


Old men and women, bent and crippled, hobbling painfully along; pale flind heople lame people, people with sore eyes and graveyard coughs. And babies. Such a lot of babies. I tried co imagine the interior of one of those at once. What a pandemonium! And it lasted two days! T wo days of ear-
splitting racket! But I suppose those wretched people have become so inured doesn't make much difference to or less In almost complete silence the sad procession of refugees filed past. Once
or twice some of the more ambitious ones tried to shout, "Vive la Suisse,"
hut their voices were so weak and faint gray-coated Swiss soldiers walked along ants. It seemed to me as if every third soldier was carrying a baby in
his brawny arms. But 1 saw one fraillooking young mother who absolutedifferent soldier's offered to take it
from her, but she would not give it up. Perhaps she had lost everything
else she had in the world, and was afraid to let her baby out of her sight. was the sight of the orphaned childrenpoor little, homeless waifs, tagged like
a lot of cattle, and going they knew not whither little boy of seven was asked:
"Where is your father
"And your mother
"And where,, are you going?
In one car there was a bunch ot of age. They had been dumped into the train at the last minute like so much baggage. Some of them had parents, but they didn't know where any time sorting out families, or looking up parents. They just filled the cars. Many of the parents were left children later on, perhaps they will The see them again. refugees when they reach Switzerland is most deplorable. They are ragged, dirty and starving. Some are revoltingly filthy
and covered with vermin. Many are suffering from physical ills due to neglect and exposure.
The refugees are brought into $S$ witzerland by way of Schauff house, where
they are taken in charge by the Swiss they are taken in charge by the Swiss
Red Cross. When they reach Zurich they are taken to rooms prepared for the purpose and bathed, fed, and re
clothed. Those too ill to travel farther sent on to Geneva. Sometimes the and then the clean-up process is done Cered to tram cars and eaken out to her the frontier line, and from there
Ith tales an enormous amount of
Cothes to reclothe these raggent peo-

Helping the Sick and Cripple 1 Into the Ambulance
most liberally, but the supply is run-
ning out, and the Red Cross have
One old Frenchman refused to ac-
Wingly, why he wanted a black crape cap. "For
ds all had a black cap, but the "German soldiers
tore it off my head and put it on the
head of a horse that was passing."

The stories these people tell of the
brutality of the German soldiers are so revolting as to be almost unbelievable.
Among the refugees are people of all classes of society, cultivated and gnorant, rich and poorobut now, all are poor. anly old people,women and
children, and the disabled are sent back to France; all the boys over sixteen, and the able-bodied men of military age are detaned by the During all these kept in complete ignorance about the war. When the refugee trains arrive in Switzerland, one of the first things newspapers in the cars. The poor creapapers, and the pictures of the French soldiers.
Two refugee trains arrive in Geneva every day, each train bringing about
500 people. Their condition varies a 500 people. Their condition varies a
good deal, depending on the particular section of the country they come from. The party that came from Longwy a few days ago were in a terri-
ible state. There were seventy old peoible state. There were seventy old peo-
ple so ill and exhausted that they had to be conveyed to Annemasse in ambulances.
A great surprise waited the last train of refugees that reached Geneva ing hustled right out to Annemasse, they were taken to a hall and given a Christmas treat. There was a gorgeous
Christmas tree, all a glitter with candles Christmas tree, all a glitter with candles and spangles,
there was a for every person
present. The children of Plainpalais-a certain section of
Genea- gave all their Christmas toys Geneva-gave all their Christmas toys
to the little French children. And to the little French children. And
in addition, they gave them bags of in addition, they gave them bags of
cakes and biscuits-the bags they made cakes and biscuits-the bags they made
themselves, and the cakes they bought with the pennies they had saved.
It is no wonder these people look pinched and starved, when one consiters the famine prices charged for
lood. In Canadian coinage the prices would be equivalent to one dollar a pound for butter, eighty cents a pint
for vil, six cents a pound for potatoes, for oil, six cents a pound for potatoes.
Eggs cost fifteen cents apiece. Milk was not obtainable at all.
The rules and regulations laid down by the Germans were very strict, and for the least infraction there was severe
punishment. Some of the refugees bring their cats
and dogs with them, and occasionally One old lady in Geneva, who is a
One refugee train with a large basket filled with food for the cats and dogs. And talking about dogs makes me
think of the story told me by one of the ladies who assists in the work at of War. Cross Agency for Prisoners She says people write to the Agency about all sorts of things that the Agency has nothing wratever to do with. This
story is an illustration. It is about a $\operatorname{dog}-\mathrm{a}$ dog that belonged to an old German lady from Hanover. When and in her haste to get away she for got her pet dog. She wrote to the
Prisoners' Agency in them of her sad loss, and requesting them to find her dog for her. She said On of the Red Cross and get it pened to the going to Paris about this good naturedly underHe. Wronght it back with him and whent hy and no answer came. Agenes the dog lived at the dog, affectionate a a re responsive,
that one became greatly attached to it one became greatly attached
broumh it from the man who had clally the man who had
from Paris.
we didn't with it at all.
lay a letter came-a letter
1 lady. She said she had 1 lady. She said she had
Geneva but the frontier
and she couldn't get into andeva but the frontie
and she couldn't get int
Would they please send iermany?
impossible at the time,
continued to lead impossible at the time,
ontinued to lead a merry
the Agency. It was like the Agency. It was like of tragedy.



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225 MILES north of town of Chicoutimi, where the temperature in winter goes down to $40^{\circ}$ to $50^{\circ}$ below zero It is some-
thing of a
tasktomain-
tain roads
under such
frosty con-
ditions, but ditions, but Chicoutimi $\qquad$ Pre
also rendered the
smooth for the traffic.
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preent its use has given us enpresent its use
tire sat isfaction.
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unites with the macadam surface and hardens to a Here is the report of Jean A. in his own words: rough, waterproof, weather "During the summer of 1911 , we
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cost and pays for itself in sav ings of maintenance charges.

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It is quite necessary to keep all
patients ill with measles, not only iso patients ill with measles, not only iso-
lated, but in bed, in order that the lated, but in bed in order that be
possibility of catching cold may be avoided. Occasionally a wide-spread epidemic
of measles is caused hy the of measles is caused by the germs, get
ting into milk It is, of course, the
duty of the Health officer to trace duay of the Health Office to trace
dases due to this down to the source Early reports of every case will help

## Hope's Quiet

 Hour.The Field is the World He answered and said unto them He
that soweth the good seed is the son of
Wold xiii: One of the things our Lord impressed
Ond on His disciples was the greatness of the Church's work. They were never to rest
satisfied until all the nations owned their
Mit Master as King. They belonged to a rac
which was anything but universal in it outook. The Jews though thenselves the
ousosen of (God; all other nations were Centiles and outside the Covenant Slowly they learned the lesson of God
love lor all the world. Then they set ou to make disciples of all the nations.
The business of every man is to serve
his generation in some way-one who live
his generation in some way one who ive
only for himself is a dead failure an idler in God's field. There is plenty of oppor
tunity for willing workers for the field tunity for willing workers for the hetc
is a large one the whole word. We are
now effectually shaken out of narrow now eefectualy shaken out of narroy
and petty interests. Every day we paze
out over the world
feeling that loca out over the world eeiling tha
affairs are less interesting than the battle
fields on the other side of te fields on the other side of the sea.
God is trying to burn selfishness God is trying to burn selfishness out
of us. Do you remember our Lord' $l$ Why? We are not told that he was a liar thief or murderer that he was vicious
in his habits or condemned by his neighin his habits or condemned by his neigh
bors. He lived in comfort and luxury and his body was interred with honor
Why did God condemn him? Because he was living for himself alone. Even
when a suffering neighbor was lying at When a suffering neighbor was lying at
his gate the opportunity of service wa his gate the opportunity of service was
looked upon neither as a privilege nor Christianity has si strengthened our ision that we can see the suffering
neighbor when he is many thousand mile away and we have awakened to the fac that the welfare of humanity is our business. It is an immense business for the
field is the world-but we are not to sit down helplessly and say that the task is
beyond us. If we felt as Flijah did that we stood alone in Giod's vineyard we might get discouraged; but the army of Workers is great and is steadily increasing
The work is being organized more an more so that each one of us can reach out and give real help to needy sufferer For instance yesterday I received an
appeal for the "Russian Iews' Relief Fund." Among the patrons of the Society and Canada. They point out that owing
$\qquad$
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$\qquad$
tagious. The rich man, in these days can't possibly be comfortable if he devotes
his whole attention to his own pleasures and pursuits. His conscience is stung into activity by the good deeds of his neigh bors and for very shame-if for no
higher motive-he spends some money and time for others. Is the poorer or less happy because he is caught in the great wave of helpfulness which is sweep-
ing across the world? Would he find life more enjoyable if he were permitted by conscience and public opinion to devote himself entirely to the care of Number One? I think he deserves our pity-that
poor rich man who was clothed in purple poor rich man who was clothed in purple every day missing the pleasure of showing kindness to the sick and hungry man at his gate. He let slip the real happiness of
this life as well as of that which is to come. Judas the covetous disciple gained
onthing but misery from the money he thought would be so valuable to him. gave batk he silver swiftly in despair and hanged himself. Self is a cruel god crushing happiness out of a soul devoted to its service

Still, as of old,
Man by himself is priced,
For thirty pieces Judas sold
Himself, not Christ "
It has been said that the temptation the joy of it Though there was a traitor among the apostles there was only one.
Eleven out of $t$ welve - a big proportiondevoted their lives unstintedly to the to-day and you will find many who are willingly spending time, talents, strength selfish idlers are few and far between, now, whatever they may have been
before the war. The "society woman" sees that she has a duty to society, the
"business man" acknowledges that the pressing claim of the world's need is greater than the claim of business, and soldie chidren are knitting for the The field is the world, but the Master place in the field. The result will be confusion if we rush hither and thither as we choose. Ploughing may be less sary. The farmer-"doing his bit" ${ }^{\text {to }}$ eed the world-may feel that it would Ve more exciting and splendid to win the world's praise is a the front. But the pared with the quiet "Well done" of our own us work under His direcThe foing or staying as He commands. the field is the world and we may have corners, but the work of the whole field not aid upon your shoulders. Some
are called to fight. but others "do their bit" by cooking for the soldiers, making boots for them or knitting, stockings. but there is no need to concentrate all one's energies on home duties-especiof evory when the world needs the help tevite were too intent in thest and the business to minister to a wounded stranger doing a much-needed kindness to Him not to one of the least of these not to Me." Because we are not able to he $p$ all the hungry and suffering people lown helplessly and do nothing. We can and minutes wisely, the dollars and days Hill take care of themselves. There is no
need to get worried and flustered because
the field is in such terilo present. The field is God's Kisder at hot ours. We are only called to do our
par: under His direction. How hopeless par: under His direction. How hopeless burden of saving his country were on his
$\qquad$
$\qquad$

One of the most picturesque peaks of the Rockies is to be called
Cavell in honor of Edith Cavell.
Over 109,000 women in , Great Britain are doing "men's work" in place of
men gone to the front.
$*$
The war news. of all-absorbing imp
portance at the time of going to press
por is the great Geerman attack on Verdun
a strongly fortified city almost direct
ty ly east of Paris. The drive began on
the morning of February 22, over a line of 8 miles, with a German army o tour days of fighting, according to
French report, the (jerman losses 150,000 men, killed and wounded. Germans, during that time, susceeded in taking the first fort, and claimed to
have captured 10,000 French soldiers news is definitely good. In Armenia the Rusians have taken Mush, guarded
by 40,0100 men, also Ahlat, and at last
bespor by 40,000 men, also Ahlat, and at las
despatches were on the way to Trebi Townshend, although still shut up in Kut-el-Amara, has been hhut he in from
and reports his men well and busy planting gardens, -an observation, by
the way, which recalls the fact that the way, which recalls the fact that
Kut-et-Amara is in the traditiona
vicinity of the (sarden of Eden. During the week, also, a B British sub,
marine passed through the Rardanclles, marine pased through the Nardanelles

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The Ingle Nook.
WHAT OUR READERS ARE THINKIN A few letters on the subject raised by
"Inspired Bachelor", have arrived. The
irst of these writt first of these, written by "An Interested
Bachelor," Huron Co., ()nt., begins as-
Ollows:
"To Junia,--I have been an interested reader of your paper for a number of
years and so much more since "A Bachelyears and so much more since "A Bachel-
ow. Junia, let me take my hat off to you regarding your view of a literal hel
fire. I believe the hell of popular belief to be a mere figment of the imagination,
and will try to show the destiny of the and will try to show the destiny of the
wicked according to the scriptures- that they will be put out of existence by divine judgment with attendant circumstances of shame and suffering.
"Interested Bichelor" here adds seven
pages of texts taken from the Bible to pages of texts taken from the Bible to
support his idea that "the wicked" will
at death be utterly at death be utterly annihilated. To save
space I merely indicate these. Those who are interested can look them up for
themselves: Ps. 37,$20 ;$ Ps. 37, 10 Ob. 15, 16; 2 Thess. 1, 9-10; Job 20, $5-8$;
Ps. 37, 34; Ps. 104, 35; Ps. 145, 20; 2 Peter 2, 12 ; Job 21, $30 ; 2$ Cor. 2, 15-16;
Prov. 13,$13 ;$ Rev. $21, ~$ the view that the soul is not necessarily immortal, but presumably so only for
the righteous, he quotes Gen. 2, 7; Rom. the righteous, he quotes Gen. 2, 7; Rom.
2,$7 ; 1$ Tim. 6, 15-16; $1^{-}$Cor. 15, $54-55$;

Well, I suppose it is only the old story, that if one chooses to take isolated texts
to help out in an argument, almost anything out in an argument, almost anyfrom the Bible. Among all the sects Christian) that exist to-day there is not foundation-and the odd part of it all is that most of these sects differ, as day
from night, in some of the beliefs for from night, in some of the beliefs for
which they contend. Of course, there is a difficulty, often overlooked, in pointing to isolated texts for proof, especially in the Old Testament. Many of these pronouncements, as the most profound research, historical and otherwise in regard to the subject-know, were spoken by the great among the anciente futire of their tribes- ust a immediate of to-day are now looking into the future in regard to the war-and speaking what they foresee. And, may it be remarked perhaps the very perhaps, the very men who most recog-
nize and realize the wonderfulness of the Bible as a revelation of the developmen of the eastern peoples; they are the very men who see most clearly the real in who so bravely dared to reproach the evils of their time-evils too often car ed over into ours.
For my own part, I cannot agree with Interested Bachelor's'" belief that any conomy of the universe noth. In the asted. Nothing created can ever be destroyed, although it may, it is ould the human mind the most wonder ul thing ever created, be permitted to the modernists) it seems vastly better and more reasonable to think that every stumbling or weak mind shall some day go forward, steadily and persistently,
learning even by its mistakes, until it is "good" enough to justify its having been created. If Scripture must be called in to substantiate this view, may mention, as one instance, the words of will draw all men unto me." How do you get over the "all"
Of course, you have an absolute righ mine. ANOTHER OPINION.
Junia,-1 read your answer to In hear what others, would say about it "Another Bachelor" has answered you, points. You surely do not mean what you say, and you never got your doctrine out
of the Bible, but have been reading nfidel Books and are being led away false prophets, whom the Lord sai by them. Now, there is no one who has read the Book of Revelations in the New Testament that can really believe there
is not a literal Hell. Did not John stand before Gorl, and write what he was told
o write, and did he not see with his own
$\qquad$
$\qquad$
$\qquad$


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Or is he the one who is good simply because he loves goodness and want God who is all good? is the best little of a strapping and in the hope of being given candy at the end of the day Or is he the one who, wants to be good because it is "good," and because he loves his parents? .... At the same time
those who hold to the necessity of " those who hold to the necessity of "pun-
ishment," need not be disappointed at ishment, need not be disappointed at
this presentation. There always is, and always will be, suffering, bitter suffering as a result of sin, but the punishment will be to uplift and help onward not a satisfaction to anger, nor physical torture
without end. without end.
No; I never read an infidel book in my
life. The books I mentioned in connection with this subject were written by clergyman.
Really, I don't quite see what Mr.
Griggs has to do with it. My reference Griggs has to do with it. My reference
to him was in another connection entirely, to him was in another connection entirely,
in the reply to a letter that did not in the reply to a letter that did not
touch on this hell-fire discussion at all. Edward Howard Griggs, by the way is one of the most eminent lecturer
and scholars in America to-day, and, I mistake not, is a clergyman also

> FROM "A FRIEND."

Dear Junia.- Will you permit me to say a few words in answer to your reply to you, you believe that in the future state you, you beeke on developing and becoming greater and greater through eternity. When he would be perfect, you do not say. We know mans way is thection. In Genesis we read of man's creation, a perfect being, placed in perfect sur-
roundings. We all know what happened Man, as a free-will being, fell, until in Genesis 6,6 we read: "it repented the Lord that He made man on the earth and it grieved Him at His heart. God then chose Noah, a just man, a preacher of his own family believed him. The result was the whole human family perished save Noah and his sons, his wife and their wives. Apparently they were the
only ones who believed the God of the
 well for fe
lope of beir ope of bein
of the day because $h$ he same tim sity of pun ways is, an
ter suffering punishmen
ward- not ward not
ysical tortur 1 book in my tion entirely
hat did no hat did no
ussion at al ur reply to nd becomin n's creation at happened a preache The result his wife God of
Gere

Bible. In reading further it is not long until we see man building Babel to mak themseiv thoughts."
Now, God begins again and choose Abram. In Genesis 12, 1.3, we read the blessing God promised him unconditionally. We all know the story of the Children of Israel, their redemption from Egypt by blood, Exodus 12, 13, and the the Law is given, Exodus 19, 8, "All the people answered together and said, 'Al that the Lord hath spoken we will do. In Deut. 5, 27 God's comment is given "Oh, that there was such a heart in might be well with them and with their children forever."
Now, we all know how Israel failed Now, we all know how Israel failed
and how they have been scattered among all nations. And when Christ their promised Messiah came, Jews and
Gentiles alike were consenting unto His death, they gave Him a reed for a sceptre, a crown of thorns instead of a crown of and then led Him out to Mount Calvary, and man committed the greatest crime the world has ever known when they
crucified the beloved Son of God, and then when man had done their worst God caused a veil to fall, and in that iniquity of us all.
At that time God's righteous throne was vindicated, and now the royal the Son hath everlasting life. He that believeth not the Son, shall not see life but the wrath of God abideth on him.
John 3,36 . God provided a perfect sacrifice, and all who believe are "Complete in Him," 3-4. The new birth spoken of in John 3,3 , is the very beginning of Christian
life, and we read in 1st John 3 , "It life, and not yet appear what we shall be but we know that when He shall appear, Him as He is.
We know Christ is perfect, and this
Scripture assures us -we shall be like Him-in the eternal state
come as guilty sinners, and trusted in the finished work of the Lord Jesus? (In Romans 3, 19, we are told why the law
was given, "that every mouth may be stopped and all the world become guilty the law is the knowledge of sin" By Matt 24, 41, we read who hell was God never prepared it for man, but if man refuses the salvation offered, he
must suffer the reward of his deeds. Isaiah 14, 9-10 tells us where hell is and in hell they talked and Revelation 20, 14 tells us the final abode of those in hell.
Rev. $21,-2$ tells us of the new heaven and new earth. I believe heaven and hell are more than a condition: they are
places of abode. (rod has, as you say,
eft us free-will men and women can choose either heaven or hell. "The
blood of Christ is sufficient for every sin." blood of Christ is sufficient for every sin."
Y'ou quote lst Peter 3 18-19. If you take your Bible and look a little closer dear Junia, you will see this is not an
eternal state. 2 Timothy 2,26 , "They may recover themselves out of the snare him at his will." And again Hebrews 2 15 "And deliver them who through fear of death were all their lifetime subject to
bondage." Again, in Hebrews 9, 27, "And as it is appointed unto men once to die, This is God's day of grace and He
earnestly entreats men to believe on His Son. He tells us He has no pleasure in a moath of the wicked. And if we stop very thought of foolishess is is sin."
Paul could say of himself before her


 evervan heods to be borra again.
Th... of vengeance comes ater the
dav ing and is merciflly. lengthen whe trange act, bit we know

Dear Junia, we may seek to worship
God but we must be sure we worhio God, but we must be sure we worship the
Cod of the Bible and come in hic waid Go orshe Bible and come in His way
to worship Him. He is not only a God of infnite love, but a God of infnite justice ${ }^{\text {as }}$ This.
This is a long letter, and I do not
expect you will expect you will be able, to print it , inut
I wanted to write to you dean Iunit shew you a liitle of the Coad I Iuroshio because He has saved me from hell through precious blood, that Il may
rien with Him thongh reign with Him through all eternity,
I thank you, "Friend," for the kind
The difficulty in your understanding me comes again in the fact that you take as iteral what we, who are glad to
be modernists, see as figurative-wonderful modernists, see as figurative-wonder-
ful visions and stories told by great men of old to convey great lessons. Some
years ago I heard of a man who took the years ago I heard of a man who took the
Bible so literally that, basing his opinion Bible so hiterally that, basing his opinion
on Matthew 5, 37 , he thought, quite honestly too, that every, single word "we
speak other than "yea", and " nay, " a sin. He also thought that the injunction, "Pray without ceasing," "1 Thess. 5, 19 meant that we should be "saying prayers' all the time in our minds. Now, he was on texts of Scripture, too Think as you like, "Friend." Your you, and therefore it must be quite right for you to hold to it. At the same people who became absolute atheists because literal hell-fire had been pre sented to them as the belief of the churches. Throwing that aside as unreasonable, and finding other misconceptions due to fiteratiem, they threw course, this was not the wise way; they should have investigated further to see if there might not be another "interpreta I am glad to know to-day that very
few of preachers believe in such a crucl thing as hell-fire, taken literally, and I have an idea that in a few years there will be sounding from the pulpits against this injustice to a God called a "God of Love," and there are many other voices that a little timid about starting. They will be heard one of these days.
clergy who do not believe in a literal hell, yet who simply do not in a the subject at all because they fee! that it is unimportant. This attitude, in some localities, may be all that is necessary, yet the fact remains that, here and there",
there are peop.e 'ike "Inspired Bachelor" who do question, and it is surely right hat their questionings be answered. Modern interpretation never destroys the Bible; it only restores it, to such questioners, in all its wonder, and reasonableness,
and majesty, and beauty. You say, "CGod is also just," and you are entirely right. But I cannot see how He could be just if re would condemn to endless fire, real fire, keeping them this added to the fact that during the carth-life of these erring ones other men had already, in all probability, meted out to them what was then considered I am not touching, you see, upon any part of your letter except the one portion which deals with the question we are
discussing. I) reference to your last paragraph, One you find-but I see Him differently -that is all. Thanks again for your
evident kindness. Believe just as you can. We must be absolutely honest,
even with ourselves, and so long as we Several letters on the subjects set for
iscussion have been crowded out, but seasonable recipes. (trRIED Con)- I wo shices con,


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samples, write us and we will send you, Postpaid, our THIS BIG BOOK FREE $\quad \begin{aligned} & \text { large sample book free. } \\ & \text { Newest designs and won }\end{aligned}$ This Big Book simplifes Newest designs and won-
derful values.


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RENNIE'S FIRE NOTICE SEEDS
have desire to advise our many customers that although we we suffered a very large loss in Sunday s (February 20th) fire, and othe sufficient stocks stored at our warehouse at Long Bran plete and to take care of the coming season's trade. We commenced shipping on the 21 st at noon and orders will be handled

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then stir the curry powder into the cream and add. Put in the other seasonSAlmon en Casserole.- Cook 1 cup rice. When cooked put part of it into a baking dish. Take 1 can salmon and flake; beat 2 eggs, $1 / 3$ cup milk, 1 table spoon butter, pinch of salt, dash or
cavenne. Stir into the salmon, cover lightly with rice and steam 1 hour. Serve with white sauce.
HoNEY
PUDIN cup honey and 6 ounces bread crumb tablespoons butter, rind of half a lemon grated, and whites of 2 eggs, well beaten: Steam about 2 hours in a pudding mould up the mould
up theor Man's Puddinj,-1 cup milk, 1 cup treacle, 1 cup chopped dates, 1 cup
suep, 1 teaspoon salt, 1 teaspoon , (level) suet, 1 teaspoon salt, 1 teaspoon devel),
of soda, 3 cups flour, 1 teaspoon each of soda, 3 cups hlour, 1 teaspoon each of
cinnamon and allspice. Add the milk to dry ingredients after they are well mixed. Boil or steam 6 hours, Goud Mear hash--Mix together $11 / 2$ cups ${ }_{\text {cood }}$ meat 3 tablespoons choppe meat stock, 1 small chopped onion, level teaspoon salt, $1 / 4$ teaspoon pepper a pan, addd the hash and cover a pan, afd the hash and cover. br
slowly until brown: then turn and brow the other side, Serve very hot on a hot plater. ${ }_{1}^{1} 1 / 2$ cups cooked diced beef fe and ad $11 / 2$ cups cooked diced beet Simnt
gently. Remove enoush of the cente
of 4 . Of or hiscuits to make prod-sizel cun. When done, place on a hot photere, bit

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OUK "8, vod BEAVER4,


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of your schoolgirl days
Are things of the long a,o;
But life and love will soon come by
There ! little girl; don't cry ! They have broken your heart, I know And the rainbow gleana
Are things of the long ago
But heaven holds all for which you slgb There : little girl; don't cry !

## Funnies.

A schoolboy home for the holidays,
wishing to ingpire his little brother with wishing to inspire his little brother with
awe for his learning, po nted to a sta and said, "Do you see that small lumi nary '? It's blgger than this wide world." "No, 'ta nt!"' sad the brother
"Yes, it is," said the youthful scholar 'Yes, it is," said the youthful scholar rain off?" was the triumphant query of the younger boy. $\qquad$
Father (trying to give the conceale dose)-"Well, well, you are a funny boy
May I ask why this sudden extraordlhary dislike for jam?" don Sketch.

## Skeeing.

Not long ago directions for making
skees were given in this department How many of the boys have tried
them? When walking on skees, one does not lift the skees at all; one merely
rests the weight of the body on one foo while the otier is shutled ahead. II
get
going up going up a hill it is necessary to "tack,"
all the time, zig-zacging back and forth all the time, zig-zagging back and forth
until the top is reaclied; or else one mas go straight up, putting each skee at a i. n le of 45 degrees from the point of the one supporting the weight. Goin
up hill on shces is not easy, but coming down is great fun. Often one can coast all the "ay down, keeping he shar back on the ascent, thin quickly forward for the descent again;
likely to take a tumble.

Senior Beavers' Letter Box Dear Puck and Beavers,-For quite ${ }^{\text {s }}$
lony time I have been enjoying the interesting letters written for our valuable Paver, The Farwers Advocate," and a last L have summoned up courage the w-o b 1 am going to school; ain in the Senior Fourth Class. I would love to study and be able to teach some day, as I have a sister teaching who
likes it very well. And now this being likes it very And now, this being conclude, wishing all success. Beachgrove, Que $\qquad$
Dear Puck and Beavers,-As my fatio has taken "The Farmer's Ad ocate" for several years, I have, within the lass couple of years betories written by the in the lettery and stories writen by the
Beavers. $\quad 1$ have thought of writ $n$ ns eve Beavers. Thave thought know whether 1
eral times, but did not knoter
 all like her very much. I think to
stury of "Biack Beauty" is a nice stor Well, 1 , whess 1 will close hoping to see mid letter
ridde.
din.
Why dues a moon never get rich ? Ans.- - Because it spends all its quart
in g.ting full .
ELSIE ROOGERS. Sew lowell, (Age

Dear Puck and Beavers,-This 19 my
first letter to your Circle
Father has
 Meda. who is teaching nave matter cea.
$\qquad$ Institute. I am taking a teaclere
course, and like it fine. I amm very
 Rooks." also "A Gir of the
lost." "The Silver Maple," "The sh
herd of the Hills." "The Patrol of
sundance Trail". and many others


March 2, 1916
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for $\$ 100$ less than any first-class The Sherlock-Manning Piano Co. London, Canada
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$\left\lvert\, \begin{aligned} & \text { hope to read "Torchy" some time. As } \\ & \text { my letter is pretty leng, I think } \\ & \text { coser will } \\ & \text { close, wishing the } \\ & \text { success. }\end{aligned}\right.$ success. $\underset{\text { (Age }}{\mathrm{Hel}}$ P. S.-I would like some of the Beavers The Beaver Circle Story Competition. Subject:-Write a story bringing in
an olid man, two children, a dog, and
a gipsy camp
At late all the stories sent in about
this subject have been examined, and this subject have been examined, and
the first prize this time has gone away the first priz
to England The prize list is as follows:
1st. Lucy Harwood, Lees Rest, Charltoury, Oxlord, England.
2nd. Helen E. Jardine, R. R. 2,
Camlachie. Ont. Camachie, Ont. Charlotte Carmichael, Iderton, Ont.; Helen Gardiner, Kings
ton, Ont.; Miriam Johnson, Bradford
 Ont.; John C. McIntyre, R, 3, Chesley
Ont.; Georgina Rutherford, R. 2, Clarks Ont.; Georgina Rutherora, R. Mates
burg, Ont.; Mary Shant, R. 1 , Water
loo, Ont.: Maye Fitzpatrick, Wexford Ont.; Clifford Nauman, R.
Special prizes will be given to tw
very little pirls, (age 8), who wrot very intel Rirls, age
very good litle stives Mollio wrote Red
away up at the Abitili, Crossing, Nev away up a
Ontario, an
han, ont. The Honor Roll (those who did very
well but did not win prizes) is as fol lows: Thomas Knott, Mabel Sollitt, Clara
 Joyce Douglas, Rotert Ripley, Haze
Stirtzinger, Mary OLeary, Alex. Smith, Stirtzinger, Mary OLeary, Alex. Smith
Reva Skippen, Mabel Bown, Bernice
Clay ton, Nina Srigley, Lonida Baunnan
Ler Evay Atkinson, Clara Canfield, Irving
Leney, Viola Reid, Lauretta Reid, Georg Fyfe, Hilda Johnson, Grace McDonald
Hazed Hazel Yealland, Gladys Prong, lea
Rennie, Violet Mazerall, Mary Flood Ee. M. Curat, Cora M Mclntyre, Catherin
McDonald, L.ila McIntyre, Faye Ban croft, Mary Jeffey, Vivian 'Purce, Dori Reid, Watford Beaver who forgot
sign, namer Mildred Horgins, Rev
Phelps, Myrtle Simpson, Mary Steele
 Taynbee Lamb, Helen MacRae,
Farley, Dorothy Farley, EDna Buck ingham, Zella Connolly, Ma Tarner
Lilian Holtzhauer, Russell Pawley, Graem
, Kirstine. Three Beavers made a mistake
Maude Civalier and Mary Brodlager wrote only, about a dog, while another
who who gave neither name nor post office
wrote four stories, one on on a dog, another on "an old man," etc.
It is interesting to note that storic came from Prince Edward Island, Nova
Scotia, New Brunswick, and Quebec Scotia, New Brunswick, and Quebec
although the greater number were writ ten by Ontario Beavers.
As many stories as possible will published. To-day there is space for but one.
First Prize Story -"That Picnic Party."
by lucy harwood, lees rest, charl-
bcry, oxpord, esci
"Oh dear!" Tommy sat up in bed and rublear his eyess, then out he jumped
and began to dress very quickly. To and began to dress very quickly.
day if it was fine grandpa would take sum and
spend the day filling, and best of at
to have a pienic afterwards riglit 11 ,


## his grandfather who was waiting for the freakfast to be brought in.


 "Hurrah, hurrah," yelled Tommy,
dancing about on the tips of his toes,
and may we walk across the meadows and carry all
real gipsies?"


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$\qquad$
"Perhaps you would like to pay
isit to the gipsies themselves," sug. visit to the gipsies theriselves," sug
gested grandda mischievously
"Oh, may we, grandpa? asked Betty
as ho chatercd the breakfast-troom" and

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| For any further particulars address <br> ANDREW McKAY, <br> D. McLACHLAN, Woodville. 520 Carlan St., Toronto |
|  <br>  <br>  <br>  thereafter without int rest. The hikhest or any tonler not in essitrily accept'd. |
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$$
\left\lvert\, \begin{aligned}
& \text { it } \\
& \text { the }
\end{aligned}\right.
$$ the gipsies ween for him, for although

got they had not meo ohome with, they told mey that thein
donkense tren
 torial Cross." H " he does, assented Tommy, "I Il make him one out of a penny. forget that pienic party.

What To Do for Burns and Scalds.

 underying tissue, they should be looked
atter by a physician.
$\qquad$ a burn or a scall is tor keep it aing air
ithht. The value of this simple prect tion carnot be overestimated. In cases
of more severe wounds, exposure is sis
lankerous that Therefore trat it otten risilis tatally use by mears of nhatever remedy you pever the wound, andy cover this cloth
with cotton wadding, if neciss ryy, the
ceep outt the


 It any lotoning sumers she wound,
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March 2, 1916
This is one of the best remedies, 2. A solution of water and as muct oaking-soda as the water whe soak up. (Especially helpful for scalds.) 8. Some oily substanco salat, oivt or vaseline. Carbolated vaseline is sespecially good. 4. The white of an egg. (This is very cool and soothing and stops pain quick5. If nune of the above substances are bandy, dust the wound with flour ; in earth, Ireferably clay, and cover the part to keep it air-tight. acid burns.
teid burns are caused by actid sub acid, etc. burn with water and washing it with a olution of washing or baking-8oda and
water, alter which treat it by the means described above.
adikali burns
Alkali burns, which are caused by
nustic potash, caustic soda stro Caustic potash, caustic soda, stron
ammonia, etc., are first drenched with anter and then washed with vinegar or dilute acid before they are treated like other burns
clothing on Fire. Force a person whose clothing is o down, if necessary-qo check the progress of the flames. A burning pror
onn's impulse is to run thto the coll to escifipe the heat of the fire, a fact which only aggravates the flames by fan-
aing them.
Stop him immediately and aing them. Stop him immediately and the flames quickly in a coat, shawl, rug
or blanket-anything that will keep the air from the flames and prevent them crom climbing up toward the ta hy thick material will do. The matn be done must be done quickly. Then end for a physician. Cuts or open wounds, especially is they penetrato far underneath the 8 kin, can
be very dangerous unless they od at once. Where instant care necessary, the following method will be First: Stop the bleading as far as possible, especially if the cut is a deep
one. If it is one which reaches a blood ressel, summon a physician at once, be cause
death.
oright red ced blood which areognized by the The regular means of stopping the flow - tourniquet. ${ }^{\text {To }}$ To make one in case of an emergency, roll up a handkerchef or
atout piece of cloth:
knot ends and slip the loop over the limb the bandage and Parn a stick beneath the limb with each twist pressure on intil the flow of il.o... s controlled.
2. Vein cuts dark, blackish red in colood which dow can be lessened by pressing the in this case, as in the one above, But thg until bleeding otops $\begin{aligned} & \text { on } \\ & \text { do noth- }\end{aligned}$ 3. Slight cuts will stop bleeding it
put into hot or cold water; often, too aow pressure of the dressing will ston the Second: Cleanse the wound from dirt
oits of glass, stone, etc., by washing it with one of the following:

1. Clean water, in which a tablespoonful of salt has been dissolved to -very pht of water.
2. Iodine, which acte as a healing
ceniedy as well as a disinfectant, and is rusty ninl, itc
$\qquad$
$\qquad$
$\qquad$

## - $-\quad=$

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(ix) with in Renkstire pigs dom

## Questions and Answers.

Questions and Ans
Miscellaneous.
 by Stevens and Hall, $\$ 2.10$; Insects
Injurious to Fruits, by Saunders, $\$ 2.15$;
Insects to Insects $\begin{aligned} & \text { Injurious, } \\ & \text { Chittenden, } \\ & \$ 1.50 .\end{aligned}$

Seed Per Acre-Green Feed.

1. What is the right amount of to sow per acre of the the follount of seed
Oats, carrots, sugar foets, turnips, Oats, carrots, sugar beets, turnips
corn for s.lo sown in hhils and in row
3 feet apart, potatoes timothy and
red clover sown with, oats hy
rer hay red clover sown with oatsothy and
ray,
oats, vethes and clover sown for green
feed, red clover sown with oats to to plow under for green manure; the land
is heavy clay?
h. What would you advise me to sow on heavy clay land in order to
have green feed for milch cow before
pasture gets low and dry? Ans.- The amount of seed to sow
per acre depends somewhat on the fer
tility of the land, condition of seed bed per acre depends somewhat on the fer
tility of the land, condition of sed bed,
size of sed stooling qualities of dif-
ferent varied


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It is guaranteed for 5 all 10 asts longer This according is backed by the biggest roofing concern in the world, and is as dependable as CERTAIN-TEED itself CER-TAIN-TEED is very dil.
cheap roofing sold by mail.
Cheap robin-ted from your local dealer, whom
aet Certain
you lnow and can rely upon it will save yoo you know and can rely upon It will save you
moun in he end Cortain teed is Bold by yoo
mealers all over Canada, at reasonable priceo., General Roofing Mfg. Co. World's Largest Manufacturers of Roofing and Building Papers.
Diotributing contors: Toronto, Montreal Diotributing contorss. Toronto, Montreal
Ottawa, Halifax, St. John's, N. F., Winnipẹg
Regina, Calgary, Vancouver. HUNT'S 4.MOU
 FLOUR

Established 1854

The flour of three generations the flour that has made the same
delicious and tempting bread and pastry for 60 years. You shou
use it-it is "always the same use it-it is "always the same." 1.074

FURS-HIDES-WOOL


## RAW FURS

Highest cash price paid for raw furs. Old-
est in trade. Write for prlce list and tag! FREE.
O.A.C. 72 Oats

1000 bru, good clean oat , grown fron
prize - winning seed on clean
Write for samples
W. R. DOUGALL, Hensall, P.O., Ont

Don't Buy Seed Corn
$\qquad$

$\qquad$
 iness men and business farmers alike agree on the material that it
weatherproof, decayproof, frostproof,verminproof and fireproof. Such is the Natco Imperishable Silo
A perfect silage preserver, when the mercury is low, or summer pas
turers wither. Itts salt rlazed hollow vitrified dlay tile are impervioust


 of Canada, Limited 1202 Dominion Bank Building


Questions and Answers. Veterinary. Nail Puncture Mare had foot puncture.d by a nail
I pulled the nail out and it bled freely
and she see and she seemed all right for a couple
days, but now has gone lame again
There is notho days, but now has gone lame again
There is nothing to be seen, How
should she be treated, and is there any shound she
danger of Ans. - The sole of the foot at the
seat of puncture must be pared right
down to the sensitive parts to allow
the escanpe of the escape of pus that has formed. A A
free opening must be made for escape
of pus. of pus. Then fill the opening with 1
part iodoform acii and 3 parts boracic
acid, and put ac cloth on to keep the
dressing in and dith dressing in and dirt out. Clean out
and on on fresh dressing three timues
daily until the lameness disappears daily until the lameness disappears
and the opening closes Some apply
poultices poultices, but we favor the dry dressing.
There is danger of lock jaw. It would
be good practice to get your veterinbe good practice to get your veterin
arian to inject her with an immunativ
dose of anti-tetanic serum. Partial Paralysis.

> Last summer a colt got down in a plowed field, and could not rise. I sent plowed field, and could not rise. I sent
for my veterinarian, and we got her to
the barn, and he treated her. I had the barn, and he treated her. I had
to assist her to rise for a long time.
She can now rise without assistance, She can now rise without assistance,
but I am afraid to let her out for fear
she will fall. Do ever get right?
Ans. - No doubt your $\sum$. J. Ans-No doubt your veterinaria
did all that could be done for her. H
opinion as to probable recovery shold be more valuable than ours. The prospect of recovery, of course, depends
upon the nature and severity of the cause of paralysis. The fact that she
can now rise without help, indicate can now rise without help, indicates
that there is at least a probability of continued improvement. It is doubt-
ful whether medical treatment will ful whether medical treatment will
help, but we would advise keeping her help, but we would abvise keeping her
quiet in a comfortable box stall, feed-
ing on laxative, easily digested food, and giving her 1 dram nux vomica three times daily until the grass is fit to
turn her out on pasture, then turning turn her out on pasture, then turning
her out where she will not be interfered with by other horses or other stock,
and give her a chance for a few months.
If If no improvement is noticed by fall,
it is not probable that she will recover. $V$.

## Miscellaneous Drawing Up a Lease.



Rape Seed Per Acre-Flax With
Grain-Top dressing After Grain 1. Which is is upefered by majority
hair, or a light, fine coat?
2. How much rape seed per acre
should be sown with grain?
3
thing to sow with grain?
4. Is it a good plan to spread manure
ightly with a spreader after the grain
is sown, and perhaps up through the
5. When stubble is to be plowed
in springe. is it thest to plow it shallow
or deep)?


 Will for 35 c .
 is made it cannot be broken. It is private. Don"
delay. Do it now. Sold by druggista and station. ers, 35c., or by mall (3 for \$1) to:
BAX WILL FORM CO. Great Shorthorn Bull


 George Ferguson, Salem, Ont.
21 Barley and 72 Oats

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John EIder \& Sons, Hensall, Ont. Seed Corn Wis. No. 7


 NONE-SUCH SEED CORN













Fanning Mills-Smut and Pickling Machines-Vacuum Washing MachinesLincoln Grinders-Lincoln Saws-Incubators-Universal Hoists-Automatic Cream Separators-Champion Cream Separators-Portable Grain Elevators-
Wagner Ilardware Speciallies - Mountaineer and Lillle Giant Neck Yoke Centers. Foot of George Sistreet
Foot of George Street
TORONTO
143 York Street
LONDON, ONT.


## CANADIAN PACITIC

For WINNIPEG and VANCOUVER LEAVE TORONTO 6.40 P.M

Questions and Answors Miscellaneous

Yeast Treatment for Barren Cow I have a cow I would very much like ast year. Although she has been bred several time
reat ment?

## reat ment? Ans.-The


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## Swollen Sheath

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$\qquad$ sheath. Remove any hard secretions
then wash the inside of sheath thorough then wash the inside of sheath thorough
ly with castile son and warm water
and tion of cartolic acid, after which sweet
oil may be used. The watery, sore may have been caused by the animal
system being a little out of condition Morse's shoulders should be close

## watces mences, to prevent scalding.

Thumps-Ringbones


Makes Hens Pay, Makes Them Lay!
 extra egg per hen per month.
The gain from feeding Ovatum Very often, especially in winter,
Ovatum will stat duction from a floc
been laying at all.
$\qquad$ digestion and the reproductive
orfans, so that the hens get more
oroos out of their feed, and turn more It will certainly pay you to feed Qvatum. Get it from your deater
in 25 c. and 50 c. packages or 10.1 I.
bass. If he hasn't it, write us us fors. prices on OVatum, Ontario eeeders'
Cotton Seed Meal, Sac-a-Fat, Pig Meal and Calf Meal.
GARDINER BROS.
Feed Specialists, SARNIA. Ont.
CREAM

## WANTED

We think we have the longest
Le try to give the best service. The need your cream and will
make it "worth your while", to particulars, A card brings
Toronto Creamery Co., Ltd. TORONTO

## CREAM <br> Where are you shipping now? And what are you getting for your cream? ers and more men to gather cream <br> Write lor our propositio <br> Silverwoods Limited

CREAM
 TIIE BERLIN CREAMERY CO.

Sarnia Creamery mits wpekly
Highest Price.

Bramt Creamer

## 

$\mathbf{N}^{\mathrm{O}}$ matter how fiercely bleak winter rages, this house is bound to be comfortable, because the plans cell for Gurney-Oxford Hot Water Heating.
This is the comfort-vielding, blizzard-defying warmth that fills the whole This is the comfort-yielding, blizzard-defying warminth that fills the whole house with a "homey" June-like atmiosphere-healthful because the moisture is

Gurney-Oxford Hot Water Heating
 to every room, hall-way or corner. Just one fire is needed-
in the Ioiler-and it sends the water circulating constantly
through all the piping and radiators.

 HOW ABOUT THE COST?
$\qquad$ Water Boiler
$\qquad$

| equipped, new or old. For a honse like the plans shown here with biti foet of radiation, the cost fur Gurney-()xford Boiler, pipes, radiators, valves, fittings, cte., will be s3.0.(11) F:O. 13 . Toronto, hought of any competent fitter. I, abor and freight will be molerate extras. <br> The wonderful comfort, the method of operation and installation of the (Gurney-()xford Hot Water System are fully explained and illustrated in our new book let "City Comfort fur Conntry Homes," which also shows letters and photos from many s.atisfied users. The book is free, you should have a copy to-day and make up your mind that your home is going to be |
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Dept. 23 476-534 King Street West, Toronto

Also at Montreal, Hamilton, Winnipeg, Calgary, Edmonton, Vancouver

| A Plan for Peace After the War. <br> Following a Plea to the People of Canada to consider steps which should be taken toward permanent peace at the conclusion of the present conflict, the Society of Friends at Coldstream, Ontario have again set forth the following plans for world-wide peace: <br> "Seeing that all past plans have proved unavailing in establishing peace in the world, it behooves 'The Powers,' at the conclusion of the present struggle, to unite in some sort of international federation that shall bind all the nations into a lasting peace. The world is fully ripe and ready for it. <br> "The recently popular idea that peace can be maintained only - by being prepared for war,' has been suddenly exploded. The intrigue of armament manufacturers in inciting nation against nation for selfish ends is all too patent. The absolute power of one ambitious monarch, with arms and the men at his bid, is constantly a menace to the rest of the world. <br> "Any scheme to be adequate and successful must strike at these defects and menater and advise the following, to take effert and be applied, as a part of the stipulations in the readjustment of international relations "the "con lasion of the present war. "There thatl be: <br> system of arbitra"2nd. An international force for police purpose $=$ matrinuted to by all nations. each nution of the manufacture of all articles $1: 4$ maty be used in any way for such :4 fitheres. <br> armament of all nations. ambas. Wart of the duties of all of any hove stipulations occur, and are to such violation they when ir home governments, ternati trate which shall arbithe is still pass judgment upon tion. If the violation in, as a final resort, |
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## Sydney Basic Slag

Costs the farmer $\$ 20$ per ton


The Cross Fertilizer Co., Limited
Sydney, Nova Scotia
said nation shall be penalized by with-
drawing from it all trade on the part of the rest of the world, but in othe
respects friendly relations are to be respects
maintained.
"We trust and pray that sufficient pressure may be brought to bear upon
the authorities of all nations that such a consolidated international body suball
be formed. and laws provided for its be formed, and laws provided for its
guidance that slall speedily insure a lasting peace.
In the meantime, and ${ }^{-i n}$ earness
of our desires, let all peace lovers strive of our desires, let all peace lovers strive
to herk and mitigate as lar as possi-
ble the disastrous feeling or litterness and hatred that is being intensified
between the warring been tet ween the warring peoples, and thus
prepare them sooner for the new regime of universal brotherhood."

Questions and Answers Miscellaneous.
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## Results of Good Seeds

During the past three years the Com
mission of Conservation has conducted mission of Conservation has conducted
illustration work on a number of farm? illustration work on a number of farm, in Canada. The question of good seed
and seed selection has received particulal attention. From the reports of 23 of th farmers who have been doing illustration Work in the five Eastern Provinces
valuable facts have been secured.
valuable facts have been secured.
Sixteen of the men stated that they ha not previously been sowing the varietie and strains of grain on their farms to give
leest results and eiphteen say they arr best results and eighteen say they are
now sowing varieties which are more now sowing varieties which are more
suitable to them and their neighborhood Only three claim to have been sowing the Commission, while now every ma is sowing selected or registered seed and
states that it pays him in ligrer and bette crops. All of the men say that cood seed has become something of much greater importance to them than previously
This is something which cannot fail to hats is something which cannot farl to
have lasting and far-reaching results in The following are extracts from the letters received from the farmers them

Worthy of your money-worthy of the name Cockshutt-finest kind of investment No matter what your experience with other manure All levers are easy to work and right spreaders has been-prepare for a pleasant shock when you learn about the Cockshutt.
Because we know how necessary good fertilizing is, because we know from investigation how many thousands of doHars are wasted through hap-hazard methods of manure spreading, we have never been satisfied until our experts turned out a Spreader that we could put the Cockshutt name on and sell to you as a real, perfect spreader. Here it is-the picture above does it very scanty justice. Learn more about
There is all the difference in the world between having a load of mal ure pitch-forked in lumps and chunks on to the ground and having it pu! verized and spead over the field like a blanket. The first way means
waste-waste of time, work, fertilizer and crop. The second way is the waste- waste of
Cockshutt way

The Corkshutt Manure Sireader has chain drive-the strongest made
Here is an implement that will very soon pay for itself on any farm. W ite to-day to our nearest branch or head office for illustrated folder on the Cockshutt Manure Spreader
COCKSHUTT PLOW CO. Sold in Eastern Ontario, The FROST \& WOOD CO

> K

BRANTEORD, ONT
Montreal, Smith's Falls, St. John

Smoothly and quickly the PAGE engine cleans up the farm work


Note These Prices

 Limitied.

All levers are easy to work and right
at driver's hand Has the famous Cockshutt liyht-draft, yet it will give
a lifetime of hard work over rough or frozen ground. Bottom of box is stationary, no clogsing or breaking
of lats or rollers. The emptying of slat or rollers. The emptying
gear -heavy steel angles held together gear-heavy steel angles held togethe
by endless chains-is simple yet posi tive and cannot get out of order. Extra to the usual spike-studded di-tributing cylinders at box end,
the Cock hatit has a special Distributor which breaks up even hard lumps and gives a wide distribution as well Box is low, only 41 inches from ground, yet with 17 inchez clearance underneath. Makes the heavy work of loading casyakes the heavy work Nelson Peterson (Kingsville, Ont.) Three years ago 1 thought I was sowing
good sced; now I find it pays to sow the best that can be had.
George R. Barrie (Galt, Ont): "As te
Indian corn-it is cheaper to pay $\$ 10.00$ per bushel for kiln-dried corn than to sow the shelled corn that is sold in the stores. Two acres sown with selected
corn purchased on the cob, costing 82.50 to $\$ 3.00$ per bushel, gave almost twice a much weight of slage as two acres sown
with shelled corn in sacks and costins about $\$ 1.50$ per bushel." ${ }^{2}$.) "We have W. T. Hands (Perth, Ont.): "We hav
not changed varieties of seed, but we art not changed varieties of seeditice seed
now sowing nothing but registered s.t. it pays. Last spring we sold about 400 bushels of oats at $\$ 1.25$ per bushel and 200 bushels of barley at $\$ 1.00$ and $\$ 1.2$ per bushel.'
Whittiker
W "The tests with corn have proven to tu that it is cheapest to buy the best seed corn possible;, it matters not what the price may be." Keith (Corn Hill, N. B.)
Chester $H$. I am now sowing the best of seed,
whereas I used to sow seed of inferio quality. This is one way the Commission of Conservation has helped, not only me
but a number of neighbors, in obtainins gooed seed grain." (Antizonish, N. S.): "We have been sowing selected seed for the past cipht or ten years: on the average.
our yields have been a full 50 per cent sur yied ha have been a wefore."
greater than they were be

Notice to Stallion Owners The inspection of stallions, under
the Ontario Stallion Enrolneve Act will commence March 23rd, 1916. Stal spected in the fall of 1914 do not re quire to be inspected at this time.
thut all other horses inspected pre
vit vious to the the years old, must be in
not then eight
tiontect in order to be enrolled for 19.ti. Appliation should be made a!
onlece to the Siecretary of the Ontario Sallion Enroment Board, R. W. W.
I, arliament Buildings, Toronto.
11.1 Nctoonell and Son, Port Burwell Whmuger of the Lake View Fruit Farm
Whoce advertivement appears in another colum, have issued an atraccive cata
Womue duecribing varicties of struwbern) and of her small fruit plants, which they
have for sate. Becides the deccription of
varimtis, the catalowe deals with cultura) Darienties, the cataloguc deals with cultura'
methouls for sull fruits.

In another column of this issue in
cut of " (hear," a two-vear-old Hackne




Questions and Answers. Miscellaneous.

Plank for Horse Stalls. How many feet of hemlock plank will
it take for two horse stalls \& feet long
nd 6 feet wide?
A. F. W Ans.- One hundred and ninety-tw
board feet or tweeve twoinch plank on
foot wide and eight feet long Holidays for Hired Man What
man? Ans-Mew Year's Iay, (iood Friday
Easter Monda, Empire Day, Dominion
Day, Labor Day, Thank iving Day
Christmas Day, and any other day days set apart by official procl
as holidays.


We have found a way to bring you more dollars without increased expense. We call this new profit "velvet," because it comes so easily. Our new book, "Velvet for Dairymen" tells all about it.

Your separator is losing cream, no matter what the make. A famous experiment station says, "The use of the gravity can, a low speed of the separator, and an excessive rate of inflow cause heavy loss in butter fat." They have proven that $95 \%$ of all farm separators are turned below regulation speed. When the speed slackens, a lot of the cream escapes with the skim milk-and with the cream goes the profit.

The annual loss from imperfect separation is $\$ 47$ on the average farm and upon many farms it is $\$ 100$ and more. That's the tax you pay because you can't turn your separator at just the right speed all the time. But with

## THE NEW <br> SHARPLES SUCTION FEED

Separator you get all the cream at any speed.
A wonderfully simple invention enables the bowl to drink in just the right quantity of milk to insure the closest possible skimming. You may turn slow and make the work easy or you may turn fast and get hrough quicker. You simply wont. Youget smooth cream of an even grade whatever the speed of the separator. Uniform cream makes
fancy butter that brings top prices.

The supply can is only kneeempty heavy milk cans.

The new machine has all the features that have made the many other new vital and exclusive features found in no other separator.

Send now for our new book, "Velvet for Dairymen," and learn how to secure this new dairy profit.
The Sharples Separator Co.


Toronto - - -



Questions and Answers. Miecellaneous.

## White'Scours.

1) Why" should a calf that has been fed whol
scours?
2. Is white scours con
is the treatment.

Ans.- The age of the calf is not stated
It is believed that the germ supposed to cause the trouble may enter the system
through the navel any time before the navel is completely healed if for any
reason the navel did not heal, the call would be subject to infection if the germs of the disease were in the stable.
2. The disease is believed to be contagious. Cause and treat ment of whit
scours are discussed in an article (Com mon Ailments of Calves) found in anothe
column of this issue column of this issue,
Thumps-Outlet-Binder on Shares the pigs thrived well until they were three weeks old; then it seemed difficult or eir nostrils appeared to be closing up,
their
and we stated At first we dropped three or four drop; seem to do much good: then we used
turpentine and sweet to three parts of turpentine. When we were nine pigs left, , our have died since,
but the remaining five are now seve weeks old and are doing well. The son
and pigs were in a warm but well lated box-stall; the sow was fed oats
barley and cor che barley and corn chop, with roots, skin)
milk and dish water. We have raised rie. like experience before. Please state the trouble and also if the right_ treatment
was used. 2. We have a piece- of new iand which we intend sowing to fall wheat next fall.
There are a number of low places in the
feld outlet is on to the road. Can we compel the Council to put a tile drain along the
side of the road or only an open ditch? We prefer a tile drain. Will the Council
bear all of the expense for the outlet on If so, what' would be our share? binder. When the binder was purchased the agreement was made that neither A
nor $B$ would do any cutting for others. If A rented his farm, could he let the man
who rented it have the use of his of the binder without first consutling B? binder without first consulting B wh is willing to purchase A's share? As' there
is no written agreement could B stop A rom cutting for those not having any
share in binder? Ans.-We are inclined to think that trouble usually attacks the pigs that
appear to be doing the bect by liberal feeding with insufficient exer-
cise, which causes fat to accumulate about the heart and lungs, hindering th
free circulation of blood and resulting in concerction. We doubt if your treat ment
could give results if the diseace exercise is the treatning and plenty of
Two tecommended. pending on the size of of the pom salts, de-
given each be
pig and rectal injectiy The ration fed the sow was a lit liteable too
Theating. Shors is belicved to be prefer
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## Little Things Count

Even in a match you should Consider the "LittleThings"the wood-the compositionthe strikerbility-the flame

## Eddy's Matches

Are made of strong, dry pine stems, with a secret perfected composition that guarantees five years of knowing howthat's the reason!

All Eddy Products Are Dependable ProductsAlways.

## Sow <br> Simmers S

Established 1856 Flowers and Vegetables
is offered and illustratwith full cultural instructions. Sent free on
request. Write for
J. A. SIMMERS, Limited
4.

MAIL CONTRACT

 Printed notioes containing further informatios
to conditions of proposed Contract may be eeee nd blank forms of Tronder may be obtained at the the offce of the Poost Office Inspector, Londo
Post Office Department. Canada. Mail Servic Branch, Ottawa. 4th February, 1916.
G. C ANDERSON Surering


COTTON SEED MEAL
IT 41 to 48 per cent. Proteln
Crampsey \& Kelly $\left.\begin{gathered}\text { Dovercourt } \\ \text { Road }\end{gathered} \right\rvert\,$ Toronto
Mention The Advocate
in Ontario and Manitoba, inscribed with our Stallion Exchange Bureau and ranging in price from $\$ 250.00$ to $\$ 1,000.00$-All breeds, Canadian and Imported. Full list

If your stallion is for sale, send for special blank form to be filled and returned to us, and on receipt we shall be pleased to list him. Our services are entirely"free to both sellers and purchasers.

## THE GENERAL ANIMALS INSURANCE COMPANY OF CANADA Head Office: Power Building, Montreal, Canada

This Company issues also policies covering loss of Horses and Cattle by death through accident or disease. Full particulars on request.

## WE HAVE AN OPENING FOR AN <br> Agency Manager <br> FOR TERRITORY IN ONTARIO

To a man who can write personal business and appoint and train agents, we will give a contract, calling for a salary, expenses, and first year and renewal commission. A man who works for us five years has an income for fourteen years. Address in confidence
The Northern Life Assurance Co.
s. c. TwEED, Superintendent of Agencies LONDON, ONTARIO


1915 Graham Bros'. Champion Stud 1916
 dale clasese, the grand champion, semior chatmpion, junior champion, reserve
grand champion, reserve senior chamion, reserve junior cham
 the best stallion and two mares. we had we offer a great lot of big, young stalions and mares, imported and Canadian-bred, of the above breeds, the very best to be found in Canada, and at very reasonal

Claremont, Ont.
$\qquad$



J. E. ARNOLD

GRENVILLE, QUE.




| \%oa Ton | CLYDESDALES Im |  |
| :---: | :---: | :---: |


Clydesdale Stallions and Mares We are now offering for sale

 Onill IMP. CLYDESDALES IMP. Unsurpasped


Questions and Answers. Miscellaneous.

Will you kindly $\begin{aligned} & \text { Succen Duties. }\end{aligned}$ Will you kindly print in your valuable
paper. The Succession Duty Act? Ontario. The Act, including amend. C.
Ans.-
is about twenty-eight pages long. It is
contained went
Ont contained in the Revised Statutes of
Ontario, 1914 , Chapter 24 and Amending
Acts Che Acts, Chap, 10, Statutes of 1914 and
Chap. 7 Statutes of 1915. It provides flop. payment of duties to the Provincial
Treasurer on Estates of deceased persons, subject to certain exemptions and gradu-
ated according to amount of estate,
atal relationship of beneficiaries to the de-
ceased, and other ciicumstances.
rate
The rate varies from one per cent. to 20.
There is no duty leviable on any estate the net value of which is not over $\$ 5,000$.
Generally speaking, where the value Generally speaking, where the value of
the property passing to one person the property passing to one person does
not exceed $\$ 300$, there is no duty. Nor
is there any duty chargeable on property is there any or devised for religious
bequeathed
charitable, or educational purposes to chatitable, or educational purposes t
be carried out in Ontario. If the estat
does not exceed $\$ 25000$ and pases does not exceed $\$ 25,000$ and passes to
wife, husband, child, son-in-law, daughter in-law, lather, mother, grandfather, of
grandmother, of the deceased, no duty eviable. i or further information, we m
refer you to the statutes mentioned. New School Section.
Five petitioners petitioned the Muni formed taking land from all surroundin sections. The Council, after notifying
all concerned and who did not come to the Council at the time set and raise formed, passed a by-law granting the After the new section is formed there is strong objection to the school, and
various ratepayers object to the school. Their land last year was assessed as a
new section, and as they would
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$\qquad$ sections collect fees from those sending children out of the new section to their
schools as provided for in the School as non-resident pupils?
2. Or as they have no school can send their children on to the schools where they went before the new section
was formed, as they claim there is no non-resident pupils?
3 Should the land be laid back to section collect the back tax which has not been paid for that land so exempted
by being in a new section for that period of time? 4. Can a ratepayer who sends his set by the trustees enter an action against
the trustees for having the teacher send the children home? Subscriber.
Ontario. Ans.-The questions are well put, but
the statement of facts is not sufficient to warrant our ancwering them definitely.
As to the first two, we think that they As to the frourth, an answer in the nega-
tive would prolmbly be right. But as to the third, and indeed all four, there ought


For Sale--Hackney Pony Red roan gelding. Twelve hands. This ponj
is consid is considered by the leading horsemen in Canade
to be the highest going pony for his inches on the
Continent. He has never been beaten in the Shom Continent. He has never been beaten in the Show
Ring. He has the best of manners. is quiet and
gentle, and yet when asked is alway ready to pul gente, and yet when asked is always ready to pul
up a marvelous show. He te aboolutely sound in
every respecta dond does not have the frist indic.
tion of any blemish. The owner has sold all hif
 GEO. ALLAN
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## Steel Rails

for Reinforcing Bridges and Barn Driveways CUT ANY LENGTH JNO. J. GARTSHORE 58 Front street, West IToronto
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Clydesdale Stallion For Sale

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Percheron Stallion For Sale


## Gossip.

Elias ruby's holstein sale.



## The Cowan Sale

at Cannington, ontario
Tuesday, March 14th, 1916

## Clydesdales

## Standard-breds

Absolute dispersion sale of the stud of 40 Clydesdales , headed by the great sire, "Pacific," proved one of the best sires in Scotland before importation. Another stallion of great value and merit, "Prince of Park by Hiawatha," with 38 mares and young things of both sexes, imported or bred fron imported stock, making an offering that has not been equal
led in any public sale made in America. Breeding, size led in any public sale made in America. Breeding, size,
quality and condition such as have not been seen, combine in this great stud.

There are 15 Standard-breds, headed by the Great Peter Wilton, a wonderful horse and a grand sire, whose sire, Peter the Great, sold last week at 21 years old, for $\$ 50,000$. With 14 mares and fillies with speed, size, conformation and every thing to make them valuable. They all go at your price, for everything in sale must change owners that day. There has been no opportunity like this before to get so many of the very best at your own price.

TERMS: Nine months on approved notes, with 7 per - per annum off for cash

Train from Toronto on Midland Division, G.T.R., leaves at $7.50 \mathrm{a} . \mathrm{m}$. All parties met at Cannington and taken to You are invited to write for catalogue and come to sale. W. J. COWAN

Cannington, Ontario


MarCh 2,1916

| SPECIALLY |  |  |
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Southdown Prize Rams
ROBT. MCEWEN, R.R.4, London, Ont.
Elm Park Aberdeen-Angus
$\qquad$
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Springfield Aberdeen - Angus

Tweed hill -Aberden-Angus. Choice
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The Glengore Angus
Some choice bulls, from 7 to 15 months, for sale.
For partinlats write-
Beaver Hill Aberdeen-Ansua Bulls git for
with cal wit fot. Prices reasonable
ANGIS BULLS 4 young aberdeen
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THE FARMER'S ADVOCATE.
Gossip.


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THERE is more than one good reason why and other Deering tillage implements, but all those reasons can be summed up in one word - Profits. There is profit in disking some fields before plowing.
There is profit in a well-disked seed bed for graim.
$\qquad$ nothing from the credit of the Deering disk harrow which is really responsible for them. The Deering disk, with its bowed set-lever bars, its easily adjustable snubbing bocks, and finally results in a heavier stand of better grain, which sells at a higher price and
better profit, than if the Deering disk had not been properly used. local agent for this spring's work. Quality counts, and quality harrows, cultivators, scufflers and land rollers. Write us at the
nearest branch house for catalogues but do not fail to see the Deering tillage line before you buy.

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Dairy Shorthorn Bulls
From 12 to 14 months old, from good dams and by our stock bull, College I)uke $=85912=$. Address

Weldwood Farm
Escana Farm Shorthorns

MITCABELL
IBROS.
Jos. Mi $\qquad$
THE AULD HERD
Two good young bulls for sale, one fourteen and one seventeen months old, alar a
couple younger. Intending purchasers met at station on request.
A. F. \& G. Auld,
R. R. 2, Guelph, Ont. Robert Miller Stull Pays bhe $p$
 som- younger still: heifery fit for servic
sooth families, and some of them from
mader right, just what you want to make

R. Ano Willowbank Stock Farm Shorthorn Herd Etabllah
 Walnut-Grove Shorthorns $\square$


R.M.S.P. то WEST INDIES
FORTNIGHTLY SAILINGS
' By Twin-screw Mall steamera
spectal facllities for tourists. moxt Salline from malifaxi

The Royal Mall Steam Packet CO. 62.59. Cranvillo stroet, MALIFAX (N.S.

Looal TICKIT MAERCIES.
DISPERSION SALE OF

## Shorthorns

WEDNESDAY, MARCH 8, 1916



 $\underset{\substack{\text { momnths } \\ \text { lam } \\ \text { Masb }}}{\text { and }}$
 TERMS: Twelve monthd credit on endarsed John Tuck, R.R. No. 2. Brestau, Ont






HETCHER'S SHORTHORNS
$\qquad$ Shurfbern erne
$\qquad$

## Questions and Answers.

 Miscellaneous.
## Sweet Clover.

1. What is your opinion of sweet clover? 2. How does the petcentage of protein
in sweet clover compare with other clover?
sweet ciover compare with ather
w. Ans.-1. If properly handled, sweet
clover is suitable for hay or pasture; and clover is suitable for hay or pasture; and
as a soil renovator, it is in a class with as a soil renovato,
the other legumes,
2. Sweet clover in the green stage contains about the same percentage of protein
as does other clovers. In the dried stage as does olher covers. In the dried stage protein; Red clover 12.8 per cent., 14.9 per cent

Eggs In Winter

1. Does the grit and gravel eaten by a hen go to make egg shells or to aid diges2. What is the most suitable method of reeding for eggs in winter?
2. How does a chicken get out of its
shell? w. мcG. Ans.- 1 . Both grit and gravel aid the
hen in digesting its feed. Any lime or hen in digesting its feed. Any lime or
shell combined with the grit goes to proshell combined with the grit goes to pro-
duce shell. Oyster shell is fed hens during the winter for that purpose.
3. House the hens in dry, well-venti-
lated quarters, free from draft, and feed lated quarters, free from draft, and feed Wrain in a deep litter for the morning feed. suitable. At noon give some form of green feed, as a mangel, cabbage or clover
leaves, also sour milk if it is available. At night feed grain again, so that the Clean water, rolled oats, grit, oyster sheli and a dust bath should be in the pen at all times. chick has sufficient strength to a normal chick has sufficient strength to break the
shell with its beak. It continues breaking
a way the shell until finally it becomes

## $\sqrt{\text { Veterinary. }}$

Partial Dislocation of Patella Colt slipped on ice in December and same night. It went lame, and I treated it now at each step I can hear a click in the stifle
Ans.-The patella (the stifle bone) hear is made by the bone slipping back into place. Get a blister made of 2 drams each of biniodide of mercury and clip the hair of the front and inside of bite the parts. Rub well with the blister ance dany for two days; on the third day pply swect oil and urn loose in a box off. Then tie up and blister again, and
ffter this blister once every month antil curned out on grass. In the meantime and do not feed too highly box stall Umbilical Hernia. Nine months' old Clydesdale colt has a
soft lump the size of a large hen egg ist in front of his sheath

Ans.-This is a hernia (rupture). In
many cases they disappear without treatment, hut in this case the fact that it
has not yet disappeared indicates that fuss arranged to go around the body.华ith an chration alout the size and
h $\square$

# Now is the Time to Plan for Your Silo 

Settle the silo question now before the rush of spring and summer work comes on. You need a silo. Decide now to have one milk flow at least $20 \%$ and reduces feed age increases mik the best investment you can make.

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insure better silage and cost less for the service they give than any other silo. Do not make the mistake of buying a "cheap" Silo, that are offered to you with emphasis on their low price are expen not last as long as an Ideal. Every dollar you invest in an Ideal brings greater returris than money invested in any other. Ask for
catalogue and all the facts that prove that you get by far the most
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Sole distributors in Canada of the famous De Laval Creamm Separators
nond Alpha Gas En Enes. Catalogues mailed upon request. MONTREAL PETERBORO WINNIPEG VANCOUVER

## These imported bulls, along with 10 home bred bulls may now be seen at our farms. There are some choice ones ambeng theme we alo imported four com and a heierer Th of which are forward in calf. An Anvitation is extended to anyone intereated in thit lass of stock to visit us at any time. Correspondence will receive our moot

Burlington Jct., G. T. R

J. A. \& H. M. PETTIT

SHOR'THORNS and SHROPSHIRES Markdele, Ontarlo With 125 head to select from, we can supply young cows in call, heifers from calves up and
young bulls from 9 to 18 mos. of age, richly bred and well feehed. igh-class lot. Peasant Valley Farm Shorthorns $\begin{aligned} & \text { For Sale - } 9 \text { buls of serviceable age } \\ & \text { bue can interest you in are real goo } \\ & \text { bit }\end{aligned}$ meaders or use on grade herds. Some sired by (Imp.) Loyal Scot, also emales. Write us before buying
GEO. AMOS \& SONS,
Moffat, Ont. Stn. C.P.R. 11 miles east of Guelph Soring Valley Shorthorns $\begin{gathered}\text { Herd headed by the twi } \\ \text { great } \\ \text { sereding bulle }\end{gathered}$ 1 Kyle bros, Drumbo, Ont. Phone and telegraph via Ays JOHN MILLER, Ashburn, Ont. Myrtle Sta., C.P.R. \& G.T.R Shorthorns $\begin{aligned} & \text { PRESENT OFFERING } \\ & \text { Bulls Master Butterfly, red raan calved, June } \\ & \text { Beifers }\end{aligned}$


dMES MCPHERSON \& SONS, DUNDALK, ONT.

SHOR'THORNS JoHN ELDER \& SONS. HENSALL, ONT

## 20 Imported Bulls

Questions and Answers. Miscellaneous.

## Marriage Law.

Is there a law in Ontario that compels a couple, wishing to get married, to live In the same county at least fifteen days before the ceremony can be performed?
Ans.-At least one of the contracting parties is required to live in the county のarties is required
or the length of time stated.

Urinary Trouble.
A four-yea -old mare passes thick white urine in small quantities. I wourd like to know the cause and also a remedy
Subscriber for the troubie. Ans.-The kidneys are slightly in. Ans.- The kidness ane
sctive. Give a tablespoonful of nitrate of octive. Give a a daily in damp feed for three or four days.

Navicular Disease.
We have a young driving horse, five
years old, that went lame last fall in one years old, that went lime bast falmith and
front foot We had the black veterinarian examine him, and the only
vhing we can find is that his fetlock thing we can hid he turns his toe outward when standing or driving. If $y$, can offer any sugkestion
will be thankfully received.
Ans.- The symptoms indicate navicular
disease, and there is little hope of a disease, and there is little hope of a
recovery recightly by repeated blistering. drams each of cantharides and biniodide of mercury, and mix with 2 ounces o
yaselinc. Clip the hair off about tw vaseline. (lip the hair off about ${ }^{t w}$,
inches high all around the hoof. Tie s he cannot bite the parts; then rub well with the blister daily for two days. On the third day wash off and apply swee
oil. Let him loose in a box stall and oi the parts, blistered, every day. Repeat months. Locatee of Land.
In September, 1902, Mrs.
-nally applied for land in Merritt Town ehip to Mr. Mas in office, Provincia
Buildings. Was told to do so and that the land would not be sold over her head Located on land in April, 1903, and ha lived on the land ever since, making the
most of living therefrom, by cultivation most of living therefrom, by cultivation
thereof improving the same and making a home as fast as circumstances woul
allow. Now that she is in a position to make her living thereon (excepting lack of stock), can she be deprived of part of
our clearing by license of occupation? our clearing
Ontario.
Ans-We do not think so. See your lature about the matter. He ought to b able to obtain satisfactory assurances fo you from the Department of Lands. Difficulty In Churning
We only keep one cow, and the las
(wo or three weeks I cannot get the
cream to churn into butter. After I hav
whipped cream, and just keeps that way
ing for an hour, with the temperature
it to 75 degrees and churned for another was the first cream still remained as it arccle of December 2nd, and followe
instructions, but with no better results The cream i, always ripe, and little or $n$ n skim-milk in it. The cow freshens in
about May 1st. Could you enlighten as to the cause and suggest remedy? Ans.-Evidently every precaution ha
been taken regardiny ripening the crea been taken regarding ripening the crean
and churning has been tried with th cream at different temperatures.
winter, cream or milk is more viscou than in summer, and consequently it more duthcull to separate the fat from th
cream. The same pecculiarity previls the milk of cows long gone in lactation and dry feed is supposed to encourag
this condition. The fact that the cow nearing: the end of her lactation perion
may be the cause of cream not churning
 bran, llutern meals or oill-cake meal mitt m
profitatly be madded to the ration profitatly be added to the ration. R
the cream quickly before churning.

## A Good Seed Bed and the Seed Properly Sown if you use Massey-Harris Implements

Massey-Harris Drills
If The Reliable Force-Feed Runs sow uniformly and without 1ujury to the seed
It Strong Steel Frame holds all parts in proper

If Positive Gear Drive.
IT Simple and easy control-one motion of a Lever lowers the Furrow Openers, applies pres raises the Furrow Openers and stops the feed.

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II Being equipped with Pressure Springs, the Gangs are held to their work on rough and un the entire surface is cultivated.
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The Massey-Harris Line of Cultivating Machinery also includes Spring-Tooth Cultivators, Stiff-Tooth Cultivators, Drag Harrows, etc.

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MAPLE SHADE FARM SHORTHORNS The products of this herd have been in very strong demand. There's a reason always supply a good young buin a price win wall mat
well worth the money. Not many females for sale but
well worth the money. Not many emales tor
can hiow a few which should interest you
W. A. DRYDEN, Maple Shade Farm, Brooklin, Ont.

Shorthorns Pure Scotch and Scotch topped-Booth. Also five (5)
youg bulls from ten to tewnty ononthe old. of the
low down, thick kind, good colors-reds and roans ow down, thick
Prices reasonable.

Shorthorns
Wm. D. Dyer ${ }^{\text {R. R. No. 3, Oshawa. Ontario. }} 4$ miles Irom Myrtle, C. P. R. ${ }^{21 / 6}$ miles from Brooklin, G.T.R
$\qquad$ heifersamben Nowtong which is a junior yearling fhow pow proposition.
and see them.

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Pioneer Farm Holstein Herd Offers a handsome bull 14 month old, $1 / 1$ whice, frow
 Sutter in 7 dys. and 108 libs. milk in one day. Write for prices or come and see them. Independent.
R. R. No. 5, Ingersoll,
Walburn Rivers. Clover Bar Holsteins My special offering just now are some choice young bullo
 PETER SMITH, R. R. No. 3. Stratford, Ont. Stratford or S
QUEEN CITY HOLSTEINS

Present Offering in 10 yo
dams sires dam and her foung bulls, from 6 to 14 months of age, the records of whose Presen sires dam and her f
dams
Lyons Hengerveld Segis.
R. F. HICKS
f. HICES


Burnfoot $\begin{gathered}\text { Stock Parm, Caledonla, } \\ \text { Breeders of heavy milking dual }\end{gathered}$ purpose Shorthoress. We offer now a handsome
coan bull calved Aug. 13. 1915, out of Jean'
 Shorthorn $\begin{aligned} & \text { Bulle and Heifers-Have eigh } \\ & \text { bulls and ten heifers, from eigh }\end{aligned}$ o twenty month, for eale. The best of breeding
ond prices moderate. Write me your wants before and prices moderate. Belle phone. C. E. BAIN.
Wou buy.
Woodbine Stock Parm, Taunton, Ont. Shorthorns - "Pall Fillers"-Our Short lor big mill production. If yre want a stock bull bull
lored that way, we have several also Clyde. stal ored that way, we have several; also Clyde. stal.
lion rising 3., won 2nd at Gueloh the other day in
oig class. P. Christie \& Son, Manchester, Ont. Shorthorns $\begin{aligned} & \text { and } \text { and Swine - Have some } \\ & \text { cho young bulls for } \\ & \text { sate }\end{aligned}$



TOP dress all your crops with Nitrate of Soda alone, no matter what other fertilizers you may have used. 100 pounds to the acre for seeded, and 200 pounds to the acre for cultivated crops will do the work. The increase will yield large profit over the cost.

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Holsteins, Yorkshires and Cotswolds

R. HoNey \& SoNs, Darfford Ont.

BULLS, BULLS. "minw winn
$\qquad$



HOISTEIN BULI


THE FARMER'S ADVOCATE
Questions and Answers. Miscellaneous.
White Beans Breeds of Ducks. 1. How much secel of little white bean: is required for one acre. 2. When is the
orrect time to plant? 3. How many cep can a farmer take care of properly lifferent breeds of ducks? 5. (ive in J. J. Mc.
Ans.-1. Ahout three pecks per acre 2. The time of planting depends upon 2. The tince of plantung sepends upon
various circumstances, such as qualityo
soril locality and variety of beans Inder Hocalty and variety of beans. ( nde lace the last week of May or the firs
veek in June. It is important to fant
 owth.
3. The number of sheep will depend on he productiveness of the soil and just
how much attention can be given them. how much attention can be given them
It will be neessary to produce feed for wintering the sheep, besides pasture for
sumner. summer. We would not advise going eight-acre farim. Probatly s.x. or eight
ceves could bee kept, providing the in-
creasc was sold off cach vear. 4. Pekin, Aylestury, Rouen, Cayuga,
Muscovy and Indian Runner ducks. 5. Duck houses are built on mur h the
same prindulas
 for shicll and grtit are alt the furnushinh
required. (lianliness is important. Th yards should be seraped ocrasionally ta
yemove the drop pings. It is a mpord plan to plow the yards each year. In handling
a flock gentleness and quiet ness are
assential at all times. Feed grain night and morning and all the green feed they
will cat during the day. Keep themit will eat during the day, Keep them
supplied with water. Some poultry men men suppled wth water. Some poutry men
give the ducks no avater except for drink
ins Others colieve ducks do better if ing. hiners believe ducks do better

A Real Estate Matter Mouse on the corner of a certain piece of Same Tor had his tence around it. The , may here, and he gave me the land which my barn is built on and enough
beside for a a arden. Of course, I have on paper of this. I have been living in
hee said house for two years now the said man turned around and bought the land from the company alout Novem-
ber last. Now he wants me to pay rent or any arrangement between hom and pe honlly after he pave me this property nus hlow ing alnout giving me this piet mhl give me vour adie, wand at
$\qquad$ Box 220

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## 50 Holstein - Friesian Cattle

Tuesday, March 14th, 1916
The offering is gilt-edge-by the members of the East Elgin
Holstein Breeders-and we say NOW is the time for the young breeder to make the start. Send
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R.R. No. 4

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| 15 Pure- Cows Cows |
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| Thursday, Mar |
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| bred |

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Larkin Farms $\begin{gathered}\text { Queenston } \\ \text { Ontario }\end{gathered}$
CHOICE HOLSTEIN-FRIESIANS

 OAK PARK STOCK FARM
$\begin{array}{lll}\text { W. } G \text {. Batiley. } \\ \text { LYNDEN } & \text { FARM } & \text { R.r. No. 4, parta, ont. Can } \\ \text { HOLSTEINS }\end{array}$


Evergreen Stock Farm REGISTERED HOLSTEINS A. E. Hulet, Norwich, Ont.




of course, the drivers standing upon suct
loants.
"Scalding Pigs-Charcoal-Smoking

1. What is the temperature used in
scalding pigs?
2. Whate ffect, if any, has the addition of wood ashes to the water?
h. What tis the elest wood for making
charcoal for stock? 4 . How is charcoal

fulness for breeding purposes?
Ans.-1. The temperature used for
scalding hogs at large packing houses
scalding hogs at large packing houses
varies from 140 to 150 degrees.
3. It is claimed that wood ashes,
added to the water, tends to make the
hair slip.
4. Any kind of woor may be usect
Hardwoods are protably preferable to
the sottwoods. . Wood on end so as to form
5. 

bottom to admit arir, wist a central shaft

$\left.2^{2}\right)^{2}=2$
Brampton Jerseys
 B. H. BULL \& SON, BRAMPTON, ONTARIO JERSEYS

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Stonehouse Ayrshires
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Yorkshire Sows
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Farrowed in October from sire and dams of extra good quality
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Tamworths A choice iot of brevd pows
Herbert German, St. George, Ont.
sunnvilde. Whick Farm
Chester White Swine



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terellil.






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We breed and import reg. Oxfords. Rams and ewes in any quantity for sale-
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Cloverdale Large English Berkshires!
 Newcaste Tamworths and Shorthorns away viverw

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OAK LODGE YORKSHIRES
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DUROC J. F. Brethotr \& NEphews. Burford, Ont
DUROC JERSEY SWINE, JERSEY CATTLE for gen
nd higb
hint


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YOU have waited wisely for
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You have realized that the automobile - wonderful in its convenience to the city man, means still more to the owner of a farm.
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Cars at a low price were offered you -but they lacked quality. Some you saw had quality-but they were too expensive in first cost, or too hard on tires and gasoline.
You've been waiting to see some maker produce a car, light in weight.
long on power, complete as to equip-ment-at a price considerably under a thousand dollars
We've produced such a car in the Chevrolet.
You've waited for a car that both looks and acts like a real car-and yet doesn't take all the yearly revenue of your farm to run it.
You've insisted that your car must have roominess, finish and beauty.
We've produced just that in the Chevrolet.
All the features that make this the ideal car for the city man are the kind of features that Its valve-indeal car for the farm owner. Its vave-in-head motor is so strong and de-
pendable as to earn for the Chevrolet the title, "Wizard of the Hills."
Its Cantilever springs give comfortable riding on roughest roads-without need of resorting Its electric lighting
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designed and built into the car-as an indesigned and built of the car
And, finally, conclusively, its price is $\$ 675$
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 No. 1 Purley, TMo. 2 appearance.... .50 alfalpa Northern. ${ }^{2}$
Bags are 25c. each extra.
Cash must accompany order.
Ask for samples in necessary at 75 c . in 10 bushel lots.
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No. 1 Red Clover

| Pef Bue |
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| $\cdots . .816 .25$ |

No. 2 Red Clove $\qquad$ Bue
16.25
15.75
13.00 No. 1 Alsike... 13.00
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 Terms cash with order. Bags east of Manitoba of $\$ 25$ or over we pay the freight.
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Ask for samples if necessary TODD \& COOK Stouffillle ${ }^{\text {seed Mecchanto }}$ Ontario


Rebuilt Portable and Traction Engines and Threshers
 and The Robt. Bell Engine \& Thresher SEAFORTH Company, Limited ontario
RIDER AGENTS WANTED 5





HYSLOP BROTHERS Limited ailing ones healthy and expel the WOITRS DR. GILBERT HESS

Doctor of Veterinary Science Doctor of Medicine

## Why Pay the Peddler Twice My Price?

I urge every farmer to see to it right now that his work horses are put in condition for the hard work of spring and summer, so that when the sun shines your horses will be rid of their old coats, full of stamina and ready for business.
And don't overlook the spring pig crop-the mortgage lifters. Start them off free from disease-free from worms.
Be sure, also, that your milk cows are thoroughly conditioned for the long, heavy milking season, and that those with calf are vigorous and fit
Remember, your stock have been cooped up for the last few months and have been on dry feed. As corn or oats, hay and fodder do not contain the laxatives and tonics so
abundantly supplied in grass, your stock are pretty apt to be out of fix. Some of your abundantly supplied in grass, your stock are pretty apt to be out of fix. Some of your
animals are liable to be constipated, rough in hair, their legs may have become stocked, or they have dropsical swellings, but the most common disease of all, especially among hogs, is worms-worms.

## DR. HESS STOCK TONC

25-lb. pail, $\$ 2.25$. 100-lb. sack, $\$ 7.00$ (duty paid)
Highly Concentrated, as the Small Dose Quantity Proves
Now, as a worm expeller, I will go the limit in guaranteeing my Stock Tonic. To clean out your hogs, put in the swill one tablespoonful of my Tonic to every two hogs twice a
day and you'll make short work of the worms. day and you'll make short work of the worms.
And here are my prices - just half what the peddler charges: $25-\mathrm{lb}$. pail, $\$ 2.25 ; 100-\mathrm{lb}$. sack, $\$ 7.00$ (duty paid). Smaller packages in proportion. Sold only by dependable
dealers who are known for square dealing dealers who are known for square dealing. Read my guarantee below.

> Dr. Hess Poultry PAN $-\mathbf{A}-\mathbf{C E}-\mathbf{A}$

It's a Tonic - Not a Stimulant
Mating time is the time your poultry need this tonic and internal antiseptic to make them vigorous and free of discase, It will hepp you get mone fertile crgs and give the chocks ation
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$\qquad$


[^0]:    farmerd, those of them able to work have in the past
    staten doing considerable. One thing seems certain, that
    been
    been doing considerable. One thing secms certain, that
    if Western Canada has a heavy crop next year, as wit
    the case in 1915, men will have to come from somewhere
    will have difficulties. If all the able-torelied office men
    and clerks in the city, would plan to spend their heldays
    this year helping sonne friend who is on the farm, and
    who needs help, it would make some difference. Thi will not solve the probtem, but every posestronaction and men to handle it in 1916 , which promises to be, from a labor viewpoint, the most difficult year the Canadian farmer has had the face. We must fight or pay. Wh must also do a little of what the Editor of Industrial Canada calls Nhis that some form of universal enrolment should be adopted by our Govermment. It dues nde seem that the Governnient is very anxitus to make such a move, but Canadians can dill a dette team-work
    on their own account, if they will. Let all farmers coopente one with another to the greatest possible extent, and let all those city men who can, an it is necessary that production be kept to the maximum if

    maintained at top- notch.

[^1]:    
     day the looks like barbuteread of the she surif that looks like butter but doesn't taste like
    it, of the munddy, flavorless coffee, and of that everlasting veal, sometimes
    disguised under another name, but always just the same old veal. Bread
    may be the Staff of Life in some counmay
    tries, Switzerland the Staff of Life is veal. And I'm tired of living in a per-
    petual fog, and of staying in the same place, and of being jailed in one litthe country And no matter wo rec
    you go in that little country, you ren
    into the worst weather ever known in that section. If you go where it
    is supposed to be balluy and spring. If supposed to be balun and spring.
    like you are treated to autic gales and furious snow -storms, and if you hie
    to the high Alps for winter sports, the snow melts and the skating rinks turn into lak
    Everything
    like to get into an aeroplane and fly to realms unknown-to some place
    where it was balmy and restful, where meals grew on convenient , wushes,
    and gunpowder was never heard of to stay tidn the war-clouds clar away

