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LONDON, ONTARIO, NOVEMBER 14, 1912.

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## EDITORIAL.

Let every agricultural society pass a resolution in yavor of

Many are the calves slaughtered each year for veal, which if they were properly reared and fed would make profitable bally beef.

The beauty of the first snow-storm was hardly appreciated by the farmer with a quantity of apples, roots or potatoes ungarnered and not a furrow of fall-plowing turned.

This is a good time to "take stock" on the
Think over the successes and failures of farm. Think over the successes and failures of the past season, and plan to improve all disappointing conditions for next year by a more judicious selection of crops and methods.

Too much importance cannot be attached to having the farm tools, implements and machinery in order when the necessity for using them arises. defects or breate on many farms because smal the implements or machines are stored for the winter. No better advice can be given than to go carefully over each implement and machine stored now if it has not already been done, and make a note of requirements with the firm intention of having them attended to immediately rather than leaving them until the machine is needed, and delays are costly.

Each farm should be more or less of an experi mental farm. True, large amounts of money are spent annually by our Government in the maintenance of large experiment stations Which are doing a great work, but even with all this to actually measure up conditions on the individual farms of the country a limited amount of experiental work should be done on each. The exbut each farm but each farm has in own fields. Many of these things are found out by experiment.

Many crops are well grown, but not well marketed. Marketing the products is one of the neglected phases of farm management. ner in which the retailer displays them? Most any customer will pay more for an evenly assorted basket of potatoes or apples than for one containing all sizes from the smallest "peeler" to the very large over-grown specimen. These might just as well be assorted on the farm, and the
grower receive the benefit accruing therefrom.

Do as much of the farm work as possible with horses. A United States Bulletin on farm management says: "Any system of farming that limits the worker largely to what he can do
with his hands, without the aid of horse or with his hands, without the aid of horse or mechanical power of some kind, will as a will have incomes little if any larger than ordinary have incomes little if any larger methods must
wages." This means one of two methen he practiced, either intensive agriculture on small holdings in close proximity to large markets or increased acres and larger holdings in intensive methods are not so practicable.

Invest Farm Profits in the Farm. Successful business men reap a profit from their undertakings no matter whether the business is large or small, whether it is a manufacturing business or wholesale or retail dry goods or grocery business, or that of operating a farm. Profit means increased capital and increased capital in most business ventures means increased business, because a good manager uses his profits to enlarge his stock, and thus the volume of the business grows accordingly. Many agriculturist are loathe to invest money earned by their farm in better equipping the plant already in their pos session. The money is placed in the bank or let ses a comparatively small interest on mortgages at a comparati cortimes small ine the money for the Oitentimes the borrower uses the money for the
very purpose the lender should have used it, viz. very purpose the lender should have used it, viz.
to, by better equipment, place his farm or his to, by better equipment, place his farm or his
business in a position to earn greater returns. '"Profit in farming depends not only, on the in trinsic profitableness of the enterprises adopted but also to a great extent on the amount of power employed and the amount of capital invested. If there is profit in an enterprise conducted on a small scale there ought to be more profit in it when conducted on a larger scale. Large farms cannot be operated without comparatively large amount of capital, so it is necessary that the beginner commence on a small scale. We learn loy experience, and, as knowl edge of the business grows, larger undertaking are warranted, and with the growth of knowl edge comes the increase of capital, each working to warrant an' increase of investment in the farm ing business.
Few indeed are the farms which could not be made yield larger returns on capital invested by a judicious use of more money in enlarging the holding, or in putting the farm implements, build ings, stock and other equipment in a better com dition through increased purchases or repaira Labor-saving devices mean much in the is ing of cash return form of the most importach meve profits. Horses and machinery form operation in connection wor tine many of our larger farms are being instance, alor-horse teams, in stead of as formerly by two-horse teams. In the change from the smaller size of implement to the larger there is need of a capital outlay, but who would question the advisability of making this outlay? Is capital thus invested not much more potent as a factor in increasing itself than wer it locked in a bank vault at three per cent. inter est? Where such a change is made many do gradually. Carefulness is advisable in mos things, but a number of two-horse and a number of four-horse implements on the one farm is no as a general rule profitable. Uniformity of equip ment is most economical. Four-horse imple ments save the time of one man, and, as is now very often the case, where one man only is avail able, the constant use of four-horse implements greatly increases his efficiency
This is simply one point. There are many others. How many of our farms are carrying the largest number of cattle, horses, sheep and pigs that they could possibly carry at a profit to their owners ? very few. Some there are tho may have reached they are indeed a small minority. We
ear much of the scarcity of beef cattle ; milk and s products sell on a ready market at a higl rice; hogs.bring good returns ; and the drati horse finds plenty of buyers. Could not some of the profits from this year's operations be proftMore live stock means that more feed would be fed on the land, increased fertility and larger crops would follow. Reaching the limit in the number of animals fed on the farm also bringa out better methods. Crops will be more carefully rotated, more soiling crops will be grown, eguminous crops worked into the rotation, and better all around farming will result.
More live stock also necessitates more machinery, for the increased labor makes this imperative. Good implements and machines, provided there is work for them, are always profitable. It is, however, a loss to have too many expensive machines on small farms or on farms where they re needed only a few days in a year. Increased lock. or In the lor much more ther the ato and frequent intervals.
The whole problem properly managed mean that when the oapital made from the arm is judiciously increased therein increased returns are sure, for each branch properly managed works so well into the other branches that they all make for good. Think it over carefully before investing the profts made this year. Go over the farm stock, implo ments, buildings, and other equipment and care保 size them up and see whether some or aligh t home, use in the farm as well as returns from it.

## Canadian Coreals Win.

The great strength shown by Canadian grain exhibits at the International Dry-Farming Exposition, Lethbridge, Alberta, is a matter over which Western Canada can feel justly jubilant. I is scarcely a year ago when, at the New York Land Show, Seager Wheeler, the Saskatchewa farmer, on his exhibit of Marquis wheat wo the $\$ 1,000$ in gold that was ofiered for the be
bushel of wheat grown' anywhere in the world. bow at Lethbridge, where the competition is open to practically the whole of North America in very nearly all grain classes in which Canadians can compete, state or provincial, the awards are coming to Canada, and to Canadian farmers not only comes the highest award in wheat, but in outs, barley, and fax as well, the staple crops upon which Western Canada ha built her reputation. One notable feature in con nection with the award for best bushel wheat is that the prize goes to a Marquis sample, the new Car'adian-bred variety that won for Seager Wheeler last year. Not only did the premie prizes come to Canadian-grown cereals, but the great bulk of all the premiums was won by Can adians.
Gratulating in these facts, our Winnipeg contemporary very prudently warns its readers not to rest with the spirit of jubilation, for to do so would be yet to fail. While not forgetting to give credit for the culural mothods omplo produce this prize-winning graln, the matis credit tions, and a timely hint thrown out'that cultural

# THE TARMERS ADVOCATE 

## AND HOME MAGAZINE

## EITH LTADING AGRICULTURAL JOURMAT

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## publisied wiekli by

 John weld, mamacib.
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 Hexin

 THRE WILLIAM WELD COMPANY (LINITBD)

LOMDON, CANADA.
mothods must continue to be perfected if the viccories recently won are to be duplicated at the of cropping and cultural methods really count.

## Recast the Rupal Cuppiculum.

While a considerable proportion of our criti cism, of educational ideals and methods has been ing int the Province of Ontario, most of it is quite applicable to other communities as well The English edition of the Journal of Agriculture and Horticulture, official organ of the Que bec Council of Agriculture, criticizes the school system of that Province on much the same grounds
ural schools attention was the betterment of the great lack of interest in. the schools by the ratepayers themselves. We are of the opinion that the main cause of this serious condition of sized sufficiently at the meetings So elo sized sufficiently at the meetings. So long as schools poorly prepared for life's battle out from farm, so long will lack of interest prevail. Fo years they have observed that the young people have but little sympathy with farm and country
life; and for years they have watched the life; and for years they have watched the long
procession to the cities and towns. The real course of studies pursued in the rural schools.
'"There is a great need for a reconstruction of the courses of studies so as to meet the require-
ments of rural life. Surely it is time that our country children learn about the things which make up their environment. A knowledge these common every-day things, weeds, birds, sects, soils, crops and animals, is very essential

- "This is not a new doctrine we are preaching. up" a way to do things. But underneath this - "This is not a new doctrine we are preache in- veneer is the "no-training of their youth. They
There has been advocated for many years the in are notent either as farm-hands or as
ander troduction of Nature Study, or the stung as a but no education. child's surroundings, into the schools, mere graft (so to speak), or an alse, but as the to the already overburdened course, but as the are related as branches. It appears to us that if an unprejudiced educator was to establish for rural Quebec an educational system best suited. to its needs he would certainly make more of the study of countrity life. He would also give decided prominence to studies that prepare the children for living the fullest and most satisfying lives. As most of them will become workers and homemakers it is essential that they receive instruction in subjects that will train their fingers to work and their eyes to see, and that will prepare them for the great work of living.

Sound sense this, is it not? The writer expresses a correct conception where he urges that the study of nature and rural environment should not be engrafted as a separate subject on an overburdened curriculum, but as a trunk to which the other studies would be related as branches, Perhaps this is putting it a little strongly, but certainly the new phases of education, such as nature study, school gardening, manual training and domestic science should not be regarded as superficial additions, but rather as an integral part of rural schooling, pssible with the literary and academic phases Until they are so knit, they will not be likely to receive serious attention from the general run of teachers, trustees, ratepayers or children, and even if they did receive attention, would fail of their highest purpose and greatest benefit. The whole curriculum of the rural school must be recast, and the new phases properly correlated with the old.

## Where the Country Schools Fail.

The world sure loves a "bonny fighter," and educationists has certainly earned you that title as well as arrested the attention of those who think and solve problems.
I should like to tell you why I wrote those
"whys." Then your critics will better underWhys." Then your critics will better underthese same critics attend the rublic school in their immediate neighborhood, and ascertain whether the same conditions do not prevail there as I am
describing. If they are honest with themselves they will fall in line and clamor for ,better instruction in the things that count.

1. The first thing that awakened me was when had been attend daughter home from where she sent her to our own village school. In answer to my questions as to how the schools compared she told me that she liked the city school much There, the pupils were taught sewing once a weelk. for the Second and Third classes with Domestic Science and Manual Training for the Junior and Senior Fourth. Coloring with water colors and crayons also formed a pleasing break in the
monotony of lessons, and their work was criticized twice a month by a competent critic.
Upon inquiry I found out that the Public-
school curriculm provided for the teaching of Sewing and Manual Training, but so far as Rural Schools are concerned it is a dead letter as Rural to have when it was brought before the Trustees 1, although we have two lady teachers for tieween 50 and 60 pupils.
family in our section that I have in mind as an family in our section that I have in mind as an
illustration. The father works hard and I think
the mother dozen children without doing some work. The mother was a home girl who picked up her
knowledge of housework. She never was taught the how or why of trings, so how can she
teach the children. They come to school when they like, improperly fed and not always properly
clothed. No one worries when they are absent,

$\qquad$
but no education.
2. Another thing to set one thinking is the number of boys of fourteen and fifteen years old village hotel or loafing place. Suggest school to village hotel or loafing place. Suggest school to
them, and they hoot at you. Why they are bethem, and they hoot and you, Why they are beyond school." Talk to their parents and they will
school." lament to you that their "children just dreaded to go to school, and they were glad when they "Well, they didn't like the teacher :") or ""They had to stay out and got behind, and they couldn't bear
3. I write of reason 4 with pleasure. The father cation myself, and I have felt the need of it, and made up my mind to give my children the best Now Mr Edit
Now, Mr. Earitian Mr. McCready, Mr. Wilde (a) Are you satisfied with the education the Department is dealing out to our country boys (b) Is it right to make flesh of the city children, and fowl of the country children? (c) Do you not think the results would be better if the antiquated Trustee System now in of Trustees having control over all pertaining of Trustees having contro over all, pertaining the section supervision of the school premises?
(d) Do you not think there should be (d) Do you not think there should be a
woman on every school board? (e) Do you not think a Board for each Town ship would be better than a County Board, and then have a Convention for these Trustees th same as the Teachers' Convention many absentees in the schools when of having so vides for a child attending every school-day prosickness prevents? The teacher has a recorld those who are chronic offenders, but who is to insist on their regular attendance? Persona reasons prevent many trustees from doing so, and dassent." g ) Do you ever attend an annual meeting in (g) Do you ever attend an annual meeting in terest the ratepayers show in educational matters? Kindly do so this year.
Every occupation, every walk in life demends Every occupation, every walk in life demands
efficiency, no matter if the job be washing kettles or publishing a paper. Those who are started or publishing a paper. Those who are started to spend valuable time unlearning and relearning. Time was when I was as satisfied with our system as is Mr. McCready now, but not since I
started investigating. The reward I get now started investigating. The reward I get now is to grind," and a dissatisfied person generally,
but remember it is the dissatisfied person who but rememker it is the dissatisfied person who latter would never obtain for himself.
As for Mr. McCready's plea to all work in
harmony with the Department, we would only be harmony with the Department, we would only be too glad to do so. I have been sending children let from the Department of Education on an subject. It would pay them if they would consult with or advise us. Farmers are too busy to
keep in touch with educational progress to the keep in touch with educational progress to the extent they would like, and like young birds they
shut their eyes, open their mouths and swallow whatever the Education Department chucks down, without question
some book while the farmer chances on Some book or bulletin showing what other
countries are doing with regard to their youth ; then he awakens and demands as good or better OUR GOVERNMENT
catches the farmer and the 1armer's wife by
means of Institutes, which tell them how to do things correctly, but it leaves the farmer's boys and girls alone until they have spent one quarter one qua
roped in OUR GOVVERNMENT
provides well for juvenile offenders, and provides
well for older offienders, but overloks the fact that it would be cheaper and more satisfactory altogether to prevent there being juvenile offen-CREDO-I BELIEVE
And now a few words as to Mr. McCready's
With No. 1 I disagree, because if we have the hest system in the world, why are there so many

With No. 2 I heartily agree.
With No. 3 I partially agree, but would add :
as well inspected as it is possible to be considas well inspected as it is agree, but would add :
inse to be consid-
inc the number of schools to be visited." In

110 rooms to be inspected twice a year with
fewer than 200 schooldays to do it in. In adfewer than 200 schooldays to do it in. In ad-
dition to this is a great deal of clerical work. With No. 4 I disagree emphatically. If you wish to know how the average section supports its
school, just attend an annual meeting and count noses. If you judge the system by the attenfull atton slack. If you should run across a have been expending a little more money than usual, and Mr. Ratepayer is going to haul them With No. 5 I disagree on general principles. Comparing our neighborhood schools with rural
schools in Minnesota, Iowa and Texas, I think we are far behind them in practical education. I judging and grain-judging contests, where exhibits of cooking and housewifely skill are also held under sohool auspices; where short term scholarships at the State Agricultural College are given
to successful judges and winners; where Canning Clubs and Corn Clubs are the rule in Rural Schools. Where an Educational Column is conducted every week in the county paper, informing the community of anything of interest conWith No. 6 agree and coincide, and consider, as we used to say in geometry. I sinoerely hope the Department of Education wil devise some more our country. children an equal chance with their city cousins.
One trouble has been the true meaning of the whildren are stuffed with definitions and rules they do not understand; difficulties are explained to them in words whose meanini is unintelligible to their immature minds. They are instructed, not
taught, and any originality or creative genius is taught, and any originality or creative genius is
repressed. Education is the educing or drawing out the latent powers of an individual
I hope the day is not far distant when we wil have in every rural and village school competent instruction- in Sewing, Domestic Science, and teachers, it would be easy to have instructors visit the school weekly.
I would also like to see each section supply
the school with books and necessary materials for carrying on the school work. A better recogni carrying on the school work. A banadian authors in our readers would also be acceptable to the native-born amongst us.
Other thing
other things tending towards efficiency and quite within our reach would be medical inspec
tion of the schools; compulsory attendance every schoolday from children between the ages of six and sixteen, unless said child has an En a well equipped laboratory and playground.

## Natupe's Process of Selection.

Editor "' The Farmer's Advocate":
Maybe ye'll no' remember an auld chap by the name o Sandy Fraser that used tae be writin (tae ye and settlin' yer problems for ye, frae the young men leave the farm"'; but gin ye dae ye'll perhaps no object tae lettin' me gie ye anither
lift, for I'm dootin' there's still a thing or twa on yer mind that ye canna' juist explain awa' tae yer ain satisfaction. I hae $\mathrm{na}^{2}$ seen onything in the last issue o' yer paper on the "high cost o hae given the hale thing up in despair. I think ye said a short time back that ye didna' want tae see the cost o' remainin' on this auld earth reduced by increasin' the production o' oor farms an' in this way lowerin prices tae way (though for mysel' I think there are ways that micht he worse), we'll hae to try an' bring ye peace o
mind by some ither plan. Hoo wad it suit ye tae be tauld that this thing we're fightin' is the best thing possible for the warld in general, and
in the lang rin will prove tae be a blessing in disguise. Na doot ye'll wonder hoo I can mak that oot, but juist wait a minute. Ye ken, of
coorse, that when a mon has an easy life an' doesna' hae to scratch for a livin', but juist pits in the time dodgin' trowble an'. lookin' for amusement, he isna' likely tae develop vera much muscle or back-bone either, for that matter, but is michty lucky gin he keeps oot o' jail tae the
end o' his meeserable existence. Will, noo, dae ye no' see what the high cost - livin' should dae for the maist o' us. It should an' does mak' us get tae work, an work
the best we ken how at that, an' the effort we, the best we ken how at that, an' the effort we
pit forth is what is gaein' tae mak' men oot o' us, gin the Lord has given us onything at a tae
start wi'. But change the condeetions, an' mak' it eas,';
or even possible, for a man tae get his bread an' or even possible, for a man tae get his bread an
butter wi'oot scratchin' for it, an' ye'll soon hae butter wi'oot scratchin wha, they say, lays on his back under the tre in'
an' lets the bannanas an' sic' like things drap in'
tae his mouth, as he hasna, the energy tae get Noo, there are some that seem tae think that it s juist lately that we hae rin intae this diffculty aboot gettin' oor board an' lodgin' at rea-
sonable rates. But gin ye'll look back as far a history will let ye, ye'll see that things were aye pretty much the same. There was aye a certain
class that didna' ken or care aboot the price $0^{\prime}$ onything. They had what they wanted gin mone could buy it. But there was anither class, an a guid deal bigger class, too, that had tae mak a wee bit o' siller gae as far as it would in sup-
plyin' their wants an' then go hungry the rest o, the time. This is the class that can post ye on
the the price o' farm produce, I can tell ye. But what is mair; this is the class from which we got maist o' oor smartest men. It was a case had taie fight for their existence an' the weak wen't under an' the strong came tae the top. It is Nature's way o' siftin' oot the trash, an' it's we han't men that will dae the warld's work, that is the way we are gaein' tae get them. There's naething like a spell o' hard times tae weed oot the culls. Ye ken aboot the doctrine
0 ' the "survival $\mathrm{o}^{\prime}$ the fittest." Weel, this is fuist that same doctrine pit intae practice. Anither thing the high cost $\mathrm{o}^{\prime}$ ' livin' does for the warld is tae prevent over-population. Every once in a while we hear o' a famine in India or in China an thousands ' $o$ the inhabitants are read aboot, an' it must be a wee bit mair unpleasant tae experience, but gin it werena for that, there wouldna' be standing room there in a

I ken), but at the sane time it's no a gold-min he's workin'. The majority $o^{\prime}$ the people o his country will sink or swim thegither, for prosperity for So noo, Mr. Editor, ye see we hae settled the auld question o' the high cost o' livin' by juist provin' that it is a natu. an' ge helped, or improved on for that matter, save ye a lot $o^{\prime}$ worry an ony feeling $o^{\prime}$ respon sibeelity that ye may hae in regard tae it. It's no' yer duty, I'm thinkin', tae mak' life eas
for yer mony readers an' friends, but tae sho them how tae overcome the difficulties an' dangers that they are gaein tae rin up against in
the coorse $0^{\prime}$, their natural lives. the coorse $0^{0}$ their natural lives. Ye ken what stream, I'm thinkin', an' ye'll no say that it wisna' guid, healthy exercise, I'm sure. Up-hil wark is the only way $o^{\prime}$ gettin tae the top, tak that frae me.

SANDY FRASER.

## HORSES.

Hocks are to a certain degree a limiting factor the power of the heary horse.

Great weight in the dratt horne makea the animai's footing more secure when drawing a heavy

Drive the trotting or roadster stallion on th road regularly during the win
do it, but keep him exercised.

Do not over-


Tuttlebrook Esquire Id Shire stallion, at Toronto, First-prize three-year-old Sidre stall, Hishfield, Ont. Owned by John
o' cleanin' hoose, so it's no' for the likes o' us tae dispute her wisdom. An' so far as oor own makin' a livin' for a family has a tendency tae tae gie us what every country needs, fewer chil dren, but stronger an' healthier an' better train ed an' educated than we hae them at present 1t's quality, not numbers, that is gaein' tae in the past. Editor there's one mair point Arr' noo, Mr. Editor, there's one mair point that is na' vera clear tae some people, in regar
tae this question that we hae under conseederation. A word on that an' I'm done. "Hoo is it," they say, "that the farmer isna' gettin
rich faster than he seems tae be doin', when he gets sae muckle mair for what he sells than he ased tae ? than he did once upon a time, we'll hae to admit that. But does he get ony mair actual
value for his produce than he did ten or twenty calue for his produce than he did ten or twenty
year back? Gin his dollars are gaein' to dae him ony guid he has tae spend them, an' what for his crop in the days $o$ the past. It isna fair tae say that the farmer is gettin' rich at
the expense o' the rest $0^{\prime}$ the country. As rule, he is makin' a decent an' honest livin
care intended to promote size at olth get the proper time for once they have passed a certain age growth ceases, and efforts to renew it are in vain,

At one time in the great breeding studs of Germany under Government supervision, fifteen to
twenty mares were all a stallion was allowed to serve in a season. This was a very small number, but at the present day many of our best
stallions are somewhat over-worked.

Of all live-stock horses are the best drawing
card at an exhibition. The most phenomenal cattie, sheep and pigs, while they draw the
breeders, have not the fascination for the city pectator that the horse has. No matter what the reed, good individual horses attract and deserve attention.
An important season for the in-foal mare is at
hand. Winter means idleness. Tdleness mean danger. If possible give ker light work. If no work can be found for her use the paddock, and see that she moves around. Very often these mares are very loathe to move about, and it is
necessary to drive them to it. Where such is the case do not hesitate to compel them to move abou

Letting colts or work horsses rough it through cause them to put more critical study upon breed the winter is not a gain, but a decided loss to
the owner. No colt grows into a better horse by spending his winters in the barn-yard, and no korse after the autumn's work is more hardened
for that of the spring, because he fed night and for that of the spring, because he fed night and day from the straw-stack with the canopy of the
heavens his only cover and shelter from the rains, snows, sleets and driving blasts of a
northern winter. Good shelter saves feed, aids in northern winter. Good shelter saves feed, aids in noeping the stock in condition, and is in every way profitable

Keep the draft as low as possible, but not so low as to cause injury to the shoulder point by
collar pressure. King says in dealing with the attachment of the traces to the hames at the weight to best advantage in draft, it is important weight to best advantage in draft, it is important should be as low as the comfort of the animal and other conditions will permit. When the traces are low at the shoulder there is less lever-
age for the draft to raise the horse ofr his front
leet, and hedce his weight counts the same hence his weight counts for more. For vith a relatively long body has greater leverage or his weight in dra

Bping Out the Hopses.
Those who have been privileged to visit the
large horse shows in the old land are frequently large horse shows in the old land are frequently large portion of the prize money, that the owners
of a few animals often with only one entry are very numerous, and that some of the very best cydesuales in Scotland come from these smal studs. How different have been our large exhibiyears. In the open classes of every prominent draft breed the fight almost invariably simmers
down to a contest between the entries of the large breeders and importers. Even in the classes lor Canadian-bred stock, horses from the large with such regularity that many of the young breeders-the men with one or two good mares, young stallions or foals have become discouraged, and leave their stock at home while they go to
the fair and size up the "other fellow's" horses. This is casting no reflections upon the breeders and importers who operate on an extensive scale. They are doing a great swork for horse breeding in Canada. Someone had to launch both time, and money or our horses would never have reachporters and breeders have accomplished this now have some of the best of the various breeds, scale. Foundation stock of necessity had larger imported. There is still room for more imported stock, and new blood will be necessary year after year, but there is no reason why we cannot breed the good ones now instilled into the mast be in the owner of a small number of pure-bred individuals.

There is nothing quite so inspiring as a real interests of the breed-where the horse gets the award, and not the man holding it. There is nothing which encourages the young breeder or the man operating on a comparatively small scale money prizes accompanying them. It is a great incentive for these men. They are sure to increase their business and their enthusiasm is
surely infectious. The next neighbor seeing his surely infectious. The next neighbor seeing his
friend's good work enters into the game also. Soon the whole community is stirred, and dozens of the smaller owners exhibit where one was in line in the begining. This looks very rosy, but
this according to all accounts hapens in Scothis according to all accounts happens in Scotland where smooth-faced youths, early in their against those entered by their gray-h ired elders,
and those of the distinguished breeders. What and those of the distinguished breeders. What
an honor the boy feels as he holds his colt before the judge. What a thrill a win sends through his frame. He goes home determined to try again, and next year perhaps plans to bring out two
or three in place of one, and thus his interest grows. He may bend all his efforts again on a
single entry, seeking to win the highest possibl prize by showing an outstanding individual. It matters not whether he increases his entries
quantatively or qualitatively he makes progress quantatively or qualitatively he makes progress,
and because he, with a small beginning and still operating on a small scale, is successful, others
are encouraged and stimulated to successful elforts.
Our exhibitions are of a high order, and grow found to gret more horses from the amateur
stables. a great work in the interests of horse breeding woult be accomplished. Interest must
be stimulaturd by some means. Judging classes
for sounc macn at the fall fairs should, and we be for vomp nem at the fall fairs should, and we be-
tieve wlit have a good eflect. It will help to inspire
confanu, in tho younger gerention
cause them to put more critical study upon bres)
characteristics (desirable and undesirable points)
Short courses in stock judging as they are carrie on at the O. A. C., and by the County Repre sentatives, will have an effect. It. is a matter of educating the young to the possibilities befor them, just as the accomplishment of all great
agricultural undertakings is hastened by a wider and deeper understanding of underlying principles. Successful horsemen, like successful men in any other walk in life, must understand their business know a horse, interest and instruction are neces sary. Horsemen, especially our younger horsemen, should be given greater encouragement to enter the ring, frst by promoting an interest in the critically, then by colt shows for amateurs, or by some other means which our horse breeders associations should be able to devise, encourage
them to compete in the open classes. Make them understand that it is open the number o horses entered in which the merit lies, but in the quality of the exhibit
A single entry, if it is or a high order, is just as creditable to the beginner as the scores of the
show-yard veteran. When the beginner brings his colt, insure his coming back again by good, fair just, treatment. If he is to make a horseman of
calibre he will not grumble at just defeat, but calibre he will not grumble at just deleat, but will put forth ex extra effort to bring out a
better entry another year. But if he has the better entry another year. But if he has the
goods and the judge shows favoritism and he loses out, the chances are that he will be dis heartened. The show ring is no place for egotism.
It is no place for sore heads. The showman It is no place for sore heads. The showman
must be able to see the faults as well as the good points of his own as well as of his competitor' animal. Fair, honest judging, more classes for the amateur, and a better knowledge of horses should bring more horses into the ring, and mor
owned by the younger and less experienced showmen.

## Gipls. Ride Hopseback

## Editor

The Farmer's Advocate ":
In the great rush for motor cars now going o many farmers are investing in them, and many more, especially the young people, are wishing fo pense is not too great, still the whon the ex yet a rich man's luxury and the rank and fie the farmers must do without them

I would like to call the attention.
people. especially the cirls to the youn pleasure within the reach of almost possib girl or boy, one that is even more fascinatin


Who Wants an Auto
han motoring. I refer to riding on horsebach If you have a colt with a strain of light blood in
fim, break him to the saddle and see whint pleas ire illustration shows Miss Agnes McGrego Toronto, on her favorite colt, Lidy Bety Leall, Ifalton Co. Ontario, she indurey 1) and John I). MrcGregor to break in this coit ,


## Plowing with Four Hopses

## I Naticed in a September issue of The

 I noticed in a September issue of The Farmer'sdvocate, $\mathbf{R}$. S. asked for information regarding the working of four horses on a double-plow without driving one on the plowed ground, and in nswering him you did not give him much enouragement. Now, I do not know who wrote d in The Farmer's Advocate before, and alws accompanied with a similar reply. Until this ummer I always believed the explanation you $\underset{\text { wrong. }}{\text { give, }}$
Last
st summer necessity compelled me to pur aser a two-furrow riding plow. It is made by a very well-known Canadian firm, and turns two welve-inch furrows. I never have tried to drive fewer than four horses on it, and it gives perfect
satisfaction. I did all my plowing last spring also a field of sod in July (heavy land, too), and my skim-plowing this fall, and have had the four horses on the job as much as six days at a time without a change, and I have not had the fllst leg on any one of my horses. This statement can easily be verified by several of my neighbors who have seen me do the work I speak of. If ou have the right kind of a plow you need have it without driving ong on the plowed horsund. on have four good average-sized horses, two of them would weigh $1,500 \mathrm{lbs}$. each, the other pair each between 1,200 and 1,300 , and all of them of medium type, not very blocky and not up-stand-
ing. Just here let me state that when I work there is always enough open space between my horses to allow a couple of hundred pounds more flesh on each horse without crowding. I place the bridle almost directly in front of the beam. At first I expected this would pull the olow cornerwise, but it does not. I can't ex plain what keeps it running straight, but it cism regarding side-draft, In regard to the critihorses walk very slightly sidewise, but so little that it is scarcely noticeable and not enough to the large double-tree being rather is caused by there is room to adjust the bridle still farther o the left, I could use a longer double-tree necessary. This side-draft does not tend to pull tried the plow I put of its place. When I first ground, and had the bridle in front the plowed beam, and the furrow-wheel would travel righ not turn its the furrow, thus the front plow did off-horse in the furrow the furr soon as I put the to the land, or nearly so, and the front plop took its proper width. This furrow-wheel can be adjusted (by means of a convenient little lever) to keep the plow from at any neeessary angle land side, but this is scarcely too far to the plow runs about straight.
W. PICKELL.

## LIVE STOCK

Increase the steer's ration as the feeding per

Use the currycomb freely on the fattening cat-
tle. It pays.
Keep the feed passages free from litter and the
entire stable clean.
Feed the fall calves milk while it is warm
Cold milk causes scours

Nearly five dollars per hundredweight difference
betwcen the price of cattle between the price of cattle on Chicago and on
Toronto markets recently

Ram lambs and shearling rams require macre ing ewes. They are more restless.

Pigs properly managed are one of the poost cessary is comparatively stock. The outlay Turn off the farrow cow and fill her stall with here is profit in keeping cows which conceive one Do not force the pig to take too much water
in his food in cold weather. It requires consid-
erable energy to raise the temperature of the wa-
ter to that of the body and an excess means
waste of food. waste of food.

Pulped roots have no substitutes in the feeding of the calves and young cattle. Mixed with
silage and a little grain, they make about as good substitute for pasture-grass, as far as su
culency is concerned, as winter-feeding affords.

Did your fall litter come into the world in a nest of leaves in the woods, where the sow was
"beech-nutting" for a living? Not the best con-"beech-nutting" for a living? Not the best con-
dilions for sow or litter. Young pigs suffer greatly from cold rains and early snow, an
should by all means be comfortably housed.

The old sow may yet be more valuable as a breeding sows in the country are fattened up and slaughtered just at the time they are coming to
their best as breeders. An old sow tried and proven is more reliable than a young one untried. proven is more reliable than a young one untried.
Older sows are usually better breeders than the
very young sows. -

Housing of the cattle is an important item ind
the economy of beef-production. The Farmer's the economy of beef-production. The Farmer's
Advocate and Home Journal of Winnipeg says: The almost universal complaint that there is no money in beef cattle is due to the fact that the most expensive means of rearing and housing the
cattle is employed.
Profit cattie is employed. Profit will be made not
alone by increasing growth or feeding capacity but in cutting down the overhead charges.

## Foot Rot in Sheep.

The first indication of foot rot is a certain de-
gree of lameness in the animal. If he is : caught gree of lameness in the animal. If hei is caught
and examined, the foot will be found hot and tender, the horn softer than usual, and there will
be enlargement about the coronet separation of the hoof from it, with portions of the horn worn away, and ulcers formed below,
with a discharge of thin foetid matter with a discharge of thin footid matter. The throw out fungous granulations, and separate the koof more and more from the parts beneath, un-
til at length it drops 11 this in
Alu this is in consequence of soft and marshy pasture. The mountain or the down sheep, the
sheep in whose walk there is no poachy ground if he is not actually exposed to infection by means of the poisonous matter, knows nothing at
all about it ; it is in the yielding soil of the low country that all the mischief is done.
Betore proceeding further it is necossary we
hould understand the composition of the foot which presents a structure and arroangement of parts well adapted to the natural habits of the which are shod with a hoof, composed of different parts, similar in many respects to the hoof of a
horse. Each hoof is principally composed of the along the outside of the foot, round the toe , and turning inwards, is continued about half way back between each toe on the inside. The sole fills
the space of the inferior surface of the hoof becoeen these parts of the crust, and being assuming somewhat the structure of the substance of the frog in the foot of the horse, and perform-
ing at the same time similar functions. The whole hoof, too, is secreted from the vascular iissue underneath.
Now this diversity of structure is for particular purposes. The crust, like that in the hool of the honse, being harder and tougher than the
sole, keeps up a sharp edge on the outer margin,
and is mindy intended to resist the wear and and is mainly intended to resist the wear and tear to which the foot of the animal is exposed.
The soft pasturage on which the sheep is occasionally put presents hittle, if any, of that rough rric
tion to
tion intended to be exposed. The crust, therefore,
arows unrestrained until it either laps over the grows unrestreined until it either laps over the
sole, like the doose sole of an old shoe, and serves sole, like the doose sole of an old shoe, and serves
to retain and accumulate earth and fith, or is
or broken off in detached parts; in some cases ex
posing the quick, or opening new pores, into which particles of eorth or sand force their way
until, reaching the quick, an inflammation is set until, reaching the quick, an inflammation is set
up, which, in its progress, alters or destroys the whole foot.
The finest and richest old pastures and lawns are particularly liable to give this disease, and
so are soft, marshy, and luxuriant meadows. exists to a greater or less extent in every situa-
tion that has a tendency to increase the growth of the hoofs without wearing them away.
Sheep that are boumht from an upland range hasturage are more particularly subjected to
This is very easily accounted for. By means the exercise which the animal was compelled to take on account of the scantier production of the
npland pasture, and also in conseguence of the
greater hardness of the ground, the hoof was
worn down as fast as it grew; but on its moist and new havitation, the hoof not only continued to grow, but the rapidity of the growth was much increased, while the salutary friction, which kept together removed. When the nails of the fingers or toes of the human being exceed their proper length they give him so much uneasiness to intion they break. If he pares them after operhave broken, the inconvenience soon ceases and the wound heals. When, however, the hoof of
the sheep exceeds its natural length and thick ness, the animal has no power to pare them thickbut there long continues a wound, irritated, and induced to spread, by the exposure of its surface, matter into ituction or forico
The different parts of the hoof, likewise de-
prived of their natural wear, proper proportions. The crust, especially, grows of long; and the overgrown parts either break off in irregular rents, or by overshooting the sole
allow small particles of sand and dirt to enter into the pores of the hoof. These particles enter reach the quick, and set up the inflammation already described and followed by all its destructive The
There is another circumstance whick tends to
produce disease in an overgrown length to which the crust erows changes complete ly the proper bearing of the foot, for being exsunderincumbent parts. By the continual pressure
sume the the superincumbent parts. By the continual pressure
on this lengthened part, inflammation cannot fail to commence. The progress of the disease is not equally rapid in every instance; sometimes it goes to a certain extent, and the foot to a con-
siderable degree recovers. All the feet may not siderable degree recovers. All the feet may not
be equally affected; the for-ones, however, are always the most liable to disease, on account of the additional weight, which they carry. Some-
times there is only one foot affected, and that is sure to be a fore-one: sometimes only the hoot of one foot and occasionailly one speedily heals while tho other continues to get worse and
worse.
In the first stage of the disease there is often found nothing but a little over-shopting of the edge of the crust, and which is bent in upon the sole, or the edge of the crust is forced asunder
from the sole, and a wedge of earth is introduced which presses upon the sensitive substance beneath; but at other times the edge of the crust continues to grow until it envelopes the whole of
the sole. It is seldom that there is inflammation enough excited to throw off the whole hoof at once ; but it separates at different parts, and at each part of separation there is a new horn formed ; this, although soft and unhealthy, and not capable or sustaining pressure, covers, and to a certain degree, protects the sensitive parts be-
neath. By degrees, from increased and long con-
tinued irration tinued irration, the parts are no longer whle to secrete even this weak horn, but small lumps of
proud flesh sprout out, and then the work of destruction proceeds in earnest.
This is the usual progress of the disease, bu at other times inflammation seems to be set up at once over the whole of that division of the
foot; and there is considerable swelling about the coronet, matter is lormed, it breaks out, sinuses or openings run in various directions, and the
whole of the hoof is gradually detached. upper part of the space between the hoofs becomes
inflamed and swelled, the whole of the inner sur face of the pasterns is whole of the inner surcommences, it eats deeply, spreads on every side and upwards-and the toes are separated from
each other almost to the opening of the biflex canal. That canal becomes inflamed-proper inflammation of it is added to that of the sensitive parts beneall contains pur out a large quantity of tallowy matter, which flows over the fore part of the foot and between the hoofs, and assists in the accumulation of filth by its adhesiveness.
Professor Brow, an eminent Scottish agri-
culturist recommends a very effective caustic so-
lution made by mixing together equal parts of The diseased horn should be carefully without bleeding; then the fungous growths are to be freely moistened with the caustic, after which a dressing of tar is sometimes best applied Paring and dressing require to be repeated at least once a week for a time. Where a large number of animals have to be dealt with, the metkod of driving them through a shallow trough is sometimes adopted. Yet this-is of no use if the feet are not cleaned and pared. The solution, which should not be more than one and a half inches deep in the trough, may consist of one
pound of blue vitriol dissolved in one and one half gallons of wate
be turned onto ing is used the sheep should not mediately aflerwards, but kept standing land imhours in a dry yard or shed, the floor of which might be covered with lime or mortar. In adalways well to give the of the hoof itself, it is Common salt, give tram, sulp internally: ai dram; nitrate of potash, half a dram ; mix and give once a day
In serious cases where the deeper structures of
the foot have become infected, the foot should be the foot have become infected, the foot should be between the digits or claws, pieous of tow preriously soaked in the dressing.
shepherds consiats of sulphate of copper comblish witk turpentine and lard, the proportions being sulphate of copper, 1 oz.; turpentine, 1 oz.; lard, all pound.
and restrains the formation of excessive aringent, tions, which some folk call "proud flesh." granulaFoot rot is indirectly contaglous. Any cases f lameness should straightway be looked into.
England. T. BURROWS.

## Some Disease Detepminants.

Stock breeders and feeders must ever be on rise where it is necessary to and occasions often knowledge in order to be able to diagnose a case properly, and to determine its severity as well as man recently puiblished a report by Dr, Chas. D. Folse, of the Missouri Valley Veterinary Associesome of the common troublesome diseases were fully discussed
Demonstrations of the ophthalmic (eye tost) and the intradermal tests for tuberculosis, diasosis of hog cholera, the use of anti-hog cholera disease, constituted the features of the meeting Interest centered in the tuberculin demonstrameans, and it is probable the results obtained will within a short time become the ofncial method over the whole country, because of its simplicity and inexpensiveness.
As all stock owners know, the temperature
method of tuberculin testing now in use entalle method of tuberculin testing now in use entaile occasions considerable burden to the stock owner,
who is compelled to submit to it to ship stock who is compelled to submit to it to ship stock interstate or across the border. Temperature hours before the injection of the tuberculin. ginning at the ninth hour after injection, peratures must be taken at two hour periods until tween the maximum temperature before injectlon and the maximum temperature after injection con stitutes a reaction or positive evidence of tuber perature test is burdensome and expensive.
The ophthalmic test consists in introducing
small quantity of tuberculin into the eve of the animal to be treated. This is accomplished the making a dilution or salve of it. Within eight
teen hours afterward, if the animal be tubercular,


Ottawa Winners
First-prize pen of Oxfords, at Ottawa, 912. Owned by E. Barbour, Erin, Ont.
there appears a marked inflamation of the good formation can be obtained of suitable mombrane of the eye and a chamation of of the
charge. If the animal be not tubercular ther will be no disturbance whatever.
the loose folds of skin cons one side injection into small quantity of tuberculin. The injection is made at the point named because the location olfers opportunity for comparison with the posite side. The injection must be made into tubercular, within forty-eight hours after injection there will appoar at the point of injection a well the animal will ditepley-in amamatory nature, and of the tail. If the animal be not tuberoular there will be no disturbance at all.
phity-eight head or cows were given the phhthaimic test, January 31st. of that number taneous test. Six reacted to the ophthalmic test but only two had reacted to the subcutaneous ot tuberculosis in in exy of the reatory lesions one which did not react, none showed any leaions Those results tend to indicate that some cases o tuberculosis may be detected by the ophthalmic method which may not bo detectod by the subeupossibility of error in the results.
Forty-two head of cows were given the in tradermal test January 30th, one of which reviously been given the subcutaneous test, and the rame animal had reactod. Post mortem axamination disclosed ample evidence of tuberculosis. O the animals which did not reiect, nooe showed any rradermal test is comparatively accurate.
rom other eorverimentar results were obtaine Trom other experimenta, and. Dr. W. .R. Morenher,
Pathologist of the Bureau or Animal Thdustry Ptathologid of the Bureau of Animal Industry,
tansive tests of the two methods would be made with a view of estatalishing one of them as the offlcial governmores th Mhis ehiss an fifteon thousand cases recantly with 98 per cent of correctness, and Dr. S. Sheldon, state Veterin arian of Missouri has stated that he believed the Missouri within a short time.
In spaaking of the intradermal teet Dr. J. H Reed, Profossor of Veterinary Scientce of the On was referred; says : "it is much less troublosom and less expensive than the hypodermic test but it requires much greater $\begin{gathered}\text { kill } \\ \text { and care in in injec- }\end{gathered}$ tion, and the symptoms carried in tubercular animais probably not so dofnite, at the same reasonably dofnite." Dr. Reed has never prac ticed this method, but has learned that the system is liabbe to cause an enlargement even in oarlior and subsides much more quickly than in diseased animal. With the hypodermic method he has never known a healthy animal to react known a diseased animal will not react is it not think that any mothod is infalible but the hypodermic and I believe the intradermal methods make few mistakes," concludes Dr. Reed.
The meeting of the Veterinarians also
Hog Cholere and the serum treatment Hog sufferng from cholera and those affected with plague were killed to illustrate the similarity of
the lesions. It was also pointed out that worm frections of the bronchial tubes might be mis taken for cholera. Many of the ill results from ion in herds which have another disease than expected. It was also pointed out that the serum is is often
results.
The cornstalk disease has as yet no satisfac tory treatment further than drastic bowel stimulants in the early stages, and change of feed im-
mediately the disease appears.
The mould mediately the disease appears. The mould on
feed stuffs is believed to be in a measure responsible for the disease, but the mould is not diseaseproducing until certain chemical substances are
present in the food itself. It was suggested that present in the food itself. It was suggested that
soil and climatic conditions may be responsibile soii and climatic conditions may be responsibile
for the presence of this chemical substance in the food at certain times. It was also suggested that corn could very often be made safe
ling and remeving the mould by fanning.

- Make Beef Rapidly

When beef is furnished by calves suckled o
heir dams, they must be pushed rapidly ahea their dams, they must be pushed rapidly ahea
from the day of birth. During the mursing per iod they will take practically all the milk of the
dam, except for a feew weeks at the start, and
thev must be allowed to take the same for aut they , thust be allowed to take the same for now
less than six to seven months, or until the tim
good formation can be obtained or suitabie
age, the dam can suakle two calves quite well age, the dam can suckie two calves qualy fod,
when the calves are given suppementary
that is suitable from the time that they are able to take itable from the case supplementary food,
to such as oats and oats and sran, shoul
soon as they will eat the same. It is imperative that they shall be given food right along that will keep them growing rapidly, and that they shall be turned of at an early age, say between
the ages of 12 and 24 months. These calves the ages of 12 and 24 months. These catve though not neecossarily pure, and they must go to
the market in high condition. The proft from them comes in groeat part from the high prices that are paid for them, because of the high quality of the beff.
Journal, Winnipe

## Dual Puppose and Daipy Beef

## A few years ago a man who stated that dairy

 cattle could be used to supply beef for the table is now beginning to the scarcity of the beef type some of the typo of calves which heretofore were kept for baby beef. There seems to bo no reason why cows should not be used for the production of meat and milk. Prof. Shaw writing Winnipeg Man's Advocate and Home Journal "Beof will be the dual types, as the milking shorthorn, the Red Poll and the Brown swiss, and, in fact, from any cows of good frames where mated with a boef es the straight dairy cow, the milk is usually considered too valuable to be fed to calves in the whole or new form; it is fed to them as skim milk. If the proper adjuncts are given at the along that they will be nearly es larce and heaves at a given age as calves from straight beef dams. Beef thus grown will pay the farmer better than calves, but the element of labor must not buckle their looked. A very large part of the beef supply of the future will come from this source. Fortunatoly, after the calves are two or three weeks old,skim milk with some oil about as well as new miik meal serve them "Some beef will come from straight dairy sources. It was the custom in some dairy sections years ago to kill all, or nearly all, the they were born. The sole object sought in such reproduction was to freshen the cows. The day is coming, however, and now is, when it will pay
better to grow such calves into some klind of baby meat. If sired by beef sires they can be grown to a greater age with profit than when of
straight dairy lineage on the side straight
and dam.
".Calves
"Calves of the latter veal when a type will sometimes be be more profit if they are sold old but there will months old. When thus grown the milk fed after two or three weeks may suffice almost as well as new milk, if the adjuncts are judiciously fed.
These adjuncts may consist of various meals These aljuncts may consist of various meals, but
oil meal and corn meal are probably best adpted to produce that fat and plump condition in which
they can take the market at a profit. As they grow can take the market at a profit. As they
grom the selling age named, they regrow away from the selling age named, they re-
vert more and more to the dairy form. They dose that plumpness which heavy feeding will give to them as calves. When they are from beeel sires
they will retain the beef form for a much longer

## THE FARM

## Will a Spreader Pay?

The season for the most frequent use of the manure spreader is approaching. Many farmers doubt its economy on farms of less thang. Many acres. All are aware of the great advantage in extra evenness of scattering manure with the spreader. Most farmers realize that a given spread in this manner. The advantage is when cially great on meadows where coarse bunches of straw are a nuisance in the hay corrse bunches of
Farm management investication Farm management investigations on a number
of farms in Minnesota indicate that the spreader will make a fitiancial profit on any farm which
list ributes 250 tons or more par yorm



farm which has 22 cows, 16 head of young sto d Peck, of Minnesote
Alberta in the Lead at Lethbridge Dry Farming Congress. Of the seven annual International Dry Farm-
ing Congresses so far held, that which was ing Congresses so far held, that which was recontway the most successful. Approximately $2,60 \mathrm{n}$
noted representatives were noted representatives were present from many the States of the American Union, from Gront Britain, Australia, South Africa, India, Turkey, China and Mexico, Alberta led thesila, with 1,898 delegates.- Saskatchewan had 111 British Columbia 93, Manitgba 44, Oklahome 25 and Ontario 28 . Delegates from these provinces, did what methods needed practically all over the world are those urged by the Dry-Farming Congress-simpl good and thorough farming.
breaker for the display of all kinds only res from the dry-farmed area was phenomenal.
Practically all crops from cotton or rice to
corn and pumpkins were in evidence everywhere. Alberta carried off the lion's share of the where. with Saskatchewan a close second in cereals Henry Holmes of Raymond won the Sweeptat award for bushel of wheat on a sample of loar quis, while R. H. Carter had similar honors with Red Fife.
Fifteon nations were represented, and good
wishes came by telegram from many more. The officers elected are as follows:
well, Minister of Agriculture for W. R. Mother International vice-president, Dr. John Widatoe Corresponding secretaries, British Columbia, W/ E. Scott, Department of Agriculture, Victoria culture, Regina ; Alberta, Geo. Harcourt, Depart ment of Agriculture, Edmonton ; Manitoba, Proi S. A. Bedford, Department of Agriculture, Wiani ${ }^{\text {peg. }}$ Pro
ed as follows: Manitoba, Dr. Hughes; Sasketotict wan, Prof. J. A. Bracken, Saskatoon : Alberta Hon. Duncan Marshall, Edmonton ; British Col
umbia, Hon. H. Bostock, Victoriá .'Kansas, Prol A. M. Jardine, Manhattan : Washington, Darfo Morgan, Spokane ; Arizona, R. A. Fredericks, Prescott.
Even a
Even a brief survey of the long rows, huge ducts at Lethbridge was an inspiration. A mai with any love for farming could spend days to advantage, all the time becoming more anxiou to produce something as good or better. It is
difficult to particularize. Perhaps Marquis whont was the sensation of the show. In the thresho grain class there were 42 samples. When the judges made preliminary examination they had A more scrutinizing considered about perfect. number to scrutinizing examination reduced the unassuming farmer, Henry Holmes, was found to have won top honors. Later he won the sweep-
stakes award, a $\$ 2,500$ Rumely engine, offered for stakes award, a $\$ 2,500$ Rumely engine, offered to the best bushel of hard wheat at the show. In Fife sample shown by J. A. Johnston, of Wool Creek, Alta.) and by P. C. Hansen's (Pinche to weigh 68 pounds to the measured bushel, being about two pounds heavier than the other prize samples. It was not as uniform as the others, high in milling value. For sheaf of hard wheat the outfit offered by the Stewart Sheaf Loader
Co., went to R. H. Carter, of Fort Qu'Appelle, Sask., on Red Fife.
In oats also there was keen competition. First In oats also there was keen competition. First gang of Oliver plows,went to Joseph Lanigan,
Elfros, while T. P. Conlan, of Moose Jaw, carried off the $\$ 100$ silver cup offered by the Continental Oil Co., for the best bushel of oats grown on
dand plowed, seeded, harvested and threshed with dand plowed, seeded, harvested and threshed with
machinery using gasoline or oill fuel. machinery using gasoline or oil fuel.
British CColumbia carried off most of the big
honors with honors with a fine fruit.exhibit. The commercia
packages were particularly striking. The $\$ 400$ packages were particularly striking. The $\$ 40$
silver cup donated by the Manitoba Government was awarded to a B. C., and a Provincial sweep
stakes on boxed was awarded to a B. C., and a Provincial sweep-
stakes on boxed fruit, and a sweepstakes for
potatoes was won by the same Province, which
captured one special, sixteen firsts, sixteen sec-

 the Carialian provinces and the northern states,
Tn threshed grains and grasses Alberta took
sixteen firsts, nine seconds, and three thirds; sixteen firsts, nine seconds, and three thirds;
a askatonn one first, three seconds, and seven
thinds: Wanitoba one third; Washington, two
tirts

In sheif awards Alberta led with ten firsts seven seconds and eight thirds; while Saskatche Manitoba one second, and one third, and Orego tate one first, and two seconds.
Of the special prizes Alberta took seven firsts askatchewan five, Oregon State four, Washing Utah one, and Manitoba one State two (cotton) of the Grand Sweepstakes Alberta captured And Saskatchewan three, Oregon one, and B. C., Judges entrusted with placing the cards were : W. C. Mckillican, of Brandon; F. H. Reed, of Regina; G. C. Armstrong, of Winnipeg; M. homa ; P. K. Blinn, of Coborado, and G. I. Lew is of Oregon. Oklahoma was chosen as the meeting place of the Congress in 1913 .

## Sweet Clover

Considerable is being written abrout sweet Agver. Here is what the Ohio State College of "Sweet clover, a much condemned plant, is at last coming into its own. For years farmers
have looked upon it as an obnoxious weed, and its native habitat has been neglected roadsides cinning to see great possibilities in this plant. It is highly recommended as a. green manuring crop, and in Kentucky and Illinois some farmers are growing it in the place of alfalfa as a feed are making a study of its culture and use. There are two varieties of the sweet clover, or melilotus as it is rightly called, the white and yellow. The white makes a ranker growth, and is recommenthe yellow is grown for forage. The farmers of the eastern and southern states are making the greatest use of this crop, especially for renovating
wornout lands. One leading seed frm in Ohio eports that the demand for melilotus seed has ncreased 125 per cent. du price as alfalfa seed It will grow on nearly any kind of land, and an qere. Prgessor V. H. Davis, of the Collese of
 The rank growith is mowed down and osed as a it thgen is added to the soil through the action and tre decay, of, the crop supplies large
and tiantities of humus., quantities of humus.
Prolonged wet weather seems to be the out standing characteristic of the present season in
North America and Britain. In Western Ontario it has beenn the worst summer for getting work done within the recollection of the oldest inhabilant:. A wet seeding was followed by a drouth fontinued deluge, with only a few brief periods ing ran into silo-filling and silo-filling was near to be duc and apples to be picked when the first now-storm ushered in November, while compara-
and starting the Unhooking the tugs at dusk and startiog
team towards the barn, the November plowman instinctively cons these lines from "The Cotter's
 The miry beasts retreating frae the pleugh; The toil-worn cofter frae his labor goes,
This night his weoky mơt is at añ end, Fortects his spades. his mattock ant - his hoes,
1Toping the mory in ease, gndjrest, to spend, does hameward bend.'

## THE DAIRY

Type, Quality, Constitution, and roduetion.
1 ust which of these four is the strongest point connection, with the, dairy cow was rather the it to glean from watching the judging of the Uy held in Chicago, III. Almost invariably.
ov lacking in the recognized type of her breed ; left outside the money, but occasionally one e distinctly of in type, but showing constituand top. The in some of the breeds nothing
t animals of the highest quality headed the list ve means to a certain extent quality. Then sume classes were led hy the big, robust kind,
:uving plenty of barrel and great heart girth.
with in some cases none too much indication great productive qualities. Then the what in particular outside of a great udder, large, tor tuous milk veins, pointed shoulders, open chine, etc. We must admit that it is rather confusing All dairy cows, no matter what the breed, are kept for milk, therefore it would seem that those should always eof first. But a cowy production should always go first. But a cow may be a enough constitutionally to be a great cow. There is a limit to forcing milk out of a strain of dairy cattlenstitution must be considered or the in this respect as to be poor producers. so weak constitution does not necessarily mean a coarse individual. An animal may have a fine head and yet have a strong muzzle, she may have a good spring of rib, great heart girth and large
barrel and still have a fine shoulder ; she may be strong in the hind quarters and still carry large, well-balanced udder, with nicely placed teats, to which lead long, large, tortuous degree milking qualities, productive qualities and constitution, and to accomplish all without departing from the best types of our dairy breeds. Such a cow embodying all these qualities is to produce her. The point is that producing ability should not be sought at the expense o constitution. The judge of Holsteins at the show previously mentioned placed the strong animal up these animals had quality and breed type, along with strong, robust bodies, and when it came to championships in each case the animal with constitution to back up production (which was breeders follow the system which he followerl there is little danger of our dairy cows becoming weaklings.

## A Bic A Mopth Milker

Rosatid of Old hasingith Me Persey cow (out of an imported dam flutatea in this lssae, soems to have made ay teputation for herself and plucky Eniglishman who at 27 mears of aye, plucky Enghishman Who at 27 years of age, soine ten years g so and settled in Centrai M1berita. He went into dairying building ny a
herd by rigid selection, and this particular © w herd by rigid selection, and this particular ecw the local Board of Trade some time ago gave a banquet in hotior of her ladyship and owner. In a reported three-year test, recently completed, un-
der theirules of the American Jersey Cattle Club, der the rules of the American Jersey Cattle Club,
and directed by H. S. Pearson, Alberta Departand directed by H. S. Pearson, Alberta Department of Agriculture, and authonticated by Or Mar-
ker, Daily Copnilisioner. the following thrilts were recorded :
dosáaind of ota Baxing

Highest milk yield in one day, 52 ibs . Highest milk yield in onte month, $1,171 \mathrm{t}$ ths Average butter test, 5.16 per cent. Butter in one year, $1,031.89 \mathrm{lbs}$.
Butter in three years, $2,504.39 \mathrm{lbs}$ Butter in three years, $2,504.39$
Milk in three years, $37,547 \frac{1}{2}$
los. Actual returns for cream and skim milk in three years, $\$ 1,007.50$.
This record for butter production, it is claimd, places Rosalind of Old Basing in the proud position of champion of the British Empire. Be Rosalind's production revenue from tnie sale of produced three heifer calves, for which her owner has been offered and refused a high figure.
Rosalind's owner is a farmer of moderate
means, whose sole source of income is his form means, whose sole source of income is his farm,
and Rosalind, with the rest of his herd, was hand led solely for profits, rather than for championship honors, the cow under test receiving exactly
the same ration and treatment as the rest of the the sa.

## Milk Fat and Money.

Following some recent correspondence in these columns concerning prof. Deen's well known pla of paying for eheese-factory milk on a basis of subjoined paragraphs from a letter recently con tributed by R. M. Ballantyne, of Montreal, to the New York Produce Review. Mr. Ballantyne was replying to a letter by J. H. Monrad it cism by asking how much the makers would got for a "real hard skim cheese." In reply to this point, Mr. Ballantyne asks what kind of a chees
fat alone would make. Proceeding he disousses fat alone would make. Proceed
the subjeet in this sensible vein
and the ground has been so frequently covered and the weight of cheese produced from diferent milk ascertained, so that it is not necessary to
 chese in inproporition it to the roperoentage ofitatig that, iffica farminds in paid fovifat slonelnheile mot
 cheese. made from whoter mills itin vwhicht thepe is in
 othdro wholer mink; ; cmould ' melkeh endiferent ionifine? fullegt, qupprtynity of furdginic, and I fontend, thot, so long as the chede. Mr mpade from the whole
 ent. of fat or 4 per cent. of fat. In this country wo have two provinces that Ontario ang producers of cheese, the provinces of
 than the herds in the Provice of Oiffitio of a



POOR
COPY
have daily opportunity of examining them ；and， though it is true that the cheese in the Province those of the Province of Ontario，it is also true that there are many first－class makers in this province；but I do not know of a single case
where the cheese of the Province of Quebec，made as it is from mitk containing a higher percentage
of fat，would sell for more money than the cheese of fat，would sell for more money than the cheese
of．the Province of Ontario．I may also say further that we have had during the past year the cheese of a factory in the Province of Ontario where the milk was divided into two vats，one
containing the milk of Holstein cattle，and the
other containing the milk of the patrons who did not have Holstein cattle．The difference in quality of milk contained in the vats varied，of
course ；but averaged something like 4 per cent． course；but averaged something like 4 per cent．
difference，and these cheese kave shown to experts continuously throughout the season without in any case having the most expert judge decide that the cheese from the Holstein milk was in any way
inferior to that made from the other milk ；in fact，frequently the decision was that the cheese made from the Holstein milk was the better of
the two． ＂Now，if cheese made from the whole milk con－ taining different percentages of fat，when made
under similar conditions，and with equal skill，are ander similar conditions，and with equal skill，are
salable at equal prices，then the farmer should paid for the weight of cheese that his milk will make，and not for the weight of fat contained in
t．Mr．Monrad tries to make it appear that Pro－ essor hean＇s．Contentions are erroneous，because cheese makers of Canada，but anyone closely in touch with，the patrons of an old established and it is simply because the largest and most progressive patrons of the factory have devoted themselves to large production of milk，instead of
increased percentage of butter fat，and the largest． increased percentage of buttor fat，and the largest
and most influential patrions of the factory suc－ and most influential patrons of the factory suc－
ceed in continuing the old method of paying for weight of milk alone without any reference to its percentage of fat．They cannot be ingored herefore the system of paying for weight alone
is continued．I enclose the result of some ex－ is continued．I enclose the result of some ex－
periments that were made by J．A．Ruddick， which may be of interest to your readers，and which would show the result of the different sys－
tems．These figures of yield of cheese have been tems．These figures of vield of cheese have been
frequently confirmed by Professor Dean and other xperts．
METHODS OF PAYING PATRRONS OF CHEESE
FACTORIES．
Taken from experiments made by J．A．Rud－


Calculated Yield of Cheese
䪰增哲


| 3.20 | Lbs． |  |  |  |
| ---: | ---: | ---: | ---: | ---: |
| 30.5 | 85.77 | 88.92 | 89.70 |  |
| 3.30 | 91.7 | 88.45 | 90.63 | 91.20 |
| 3.50 | 93.6 | 93.80 | 94.00 | 94.10 |
| 3.70 | 95.4 | 99.26 | 97.47 | 97.00 |
| 3.90 | 100.7 | 104.62 | 100.88 | $\underline{99.90}$ |
| $\mathbf{1 7 . 6 0}$ | $\underline{471.9}$ | $\underline{471.90}$ | $\underline{471.90}$ | 471.90 |

## APIARY．

## Bee－keeping in Canada．

## Editor huen we cast even only a superficial glance Wher

 over the Canadian egricultural horizon，there maybe some dificiculty in stating the exact condition be some difficulty in stating the exact condition
of bee－keeping．This much，however，we know， There is an immense influx into the West by peo
ple who have been lured into that country by pither the results of the labor of those already there or the decision that the country promises
to them what they are looking for which in she to them what they are looking for，which int the
najority of cases is comfort and affluence as far as－this world can give it．They expect two things，a good crop，taking one year with an－
other，and tney expect to reap in dollars or as ets the increase in value of the land which they
homestead and pre－empt or purchase．Their tice is saractly qreain，and their necessities for iv－
ing，or their desires，which are often tuuct ， ing，or their lesires，which are often muct be
yond this，compels them even for food to draw yond this，pompels of the farms of older Caun Ihave no desire to enter into any contro， over this－matter；more，I will not be drawn it：
it．bit it is my＇humble obinion，in my estimal it．hit it is my humble opinion，in my estiona
tion based umon sober iudgment and experionce that the ontario producer of foods is in a me
ury．， considerable measure，reaping the advu nue uf this demind．Also that the spirit of the
idines is is enter employment．where the beaut
ual labor，forgetting or not knowing that the ual labor，forgetting or not knowing that the
decree．，＂In the sweat of thy face shalt thou eat
bread．＂cannot be tignored without its conse decread，＂，cannot bwe in inored watithout its conse－
quences to individuals，and still more to fami－ quences to individuals，and still mure to fami－
lies if it is continued from generation to genera－ lies if it is continued from generation to genera－
tion．As far as actual physical enioyment goos， the individual who enjoys oood，rest and shentler
to the full，is the one who knows what huger， to the full，is the one who knows what hunger，
toil and exposure to elements is．But the far－ loil and exposure to elements is．But the far
off view of the city is fair indeed，and it is only off view of the city is fair indeed，and it ity only
when we can see beneath the surface of city life When we can see beneath the surfiace of city life
that we find less to value in it．
With the siritit of the times there is every With the spirit of the times there is every
likelihood that the production of farm produce is likelihood that the production of farm produce is
going to be an attractive proposition for Ontario
 rive the farmer then is always the man in the
best position，for he can produce his own food． best position，for he can produce his own food．
Coming to beo－keepiog，the prices at presen Coming to bee－keepiog，the prices at present paid for honey makes this industry an attractive
proposition．The demand for honey in Canad is quite equal to the production．Again，bees are well known to be very important agents in
the pollenization of blossoms，from which the pollenization of blossoms，from which come
fruit and seed of value to the farmer This fruit and seed of value to the farmer．
question need not be enlarged upon here．
But why is it that so many have gone into bee keep－ ing and made a failure of the business ？When
we look over sections of country where years we look over sections of country where years ag
dozens of men kept bees we often find none very few in the business now．
Bee－keeping is a business requiring skill，in－
telligence and application． telligence and application．Successful and exten－
sive bee－keepers are not made at colleges and schools，but by coming in contact with the prac tical operations of the apiary on an ex tensive scale．The theory of beo－keeping is onl


Colantha Fayne（17152）．
 ary so much，according to conditions，that no
et rules can be laid down to carry out the seal son＇s operations．For instance，I I once heard an
In address given on the prevention of swarming， Uhen the bee－keeper was instructed to break up
he brood chamber of the hive as he brood chamber of the hive as soon as the
bees built cell cups．I do not agree with that practice，but there $\frac{1}{}$ do not agree with tha advocate such．But it so happened that at that
very time $I$ and others had a lot of ery time $I$ and others had a lot of colonies in
that condition，but the weather that condition，but the weather had suddenly was practically over，and the bees had received a evere check．Cold nights would have made at suicidal to do as was directed．It takes a great in the honey－flow or during the active sation with the bees，and，more，being constantly in
touch with the bees．The bes duch with the bees．The bees need the imost attention at a time when the ordinary farmer
 bues who suffer．When we remember that a col－ now hees left without queen for ten weeks is
又．in the active season is orily some sic want a ypermanent poultry zoo，but we do not and
and
itid demonstrate the best methods
seasons，very profitable seasons，but some of us yos，have been＇in the business over thirty years， are unnrofith shorter time，testify that there erough is got out seasons，seasons where not bare living．

FOUL BROOD．
Then there is European and American foul It has The former is a new disease in Canada． weep theen predicted by experts that it will has swept into the Ottawa Valley，it is in 0 it bec，and it has obtained a foothold in Niagara Peninsula．Anyone doubting my statements need Bee－Keepers＇Assoc：ation to find of the Ontario will more than verify them．Just which or seems to me，to advise men either in Ontario or Quebec to go into bee－keeping，is like advis－ Ing a man to go into hog－production with an
outbreak of hog cholera in the vicinity－only far worse．
Bees can carry the germs of the disease home ong distances．In that sense foul brood has disease ine are told that the reason why this out more effectually is because the and stamped not supply more money for the purpose．I shall let the public judge as to the need and wisdom of such a policy，and whether it is wise to seek to develop，at expense，the industry，on the one hand，and allow those already in it to be wiped
out，on the other，for lack of funds． I had one young man from England West Virginia，and another from Ohio，studying bee－keeping with me this summer．There is felt of the need of ex－
perience and ade－ quate information upon this line of
agriculture，but it will not be a safe
industry，especial－ industry，especial－ paratively inex－ perimced，unt il
$m$ ore effort is more effort is
made
to stamp made to stamp dread diseases． This autumn I
was twice in Que－ was twice in Que－
bec Province．I was for a consid－
erable time in the presence of two
of Quebec＇s foul－ of Quebec＇s foul－
brood inspectors， and secured what information I could about the
condition there， condition there，
and brood and foul brood
has destroyed
manyapiaries many apiaries
there．
For my own part，I have
Said for years
foul foul brood years－
pears to be the pears to be the
only animal dis－
eas gious nature which the Domin－ ion Government
does not see to Why stamping out thereof．Why it not lo
ago contributed to the cost of its eradication？
Brant Co．，Ont．
R．F．HOLTERMANN

## POULTRY．

## Few Breeds Best

An Finglish journal，discussing the best breeds cernedt，this question requires the most careful sideration．It is not what managers or instruc－
tors like，but that which is most suited district． ．We that which is most suited to the
decently heard of a poultry man ager at a Government farm buying a lot of Aseel
fowls， Such a man is we suppose，he fancied them． maches his own undit for his position in that he makes his own fancy the dominant factor．As grese，and turkeys，whichever of the last named

Ke．．．the pullets growing．Give them variety in diet，a hrikht，wellineventater pen，and feed
the whole erain in the straw to insure their tak＝
ing exercise



NOVEMBER 14, 1912

## Foeding the Show Bird.

Leo J. Brosemer, writing on fitting birds for'
show, says under the sub-heading, The show show, says training table
Always feed a variety of foods and often. The wet mash should be well made, mixed with Tkim
milk. A crumbly mash will be relished for the early morning feed when quick digestion is wanted, this followed by a little grian later on
throughout the day, varying the food from time to time and always being guided by the likes and a good plan to mix a small quantity of linseed meal with the mash feed of colored varieties, ittle each day makes the fathers glossy and tem. oft feed, a little raw regular diet of grains and help keep their appetites on edge if not fed in excess. It keeps them rigorous and reddens their
combs and wattles. Green food, such as sprouted oats, cabbage, turnips or mangolds, grit, bone nd charcoal are also necessary to obtain that bloom" on your show birds.
the record kept. If for any cause a week and not gain in weight rapidly enough, it will be found an advantage to add one-half teaspoonful
of brown sugar (per bird) of brown sugar (per bird) to the mash. This
causes them to take on flesh more rapidly, but causes them to take on flesh more rapidly, but
should be fed with care. Cornbread soaked in milk, or hard-boiled eggs will answer the pur pose of meat and ground bone if your males
show a tendency to develop too show a tendency to develop too large combs an
will not endanger the condition of the birds.

The breed of fowls best suited for and depends upon the purpose for which poultry is
kept. If eggs are to be the sole end of profit then get an egg-producing breed, and endeavor t get a good strain of that breed. If a fair egg
production, combined with good meat qualities production, combined with good meat qualities,
is desired, select the general-purpose fowl. On the average farm the general-purpose breeds may be found most satisfactory, and their absence o large combs, such as many of the egg breeds
have, gives them the advantage in cold weal If for any reason the molt has been delayed
until late, be sure to keep the fowls

## GARDEN ORCHARD

## Dynamiting Tree Sites.

On May Farmer's Advocate
use of a was held on the Horticultural Experiment Station farm at Jordan Harbor, Ont., for the pur ing holes for the $\mathrm{O}^{\mathrm{ing}}$ old stumps.

The work was done by- J. B. Moriarty, on be-
if of the Canadian Exriosives Ltd subsoiling, we took a row of trees across the old orchard and put in three rows of charges-one row in the line of the trees, and one row on each
side about fifteen feet from the line of trees. The holes were made by a pointed steel bar, and were made about thirty inches deep. There are
augurs inade for the purpose of making holes, but augurs inade for the purpose of making holes, but
where the bar can be used the work is done much more quickly. Half-pound cartridges were cut in two for this work, and one piece was used in each hole, making the cost about six and a half For making holes for planting trees the same amount of explosive was used; the holes were made in the same manner and same depth.
Care must be taken in tamping the soil in the holes after the be taken in tamping the soil in the
there has been placed. If there is not enough soil used or if it is not
tamped enough, it will blow out a small hole and
the desired end has not heon the desired end has not been accomplished; but
when the work has been properly done the soil wih be loosened from one to two feet below the oriminal hole, and loosened for a radius of from
two to three feet, making it necessary to take with suriace soil. of the subsoil and replace it hory soil, six apple, six pear, and six plum Hanted in dug holes, and the same number
in the save the sate Walted in dug holes, and the same number
Mitmin-planted in dug holes. The trees were
Ther from the same nursery and from the row in that nursery. Cannot report any
rial difference in the seasnn's growth, except Wier in the snring and hent t.ne leadd all soason. he cost of material used in making holes for
nif cents trees will toe - dynamite, three and two cents; cap, one cent; total.

## IHE FARMER'S ADVOCATE

A green BLASTING STUMP
diameter was blown out and the job was coet in
The augur The augur was used in making the hole which hole put well down in the earth stump, and the dynamite was well tamped. or earth on top of plosive used on this stump was nine aine ing sixty-three cents; fuse, about three feet, sixty-six cents and cap, one cent.; total cost, The soil, where the explosive was planting trees, is clay with a very heavy used for the explosion, it and on examining the hole after and loosened, but to make to be well broken up trees it was necessary to throw out some of this red clay and fill in with surface soil. At the or against the explosive ared to say anything for ing or for planting trees, but for clearing subsoilstumps it is excellent.
The dynamite used was a low grade about $20 \%$, costing about $\$ 7.00$ per case of gradte about
fuse sixty cents per 100 feet, hundred.
Care must ber plosive, especially after the cap is in of this ex A. D. HARKNESS

## Nova Scotia Regulates Nupsepy

 Trade.The Government of Nova Scotia has passed a Injurious I'est and Plant Disease Act 1911 of the tically excluding Canadian-grown Act, 1911, pracnurseries from which it comes are, by competen oflicials, declared free from dangerous insect pests and plant diseases. Even then such stock can and subject to certain conditions. certain times gulations apply only to interprovincial trade, in ternational trade being under regulations issued by the Department of Agriculture at Ottawa. ting No. 3, which refers to transportation omitpanies : No imported nursery stock shall be delit ered to any importer or consignee within the companied by a certificate signed by such Pro vincial Entomologist or other authorized Govern
ment officer as is approved by the Secretary for ment officer as is approved by the Secretary for gricliture same the nursery or other premises on the period between the fifteenth day of Junu and he fifteenth day of September next preceding the shipment thereof, and that said mursery or other San sects and pests as have been declared to be in jurious to vegetation by the Governor-in-Counc under the provisions of "The :Injurious Insect
Pest and Plant Disease Act, 1911," provided that Pest and Plant Disease Act, 1911 ," provided that
any importation of nursery stock which has plied with the Regulations of the Department of Agriculture of Canada shall be exempted fror provisions of these Regulations.
shall give notice to the Provincial Entomologist Agricultural College, Truro, within five days Eiving the order for the same, and shall agai val of the shipment in Nova Scotia. Notice shall also be given to the Provincial Entomolo gist by every common carrier, express company or other person, firm or corporation bringing
nursery stock into Nova Scotia for delivery with in the Province immediately such nursery stock is received. Such notice shall include the name of the consignor and consignee, the points of oriperson carrying the nursery stock, as well as the person carrying the nursery stock, as well
5. (1) No nursery stock shall be brought int
Nova Scotia for delivery within the Province cept at or through the ports and during the per to say:

Middieton, Annapolis County, from March 15th to May 15th, and from Octover 7th Truro, Colchester County, from March 15th
to May 15 th, and from October 7th to and at such other ports during such periods as retary for Arriculture. for the Secretary for Agriculture may prescribe which the use of a Dominion fumigation station (2) At the ports hereinbefore mentioned all
imtortations of nursery stock shall be inspecte and fumigated in the fumigation house provide and fumigated in the fumigation house provide
for that purpose, and a certificate of fumigation
will be issued by the Provincial Entomologist. (8) Importations by mail shall be subject the same Regulations.
6. There shall be clearly marked or otherwis3 tended for delivery withing of nursery stock in Scotia the delivery within the Province of Nova sery stock is to be brought nursery stock shall be entirely at the risk shippers or consignees, the Government assuming 7. If,
vegetation or vegetable mursery stock or other fected with San Jose scale or any of the plant
diseases, insects diseases, insects and pests as have been, or may hereafter be, declared to be injurious to vegeta-
tion by the Governor-in-Council sions of "The Injurious Insect Pest and Plant Disease Act, 1911," such nursery stock shall be Inspector to the extent deemed necessary by the the consignee, shipped out of the Province at th expense of the consignee. All cases, packages and packing in which such nursery stock hask been manner. shall also be destroyed in the same

## Seedling Apples and Crab.

T. A. Marrison, Frontenac Co., Ont., sends The Farmer's Advocate samples of a seedling crab apple which he has produced, and has named the Phenomenal. The samples received are specimens still the size of ordinary crabs and some and the other yollow. One side is a light red Marrison says with more sunshine the, but Mr. would be red with streaks or splashes Hel a dozen of the specimens were turned over to a of our readers, a capable housekeeping expert, for trial, and her report is very favorable. The large size is regarded as a decided advantaga, ther being less waste of skin and core, which make up great part of small arieties. Preserved or coxted whe a syrup in the usual way, the late or grain was fine, fiavor rich and deliclear goldn. sai tof the preserve and, jelly a


Two Siladard Seedlings.
On the left a dessert apple, and on the right a winter
variety called Frontenac. Reduced in exactly one-haly diameter of photographed

Transcendent or Hyslop. Several persons who sainpled them on the table certify to the excelof skin, where left on in the preserve, was also Mr. Mar cate samples of two sends The Farmer's Advc-
others of his seedlings winter apple named, "Frontenac," and a dessert apple, "Red Rose," neither of them, he exsert plains, properly colored. The former should be


The "Phenomenaly"' Crab. ' tait on Reproduced from al photograph"..of' the 'lipge il and Reduced to exactly one-hals diameter
ther should be very dark all over, with red (which is, of course, much less than half size), will give some idea of the appearance of the uit, concerning which Prof. Crow, of the Ontario Agr
follows :
ate pearance, but is not yet mature attractive in appearance, but is not yet mature enough for us
to judge of its quality. I should like to see to judge of its quaaity.
specimens later on in the season
"The apple called Red Rose
"The apple called Red Rose is attractive in exterior appearance and of unusually good flavor. I doubt, however, if the pink flesh would be an
advantage on the market.
Personally, I should advantage on the market
consider it a drawback."

## Another Potato Scalo

The line-drawing below is made from a potato
Botanis Experimental Farm, Ottawa. It is intended to illustrate the European potato disease called
Corky Scab, an affection not hitherto known to exist in this country
While bearing a resemblance, to the common cab-Oospora scabies-this disease, judging from


Corky Scab of Potatoes
in the generally smaller and more pustular form shreds of the cuticle.
It would be interesting to know how widely this scab is distributed. People who have pota-
toes which, from the description given here, might be suspected of being infected should send a

IHE FARM BULLETIN.

## The Winter's Food.

By Peter McArthur
We have now reached that part of the harvest which I most thoroughy understand aind en-
ioy. Earlier in the season we changed work with the horses, so as to provide the food needwith the horses, so as to provide the lood need-
ed for them and the cattle during the winter, and the surplus was sold for "rascal counters," with Which we can get the things not grown on the
larm that we need for ourselves. Now, however, we are putting away that part of the produce
which we shall need for home consumption. Apwhich we shall need for home consumption. Apples are being stored, potatoes pitted, celery and
cabbage trenched and other vegetables protected for the winter. I say that I understand this
part of the harvest better than the oother and I'l tell you why. We are all the tire being told to one time I went, and 1 am afraid that the lesson I learned was one that my teachers did not in-
tend. Instead of having money invested in bonds tend. Instead of having money invested in bonds
or a good bank account, the ant simply had plentiful store of provisions. As I put away
these vegetables I have a comfortable feeling that I have learned the lesson of the ant as it was in-
tended to be taught. Food is the most importoly stored away is the highest form plentiful sum ply stored away is the highest form of wisdom.
In more primitive times the wealth of kings con-
sisted of full granaries and countless herds, and sisted of full granaries and countless herds, and
they were considered rich because they had ample food for themselves and all who were dependen
on them. 1 suppose if 1 sold the celery, which on them. hat suppose if sury in the celtery, whic
is a somewh could
put money in costly lune bank, but I am fond of celery and the wisdom of the ant is good enough for me
There is no knowing what may happen to There is no knowing what may happen to th
banks when the Bank Act comes up for revision but I
tables.
peaking ${ }^{*}$ colery, there is mine like to know, and perhaps sone thitener whin have no doubt that the treuble is an some
mistake I have made, but I wish the set right mistake I have made, but
so that I can do better next year. When trench ing the celery I found that part of it had grown
ly useless. The celery was grown in an old
barnyard, where the ground was just about as rich as it could possibly be, having been used as am inclined to think that this is about the first crop ever raised on this bit of soil, and that the original fertility is still there, as well as what has been accumulating during the past seventy
years. Most of the celery is just about as fine as it could possibly be, large stalks, crisp and tender and as sweet as a nut. Besides, the stalks are about the largest I have ever seen, out some of the very largest are almost useless.
What is the trouble? Has the growth been too rank or have $I$ neglected something that should be done 2 Most of the trouble is with the
Giant Golden Heart variety. The White Plume is all firm and sound, and both kinds were cultivated in the same way.

Two correspondents have asked me to give in The Farmer's Advocate the receipts for Force ticle elsewhere about a year ago ticle elsewhere about a year ago. We prepared
the dried beef, which proved to be excellent, according to the following receip
will be the most lean beef, or that part which part of the round is a very good piece. For one teaspoonful of salt petre and a quarter of a pound of brown sugar. Mix them well together and rub the beef well with one-third of the mix-
ture for three successive days. Let it lie in the liquor it makes for six days, then hang up to dry. A large crock or jar is a good vessel to
prepare the meat in before drying prepare the meat in before drying it.'
This dried beef is
thin slices and fried or made up in' the various ways in which "chipped beef" is used.
The force meat I had referis.
fashioned country dish, and not the is an old fashioned country dish, and not the kind that
usually goes under that name in the It strikes. me as being more like pemmican than anything else. Take any convenient quantity o
lean beef. The better the cut, the better the rem lean beef. The better the cut, the better the re-
sult will be, but any part may be used from por ter-house steak to the neck. Chop this beef as
finely as art me tron finely as possible with a chopping-knife, beef as not put it through a meat-chopper. Take about one-third the amount of suet and chop it in the
same way, then mix the two and add salt pepper to taste. When the beef and suet have been thoroughly mixed and flavoreded, press it in
to small cakes by hand and put it away in crock. It is ready to use at once, and is fried
like steak. If there is any better cold weather If have yet to find it. This is for
truly pioneor dish and truly pioneer dish and one of the best. Some day I may gather and put in shape the pioneer ing information about the first settlers. gather a number of the dishes they first sedtlers. Quit in vogue, but most of them that I have sam for palates that are trained to sweets food delicacies.

Besides the programme for good eating that I have given, I wish to suggest something for solid some good points about the relations of capita might profitably the producers of the country Act is coming up for revisith now that the Bank system of the country is likely to be financia Wealth is universally admitted to be the valuable produots of labor, and here is about the most . things, and those things only, which are trase ferrable, are limited in supply and are are transBroadly speaking, the mass of these things is
matle up of the food materials and the materials and shelter and clothing produced on the farms hand, is simply an accepted medium the other which may or may not have intrinsic value of
its own. Gold has intrinsic value, but inct of banks, which are nothing more thay" of the Crinted paper. For these more than slips of cant. If I own a hundreit thatrels of apples the Constitute true wealth, but while of apples they such as comes from increased prices, if theept
chombty bo a scarcits. if I huep) thise lans and wossession, it will some real weald n in fit for them an the apples and toke in ex-
dollars at interest, and it will at once begin to earn' for me. I confess that I am puzzled by the
fact that the mere counters that are used in a changing wealth are more valuable to own th the wealth itself. Shylock said that he could make his ducats breed as fast as sheep, but it
seems to me that there is something wrong when seems to me that there is something wrong when
this is the case. The men who get rich nowadays are not the producers of wealth, but those who handle and speculate with the medium of exchange, the money that has no intrinsic value 11 the great teachers of the past were opposed taking of interest has been forbidden by the world's best religious teachers, and perhaps if we
investigated we would find that there is an econinvestigated we would find that there is an econprinciple. The laws of cleanliness enforced by Moses have been entirely justified by scientific research, and they are now being enforced as sanitary laws. Perhaps when' we study out the true elation that should exist between the products
hat constitute true wealth and the money which is used in making exchanges easy we shall find that the money should be controlled and its power restricted in a way that will make it im-
possible for the owners of capital to control and exploit the producers of true wealth as they are doing now. Capitalism, as we have to deal with it, is an entirely modern thing, and nothearlier ages, when gold and silver were the popular mediums of exchange, they were marketable commodities, just like wheat or beef, but slips of pajer with promises to pay printed on them are exchan'ge, and their use should not give too great a power to the men who handle them in the transaction of business. I am not sure that I have even stated the problem properly, but I am
sure there is something there worth thinking about. If we all grope for the truth involved we may find it and perhaps do something to check the strange and oppressive dominance

## Remove Duty on Tpaction Ditchers.

$\qquad$
$\qquad$
Some time ago you published a timely ediCorial on the subject of the removal of the duty
from traction ditchers. For about two years the Department of Physics, of which I have charge, has been working upon this matter, first enlistand influential public mien in several provinces, also of the Canadian Manufacturers' Association, ject, both making representations upon the subto the Ministers of Agriculture, Customs and Finance at Ottawa. These representations were made to both the late and the presen't Government, so that the departments interested are now tive to the proposed action. Thus far nothing has been done, but there is reason to hope that eration. The purpose of this letter is to draw atten
tion to a phase of the subject recently brought to my attention, viz., the fact that some farmers' organizations, e.g. Farmers' Clubs, Agri-
cultural Societies, Farmers, Institutes cultural Societies, Farmers, Institutes, etc., have of the duty, and others have such action in contemplation. This step seems to me a valuable one, possibly the one remaining step necessary to I have been' asked by one society to draft a
suitable resolution, and thinking that the same might prove suggestive to other societies which may be contemplating similar action, I beg to "Moved by
Seconded by
cinity are in urgent need of underdraina this viand for many years, lost heavily by portions of labor it is practically impossible forcity of hanc help "Ao lay the drains. ed into this locality would solve the difficulty. factured whereas traction ditchers are not manu cent., ammonteres to from $\$ 500$ to $\$ 7.50$ on a mat chine suitablse for this locality, depending on the
size of machine dition "And whereas a sum of this magnitude in ad Whase of one many men considering the pur "And whereas this prohibition is a direct

Cominitter of the Carradian Manufacturers' Asmachines recuired in Canada would not warrant any factory therefore it would not be detrimental to a Canadian industry if they were made free of duty, and that therefors the said Manufacturers Association will not oppose the removal of the
duty. duty. "Therefore be it resolved. That we, members of the .................................................................. ine Society) at

in meeting assembled, hereby place ourselves on ing the removal of the duty from traction ditchers and parts thereof.
"'That we hereby respectfully urge upon the Honorabe the Nat at as early a date as possible.
duty be removed
"And further, that the Honorable the Minister of Agriculture for the Dominion be hereby re spectifully asked to support the suggestion for the '"And further, that the Member of Parliament this riding be hereby respectfully asked to use
best endeavors to secure the removal of the is best
"And that the Secretary be hereby instructed able the Ministers of Customs, Agriculture and Finance at Ottawa, and the Member of the Dom-
inion Parliament for this riding." This outline, of course is
might be abbreviated or otherwise modified to suit the wishes of the local organizations.
garding the reference to the Canadian Manufacturers Association. When the matter was brought to their notice it was referred to their
Tariff Committee, which after consideration and advising with some manufacturers whom I know, the late Chairman of the Tariff Committee. The letter containing those conclusions and the assur-
ance that the Manufacturers' Association would ance that the Manufacturers' Association would
not oppose the removal of the duty on traction ditchers is on file in this department. I think it has taken.
It may be well to state before leaving the subject that my first endeavors to secure cheaper ditchers for the Canadian market were directed
towards having them manufactured in Canada, and those efforts have been continued to the pre-
sent time. I know there is a sharp difference o opinion as to whether this would secure any material reduction in price, if the duty were main
tained at the present level, but this point does not enter into the situation at the present juncture. The facts are that after four years of en not manufactured in Canad machines are stil community is suffering annually a heavy direct loss without any compensating gain to any other
class of citizens. Under these circumstances even a plausible excuse, for maintaining the not n traction ditchers.
It is to be hoped that The Farmer's Advocat and the acricultural press generally will continue
the campaign until the duty is removed.

Egg Laying Contest at Vancouver B. C.

The results have been issued of the interna-
tional egg-laving contest, under the joint auspice tional egg-laying contest, under the joint auspices
of the British Columbia Poultry Association, the Vancouver Exhibit:on Board and the British Columbia Provincial Governnent. The total num-
ber of eggs laid in Class No. 1 from Oct. 20 ber of eggs laid in Class No. 1 from Oct. 20 ,
1911, to Oct. 20, 1912, by pen No. 2, White Leghorns, winning first prize, owned by J. Stew-
art, of Australia, was 971 . art, of Australia, was 971 ; pen No. 9, White
Ieghorn's, owned by Ranguiru Egg Farm, New Zeghorns, owned by Ranguiru Egg Farm, New
Zealand, second prize, 916 eggs ; pen No. 10
White Leghorns, owned by Dr. Medd, British Col umbia, third prize, 800 ; pen No. 19, White Leg
horns, E. T. Hunson', British Columbia, fourth prize, 795 ; pen No. 18 , White Leghorns, owned
by E. Soole, British Columbia, fifth prize, 778 by E. Soole, British Columbia, fifth prize, 778 ;
and pen' No. 20, White Leghorns, owned by Major
Green Wilkinson, British Columbia, sixth prize, 745. The winners in Class No. ${ }^{2}$ were as fol
lowa: First, Rhode Island Reds, A. E. Smith Pritish Columbia, 854 eggs; second, White Wyan-
dottes, G. Adams, British Columbia, 804 eggs ; C'olumbia, 800 eggs ; fourth, Barred Rocks, V
('leenes, British Columbia, 778 ; fifth, Rhode Is Cleenes, British Columbia, 778; fifth, Rhode I,
land Reds, Red Feather Poultry Ranch, Britis
Columbia, 732 . sixth Barred Rocks, Fred. Mat thews, British Columhia, 730 , Two silver med
als, presented for pens in Class 1 and Class als, presented for pens in Class 1 and Class
producing most eggs during winter months, wer
won by pen 2 , J. Stewart, Australia, in Class won by pen 2, J. Stewart, Australia, in Class
and by pen 39, Buff Orpingtons, C. W. Robbins
British Columbia, in Class.

Relation of Roads to Agpicultupal Conditions
$\qquad$ about the value of good roads, and the only necessary to take a drive continue. It is try to appreciate what might be accomplished. From a piece of good crushed stone or gravel road to the old mud road is a short journey in most locaities, and the difference in power reof roads is quite perceptible these dififierent, classe is not often that he estimates the real loss he sustains by bad roads. United States Farmers Bulletin 205, "Benefits of Improved Roads," conditions as follows
Farmers sooner or later come to realize the desirability of diversified farming. ${ }^{\text {cause limits farmaps no }}$ cause limits farming of this description as effec-
tively as bad roads. of course, the prime re quisite for successful diversified farming is a good market. This market may be either a near-by quires railroad transportation market which re however, the speed of transportation any case, farm to the unloading point is essential. Diversified farming usualldy means a change from staple able products such as fruits and marden trish that is to say, from crops that may be held at the farm to crops which must be moved away from the farm immediately. The possibility o tions. A
A farmer 10 miles from a market for spring is at a great disadvantage if his market road is compete with the farmer the same distance from market in another direction on a good road.
About each market or shipping point there is a boundary line which encloses the area that can be cultivated profitably for delivery at that
point. If this area is considered as bounded a circle, it is not difficult to see that its size will depend upon road conditions. The profit to the iarmer is determined by the difference between
the production and transportation costs and th the production and transportation costs and the
selling prices. Production. must cease when the transportation costs wipe out the difference. As one goes farther from market centers, he passes
through successive zones of production, each of which ch successive zones of production, each oi products will not bear the additional cost of transportation. With a good system of improved roads radiating from market centers, it must total area of farming. land will increase, as well as the successive areas or zones capable of sup-
porting diversified crops.. The whole business of farming is sufficiently dependen't upon weather conditions without the added uncertainty of road

It is a well established fact that market prices for even staple crops vary considerably through-
out the year. Where bad roads pievail out the year. Where bad roads prevail, farmers market price is favorable, but when the roads are hat he. It is oommon for the farmer to find prices can not haul kis produce to market when prices are highest, because the roads are impassable. When the roads become passable, the time
for market has largely passed, and produce is compelled to move in masses which frequently glut the market and break the prices. Exces Sive fluctuations in market prices are seldom due
to overproduction. They frequently take place in regions where the local production does not equal the annual consumption. There are counties in the United States rich in agricultural pos nual incoming shipments of foodstuffis exceed the outgoing shipments in the ratio of four to one. Many such counties with improved roads could not only become self-supporting, but could ship van County, Tenn., a few miles from Bristol, had
100 bushels of Irish potatoes which o markets of Irish potatoes which he intended to bad roads he was unable to haul the potatoe less, the price of rotted in the cellar. Nevertheas $\$ 1.40$ per bushel in the meantime. A Bristol merchant stated that during the winter as many potatoes, and other supplies, were daily shipped The question of opportunity in marketing is worthy of consideration. For the sake of ex-
ample, let it be supposed that two farmers living in separate counties, but at equal distances from the cotton market, learn hy telephone that cot-
ton has advanced in price $\$ 1$ per bale. The farmer living on a bad road can immediately haul
one bale of cotton, while the other farmer can
haul four bales because he lives on a good road.

The rise in price means a profit of $\$ 4$ to the one
man and only $\$ 1$ to his neirghbot. When the roads to his neigniber States or of the great producing zones of this country become improved, it is reasonable to suppose that periodical congestion of markets will tend to disappear.
Correspoading benefits will accrue not only to correspoiding benefits will accrue not only to
the producer, but to the consumer. Whan matche producer, but to the consumer. Whan marago charges must decline. In Chicago the storage charges on grain amount to $12 \frac{1}{2}$ cents a
bushel per year. The disadvantages of freight bushel per year. The disadvantages of freight inated in, many places, but good roads, will coil tainly have a marked to
ing over longer periods.
It is ing over longer periods.
It is reasonable to
roads mean that diversified farming, that good couraged, the area of profitable production increased; the opportunity for favorable marketing improved, and more uniform distribution of farm
products secured, and, as a consequence; speculapron in staple products will be reduced:
What is true in the United
What is true in the United States is true here. Great are the losses borne by the producers each
year by bad roads. Among other benefits good roads the bulletin Among other benefits or the value of farm lands, improvement of schools, improvement of rural delivery service, and imimportant, and it needis no explanation to show how good roads effect each. We cannot afford to.

North American Egg Laying Contest Closed.
At midnight, Oetober 81st, at Storrs Experi ment Station, was concluded the contest in eggproduction among 100 pens of fine hens each
which began one year before. The White Tem horn pen owned by F. G. Yost, of Pennisylvania, on firs nlace, with a total of 1,071 eggs, but t was no walk-over, for the Canadian pen of White Wyandottes from Beulah Farm, Went
worth, Ont., was only fwo behind, with 1,069 eggs. For a considerable length of time an Gng-
lish pen of White Leghorns, owned by The lish pen of White Leghorns, owned by Thos. Barlong time there were only four layers at work, haking a total score of 982 eggs, and a much Approximately, perty bird than the in the coning ponid scoring individual bird was year. The highestrom Kentucky, with a was a of 254 egige. est score by a Barred Plymouth Rock Pen was dotte pen scored 847 ; an S. C. A Buff Wyan Red 930 ; seven pens of White Leghorns scored ver 900 eggs each, and one pen of Butf Leghorns
947 ; the top score by a Black Minorca pen was 947 ; the top score by a Black Minorca pen was
765 ; by a Buff Orpington' 860 , and by a White Orpington 858 . As egg-producers the general utility breeds have made a creditable showing: Mr. Barron has entered another pen for the new ada and England are represented by twenty different varieties. An extra bird is held in ro serve for each pen in case of a death or incur-
able disease. The birds entered are all new in able dissease.
the contest.
In the contest just closed the total number of eggs laid was 75,230 , or an average of 1581 per
bird, an exceedingly good showing for 80 many hens, and creditable to the faith for so many of their owners. T. V. L. Turner, in drawing some deductions from the results, states that the matter of type in the different breeds and varie-
ties does not seem to influence egg-production ties does not seem to influence egg-production so
much as the type of the individual. Many highscoring layers in each variety differ considerably in physical characteristics, and just there conditions of feed, housing, care, heredity and proper
mating step in. The detailed conclusions were mating step in. The detailed conclusions were tion people and issued in bulletin form.

## When to Cut Timothy.

In experiments made by H. J. Waters, of the ield per acre of digestible nutriment largest is obtained by cutting timothy when in fun loom and that the largest yield per acre of field-cured hay, as well as of actual dry matter,
is obtained from cuttings made when the seeds were just formed, an early "milk" stage immediately after the bloom had all fallen. In each of these stages a larger yield per acre was obtainmaterial an'd that of actual of grosients, than was obtained from earlier or later cuttings; and, while apparently not quite so palatable as when general that earlier period, would seem in time to cut timothy is between the time of full just passed the period when the blooming has just passed and the seeds are in an early stage

School Fairs.
strong leader, from which we quote ficient but also a greatly centralized hach of There are but five and twenty banks in the Dominion. Their paid-up capital-if that of the Sov-
ereign Bank, now in process of liquidation, be exereign Bank, now in process of liquidation, be ex-
cluded-is a trifle over $\$ 110,000,000$. They hold in deposits in Canada:more than a thousand mil lion dollars. This represents practically all the savings of the people available as the foundation ings in the form of life insurance accumulations and deposits of loan and mortgage companies, but they are not liquid, being for the most part
invested in loans on real estate that run for years invested in loans on real estate that run for years
and cannot be converted quickly into actual cash. and cannot ke converted quickly into actual cash.
"Speaking generally, therefore, twenty-five banks control all the available liquid savings of Canad. There could be gathered into an ordinary room in the cities of Montreal or Toronto all
the men who really command this vast reservoir of the nation's capital, for banking is becoming more and more a one-man power, and almost all the banks have some dominant individual in con-
trol. It is quite clear that to prevent absolutetrol. It is quite clear that to prevent absolute-
ly autocratic rule on the part of the money interest the people, who provide nine-tenths of the capital used, must reserye large powers of direc-
tion, supervision, and inspection. How absurdly tion, supervision, and inspection. How absurdly
out of date this system is can be understood by out of date this system is can be understood by
reference to the position of the farmer under the Bank Act. As a class farmers contribute great sums to the total of bank deposits. The banks, however, are forbidden by law-a law made large-
ly by the influence of the bankers themselves-to loan money to the farmer on any other security than his note or personal credit. If, he wishes to raise money on the security of his lands or
buildings he must go to a private lender or a mortgage corporation. If he wishes to raise money on his crop after it is gathered into his barns or his cattle awaiting shipment the bank
is forbidden by law to lend and take a lien his crops or cattle as security. The a lien on er, merchant, warehouseman, or dealer can all secure advances from the banks on the security of
goods in their possession, but the original progoods in their possession, but the original pro-
ducer of agricultural products cannot obtain a dollar of an advance though he may have thousands of bushels of wheat in his possession not immediately salable. So long as wheat remains in the farmer's possession it represents a risk or
which money cannot be raised. The moment it gets into the elevator or car it can' be turned into
cash. cash. The chief objection urged against the extenof his products is that it would increase by many millions the secret preferences now held by the banks. A manufacturer at present may pledge all his stock in trade to a bank in return for
advances. The bank is not required to register the transaction, and other creditors may go on advancing goods or material, not knowing that the bank has a prior claim on all the manufacthe storekeeper and the country creditor of the farmer might give him credit on the understand-
ing that they would be paid out of the proceeds ing that they would be paid out of the proceeds
of his crop, only to discover that the bank, by of his crop, only to discover that the bank, by
arvancing money on the crop, had obtained a
priority and left them without means priority and left
ing their money.
"The obvious answer to this is that so long as the manufacturer, or the merchant, or the
warehouses is permitted to give a secret ence there is no sound reason for preventing the farmer from doing the same thing. He is no
more likely to play his creditors false than the townsman, and as he contributes a a a very than the
share of the banking resources share of the banking resources of the country he
has a right to demand that he shall not be dis-
criminatod arainst in the criminated against in the granting of loans. If tank credit is not made more readily available
to the farmer at the coming revision we shall
undonb, undoubtedly see ere long a formidable agitation
for the creation of banks specially designed to supply the farmer with short-date credit. The
bankers may as well make up their minds that relief in one form or another must come." On Nov. 1st the second competition in egg-
lavi.ing between 100 pens of five hens each heran it "torrs Experiment Station, Connecticut, and
will continue for one year. It is operated in the
same premises as the former one under the Kemeral conditions, and conducted under the same
Imerican newspaper of Philadelphin the North Itmerican newspaper of Philuctelphia and the Fx-
periment Slation authorities. There are five


## Natupe's Dlapy

Now is the period of an interval in our tird population. Most of the birds which breed with us have left, those which breed further north and winter further south have passed through, and the winter visitors from the great northland have not yel arrived.
There is with us still, as allways, our old acrobtio che chickadee-that always cheerful, daunted by the most chilling frost, nor exh never by the most torrid weather of July nor by the coldest of fall rains. Surely all who spend any time in the woods must love the chickadee-it is the friendliest of birds., If you
whistle an imitation of its "wheo-hur-ur", whistle an imitation of its "whee-hur-ur" song it stump" and keep perfectly stin it may perch on your shoulder or head. One can -learn a lot by
"playing stump"; if you are constantly on the move you never see any of the wild creatures going about their business in a natural way, and many of them you never see at all. Many o
the wild denizens of our woods have learnt that a stationary object is not readily seen, and that "freeze" when alarmed. It takes and they to see a chipmunk which has "frozen." To "go further and see less" is an old saying, and a very true one as far as observations of nature are con-
cerned. It is true not only of animal life of plant life also. Many a small plant, and some not so very small either, escape us if we plunge through the country in a hurry. If we again, it is surprising how many things we notice which were unseen before.
The Chickadee is a sects and insects' eggs. It searches the bark and it searches the twigs, and many and many an in the eggs of the Tent Caterpillar, the Fall Canker Worm, immense numbers of eggs of Plant Lice, and also adults of the very destructive Bark Beetle If you would have this ""lleaner"" your orchard this winter, hang a lump of suet on a tree by a string. The Chickadees will then wont eat only the suet, they will stay around the orchard and hunt up hidden insects and eggs. Chickadees during the fall assoçiates with the White-breasted Nuthatch, that winter is the billed, slaty-backed bird which scrambles about the trunks and limbs of trees, as often head down quank." side up, uttering its loud "Quank Most of our trees are now bare. Why so ?
Because leaves are not only useless but dangerous possessions for them in the winter. The only
trees now with greens, whose leaves are protected by their form and structure. Arainst what? Against cold? of cold which kills. For it is the drying action moisture in the winter is converted into a "dry" form as ice or snow. Now a form of leaf
adapted to withstand drought is not the very best form for performing its work in the period o the "deciduous habit" and find it more economical to grow new leaves each year, and get rid of
them in the autumn. Why do they fall? Are they frozen off? Or blown off? Neither, they grow off. Early in the summer a ring of cork is
formed at the base of the petiole (stalk) of the leaf, and this ring gradually cuts in and in until thread consistency of the "veig only by a slender these veins flow the nutritious matters of the leaf, then one day a breeze breaks this thread and the leaf falls to the ground, consisting only
of dead cells useless to tho tree, and salts not needed by the tree which have been deposited in
the leaf in the fats the leaf in the form of crystals.
The woods and fields
season, gone is the joyous song of the at this hushed the myriad midsummer sounds of the in musician and his "cheerful", the sole remaining louder through lack "cheerful" chirp sounds the
the "chirp opposition. We speak of the insects, but this does not imply that the
of the sounds are made by the mouth or by vocal nords. Insect music is produced in a great
variety of ways. The Cricket makes his (for over the back at an angle of about forty-five de
orees, and rubting the wing-overs grees, and rubbing together their thickened and
roughened veins. roughened veins. The Locusts rub a fine "file"
on the upper segments of the hind leg over a
thickened vein on the wind "voice" of the Cicada or Dog-dey. The shrily
is made by the alternate stretching Fly a pair of parchment-like membranes by relaxing o
muscles a pair of parchment-like membranes by means o
muscles. In the case of the Cicada again only
the males produce this sound, which has led
beliered that "speech
golden" to write :-
"Happy the Cicada's lives The Frogs have nearly all disappeared from Look under flat stones along the margins of lakes and rivers, in from three to four feet of water. eight together, huddled up in a very sleepy condition. At the approach of cold weather they come ,hopping down to the shore, and at first get gradually move out until they are then they zone where the ice forms solid to the bottom. Here they pass the winter in a dormant state getting the little oxygen they need to maintain life

## Ppovincial Fopester Appointed.

 Prof. E. J. Zavitz, who for several years has orestation work in Norfolk county, and who re ceen Professor of Forestry at the Ontario Agriappointed Provincial Forester under the Depart ment of Lands and Mines: Reforestation on conservation of the timber in the northern part of the Province are part of the policy Government in making the appointmen forestry, and study new methods of scientific con-servation. further arrangements are made Prof.
Until
Zavitz will continue his lecture work at the Ontario Agricultural College, and his supervision of the Norfolk reforesting farm. In all probability the Norfolk farm will be transferred from the Department of Agriculture to this new branch of

The Nova Scotia Agricultural College opened its 1912-13 session on November 5th with the previous enrollment in the history of the college. ment was 58 , which number was increased to 78 , being the highest number of students that had attended the regular course up to that time.
The best feature is that the students who have been going out from the Nova Scotia Agricul-
tural College are largely settling on the lands of the Maritime Provinces, and, we are informed, giving a most excellent account of themselves.
Not only are they putting a new spirit into the
annual tilling of the soil, but in Nova Scotia par-
ticularly, their influence is ticularly, their influence is being felt in the es-
tablishment of new labrishment of new creameries, in the breeding of ly all lines which point to a successful agricul-
ture

## Behind With the Work.

heavy rains are usually frequent and often perienced as that which a steady downpour exlast week. The Thames. river rose six feet in a in which the wat the river was not the only place undated, and two days after the rain ceased
many fields ber many fields had large portions of their area still
under several inches of water a summer of exceptional precipitation has so re tarded work that scarcely a farm in the south-
Western Peninsula of the Western Peninsula of the Province is anything
like prepared for winter. heard to say, "it won't freeze up until the swamps are full of water." If it had frozen up this season as soon as this was the case, we during the haying, harvest and autumn periods However, the swamps are full, so are the furrows, and in some cases the cellars.
Bad weather and scarcity
Bad weather and scarcity of labor have kept
everything behind. Hundreds upon hund everything behins. Hundreds upon hundreds of
barrels of apples are rotting on the ground or spoiling on the trees. The evaporator and canning factories have handled large quantities at a
small price. Plowing has been greatly retarded small price. Plowing has been greatly retarded,
in fact in some localities little has been roots have been harvested under great difficulties, the fields being so soft that it was almost, impossible to draw them off, and "clean roots" are
out of the question. Silage corn was harvested later than evert before, and all farm work has seemed a drag. A farmer in Middlesex county was heard to remark, "This is the kardest season
I ever put in. Everything had to be done with I ever put in. Everything had to be done with bad season more feed is in the barns than was
the case in the fall of 1911 . Tive-stock should the case in the fall of 1911 . I,ive-stock should
winter comparatively well, and farmers should winter comparatively well, and farmers should |From present indications it. would seem as though next spring would be another rush season. There will be acres and acres to plow, which
means a lot of extra work and fast work, for it must be done quickly to get the seed in early. Late seedings are not popular nor are they profitable. With last year so very dry and this
year a regular flood it is to be hoped that 1913 year a regular ford simmer down to an equilibrium.

Ensiling Soy Beans parison Massachusetts Hatch Station, a comcarbohydrates produced on an acre each of soy that the soy bean acre produced nearly 34 per cent more of protein than did the acre of corn while the acre of corn produced over 84 per cent. more of carbohydrates and fat than did the acre of soy beans. Ensilage made from corn alone
is known to be a wide ration, and needs to be supplemented with foods richer than itself in
suphe in
protein in order protein in order to balance the ration. Th
Massachusetts test indicates how this may b Massachusetts test indicates how this may bo
done where both the corn and soy beans can be grown to a reasonable degree of maturity, and combined when filling the silo. It is not to be
inferred that a mixture of the two crops will inferred that a mixture of the two crops will
make it unnecessary or unprofitable to feed grain in the ration; but in practice it has been found possible to reduce the amount of grain fed to dairy cows, and maintain the milk tow if a por-
tion of the silage consists of soy bean fodder. The digestibility of soy beans compares favor-
ably with that of alfalfa and clover. Silage ably with that of alfalfa and clover. Silage
made from corn and soy beans has been found more
alone. Soy beans grown for silage should be harvested
when the pods are mostly filled, and the leaves have not begun to fall off. They may be twine binder. Soy beans cut for silage must be hauled from the field, and mixed with corn fodder at the cuttine box in order to have the mixture of corn and soy beans evenly distributed in the
silo. In this way any proportion of beans to silo. In this way any proportion of beans to
corn may be made at will. It is not wise to
use more than one load of beans to two use more than one load of beans to two of corn, and one to four will be found to earich the
silage noticeably. Soy beans alone, because of the high protein content, tend to make \& strongsmelling, protein content, tend to make a strong-
objonable silage. Their dilution
with corn fodder in the sill reduces the danger with corn fodder in the silo reduces the danger
of strong odors, and makes the silage more of strong odors, and makes the silage more
nutritious and not less palatable than that from nutritious and not less palatable than that from
corn only. The yield of soy-bean fodder can not be so heavy as the yield of corn from the same
ground. On a fixed area therefore the ground. On a fixed area therefore the total less than if all corn were grown. In order to follow the foregoing practice the grower must
either cultivate more acres or else be content with either cultivate more acres or

It is estimated that Ontario grows annually approximately six million acres of grain crops.

## GOSSIP <br> TRADE TOPIC.

important clydesdale sale. Thirty choice Clydesdale fillies, carefully selected and imported by Dr: D.
McEachran, Ormstown, Que., will, as advertised, be sold by auction at his farm,
Thursday. November 21 st. A fine opThursday, November 21st. A fine op-
portunity is here given to secure young
mares of choice breeding and quality.

## CLyDesdales AT AUCTION. Wednesday, November 27th, is the

 Wednesday, November 27 th, is the datefor the auction sale at Hamilton, Ont, eor the auction sale at Hamilton, Ont.,
of fifty high-class Clydesdale fillies re cently imported by D. C. Flatt \& Son.
These are a select offering, and a number have been- bred to noted sires in
Scotland. This sale will afford a rare chance to get good
buyer's own price.
BIG PRICES FOR yorkshires, At an auction sale of Yorkshire hogs,
the property of D. R. Daybell, Gran-
tham, England, October 25th, bidding tham, England, October 25th, bidding
was brisk, and buyers were present from was brisk, and buyers were present from
Russia and Poland. Lord Ellesmere
paid the highest price, 140 guineas, a Russia and Poland. Lord Ellesmere
paid the highest price, 140 guineas, a
little over $\$ 700$, for a nine-months-oid little over $\$ 700$, for a nine-months-old
loar, said to be a record price for a
piir in England pig in England. This one, with four
others of the same litter, made a total of $\$ 1,565$, an average of $\$ 325$. The 61 age of $\$ 77.50$.
At the annual consignment sale
Shorthorns, at Darlington, England, Shorthorns, at Darlington, England, oct
2 2th, the high price of $\$ 2,600$ was rea-
lized for the eleven-months roan bul calf, Prince of Orange, by Prince of the
Blood, dam Golden Wreath 16th, bred and consigned by C. H. Jolliffe, Darling on, and purchased by J. L. Reid, Crom
leybank, Mr. Duthie being the runner-up leybank, Mr. Duthie being the runner-up,
$\$ 1,250$ was paid for the red bull call Proud Actor, consigned by W, M. Scott,
the purchaser being Sir Owald Mostey
The 124 animals catole

SPEClaL TRAIN to portland MAINE, FOR SAILING S.S. "TEU
TONIC," DECEMBER 14th. For the accommodation of passenger sailing on the White Star-Dominion Line
Steamship "Teutonic," from Portland Maine, December 14th, the Grand Trunk
Railway will run a special train consistRailway will run a special train consist-
ing of vestibuled coaches, tourist and ing of vestibuled coaches, tourist and
first-class standard Pulman sleeping cars, leaving Toronto at 1.15 p . m. Friday, December 13th, running direct $t$
the dock at Portland, arriving there a a m., December 14 th. Berth reserva
9 a. . Merk
tions, tickets, and full particulars, ca be obtained from nearest, Grand Trunk agent, or write
Union Station $\qquad$
QUESTIONS AND ANSWERS Miscellaneous.

SOUTHDOWN VS. SHROPSHIRE 1. What are the merits and den
of the Southdown breed of sheep?
2. 2. How do they
hire or Oxford?
3. My flock is from halp- to threeparts grade Shropshire or a registered Southdown ram. Which would you advise me
to use ? yns. $-1,2$ and 3 . We could not give
you, in the space alotted to answering
questions, all the eiestions, all the merits and demerits o
eithe Southdown or Shropshir breeds of sheep. Both are good breeds
hardy, good mutton sheep, which, witl good management, will give satisfactory targe as the Southdown is scarcely a
Lor quality or quality of mutton is equal to either
Seeing that your flock is now from one half to threeparts Southdown breeding
why not use a Southdown ram? By Why not use a Southdown ram? By
all means, provided the ram is a good
individual of his breed, use the pure
bred Southdown in preference to a grade
 not be used as sires. Do not use
ram because he is pure-bred alone. Inram because he is pure-bred alone. In-
sist upon his being a good individual a
well

PROPOSED ROAD.
There is a rumor that a road will be
put through our farm by the township put through our farm by the township
or county; we don't know which. Some real-estate people are opening a survey,
and the road may be for their benefit. 1. Can we me compelled to sell land
for this road, through the entire length of our place?
2. Have we any say as to where the
road will pass through, as one party wants it on our south line and another on our north line? If it can be
manipulated to suit others, what can w do to 'get it where' we want it? 3. Should this road go through, wil
we have anything to pay for its mak-
ing, or will there be extra taxes put ing, or will there be extra taxes put
upon us, other than our neighbors' pay
who we, the the 4. Is there any authoritative body controlling the layout of roads,- as roa
may have a bad jog in it, which could be easily avoided, if interested partie don't get their way?
Ontario. Ans.-1. No; but the ROADMAN. oration may enter upon and take the and necessary or convenient for the pur-
pose, subject to certain restrictions contained in. The Consolidated Municipa
Act, 1903 . See Sec. 687 (1) (2), of the 2. Yes; you are entitled to be hear ny the council of the municipality, either
in person or by counsel or solicito after petitioning the council to be so at least a month's notice, by posters
and newspaper advertisements, of their intended by-law for the establishment the doad. See Sec. 632, of the Act.
3. It is probable that you will hat
4. The matter is one to be controlle
nd disposed of by the municipal coun

THE SPICE OF LIFE QUALITY.
"Youse can't marry my sistah. Sheo lady ob rank."
"Well; I'se as rank as she am !"

MISTAKEN IDENTITY.
"As I was going over the bridge the
other day," said a son of Erin, "I met Patrick $\mathrm{O}^{\prime}$ ' Connor.' ' 0 'Connor,' saye I "' 'Pretty well, Donohue,' says he." "'Donohue,' says $I_{\text {; }}$ 'that's not my name.' "' ${ }^{\text {" }}$ 'Faith says he, 'and mine's not "And with that we looked agin at aich ither, and bejabers it was payther
iv us."
so inclined.
"So, that's the baby, eh ?
"That's the baby." will bring it up to am afraid that will be rather diff "Pshaw "Pshaw. A.
tree's inclined.
"I know, but ing a girl, and we are inclined to let it go at that."
different case
Fred, six years old and his sleter
Hattie were dining with an aunt. When Hattie were dining with an aunt. When
Fred helped himself to the second plece or cake, his sister whispered: "Fred, you know mamma never allows
you to eat more than one piece of
"ohe." she won't care this time;" re-
"oh,
plied Fred, confidentially, "this isn't her
ake."

montpeal:

$$
\begin{gathered}
\mathbf{L} \\
\text { Mor } \\
\text { More } \\
\text { lare }
\end{gathered}
$$ Kontreen Stock.-Onerings of cattle on the Larreae. market last week were fairly

Best steers sold at 6c. per lbi, while good to fne stock was 5 tce 1 . up- wards, and medium was around 4 c c. to 3o., with common grades ranging down to 8c. per lb. There was a good do-
mand for lambs, and prices were stoady, mand for lambs, and prices were stoady,
at 6c. to 6tc. per lo. Sheep sold at
at steady prices, being 3 3c. to to 4 c. per 1 lb .
Calves were steady, being $\$ 3$ to $\$ 10$ each,' as usual, and supplies being light.
The market lor hogs was easier, and The market for hogs was easier, and
prices ranged from 8 $\mathrm{y}^{2}$ c. to 8 8c. per 1b., for selects, weighed of cars.
$\qquad$ Cew horses being taken for lumber
Camps. Carters in the city were also buyp. tharters being one of the busiest
buying of the year in the matter of ex-
periods of periods of the year in the matter of ex-
port shipments and movement of treight port shipments and movement of freight
generaly. Prices continued quite firm, at recent ranges. Heavy draft horses,
1,500 to 1,700 lbs., $\$ 380$ to $\$ 400$ each;
enh
 to $\$ 300$ each, light horses, weighing
from 1,000 to 1,100 lbs., $\$ 125$ to $\$ 200$;
 chotest
$\$ 350$ to
$\$ 5000$.
 market for dressed hogs was rather
easier, in harmony with the market for
live



 bacon, 19..., the thick being 18c. Wind
bor, gkinned backs, 21c. per 1b., spiced

 $\$ 29.50$ per barrel. Lara, $15 \ddagger \mathrm{c}$ c. to $16 \ddagger \mathrm{c}$.
per lb. for extra pure, and 9 tc . to 10 c c . for compound.
Potatoes.-Very little change. Prices are no doubt being kept down by the
large offerings of stock which would go large offerings of stock which would go go
bad shortly if carried.
Meantime, prices are 7oc. to 75c. per bag for Coblers,
carloads, track, per 90 lbs. $\begin{aligned} & \text { Jobbing }\end{aligned}$ carloads, track, per 90 1bs. Jobbing
prices were 15 c . to
to
 dozen; No. 1 stock, 28c. per dozen, and
No. 2 atock, 25 c . per dozen. Syrup and Honey.-Prices of honey ar
frm, being 16 देc. to 17 co . per 1 b . for whiteclover comb honey, and 12c. to to
12 देc. for extracted, dark comb being

to $9 \ddagger \mathrm{c}$. per
8 ic . per 1 b . in tins, and 6 ctc . to 7 co . in

more, prices advancing to a new revel
in the country. Prices here were nbout
 eryo and from tc. to 1 c . Less for less
choice.
Dairy
butter, 25 at.
$\underset{\substack{\text { per } \\ \text { Grain. } \\ \text { li. Market for }}}{\text { fots showed little }}$
or no change, N. 2 Canadian Western
oats being 51 c. to 52 . per bushell No


to 68 c .
Flour.
Folour-There was a decline of 20 . per
barrel in price, Manitopli first

 rollers $\$ 4.95$ to $\$ 5$ in wood, flour it
iute being 30 . less. Millfeed.-Prices fairly frm. Bran, $\$ 23$
per ton in bagss shorts, $\$ 26$ to $\$ 27$ per per ton in bags; shorts, $\$ 26$ to $\$ 27$ per
ton; middlings, $\$ 28$ to $\$ 30$ per ton; mixed mouille, $\$ 34$ to $\$ 3$, and pura
grain moulile, $\$ 36$ to $\$ 88$ ver ton.









## Ohieage.



## Cheese Markets.




 vile, Que., 11 itc.; Canton, N. Y., butter

## Bpitish Cattle Market.



## GOSSIP.

Attention is called to the advertisement in another column of N. A. MCgood Shorthorns and Oxfords. A choice bull calf is in the offering, and ram and ewe lambs of the right kind are for sale at reasonable prices. Look up the ad-

In addition to the Shires mentioned in the sale advertisement of Porter Bros.,
Appleby, Ont., to take place December th, is a bay threo-year-old a fine type of this grand draft breed, sired by the champion, Sand Boy- (imp.) [386]
21832), dam Normoor Nell) 21832), dam Norma
Bank of Wales (imp.)

The report of receipts and disbursenents of the American Shropshire Asso-
ciation for the fiscal year ending September 30th, 1912, shows receipts, \$18,169.47; disbursementso $\$ 13,908.64$, and cash balance on hand October 1st, of
$\$ 4,260.83$. Receipts for pedigrees were 4,260.83. Receipts for pedigrees were Association will take place at Union Io .. m .

At the dispersion sale in Chicago, Abram Renick, until recently of Winchester, Ky., the cattle, being sold fresh from the pasture, without special fitting, brought moderate prices, the highest beDuchess 71 st, purchased by R. A. Fairbairn, Westield, N. J. The sale list
shows a distribution of the cattle from Maryland to Montana.

Sale dates clatmed.
Nov. $21,1912-$ Dr. McEachran, Orms-
Nov. 27, 1912-D. C. Flatt \& Son, Ham-
ilton, Ont.; Clyde fillies.
Dec. $\quad 5, \quad 1912-$ Porter Bros., Appleby,
Ont.; Shires.
Dec. $17,1912-W . ~ G . ~ W i l s o n, ~ G o r i n g . ~$
Ont.; Shorthorns.
Dec. 18, 1912 -W. A. Bryant, Cairngorm,
Ont.; Holsteins and Oxfords.
t.; Holsteins.
1, 1913 Geo. Rice, Tillsonburg,
t. $\quad$, manager; Holsteins.

TRADE TOPIC.
TMRUGH PULLMAN SLEEPING CAR
TO OTTMWA VIA GRAND TRUNK
The (irand Trunk Railway operate a
Whrow, Pullman sleeping-car (electric-
limbled) to ottawa, leaving Toronto



Woodrow Wíson.
President - elect, United States.
The New President of the United States.
As all the world knew by fash of November 5 th, Woodrow Wilson is to be
the next President of the United States, and will assume office on the 4th of
Narch, 1913. Perhaps his election was March, 1913 . Perhaps his election was
generally expected; the surprise comes in generally expected, the surprise comes in
the overwhelming submersion of the Re pubican party, True, it was divided-
Roosevelt's Progressive movement took away 76 electoral votes that it might
otherwise have hadi-but, even so, the
 Raosevelt, 76 ; Tart, $28, "$ reveals a a dios
satisaction with provailing conditions to a degree as overwhelming as unsus-
pected by the world at large a
too legime of the per popublicans has been
years contith sistinuance in offlice usually meen a need for tor coury blood." usually means
Demat the
Democratic parly will do towards Democratic party will do towards
ameliorating
unsatisfactory
conditions $\begin{array}{ll}\text { remains to be seen. } \\ \text { to a Every } & \text { election is, } \\ \text { great extent, a } \\ \text { trial. } \\ \text { The old }\end{array}$ regime has not been all that could be
desired, let's try a new one. desirod, Iet's try a. new one. Perhaps
it may be better. "Le Roi est mort;
vive The new President is, perhaps, the most scholarly man who has ever
aspired to the epresidential chair of the
arent country to the south oof us, but
 academic type. Foes, as well as friends,
have agreed (perhaps his foes were not have agreed (perhaps his foes were not
foes in htose days that he is a man of
keen insight, as well as of or brilliant intoes in those days) that he is a man in-
keen inisht, as well as of brilliant in-
tellectual ability.


 Irofesorships at Bryy Mawr and at
1r rinceton, where he held the chair of Princeton, where he held the chair of
jurisprudence and politics until 1902 , working meantime on his "History of
the American People." in ino he has
clected President of princeton, but was clected President of Princton, but was
called from his work there to the bril-
Cild liant political career which has been his
as Governor of the State of Nev ersey.
as That he is a thorougg gentleman, as
well as a thorough politician, is evident trom his prompt cancellation of all
speaking dates immediately on hearing
of Mr. Roosevelt's mishap at Milwauke, cabin. Soon the sun shone out again, and his firm refusal to speak or work
at all in his own belarif so tong as his
opponent was opponent was not able to meet him on
fair ground. Mr. Wilson has declared that his policy
as leader of the Democratic party of the United States, will be to urge, as rapid-
1y as may be practicable, reform along many lines.
"
"iberal"
in will be the active move-ensily "conservative." Ho stand
for concretyo terms, direct primaries, short ballot, and, when necessary, the
referendum and the recall, Ci 'short, referendum and the recall,-in short, as
hee puts it it for "the placing of the ma-
chinery of political contron in the hands of the people.". He aims at Afghting
the monopolies of the country primeril. the monopolies of the country, primarily
by lowerin the taria, seocinariy, by ithe
regulation of corporations themselves, segeifying especially the "money mon-
opoly, opoly.". His platiorm, he declares,
constructive, and constructive with constructive, and constructive with a
view to esrong the whole people, so
iong exploited for the beneifit of the few. ""on, the greed of these men," he ex-
claims, "the indulgence the eternal inclaims, "the indulgence,
dulgence of selfishness !" The working out of those principles
which the new President has declared, will be watched with int torest by the shutting ones' eqees and rofusing to seoe,
the tact remains that, becounse oi mere gographical proximity, becuuse or merthing elere the fortunes of Canade must be inter laced, more or less, with those he
estimable neighbor across the line Hence, is it that the Dominion watches with littlo less 'interest than in heir own events in the United States.

## A Tipip to The Tpossachs

By Marion Bell.
A July day, and bound for the Tros
sachs !
Could a pleasing ?-Ror the mere announcement o
the Trossach s suggests the beautiful, the the Trossacha suggestst the beautiut, the
romantic, and the historic, all combined romente the actual experience more thai
buat
rellizes all that could be imagined realizes all that could be imagined.
It was one morning early in July that It was one morning early in July tha
a number of Conadians met at the tow Central station in the city of clasgow waiting for the train, which was to be
gin the trip to the Trosacha, for us gin the trip to the Trossachs, for us,
just on the diot. for trains in Britain are almost invariably on time, the train pulled up, and our party, boarded the cars, marked "reserved." We found
that the train, unlike ours, is divided that, the train, unlike ours, is divided
into many very small compartments, in which are two seats facing each other, with a door on each side, the uppen half being of glass, thus serving tor
windows as well. windows as well. Thus, we had to
vide our party
vinto
exed the tered the train. We had a very fast
ride and we soon had to get rid of the ride, and we soon had to get rid of the
iden that it is only in America that we
wo have speed. Our train journey was
short, but in the meantime we caught glimpses of the beautirul landscape. Wo came to a standstill at Balloch, a name
we found a little diffcult to pronounce as well as many of the other Scottish names we had to incorporate into our
geographical vocabulary. We left the train at Balloch, and swung in file agin and which was to convey us
Prine George," whic over Loch Lomond, that name
heard of in song and story, and which now was spread betore us reatry
Every Everyone sately on boara, we were sthe
gliding over its calm waters, with the beautiful panorama of hills rising on
either side, one behind the other, and alternate with it. A mist passed over
the hills, and showers fell on us, so we
crowd topether in the small

Cabin. Soon the sun shone out again,
unfolding before us the beautiful coloring of the braes. The run up oloch
Lomond had double fascination for the cotch-Canadian, who was familiar with the stirring history of his antecedents.
There were) some islands doted about the lake, which furnisbed the battle - cry of some of the clans. There were the
yew trees which Bruce Planted tor Jow trees which Bruce planted $\begin{aligned} & \text { for get- } \\ & \text { ting bows for his warriors. } \\ & \text { It }\end{aligned}$ was along these shores that Sir Walter Scott gathered much of the material for Rob
Roy. All too soon we came to Tnverra naid, where wo left our boant and sought our coaches, for we were now to have All provided :or, we were clattering over the
We se stone roads of scotiand
fan there were the long-hornad sheop grazing upon the hills; here were the carefullytended vegetable gardens beaide the thatched cottages; again wore rugged
stretches dear to the artista' eye, though useless in the estimation of the utilltarian. Ac some of the more lonely spots, Highlandmen appeared to greet ys with the sound of pipes, and it Beemed
here to be the proper atmosphere for them.
After arrival at Stronachlachar, we hied away to the steamer, the Sir wailor
Scott, and we were soon eniovina the scott, and we were spon enjoying the
enchanting vistas about Loch Katrine. We could appreciate the reality of the scenery of the "Lady ot the talake" ofter
this ain this sail over Loch Katrine, There was
Eilen's Isle, a bower of beauty, surrounding hills that must have produced the echoes, of Fitz-Jamee' horn. to foregoue days. After, a short gall, wo same to Hotel, ausho phet hears the Troosachs Hoter, to which we proceeded. We
dined there, and the welld dreped, porter and waiter gave us quick Beiryce, Ror
carriages were awaiting us to convey us carriages, were
to Callander.
Another delightful drive over the beauin the beauty of the scenery. A quiet meadow, with shaggy, Highland cattle festing or grazing upon it, met our eyea of modernity or commercialism to the scene, were soime men gathering bark for
tanning purposes.
Those of the party tanning purposes. Those of the party,
too, who were familiar with "The Lady too, who were familiar with "The Lady
of the Lake," thoughit this a most fasclnating drive, for here was the visual story in the Brig or Trik, Ben Ledi's
Height and Coilantoope's Ford. Height and Coilantoped's Ford.
Again at
the jumping - of place, and now it was Callander, whifh gave us the impression of being a thriving town,
very substantially buith
with its very substantially built, with its atone
buildings and stone dylkes.
From lander, we took train toor. historic Stirling. on arrival there, we secured carriages and drove about to see the places
of interest. We were at the Bor of interest. We were at the Bore
Stone, where Bruce planted his standard and saw the ground where the opposing
sha armies stood, and where he atte of
artul work previous to the Batle Bannockburn. Stirling Castle overlooks the field, and stands on a very forbidang precipicic. Access, however, an be bated
gained on one side, where there is a more gradual ascent. We passed over and thence through its several apartments, a number of which are now used as barracks for soldiers, but the rest
open to the public, containing souvenirs of historic import. From the esplanade of the castle, we got a magnificent view of the fields below, cut in fantastic
shapes, with the lofty background of shapes, with the lofty background of
Ben Ledi and Ben Lomond. From StirlBen Ledi and Ben Lomond. From Stirl-
ing Castle, we drove to the Wallace monument, one of the most conspicuous obment, one or the most conspecons
jects in the chty on account of its elo
vated position.

We returned to the antique station of Stirling, and as it was now dark, we
took train back to Glasgow with vho consciousness of to Glasgow with vil filled day. At the end of it ared a assurance that we could not have spant lovelier day, for "in natural loveliness of scenery, variety of storied inter est, and unfailing summer charm, there is nothing in Scosland that can surpass

## Hospital Nursing at

 Home.(By Elizaboth Robinson Scovil), late uperintendent of the Nowport Hospital. 1

> FBeding THe siok.
$\qquad$ medicino. If the disgetion is over-tazed
by the wrong kind of diet, or by food given in too large quantities, the pa tient suffers. On the other hand, it tho nourishment to not suflecont, of of $=$ the strength declinee. Doctorb, as



A wismagzasure.
When a person shas been. ill only a if therp io , an unvillingneose to salo it: Most, paoplo eat more than te necemary to maintain them, in health. When illopportunity ito seet xid of aimaen of hall-iligoted material, it is heot to ab Iow it to do so ...7thouth adding smore When, a child, or oven an adult, foole unwell, it ie a wiep procauition to folet over cone cor morea meal-times, itakingie
little milk and little milk and water, or a oup of tan:
it thare is an senastion of hunger. rest doee the atomoch yood, and pro
pares it the better to moealve and abpares it the wotter to roeedve and ab-
sorb the liquyd dilet that wil bo bive the tilinese proves serious.
thrbe dlasses.
Food for, the alikk may, be divicad. into
 diet is usually restricted to quide, at practice to give semi soolid. food in typhoid fever,., and some dootores, allom even bread. However, liguida aro mpually the only. Aorm of nourliphment pergenuity to make the pationt. taka, all that is presecribed, : nurse the patient is consclous, a. good bill-ot-fare to make, it as attractive as possible. If the sulferer is unconacious,
the taski is neessary to give the required amount ${ }_{\mathbf{I}} \mathrm{t}$ will be tervals.
a sheet of paper aith the houre keop a sheot of paper with the hours when
the food should be. given plainly marked on it, and to check orf under these the time and amount of food given. This
prevents mistakes, and makes it eniler to report to the doctor. Just how ofter
nourishment was given, and how much nourishment
was taken.

## liquid diet.

Maik is the staple in liquid diet; it may bo given either with or without the comes gruel, made trom different ceroals, and Lastly, meat broths, beef, mutton,
etc. Those who are not fond of miby tire of it very quickly, and it requiree much patience and ingenuity on the part
of the nurse to get the necessary ament


In the Trossachs.
taken. She must disguise the taste in
different ways, and modify it so that it will not excite disgust.
Milk - If milk cannot be digested alone
 peptonized, or partially digested, before giving: tablets for peptonizing can be
 the purpose.
There are many favorings that can be added to milk to make it more palat-
able. As a rule, the taste is dulled in able. As a rule, the taste is dulled in
sovere illiness, but in lighter cases the patient is very glad of any change that can be devised.
Sometimes a little sugar can: be addedi and the milk flavored with a few drops vater. relished. Ocasionally a little salt is collee, or tea, takes off the insipid taste that is disliked. Cocoa may be used it agrees with the invalid. Milk and Eggs.-When more nourishnent is needed, the milk can be enriched is made by putting a glass of milk and the white of one egg into a sell-sealing jar, screwing the top on firmly, and
shaking for three minutes until the conahaking for three minutes until the con-
tents are thoroughly mixed. Pour out and let the milk stand until the foam has subsided. An egg can be lightly beaten with gradually, still beating, with sugar and flavoring is desired. If the whole cannot be borne, half the quantity can be given at once. The yolk of an egg
contains principally fat. if it cansot be taken with milk, it can be taken alone, the juice of an orange added, and alone, thash of lemon juice, if liked.
Buttermilk.-When the acid taste is no disliked, buttermilk can be given to ad
vantage to vary the diet. Very ex travagant claims have been made for it such as that the lactic acid it contains destroys the bacteria in the intestinal
anal, which poison the system, and that if drunk persistently, and in sufficien
quantity, it prolongs life to extreme quantity, it prolongs life to extrem Whey.-If the digestion is very muc out w, order, milk may have to be with
drawn altogether, and then the questio drawn altogether, and then the questio of a swhtitute for it becomes a ver
pressirg one. To make it, put a tea pressirg one. To make it, put a tea-
spoosfin! of liquid rennet into one pin of warne milk-it must be lukewarm, no
hot. form. Break it up with a spoon, and
strain ofl the whey. Sugar may be
edded, vary little sherry
Koumis. -The original koumis was
made in Arabia from mare's milk. We made in Arabia from mare's milk. We
nakk it of cow's millk. To one quart, slightly warmed, add two tablespoonfuls of sugar, and the same of liquid yeast,
or one-third of a yeast cake. Set near or one-third of a yeast calke. Set near
the fire until bubbles begin to rise, then stir dire untill fubbles begin to rise, then and tie down the corks. Keep in a temperature
Albuninized Water.-When no other food can be retained, the white of an egg can


Loch Achray and Ben Venue, the Trossachs.
in a jar, and a teaspoonful given a short intervals. more palatable. Gruels.-When digested, gruels may be made with water The cereal should be well boiled, though oats, or oot as important when flaked
grain that has been pre viously prepared, is used.
Gruel easily drunk. It may be made with water, and then may be made wined with milk. Either salt or sugar can be used to flavor it, though, as a rule, the sick do
not care for anything sweet. A little not care for anything sweet. A little
cinnamono is a pleasant addition.
Oatmeal, barley, corn meal, rice, corn-
starch, and arrowroot, are used in
gruels. The latter is made by mixing a tablespoonful of arrowroot to a smooth paste with cold water, then pouring boiling water on it until it thickens.
The water must bubble, or the arrowroot will not cook.
A double boiler is useful in making gruel, as there is no fear of the con-
tents burning. When tents burning. When one is not at hand, a tin kettle, small earthen jar, or
granite pan, closely covered and set in granite pan, closely covered and set in
a saucepane of boiling water, is a good a saucepan
substitute.
Beef Juice.-This is more nourishing
than beef tea, as no water than beef tea, as no water is added. There are various ways of preparing it
Cut a pound of meat from, the top of the round, where the meat contains the most juice. Cut it in strips, place them on a gridiron, or toaster, and hold them over a hot fire for a moment to bring
the juice to the surface, and squeeze them in a meat press, or lemon-squeezer.
Give it very cold, or hot, as preferred. Heated Beef Juice.-Place the meat, cut in small pieces, in an earthen or glass
jar, stand it is a kettle of boiling water, pull this aside and keep it simmering gently for two hours, or more if the meat does not look pale and shrunken, as if the juice were extract
Cover the jar closely while cooking. Beef Juice and Cream.-The juice uns from rare roast beef can be saved. and mixed with an equal quantity of hot cream. Add salt and pepper to ean mutton, the fat and skin having been carefully removed, add a quart of water and a pinch of salt...After it
boils, simmer slowly for two hours. boils, simmer slowly for twg hours.
Strain and serve.
Egg Broth.-Beat an egg very light Egg Broth.-Beat an egg very light
with half a teaspoonful of sugar and a with half a teas̀poonful of sugar and a
very little salt. Pour on it slowly one very little salt. Pour on it slowly one
cupful of boiling water, stirring constantly to prevent cureling.
Meat Broths.-Broth cannot be dependd upon as a sole nourishment; it lacks some important food elements. It makes
a. pleasant variety in the monotonous diet of the sick, and acts as a stimulant to the stomach, enabling it to digest mill better than when the latter is Beef Tea.-This is always the first thought of when broth is ordered. Riound teak is a good part of the yneat to use for it. Cut a pound of steak into small pieces and cover it with a pint of cold
water. When it boils, set it back on water. When it boils, set it back on
the stove, closely covered, and let it
simmer very gently for an hour
of the liguid,
eeason, and or the liguid, season, and serve
Baked Beel Ten -Cut into small suuares, cover it with a bee
of cold water, put it in a bean-pot, other earthen jar, or casserole, in th oven, which must be cool, and bake to
two hours. twot hout
Veal Broth.- - Broth is made from veal
ne the same way as mutton broth. It in the same way as mutton broth. It or mace, with a dust added, besiae the sal.
Oyster Broth.Add thin cream to the same quantity oyster liquor. Rub up one teaspoonfu and add to the boiling mixture, stirring until it thickens. I the oyster liquor
is salt, add less, only enough to is salt, add less, only enough to give Clam Juice.-The juice of clams can be thicaned in the same way, or given plain, either hot or cold. It is not very nutritious, but will sometimes b
retained when nothing else etained when nothing else can be kept
down. The bottled or canned clem diuice is very good. A very little avenne pepper makes it more stimulat
ing when given as an appetizer. wilk soups. - These are suitable convalescents, and are made by adding various vegetables to milk, binding the misture with a little flour. Potato comato, celery, asparagus, green peas,
caulifower, in tact, any delicate vege table can be used. The method is the same in all. The vegetable is cooked and mashed through a colander, the
mill rubbed together is added, the miztur combined, and allowed to come to the boil, then served immediately.
appliances for administering, When a person cannot be raised, or
sit up to take food, a feeding-cup with the iittle haul-coverad prided, or oue the purpose. A small earthenware for pot makes a good substitute
A bent-glass tube is useful, as the pa Hent can draw thin fuids through it without lifting the head from the pill
low. $A$ piece of rubber tubing can. low. A piece of rubber tubing can be be
used for a short time, but is dimeult to clean.
If the sick person is unconscious, the
nurge may insert her little finger in the nurse may insert her little finger in the
side of the mouth and draw it gently away from the gum, pouring a teaspoonful or liquid into the opening. It will triekle through the openings between the
teoth, and And its way down the throat. Somotimes rubbing the tips with the tip
of the spoon will induce even an ap
parencly unconscious person to open the with the result of added interest in our In the next paper, subgestions will be wat

Objects and Benefits of The Women's Institute. paper given at the Garden Hill
branch of the Women's Institute by Mrs. F. Irwin.]
bentitute, In the first place, may I ask: Is the Institute a benent to the community each member is izealous in her work for for
the the Institut. Zone ous in her work for
the Ineat advantage of the Institute is is the briat bing the people of the community together so that they may become better acquainted with one is a great privilege? Just take our own community: There have been neighbors living quite close together whom
we have seen frequently Ne have seen frequently for years, and Institute was acquaintod with until the number them among. our very best rriends. Then, the papers that have been given, and. the discussions followors, as well as to members. . Truly, the social side is a very important part. Again, the educational part of it cannot
be too highly estimated. We to be too highly estimated. We are taught, stitute, better methods of doing our work, each in her own sphere. The progressive individual is bound no longer
to one idea; the plan we have alwary followe idea; the plan wo have always
followed may be made better by following the ideas of others. Also, we have learned to take better care of our health. We are none of us too old to
learn to discard wrong methods for the learn to discard wrong methods for the
right ones, and to undo mistakes resull ling from ignorance in the past. I do not claim perfection for our In-
stitute, for that organization has been thought of that none can find fault with, but-are we benefited by meeting ogether? It would be impossible trom Women's. Institutes, they are numerous, but I I will give a summary 1st. The fact of being banded togother has broadened our ideas, and has made nethode liberal and tolerant towards the 2nd. Many useful hints on cooking. and everything pertaining to the house hold, have been interchanged.
dey work importance of women's everyday work has been iven a prominence
in our minds never before thought of,
with
4th. By coming together at the meet ings, often from together distant points, the vomen of our country become better acquainted, and are thus more sociable.
5 th 5th. Our local Farmers' Institute and
our own feel mutually helped by working together. In proof of this, the last report of the Farmers ' Institute shows
that it has been of more that it has been of more beneft to the
farming communities than any orgatio farming communities than any organiza
tion that has been introduced, and the Women's Institute promises to even surpass it, as it has a wider scope suan the men's. It is not confned to the
farm alone, but deals with even higher subjects. The women realize that they need instruction in proper methods as well as their husbands, and thus we can
make ourselves nem men make ourselves new men and women by
giving attention to the benefits of our giving att
Institutes.
ship : best way to increase our membership: If I were to give an outline, it
would be something like this:- Interest in others; knowledge of work; love to
work; unity.
Combined bring about, without fail, an increase o membership. Have something under
cover for cover for emorgenies. Have a miscol laneous programme at our meetings
variety, and something adapted for all women, so that they may all take a part. We want a little nonsense with a great deal of sense for our meetings.
Wo like to hear from cooks, needle women, nurses, hartists, clergymen, med ical doctors, bachelors of art, and King's counsels.
instructive,
beneficial, should programme, which shotild suit the tast of each and every member of the Women's Institute.

## Some Old-Time Echoes.

## on trek in ter trangia

xIII.
breakfast by a tarm us out-apanned for break ast hy at arm at the foot of the
frat hill of the Waterburg Rango to Which we had seemed so close during the
terrible storm of the night before, but terrible storm of the night before, but
from which we had actually been nome miles away. There the graseea were. re markably fine and iń great variety.
Fine trees,
blue Fine tress, blue gum pricipally
planted only four or ave yoars ance but planted only four or aive yoars ago. but
over ifity foet high alreendy, bounded the homestead on one sidee, and and beautitul
orangegrove the other. Several wing orangogrove the other. Several wagon were out-spanned amongst the treee with
women sitting sewing and childrea play women sitting sewing and ehildren play-
ing, as much as Dutch childroen can


Trossuchs Hotel, Loch Achray
play, around them. Altogether the spot
seemed more inhahited than any through which we had passed. The dreary risolation which had chinsed us
as we had looked back upon the lonely as we had looked back upon the lonely
homes to which these people of tree will had banished themselves, and in which we had seemed to leave them whore lonely still as we trekked slowly by.
was not so striking was not so striking here, and these good
folks looked all the brighter and keener witted in consequence.
Something about the sjambor The first object which caught our eyes was a huge banyan-tree, of great ages uspended. From its boughs were kkins, looking gaunt number of girafte first sight, as if they were the animals themselves. These were arying, pre viously to being cut into strips, which strips go through several processes be-
fore they emerge into reins and whips whips of a power to lacerate and sting which it makes one shiver to think of and rouses one's sympathy for the poor scars to which, many of them, carry the But the word
deaning. word "grave" misats my The South African ox rarely has a grave. Where he falls he lies, till kind of the air finish what the jackal bircia of him, or he works until he can work no longer, and then man, his master ats him also, only in more civilized (pronounced shambek) of this country is a whip to be remembered. The strips of which it is made go through repeathed and continued soakings. They are then
suspended from an iron hook in the suspended from an iron hook in the Kaffir (possibly more than one) hengs on o them, leaping, and jumpting, and dancing Dervish or a black aerobat raining until each strip has aequired its expected hardness and is atrotched Telit otreth furthe. another, of a type equally priminitive and ne which may not be without an inter est for Canadion farmera, if only iby way
of contrast to their of cob.
It is that of threshing and Arossing the corn. The sheaves are thrown upon the ground of a cleared circle of large circumference, and jito this sirele are horsees, a, twoy standing in their midot with a long bamboo whip to mee that they tramp about brietaly until, the
threshing is satiofactorily accompliined. The winnowing. ete., momanagod aftior
as aimple a method merely by rubbing
the corn through the angers, and letting the corn through the angers, and letting
the wind carry of the chall at the same the wind carry of the chafl at the same On the sth July, our log. records:-
Our lines have fallen in plonsant
olaces, say we, as we start after our places," say we, as we start after our
breaklast from the German Mission Station, bearing with us as gitts the contents of a huge pan of oranges, of which refreshing fruit we do not tire, at though we eat them wholesale,
We were very pleased with the We were very pleased with the mission
station in every respect. There was an air of settled repose, and yet of growth good to see. The Kamrs, men, women
and children, all clothed, thement and children, all clothed, the women en-
gaged in domestic labors, and the chilgaged in domestic labors, and the chil-
dren trooping to school at the sound of its cheerful bell as naturally as any o our English little ones at home. A
foundation is laid for a church, and in its eventual uprising amongst them the Kaffr inhabitants of the place manifest much interest. It is their loving hands
which plant flowers upon and tend the which plikept grave of the pastor, who ha well-kept grave of them, and to whose
been taken from them and
memory they thus love to testify their memory they, thus love to testify their
enduring respect. enduring respect.
Birds of all
plumage, chirped and coquetted around us, seemingly without fear. Hawks, eagles, buzzards, and the secretary bird,
besides many smaller sorts, none of the latter keeping up a continuous song, but twittering conversationally, and appar ently all in high good humor with one
another. Several of the parrot tribe another. Several of the parrot tribe
peeped down upon us with that quizzica air common to their kind, as we fed under the boughs upon which they porched
The secretary bird is the great snake The secretary bird is the great snake

 erable height, aggain and again, until lit Thi. We have actually no lion adven-

 vamped uscathod is not owing to any




 theose tor our ase, wers tastenod to the Som ot the wagons. leat, in case ot ${ }^{\text {at }}$ ourred they whound do the theter and our pepair
Came must have bean plentitul further

 oxen whey can got chante ar them
 have tho fonet ohanco to asul, wouch Titierif are mot with about this and pasaed, and through which wo mutt pase
 windses, and it is trinexipinily when than dityon or game makem them raotion in Perraps amonest





 mindid to the surroun
Wo had atcompotitiod tho fora eatly,


 and other witd whatsi Mhere were

 bianking and bubbing we could haer
 whilist adding to tite charro on on nearer





 man sut out from our viem ny the wind.
I do not quate all that my notes had
to tall ot otid tragedies upon the runed






## Hope's Quiet Hour

## The Seience of Living.

Wut to do justly, and to require of thee o walk humbly, with thy God.-Mical We ind ourselves in this world without our own choice, and most of us have
little chance of choosing our own work or environment. But that is no reason drift past. us unused. One one person is
un tremendously interested in the science of
money-making, another devotes all her energiees to making a suvcess of house-
keeping, another is willing to sacrifice time and comport to the science of mak-
ing friends. There are plenty of ob-
jects to which men and women dever jects to whi But there is is ane and perseveringly. the rightful business of everybody is science of living. We have been told
about "the man who was to do his duty," who shouldered such a
lot of work that he scarcely had time tô become acquainted with his own wife and children. There are plenty of women
like that. Copying the immortal "Mirs.
Jellaby," they' load themselves down
with with
their
quences quences in the shape of neglect, pre temper (the natural result of over-
strain). That doesn't seem, to be exactly the way of mastering the science of livingo doos it ? often the best and way. I know of one such case. on a career of great usefulness. He
was a bunning and a shining light, respected by all who know him. But
paid no heed to God's command abo one rest-day in each week. The week-
days were spent in earning his living the evenings were enthusiastically de-
voted to philanthropic work, Sundays were filled with classes and services, so
that he had scarcely time to sandwich in a hasty meal or two. He was little physical strength gave way and he had to stop his cherished works, dying after an illness of a fow days. "God takes
away His workers, but their work gees on." Yes, but when He places a soul in a body, He expeots the soul to have
some mercy on that body. God is a
Father: Does any kind Father! Does any kind father want his
childrea to kill themselves in working
for him?
We have a certain number of years
committed to us in trust, and it is our business to spend them to the best advantage. That is the science of living. learn the best way of living while young; which none given, these priceless years, hands, may be thrown away. If we recklessly weste. the golden days of
youth, it is quite impossible to go back youth, it is quite impossible to go back
at thirty or forty and redeem them. But, even in old age, we are not too old to begin the science of living. Our Lord
has told us that some of the has told us that some of the laborers
in His vineyard, who only join His company of workers one hour before sunset,
will receive a full day's wages. we are to a spend our lives to the best
advantage, we shall work for stvantage, we shall work for love in-
stead of for wages, and shall earnestly desire to pour out the treasure of a
whole life in our Master's service. It we can please Him, we shall be living splendidy. How are we to do it?
It is wonderful how the Hebrew proph-
ets insisted on the real thine ets insisted on the real things, that is,
the secret and invisible things. Though the secret and invisible things. Though
God Himself had ordained the outward ceremonies-the sacrifices and ritual of the Temple services-every one of the
prophets declares that holiness is the priceless treasure, without which even
the offerings which the offerings which God had "commanded
were an abomination in His eyes. The prophet Micah asks how we shall come
before the high God. Will He be before the high God. Will He be
pleased with the sacrifice of ${ }^{\circ}$ thusands
of rams, or with ten thousand rivers of oil? Does He demand the surrender of
our dearest possession?
Then, the question is answered in the Then, the question is answered in the
words of our text: ". "He hath shewed
thee, o man. what is good; and what


 whole ground.
"To live juaty": that would stop




 prico than usual, so that it may bo bod vertised and sold at at ehaperer rate. women rush to got road--made garments








 intercourse with other poople, and by
thinking
more
and
talking
Iess;
 ${ }^{\text {aro }}$ going
Then, think of the next duty, "to love
mercy." mat means, it seems to me,
that we must ENJOY being kind
can we must ENJOY being kind. There can be no conceit about money given to
the poor, about church-work, about any
kindness we may have done. We don't kindness we may have done. We don't
feel very virtuous when a friend gives
us a present; and, if we "love" mercy,
then the chance ofere then the chance offered to us of doing
a kind turn to somebody is a gift of
something we love. How very dreary lite would be if we never could show a
kindness to any of God's creatures. If
we could no we could nol give a bone to a dog, or put a dainty bunch of fresh flowers or
a guest's bureau, or offer a prayer for those who are dear or are in need, then
we might have good reason to feel dewe might have good reason to feel do-
frauded. Every morning we wake up
with the sunshiny thoughit that we shall have chances of being pleasant and kí Even those who live alone can be kind
in their thoughts, and feel pleasant. A big part of the science of living con-
sists in being pleasant always, even when
things are things are at sixes and sevens, and Irishman who said that the masn't it an shone on bright nights when no light
was needed? Well, our business ig to be happy when happiness is most needed, rather Irish, too, but you know there are people-other people-who enjoy being miserable. At least, they love to
dwell upon all their sorrows and aches, looking at them through magnifying
glasses, or holding them always so close glasses, or holding them always so close
to their eyes that they have no chance
to "consider the lilies." what are lilies for, anyway? They are not good to eat or to wear. You can't build
them into houses. I think God made
them for our plensure, to make us happy. The world is so to misquote Stevenson-that we who
have eyes and ears ought to happier than kings ought to be far
sider the dandelions and are. Conthe peaches and sunsets, the dainty
humming birds, and the gorgeous peacocks. If we really take norgeous pea-
the delightful things about us, we all the delightful things about us, we may
forget some of our big troubles, and grow ashamed of grumbling about the
little ones. If we drink in fresh air
and sunshine ioyously well sunshlye hapy that we we chall help be shant-
ing to make other people happy, too. is depression. We can radiate sunshme. wherever we live. The thoice lies with

Then we are told to "walk humbly
with our God." with our goa. make us humble. On On with Him must make us humble. One
is beautiful, and is proud of her beauty,
as if she had made it herself. God gave the beauty to be used for Him Another is proud of wealth and posi-
tion. Yet God gave both, and can as easily take them away. Another as proud of his intellect. God chose to
give him mental power, and opportunity to cultivate it. No man made himself clever, and even the ability to acquire knowledge, or business capaeity, artistic
or musical talent, or physical strengt comes from God every moment. Wo could not draw a breath without Him. How hard it is to walk consciously with God. We dash headlong into work
when our morning prayers are said perhaps we scarcely remember His Presence once until we kneel down at night,
almost too tired to be able to concentrate our attention on our evening
prayer. We say that we love God first and best, yet we forget Him for many
hours at a stretch-sometimes, perhaps hours at a stretch-sometimes, perhaps,
for days together. That kind of love must be very disappointing to the Divin
Lover, Who never forgets us. Listen Robert E. Speer. He says: "I think very many times of the one I love best.
When in the night I awake, my first When in the night I awake, my first
thought is of her; and, when early in
the morning the sunrise comes stealing the morning the sunrise comes stealing
into the room, my first thought is of hor, and constantly through the day my
mind goes out to her. I think of all the sweet things she has done, and I do
remember her. I wish I might as often remember her. I wish I might as often,
and as well, remember Jesus Christ. Let us begin now."
The The science of living is most exciting
and interesting. We are a long wa from perfect yet, but we can climb a little nearer it every day. The whol
secret is wrapped up in the last command "to walk humbly with our God." Let us begin there, and stay right there,
or come back as soon pas we have left

For evermore beside us on our way,
The unseen Christ does move."
dora farncomb.'
Stap=Led to the Heights
Price, 35 cents, or three oopies for a
dollar (postpaid). The Williaim, Weld
Col

## The Meriding Basket

She Likes the Lot of Fapmer's Wife.
I have read with a great doel of in "'The Farmer'a, Advocate:' regarding wo-
After reat the farm
After reading Sherard McLeay's letter
jade up my mind to m a very different viewpoint. too, but Children, and until the with three small done all my own work on a month have do as she saym, and have never had to but I hark no doubt is hard and steady wives or daughters who were such slaves as she pictures them, and the few 'I have
met with lived that life were over-anxious for the almighty dol-
lar.
As far as my experience goes I have
never been afraid of asking for help, and
if it was in reason if it was in reason at all I got it. As
for helping with the children if they need attention at night it is oftener my hus band that attends them than any one
else, and if possible he is else, and if possible he is always willing
to take them with him through the day as soon as they are big enough.
I am never asked to do any outside work unlesser in a bed to do any outside
man mime. I help.one man milk, but I think it would be a
poor helper who couldn't do that. Of course it takes all kinds of men
(and women) to make a world, and per(and women) to make a world, and per-
haps my experience has been a happier
one than most. has been written on the subject lately
is true I have not known how to be
thankful enough iot the

NOVEMBER 14, 1912
THE FARMER'S ADVOCATE:
To Seottie I would say it never hurts
a man to be able to help in the house. a man to be able to help in the house.
I am sure my husband has many times I am sure my husband has many times smoother for both of us.
Hoping to hear from other happy Hoping to hear from other happy
wives on the farms I will close with best wives
wishes.
Halib

Is Mappiage a Failupe? WORK ON THE FARM. So you can't believe, dear Editor,
that women are as busy on the farm as Sherard McLeay states. Well, they are at least the most of them. It is a
well-established custom, particularly in Canada, for the women to looke after the cows, calves, and chickens, and pigs oc casionally. So well established is it that the average woman thinks nothing
of it, and is inclined to believe that if her neigh円or does not do these chores
she is apt to be lazy. In fact a woma she is apt to be lazy. In fact a woman
told me one day I should have married a bank clerk not a sarmer, because I had not weeded the turnip patch. It seems
to be a part of their duty like the houseworls $\nabla$ hich they would scorn to Tp in the morning early, breakfast
over, hurry to milking, separating milk, over, hurry to milking, separating milk,
washing dishes, (minding babies in interwashing dishes, (minding babies in inter-
vals), tidy house, get dinner, wash dishes do mending, sewing, gardening, berry picking, helping in field if necessary washing, ironing, baking, with the thousand and one interruptions, which
come through the day; get supper, put sleepy babies to bed, milk, wash dishes, sew or mend again till bed-time. Don't you think they must be busy ? I do
not do any outside chores excent in pinch, or if $I$ am alone and $I$ find $I$ have all I can do to keep my house and children reasonably clean and tidy.
Sometimes I say to Sometimes I say to the man, "Those manage to do so much work must manage differently than I do," and he an-
swers very dryly, "they do." I was swers very dryly, am doing better every
city bred, but I am dould
year, and should soon be able to hold year, and should soon be able to hold my own. home resolves itself into the question "Is marriage a failure?" which we often see graphically discussed by "great (how rare it is!) in the home marriage is a/ grand success, and man and wite are so anxious to help one another they most.
Then, too, it is necessary for a wo man to possess self-respect, and demand meek mop-rag of herself you can hardly (figuratively). I am sure no self-respecting waman would get out in the morning, milk, light fires, get breakfast, feed
chickens, pigs and calves, all before she ate her own breakfast. Rather than hired man to light the fire, then bess or hired man to light the fire, then get up,
get and eat breakfast, hand the milkpail to one of the men to help milk, feed the chickens and calves, let the men feed the pigs, tend to milk, and so on.
That is the way the majority of the women I know do manage, and the men don't fuss much about it either. Many women are much to blame them-
selves for their husbands regarding them selves for their husbands regarding them
as mere household servants. After they as mere household servants. After they
become wives and mothers, apparently their interest in the outside world
vanishes vanishes, and all their thoughts are
concentrated on the human beings in their own homes. They only get to
town once a year ; what they wear does not matter so long as it is clothes; society is a dead letter; books and
papers non-existent, newspapers only for papers non-existent, newspapers of the
the men, and the conversation of the women limited to butter, eggs, husband,
children and gossip. They become narchildren and gossip. They become nar-
row-minded and quite often fretful, so the man and woman having no outside community of interests drift apart.
The average uneducated man receives more or less knowledge from contact
with others, but for the average uneducated woman this means is not availahle.
The woman should spruce up, read more, at least the newspapers and farm jour-
nals, and she could then take a more intelligent view of her husband's work and
be admitted into a more equal partner-
ship line of work. Women are foolish
to allow work to master them. They never should become so wedded to
routine that it is impossigle to outing because it is wash day. Last, but not least, we should try
every day to take a little time to every day to take a little time to
observe the beauties of nature, the sun rises and sun sets, and the beautiful
flowers. What flowers. What is more beautiful than a
field of waving green wheat? Rich men field of waving green wheat? Rich men
spend thousands of dollars to put on spend thousands of dollars to put on
their walls on canvas what we can look out of the window and see every day.
I am a land-lover. ${ }^{\text {I }}$ love the fields I am a land-lover. I love the fields
with their brown plowed ridges, and
later with smooth furrows to indicate Where the drill has passed. Seed time
is a living example on is a living example of faith and trust in
God who said there should he seed tin God who said there should be seed time
and harvest. Christ loves the farmer and his wife, I I am sure, for they are the
useful useful members of society, the foundation
and the keystone.

## "The Fapmer's Advocate"

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and Small Women, 16 and 18 years.

## The Ingle Nook.




## Colds.

At this time of the year, colds, per-
haps, constitute the greatest menace to health,
them,
ple d ple do not live in such a way as to avoid "catching"" them. Colds are plentifully present in the air in summme as in winter; but in summer, people; for their own comfort, keep doors and win dows open, and live much in the open
air. Moreover, the temperature warm wenther is such that thera is, at a rule, no lowering of vitality to an extent that will make the body sus-
ceptible to colds. make In the winter, on the contrary, the lowering of tempera ture is not always met by sufficiently
protective measures, and so the bheteria that cause coasurss, and so the bateria People persist in staying much in-doors,
take no pains to keep the air in the have no pains to keep the air in the go out insumfiently elothed against the is lowered and colds are "caught."
May it be repeated, cold of itselt does
not cause colds. Aretic explorers never not cause colds. Aretic explorers never
suffer from them while in the fold. suffor from them while in the exposed
neither do surveyors, who are
to all sorts of conditions to all sorts of conditions. The very
moment, however, that they return to moment, however, that they return to
civilization, they
usually celobrato the civilization, they usually celobrate the
event by taking colds. They have been
living in the open, and in pure air: now living in the open, and in pure arr; now
they are back in stufy housee, breaththey are back in stufy houses, breathproducing b
happens.
All this, then, giyes us a clue as to how to act to avoid colds, In the Arot
place, since the diease is. becterial, koep place, since the diseage is .bactoriah, tyepp away, if posstbe, from anyope who has
a eopld, The individual unfering from
a cold,", saye Dr. Willam Sadle, of
Chicago, one of the best-known authorlChicago, one of the best-knowna authorlcies on the subject, tis a health menace.
to those with whona he minglee. It It, however, it is imposaible to avoid- the
cold palient, as, for singtance, when one
of the children in a family contracte the of the children in a tamily contracte the
disease, treat him at onco to cure it, and require him to keep awiay as far as
possible from the othen children, and to possible. .from the other children, and to
be very careful about his handkerchiofe. be very careful about his handkerchiofs.
It would be better, indeed, to malke him use bits of cotton rag that may be kerchies used by a "coll"" patient is a
reeking hotbed of bacteria.

To return, however, to the phase of the subject with which we started out:
To avoid taking cold, go out for tre
 mfortable indors Put in more warm clothes, being particularly careful warm clothes, being particulary carerul
that the feet are well protected against
wet and cold, and start off to waik, to snowshoe, or to work in the to warn, prole. Keep the house, by day and by ight, filled with fresh air, and, if pos-
ible, avoid lowering the vitality by ex cessive fatigue. -These are the three main essentials... May I repeat that last
tatement regarding fatigue ? "Fatigue, hen colds, then death !" says Dr. Irving eing greatly it imp in-winter-time, est as soon as possible, well covered
ith blankets-and in a room filled with resh air. A hot drink taken' on lying own will be a further guarantee against laking cold.
But there is much more that can be done. In the first place-may I repeat again ?-avoid wet feet as you would the plague. The feet and ankles, indeed, are
the most vulnerable parts of the body he most vulnerable parts of the body
to colds. If unprotected, they chill the internal organs, the vitality is lowered,
and the mischief is done. Some object and the mischief is done. Some object
to rubbers, but in the experience of o rubbers, but in the experience of
most people, sound rubbers, with warm
leggings, are the most satisfactory pre-
ventives against damp feet and ankles
yet devised. . . In the words of a French doctor, "Keep the feet dry and warm, the head cool, and the bowels open,"'
you would keep well in cold weather. Avoid tight collars, as they favor congestion, and do not wear, for long periods, garments that retain the perspira-
tion. Waterproofed cloth is, for in tion. Waterproofed cloth is, for in-
stance, much safer than rubberized material for jackets or raincoats.
Do not permit rooms to be overheated,
even though a perfect ventilation even though a perfect ventilation system
(if there is one ) should be installed because going oil hito cold air from a superheated atmosphere is a prolific superheated at
Take frequent baths to keep the skin
in good working order, so that it may in good of superfluous matter the better Warm baths should, however, be taken at night, when one can get into a warm day the bath should, for strong people,
be cold. In fact, a cold bath taken every morning is an excellent hardener
against colds. Still better is against colds. Still better is a rub of
strong brine, made with common salt or sen-sdit. "By taking these sea-salt baths every morning,"" says Dr. Sawyer,
one of the leading skin specialists of the one of the leading skin specialists of the world, "persons may make themselves
immune to the ordinary ills of the body
through exposure, and immong exposure, and impervious to
through and
cold." Another excellent practice is to rub the body all ouver with wet salt. rub the skin to a glow with the towel. If one has not time to take an entire
sait bathe every morning, the chest and feet at least should be well rubbed with friction. Keep the brine in a jar befriction. Keep the brine in a jar
side the washstand so that it will be handy. About one pound salt to four
gallons of water will be the right pro-

Notwilhstanding all precautions agains spent in a crowded church or lecture not been considered, may do the deed-
and the question then becomes shall be done to cure the cold ${ }^{\prime \prime \prime}$ And right here, don't pin your faith to any
"cough mixture." Says Dr. Sadler, "cough mixture-" Says Dr. Sadler,
"Colds and catarrhs concern simply the circulation of the blood, the accumulation of poisons within the body, and
gerins. As means of their relief and cept in the form of throat gargles, cathartics, and local applications to the nose. Quininin, and similar drugs, check the burning up of the poisons in the
body, depress the circulation, lower the temperature, lessen perspiration, and temperature, lessen perspiration, and
diminish the activity of the white bloodcells in their work of destroying the is
fectious germs." No drugs: nie
No drugs; ni quinine. What then?
The first thing to do in case of a very severe cold, is to limit work as much as possible, to conserve strength; putting
the patient to bed, warmly covered, in the patient to bed, warmly covered, in
a room with an open window whose a room with an open window whose
draught is screened off, is beneficial.
Next, give the patient a good dose of physic to help carry of the poisonous secretions. If there is dryness in t
nose and throat, rub the nostrils wit
purified borated yose purified borated vaseline, or have t patient snuff up warm, salty waterantiseptic. gargle if the throat is dry sore. Vaseline may also be rubbed over the nose and middle of the forehead,
after the fashion of our grandmothers. Above all things, give the patien lemon and flaxseed tea, hot broth, ho buttermilk-all of these are good, an should be given at frequent intervals.
Do not give too much solid food any that is hard to digest. The of fever," exploded long ago. With ever cold there is, indeed, a certain amoun Hot mustard foot-baths before going
to bed, are also very effectual, and, it
the cold seems the cold seems to be on the chest, a course of hot-bran poutices applied
the part. When poultices are taken off ccre should be taken that extra protec-
tion is given, and that the night-dress, if damp, is changed. Rubbing the chest it damp, is changed. Rubbing the ches
well with turpentine (turpentine mixed
with
ture is high, send at once for a physi-
cian; pneumonia may be imminent.
dren). or with coal-oil, may be
to instead of the bran poultices. to instead of the bran poultices.
For sore throat, the old remedy of
putt For sore throat, the old remedy of
putting on a wet cloth at night, bound
well with flannel, is often found effective, well with flannel, is often found effective,
but, when taken olf, the skin should be but, when taken ofl, the skin should be
immediately rubbed with vaseline. immediately rubbed with vaseline.
For frontal headache, companies cold in the head, inhaling the fumes of ceamphor and boiling water will often "give relief, or even inhaling those
from spirits of camphor or ammonia in armelling bottle: At frequent intervals, also, the patient should sniff up warm salt water, a teaspoonful of salt to a
tumbler of water. Doses of onion, sliced, sprinkled with sugar, baked and eaten hot, are said to be very relieving,-one of the old-fash-
ioned helps endorsed by modern doctors. If all these eflorts are of no avail, and the cold seems to be of lod in the

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these factories produced these factories produced a watch equal to the
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equal to the Burlington we should be the losers 0 equaa to the Burington we should be the losers.
$\$ 1,000$ still lies in the bank for competitors to cover.

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Now, as a last word, do not think
that $I$ mean, in all $I$ have said in rethat I mean, in all I have said in reard to fresh air as a preventive against
and cure for colds, that houses are to and cure lor colds, that houses are to
be kept wretchedly cold during winter. Hoosest must be kept livably warm, but
do not sacrifice fresh air to warmth do not sacrifice fresh air to warmuth.
open windows and doors for a little Open windows and doors for a little
while several times a day, to let the poisonous airs blow out and the pure ones come in; whenever possible, keep
windows open, as widely as the day will windows open, as widely as the day will
permit. In mild weather, you may be permit. In mild weather, you may be
able to keep them six inches up, or down, from the top, as the case may be; but in cold weather, when the wand
blows in, even a small crack at top and blows in, even a small crack at top and
ottom will do wonders. Put on extra
to make up for the difere perature; be sure to keep the in temperature; be sure to keep the feet and
legs dry and warm, and the body well enough protected to keep out piercing winds; talke every precaution against letting yourself or your childreen be
vulnerable to colds, and then you may dely old King Winter.
Don't depend upon driving for out-ofdoor air - getting; walking, shovelling
snow, splitting wood, snowshoeing snow, splitting wood, snowshoeing, are
all a hundred times better than driving for that purpose. Exercise that warms the body and fills the lungs with pure worst winter's day. worst winter's day.
One sometimes
have only a cold." hears people say, "II
There is no cold so light that, it may be trifled with. Even the lightest may lead to pleurisy,
to pneumonia, or to consumption to pneumonia, or to consumption. All
colds-lor the species is but one after colds-lor the species is but one after
all-are worth guarding against, worth al1-are worth guarding against, worth

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Make ouvreff profieidetand our emp)
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 THE KENNEDY SCHOOL TRACTION E.IIGTIIEERIIIG Earn 88 to 810 a day runing a traction engine. Our course will teach you how.
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Don't even think of buying furs until you have seen this catalogue. Send for it now. A postal will do. Address: DEPARTMENT F. A. HOLT, REWFREW \& COMPAMY Yonge Street, Toronto

WhaOll AIID STOCR SCILE a Mlioney-saver to You IIIr. Farmer So often you lose money because you
are not quite sure of the metht of the

 Write to-day for our illuatrated cata-
logue telling you about the Three.
wheoled Wazon and Stock logue ted ing you about the Three
wheoled Wagon and Stock Shate Cap-
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the most strenuous efforts to cure, if one wishes to escape a possible train of evils. A cold is often the precursor of
tuberculosis; then can even a light one tuberculosis; then can even a light one
be regarded as "only" a cold? be regarded as "only" a cold? JUNIA.

## Angopa Wool Hood.

 Anyone who knows how to knit will be able to make a hood such as thatshown in the illustration. It is made with Angora yarn. The back may be made in one piece, the front being made
of a strip which is sewn with yarn to


Angora Wool Hood. the beck, All is done in plain knitting-
Finally, ribion is run through to diraw the hood in about the head, and ribbon
bows are placed at the sides. Angora bows are placed at the sides. Angora
yarn is excellent for making little mityarn is excellent for making littie mik
tens, as well as hoode. It become tens, as well as hooas.
woollior and prettier with washing.
re christmas weddivg.
Dear Junia,-Having read with interest, from week to weok, the intormation umns, I an writing for fifformation Togarding a Christmas wedding.
Should the decoration be necossarlly in red and green? How many courses should be served at eride't table arat?
should rise from the bride Who should bo served first, and in thet order the others seated at the bride't
table? would you use place cards? Any information regarding nove touches, either in decoration or luneboon, would be gretefolly received. What would be a cute way for two two little boys are toasts out of date? ENQuIRER.
are
You are at liberty to use any color you choose for decorations, but nothing ding than green and red, -plenty of dmilax and holly, with red, ribbons for tying. Poinsettias are also in bloom then, and, in fact, are taking their place
with holly for Christmas decorating; wheir large, red blossoms, are very offective.
The menu for a reception nowaday usually consists of light refreshmonts,salads, cheese wafers, fruit, ice cream, cakes, bonbons, salted almonds, olives coffee, and tea. There is no hard-andfast rule or the number of courses; tha Is you liked, you might arrange your courses as follows: First.-Scallopod
crackers. Second.-Turkey and mashed potatoes,
creamed celery or caulifower, cranberry sauce.
Third.-Salads, with cheese wafers. Fourth,-Cakes, ice cream, fruit. The pickles, olives, and salted nuts, would, of course, be on the table.
By the way, many of our
By the way, many of our questioners at a wedding should be called. May we quote from "" Practical Etiquette,""'There are no wedding luncheons nowa
deys. Every entertainment of the kind up to two o'clock, is called a a breakfast,
and when it takes place in the after noon or it takes place in the aiter tion."
The bride rises first from the table, the
The bride ihouly following. The bride should be served first, then
the older ladies-the mothers of bride and groom-tren the bridesmaids. Afterwards, the men are served, precedence
being given to the groom and older ones. given to the groom and older
one there will be more than one waitress, two or more will be served a
the same time, and the entire servin the same time, and
will be quickly done the center of one side of the tabether at the center or one side of the table. The the bride's mother chooses to sit at one father, her husbend sitting the groom lite end with the groom's mother. The best man and maid of honor may sit ing tisposed as convenient
. you may use place cards, ir
if I were you, I would not seek for too much novelty at a welding. Novelty
always implies a bir of "showing ofr" at such a time, and might be regarded as vulgar. Simply aim to have the delor ations pretty, and reserve the novelties
for some such occasion as Hallowe'en of for some such occasion as Hallowe'en or
St. Valentine's Day. Have a large green, Christmas bell, with a red clapduring the ceremony, use to stand unde during the ceremony, use ropes and fes
toons of smilax and holly, tied with red-ribbon bows, and plenty of candles (red and white), if the reception is to be at night, and you cannot make a
mistake. If the candles are set in dishes of sand, the edges of the dishes being concealed by greenery, they may
be placed anywhere in the room without be placed anywhere in the room
danger of setting fire to anything. The ring is usually placed salver when carried by a child. At at and really fashionable weddings, however, the
best man carries the ring in his pocket, best man carries the ring it the pocket,
handing it to the groom at the required point. This quite obviathis the squalis and unnecessary delays which have been
disagreable features of so many weddisagreeable features of so many wed-
dings in which children have had to do with this part of the ceremony. Toasts at weddings are not at all out of date, but are usualy very few in omitted aitogether.

SATIN STITCH, ETC. Dear Junia, - T would be pleased if you auso, what is the proper thread to embroider flaniel phe proper flannelette with ? Can sömeone tell me how to knit Child's sweater, age about five? Parry Sound, Ont. BLUE BELL Satin stitch is the plain, smooth,
"over-and-over", stitch, used in all thick "over-and-over" stit
Flannel and flannelette may be embroidered with embroidery silk, but D.
M. C. "Coton Perle," may be used inM. C.
stead.

Getting Ready for the Christmas Dinner. Most people like to have their Christ-
mas cake, plum pudding and mincemeat, made some weeks before Christmas, so mare are some recipes fro Royal Plum Pudding.-One cup seeded of chopped citron, orange and lemon peel,all well floured. Into a mixing basin put 4 well-beaten eggs, 1 heaping cup sugar,
1 teaspoon each of ground cloves and cinnamon, and half a grated nutmeg.
Next, stir in the floured fruits and peel, i cup chopped and blanched almonds or cup chopped suet. Add enough flour in which a teaspoon baking powder h
been mixed to make the fruit stick been mixed to make the fruit stick
gether in a rather stiff , batter. gether in a rather stifi batter. Put
into a well-buttered mould and set in a saucepan with boiling water to reach
half-way up the mould. Cover well, and half-way up the mould. Cover well, an a dish and serve with a good sauce, to which lemon extract has been added for lavoring. Christmas Cake.-One lb: butter, 1 lb,
cranulated sugar. 1 lb. Sultana raisins

to have a
to have a beautiful, clear complexion.
free from blemishes and we gave her candid advice, upon
which she acted Her hustan which she acted. Her husband writes
now that his wife is so much prettier now he is also going in for improvement.

A GOOD
COMPLEXION
may be yours if you will give us the same confidence. We cure Pimples Blotches, Eczema, Wrinkles and Dreatment is the only sure one for removing Superfluous Hair, whether on
the face, neck, hands or arms. Twenty the face, neck, hands or arms, 1 wenty
years experience. Consultation invited personally or by mail. Booklet ' $F$ '
and sample Toilet Cream on request

HISCOTT
DERMATOLOGIGAL INSTITUTE
61 College St., Toronto
ib. currants, ot lb. mixed candied peel, ,
lbs. flour, 2 lbs. flour, ounce baking powder, 8
eggs milk, Sift flour and baking-
powder well, mix in the fruit and powder well, mix in the fruit and
chopped peel. Now beat the butter and chopped peel. Now beat the butter and
sugar to $a$ cream, and add the eggs, one sugar to a cream, and add the eggs, one
by one, beating well after each addi-
tion. tion. When all are in, add the fruit
and flour, and moisten with mille to the and flour, and moisten with mill to the
usual cake - batter consistency. Bake three to four hours in a well-papered and greased tin, in a very moderate
oven. Several thicknesses of greased
and oven. in the
paper in thettom of the pan will paper in the bottom of the pan wil
help to prevent scorching if the oven has a tendency to bake quickly at the
bottom. This is an "English" recipe, bottom. This is an "English" recipe.
Scotch Fruit Cake.-Beat 1 cup butter Scotch Fruit Cake.-Beat 1 cup butter
and 2 cups sugar to a cream; add, gradually, cup sour milk, and the $\begin{array}{ll}\text { graten yolks of } 9 \text { eggs. } & \text { Beat well, then } \\ \text { beaten } \\ \text { stir in alternately,: and } & \text { a little at a }\end{array}$ stir in alternately, and a little at a
time, the whipped whites of the eggs.
Fla Flavor with 1 teaspoon each of lemon
and vanille and vanilla extract. Have ready, mixed
and dredged well with and dredged well with flour, 1 lb . seeded
raisins, $\frac{1}{3} \mathrm{lb}$. washed and dried currants,
a raisins, $\frac{1 \mathrm{~b}}{}$. Washed and dried currants,
and $\ddagger \mathrm{lb}$. thinly-sliced citron or other
peel and Pel. Put a thin layer of the plain
peater into a greased baking-mould,
bater batter into a greased baking - mould,
sprinkle this over with fruit, cover with

White Swai Tensi Cakes' RECORD
Thousands of White Swan Yeast Cakes have been sold in .Canada without a ingle complaint. Can the same be said bout other brands? Sold in packages of 6 cakes for 5 c . Send for free sample White Swan Spices \& Cereals, Limiled
aUCTION SALE arm Stock, Implements and Household MONDAY, NOVEMBER 18TH, AT I P. Lot 24, Con. 3, London Township. Positively no reserve as the proprietor has sold his farm.
W. LAIDLWW. GEO. HI NIXN. Prop.
Autioneer
Hyde Park, Ont.


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to the farmer who suggests the greatest number of practical uses for it on his farm - or any other farm.

IT will pump water, saw wood, make electricity, grind feed, cut ensilage, shell corn, pull stumps, run a churn and separator and washing machine and operate a spray-pump.

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This contest is open to every farmer in Canada. You Its purpose is to show how our engines can be used to do not have to own an engine, or to buy anything from save labor and increase profits. We will do this by us, to enter it. There is no entry fee or other condition. All you have to do is to tell us what you could do with We're writing a book-"'Uses For a Farm Engine." describing as many practicable uses as possible. We know already of many different uses for the engine, but we feel sure that you can tell us of others. So we're asking you

We'll give this engine to the farmer who gives us the greatest number of practical suggestions.
Mr. C. B. Allardyce, Editor of "The Family Herald and Weekly Star," will act as judge and award the prize Now think what you would do with the engine if you copies to every farmer who enters the cont Your answer must be mailed not later than Dec. 15
when the contest closes when the contest closes. The engine will be shipped 15 the winner as soon as possible thereafter, so that he will
have it in time to use all winter. have it in time to use all winter.
Do not bother about the want ideas, and practical suggestio of your answer-w want ideas, and practical suggestions, not pretty writing.
When your letter is written, cut out the numbered seal
in the corner of this advertisement and pin it tounor wife's work eared help. Think how it could make yo We have listed above, some of the uses we know abou
You ought to be able to think of You ought to be able to think of many others.
As soon as all replies to this advertisement are received,
we."l go ahead with the book, and will send one of the first

Address-Farm Engine Booklet Editor The
Canadian Fairbanks-Morse Co., Limited 444 ST. JAMES STREET, MONTREAL

Remember the Contest Closes Decomber Fifteant

Farm Engine
Prize Contest No. 1275
batter, and continue alternating fruit and Brook, Sarah Bruce, Ina Oswald, Eva
batter, finishing ofl with batter; then Deshaw, Gertrude batter, finishing of with batter; then. Deshaw, Gertrude Lee, Florence Branton,
bake two hours 'in a steady oven. When and Winifred Baker. cold, cover with white icing. A Cheap Christmas Pudding.-Mix a know what the really ""prize", dikesse cup of chopped suet with a teaspoon of were like, so here are descriptions, as salt and 34 cups flour. Put together 1 spoonful of soda and then the flour, a little at a time. Put in a cup of
raisins mixed with part of the flour, and raisins mixed with part of the flour, and for three hours. If wished, spices may be added to the batter, also 1 cup chopped figs mixed with part of the
flour, but in this case use only 3\% cups four in all. Turn this pudding out on a hot dish and surround it with hard sauce.
Hard Sauce.-Beat till smooth 1 cup butter and 1 cup powdered sugar, and
fiavor with vanilla. Put in spoonfuls around the pudding, and decorate with candied cherries and a few sprays of
holly.
 sugar, 1 cup New Orleans molasses, pint boiling coffee, 1 lib. raisins, 1 level
tablespoon cinnamon, 1 teaspoon ground cloves, 1 teaspoon ginger, 1 teaspoon
soda, flour to make a lairly stifif batter. Add chopped nuts if you wish. eef. Add 1 quart molasses, 1 lb . sugar, 3 lbs. seedless raisins, juice and grated rind of e oranges and 2 lemons,
1 teaspoon each of mace, cinnamon, teaspoon each of mace, cinnamon,
cloves and grated nutmeg, 3 lbs. currants, 1 lb . sliced citron, 2 lbs. finelychopped suet, 4 lbs. chopped apple, ${ }^{2}$ tablespoons salt. Moisten with boiled cider or any fruit juice left in sealers.
Lastly, add 3 cups chopped nuts. When making the pies, add a little sweet cider or water. If you have no cider, you may use 1 pint clear, strong cotiee, to
each gallon of mincemeat.
Mock Mincemeat. -Two lbs. finelychopped suet, 4 lbs. bread crumbs, lbs. currants, 4 lbs. raisins, 5 . lbs. brown sugar, $1 \frac{1}{2}$ lbs. peel, 6 lbs. apples weighod
aiter chopping, 2 tablespoons cinnamon, 2 tablespoons, cloves, 1 tablespoon mace,

1. tablespoon salt, 2 quarts boiled cider. 1. tablespoon salt, 2 quarts boiled cider Keep in a cool place.
Mincemeat Without Liquor.-Six
tari
apples, 3 lemons (rind and juice), 1 lb stoned raisins, 1 lb. currants, 1 lb . chopped suet, ${ }^{2}$ libs. brown sugar, ounce each sliced citron, orange, and
lemon peel, 1 tablespoon mixed spices, 2 lemon, peel, 1 tablespoon mixed spices,
tablespoons any tart fruit juice. Keep in a cold place.
Mincemeat Without Meat.-One lb. cur rants, 1 lb . apples,
sugar, 2 lbs . suet,
spoon mixed spices, (mixed), grated rind and juice of tw
lemons. Green Tomato Mincemeat.- Il you have still a few green tomatoes on the attic
floor, try this: Hall-peck tomatoes chopped; 3 lbs. sour apples, chopped; ${ }^{2}$ lbs. brown sugar, 1 lb . seeded raisins, $\frac{1}{2}$ b citron, grated rind and juice of 1 orange
juice of 1 lemon, + cup boiled cider vinegar, $1_{\frac{1}{2}}^{\frac{1}{2}}$ cups clear coffee, 1 teaspon salt, 1 teaspoon each of cloves and cinnamon, a few gratings of nutmeg. Mi
all and simmer slowly for 2 hours, the put in sealers. Let ripen a few week
before using.

## The Beaver Circle.

 Doll's Dpess Competition. Dear Beavers,-At last the judging othe dolls' dresses sent in by our clever the dolls' dresses sent in by our cleve
little girls has been completed. It wa not at all easy to judge among so many,
as proportion, good taste, good workas proportion, good taste, good workmanship, all had to be taken into
sideration, but it was decided that the ery best and prettiest of all pad been made by Lauretta Cragg, Drayton, Ont.,
and Mabeel Sollitt, Uxbridte, Ont., rst prizes. The next best prizes will be sent to
Hilda Ebert,, R. R. D. No. 4, Nelles int.; Elva Pearen, Acton, Ont.; Florence Blight, Brooklin, Ont.; May Hunsberger,
Waterloo, Ont.; and Elsie Newby, Rockville, Ont.
All in the Honor Roll will, however, receive a prize of some sort. The Honor
Roll is as follows : Loigh, Elsie
"Ghey'll Want A Nice Hot Cup of Cocoa When They Return.

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fine Furs and latest Fur Fashions.


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Our House is known world wide We use only whole selected skins, pu chased direct from the Trappers been trading and dealing in Furs, and our positive guarantee of satisfaction in fit, style, and quality, goes, with ever; piece of Fur bearing the "McKAY
Trade Mark. Now is the time to mak your selection before the rush begins. WRITE TO-DAY. Hlustration shows McKAY styles in
Stole, with head and Number 192. Stole, with head and $\begin{array}{llll}\text { tails, and large } \\ \text { trimimings, } & \text { muff } & \text { No. 221x } & \text { same } \\ \text { with } & \text { Skinner's }\end{array}$ quality Furrier's Satin.
-
PRICE STOLE..................... 821.50
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You don't need to send one cent
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Pleaso Mimation The Fanmer's Advocate


W girls come in tired and hungry from the slides a cup of Cowan's is as good as a meal. Better. It is easy to digest. It is so appetizing, so refreshingnot only satisfies the hunger, but lets you sleep like a top.

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FOR HOGS-HARAB DIGESTIVE TANKAGE
This is a food that will show you what can be done in the way of raising hogs profitably. Contains 60 per cent.
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ou rapid growth, and at the same time give your stock a finished appearance.
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Made in England since 1800
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ot high enough to warrant the feeding of milk to your calves. Sell your not high enough to warrant the feeding of mink to your cal

FOR ALL YOUNG STOGK-HARAB BLOOD FLOUR The best, strongest and most available protein food on the market. FOR HORSES and CATTLE-HARAB SUGAR FOOD An unequalled tonic for all live stock. Keeps them in the best of

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Every poultry-raiser has heard of our Poultry Foods. They are undoubt-
edly the best on the market. Special foods for laying hens, crate feedings, young stock, and everything in the line of grains, seeds, shell, grit, etc. If you are after best results, and we are sure you are, you cannot afford

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THE HARRIS ABATTOIR COMPANY, LIMITED TORONTO,


little one of the dearest, fattest, cutest, little pups you ever saw. It is brown,
with a white streak around its neck, and its feet are all white. It is about two
months old. But,. there, Puck, I am getting of my composition. I decided
on getting blue lawn for my dress, for on getting blue lawn for my dress, for
I thought it would not show the dirt
like white silk or like a white silk or other light goods,
and that it would be easily washed and
and ironed, for you must not forget that
dollies' dresses get dirty just as quickly dollies dresses get dirty just as quick1y
as little girls' dresses do sometimes.
Now, I come to the most important part. Now, I come to the
of my composition. of my composition.
You said we had to make the dresses
all ourselves, and, now, Puck al ourselves, and, now, Puck, I am glad
I did; for I can say without blushing, or
hanging hanging my head, "I made this dress all
myself, without anyone's help." Mamma myseli, without anyone's help." Mamma
took me to town to purchase the lace; then I went to my sister's and begged
some stuff from her, which she let me some stuff from her, which she let me me
pick out all myself from a big bundle of pick out all myself from a big bundle
patches, the kind I liked the best. then set to work to make it. Once or
twice I thought I would give up and twice I thought I would give up and
keep the dress all myself, but mamma keep the dress all myself, but mamma
said if I never tried I would never suc said if I never tried I would never suc-
ceed, and that if I lost both the dress and the prize, it would do me good to
try. So, now, Pucl, I will clog try. So, now, Puck, I will close, wish-
ing every success to you and the Beal ing every success to you and the Bea-
vers. $\quad$ MABEL solLITT Your dress well deserved a prize, Mabel.-I wish you could bring your pup
to see me some day. Like you, to see me some day. Like you, - I love
dogs, and find them almost as good cogspanions, sometimes, as real ". hu-
compand mans."
LETTER FROM LENA SMITH. Dear Puck and Beavers, -I am sending
a doll's dress which I have had made
 about a week. I did all the sewing,
cutting, and finding the style myself. I
made it to fit my sister's doll, which is made it to fit my sister's doll, which is
about a foot and one-halif high. I
could not try for the garden competiabout a foot and one-half high. I
could not try for the garden competi-
tion, as the chickens got into mine and tion, as the chickens got into mine and
dug almost all of my things up. Father
has taken ""The Farmer's Advocate" as has taken "The Farmer's Advocate" as
long as I can remember, and we all en-
joy reading its interesting pages. This joy reading its interesting pages. This
is all for this time. I am so sorry that the chickens
spoiled your garden, Lena. It was very discouraging, wasn't it? Perhaps you
will be able to have a corner with a will be able to have a corner with a
fence around it another Junior Beavers' Letter Junior Beavers' Letter Dear Puck and Beavers,-This is my
first attempt to write to you. My first attempt to write, to you. My My My
father has taken "The Farmer's Advofather has taken "The Farmer's Advo-
cate" for a number of years, and I like
reading the Beaver Circle letters. I live reading the Beaver Circle letters. I live
on a farm of one hundred acres.
ong
father keeps sheep $\begin{array}{lc}\text { father keeps } & \text { sheep, pigs, cows. horses, } \\ \text { and poultry. } & \text { We have two little colts }\end{array}$ and poultry. We have two little colts
named Dolly and Polly. I go to school
avery every day, and like it. very much. We
have a lady teacher. I am in the
Junior Third Class. I think this letter is long enough for this time. this letter
LOTTIE MILNE (age 10, Jr. W) Eden Mills, Ont.

Dear Puck and Beavers, -1 have want
ed to write to you before, but papa
thought I was ton small. I have a thought I was ton small. I I have a
kitty; its eyes have just come open.
One day I brushec itus hair the wren One day I brushed its hair the oprong
way, and its manuma would come and
lick it down every time I did it
bye wiown Tick it down every time I did it. Guoul-
bye, wishing the Beavers every Sucess.
Lambeth, Ont. AUDREY TUYK
$\qquad$ Dear Puck and Beavers,-As this is my
first letter to the Beaver Circle, I
thought I would tell thought wold tell you alowt my
home and my pets. 1 Iive an a furn
and have about half a mill

having passed out of the First Book in
eieven months of school. eieven months of school. I guess I will
cilose GRAME W. PRINDLE (age 7). Thomasburg, Ont.

Dear Puck and Beavers, $-I$ have en
joyed reading the letters joyed reading the letters in "The Farm er's Advocate. I have one mile and
half to walk to school. I like to to school. My teacher's name is Miss Pulling. I have two sisters younger than myself; one of them, goes to schoo with me; her name is Jean. My baby
sister likes me to swing her, and sho likes to go night and morning to feed
the little kittens and chicking the little kittens and chickens. I call
my kitten Jessie, and the baby call my kitten Jessie, and the baby calls her' Mary, and my sister Jean calis her
Marion. We have a playhouse. Thit my first letter; as it is getting long, will say good-bye.

SADIE McROBERT
Longwood, Ont. (Age 7. Class II,

Dear Puck and Beavers,-Thie (1)
first time I have written, to your Circle My father has been taking "The Farm years, and likes it fine. on for thirty I passed my Exam. this year, and am in the Junior Third, and I have passed every Exam. I have tried yet.
For pets, I have two cats a
For pets, I have two cats and a dog,
I live about half a mile from school this year they are fixing the school, and have put a furnace in. I have three sisters and one brother. Two of my
sisters are going to schoel, and my
brother. Well, I sisters are going to schoel, and my
brother. Well, I think I will close now,
as my letter is atine as my letter is getting long. Wishing
the Beavers every success, I remain the Beavers every success, I remain,
HESTER SMITH (age 9, Jr. III.). Renforth, Ont.
Dear Puck and Beavers,-I thought I would try and write a letter to ""The Farmer's Advocate." If like reading the
letters. My papa has taken "The letters. My papa has taken. "The
Farmer's Advocate" for a number of years. We have the rural tellephone, and I like talking on it. I started to school
this summer. I have to wall this summer. I have to walk 21 miles,
My teacher's name is Miss Aird. I I like her fine. I am in the First Book. Iko pets, I have a cat (her name is wildly),
and a collie dog (his name is Billy) and a collie dog (his niame is Billy), and lots of chickens, and I feed them night
and morning. I am afraid you will and morning. 1 am afraid you will
think my letter too longo so I guess I
will say good-bye NORA E. SHANKS (age 7. Class I) Moóse Creek, Ont.


Adveribementu will be fenertod ander thithead


 $\mathrm{A}^{\text {GENTS wanted -Good reliable asents wanted }}$







C ReAM WANTED-We guaratee hishest





O




 brothers geoe to sthool with mor, ho is
in tho Fourth Class, and $I$ amm in tho
in in the Fourth Class, and 1 am in tho
Part Sceond Class., well, my loeter is


## News of the Week.

Four young canadian. in Canada studying the school system One hundred and seventy new post
offices have been opened in Canada during the last three months.
Only about 250 men responded to the call to the C. P. R. Ireight and baggage
employees to go on strike last week.

## british and foreign

Rev. John Russell, founder of the Pro-
hibition party, died at Detroit vember 4th.
The Woman's-suffrage movement carried Iour States in the Presidential election, and the sumragists have requested
dent-elect Wilson for recognition,

Nazim Pasha's army was completely crushed in the great battle fought dur-
ing November gth and 6th, his losses ing November totalling 40,00 men. At time of writing, the surrender of both Constantinople and Adrianople is imminent, Sa-
lonika lonika has been taken by the Greeks,
with 27,000 prisoners, and the Turka with making a frantic endeavor to stir are making a frantic endeavor ostir
up a Holy War involving all Moslems.
The horrors of the war have been in The horrors of the war have been in-
creased by an outbreak of typhus, and creased by an outbreak of typhus, and
a disease resembling cholera, in Constantinople and in Adrianople, and by the massacre of non-Moslems in various
places where they have been exposed to places where they have been exposed to
the fury of the Turks. Such a massacre the fury of the Turks. fore its surrender.
A new college for workingmen, to be known as the Central Labor College
will be opened in Oxford in January.

Fresh loan negotiations betwoen the Chinese Government and the group
oo
bankers representing Great Britain, the bankers representing Greal
United States, Germany, France, Russia and Japan, have been opened at Pekin In the meantime, an internal silver loa of $\$ 100,000,000$
per-cent. interest.

## November Love Song.

 When first you told yourHow well do I remember How well do I remember
It was a melancholy day It was in sad November. Amid the leafless trees you
To be my brave defender ; Only a wand'ring chickadee
Saw lovers kiss each other,
He sang his little song of joy
The sweetest note of winter, The sweetest note of winter,
And with his song your words of lov To me will mingle ever- "Chick-a-dee, chick-a-dee, I love but thee Chick-a-dee-dee-dee.
You're the world to me, Let others sing the love of June. Give me the love that ever Makes summer bloom in winter's heart And May of bleak Noverber. years hav
The years have come, the yer gone,
But still your love has never But still your
Made aught but sunshine in my heart Or in our lives together. And always when the chickadee Sings his sweet note of winter
I hear your words of love and truth I hear your words of love and t
That have been faithful ever,That have been raithtul ever,
". Chick-a-dee, chick-a-dee

I love but thee :
Chick-a-deedee-de

## The Two Most Popular Instruments <br> 

There are 25 Columbia Medels made to-day-all of which represent the very best value at the price at which they sell.cial machines, which we recommend most strongly.

The "Eclipse" The greatest value ever offered. Double - spring motor
and all exclusive Columbia features, $\$ 26.00$ in oak 832.50 in mahogany

We will arrange for your nearest dealer to give you a FREE DEMON ATION of these machines. (Sign coupon below)

## Columbia <br> 

 We illustrate the "Regal"a superb model at $\$ 52.00-\mathrm{it}$ comes med alk mission styles and niture, as well as a splendid musical instrument.
## DEALERS

We advise ordering at once and ordering heavily. The demand for these types is very excessive, and we are to keep up the will be a case of first come first served.
The Music Supply Co.
88 Wellington St., W., TORONTO

## COUPON

I am interested in the purchase of a talking machine. Please arrange fo of the................................machine in my own home.
Name
Address

| $\begin{aligned} & \text { POUNMSE } \\ & \text { COANDGSOD } \end{aligned}$ | LTRY AND EGGS <br> ddition to operating the largest ry business in Western Ontario, we |
| :---: | :---: |
| Condensed advertisements will be inserted under this heading at two cents per word each insertion. words. Names and addresses are counted. Cash must always accompany the order for any advertised mene-bred poultry and eggs for sale will find plenty of customers by using our advertising coiumns. advertsement inserted for less than 30 cents. | poultry handlers. We can guarantee thirty cents or better, your station, for strictly new-laid eggs, and are prepared to pay the highest price for poultry, especially . crate-fed chickens. Write NOW for full particulars. |
| CHOICE White Wyandotte cockerels, from good laying strain ; two dollars each. Webber, Woodstock, Ont., R.R. No. 2. | Successors to Flavelle-Silverwood, Limited LONDON, ONTARIO. |
| $\mathrm{H}_{1}^{\text {XTRA Choice S.-C. Brown Leghorn cockerels }}$ worth, Maple Grove, Ont. | "Do you think that the automobile will displace the horse?" asked the con- |
| $\mathrm{H}^{\mathrm{OR}}$ SALE-Prizewinning Mammoth Bronze Black, Domville, Ont. | versational young woman. "It will, answered the nervous young man as he gazed down the road, "if it ever hits |
| HOUDANS for sale- 5 extra fine trios properly money back. One fine yearling cock bird, a dandy mone Write me: W. V. Charlton, W. London, Ont. | r |
|  | to come and see mother." <br> Servant-"Doctor's out. Where do you come from?' |

The Purest Jov.
It I can live
To make some pale face brighter, and to
give or éen impart
One throb of comfort to an aching heart,
Or cheer some wayworn soul in pass cheer som
ing by;
If i can lend
A strong hand to the fallen, or defend
The right against a single envious The right against
My life, though bare
Perhaps of much the
faips of much that seemeth dear and
To us on earth, will not have been in
vain.
The purest joy.
Most near to
Most near to heaven, far from earth's
Is bldoyng clouds give way to sum and
And 'twill be well
If on that day of days the angels tell
of me: "She did her best for one of of me:
rhine.
-Helen Hunt Jackson.

## REBECCR OF SUIITMBROR

 FARIILA range may be a good baker, and still not be a good roaster.

Roasting is one of the most expensive processes of cooking-more fuel is used in proportion to the result than in almost any other cooking operation. So fuel economy is worth careful watching
"Happy Thought" Ranges The sane firebox construction are constructed to give concen- of the "Happy Thought" en-
trated heat efficiency in the oven. ables you to perfectly control trated heat efficiency in the oven. ables you to perfectly control
You know how necessary this your fire and, therefore, your You know how necessary this your fire
oven heat.
But the "Happy Thought" has this further advantage-oven heat is controlled entirely by the So that a small, lazy fire gives a slow cooking heat, and a hot blaz ing fire gives a quick intense heat.
HAPPV TiO

HAPPY THOUGHT RANGES
Are sold in your locality. Ask your h oven heat
The point is, you get a direct value in oven
ounce of fuel.
Over a Quarter Million adian women, who know this adian women, who know this
from experience, use the "Happy Thought" every day. THE WILLIAM BUCK STOVE CO., LIMITED, BRANTFORD, ONT.

.BEST RESULTS ARE OBTAINED FROM ADS. IN " ADVOCATE


Note the Color of your flour－
And the Bread it makes for you．
Delicately creamy is FIVE ROSES floun
Because it is not bleached，don＇t you see．
Clear－Immaculate－Desirable．
A pure Manitoba wheat flour－FIVE ROSES
And the healthy sun－ripened spring wheat And the healthy sun－ripened are naturally of a golden glow． And the meaty heart of the polished kernel is creamy．
Milled from this cream，FIVE ROSES is delicatel ＂creamy．＂
The only natural flour from Manitoba＇s prime wheal Which gets whiter and whiter as you knead it
And your bread is most appetizing，unusually attractive in appearance
Looks good．
Bake this purest unbleached floura

## なんLe Roses たlom Not Bleached～Not Blended




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RICHLY DESERVE THEIR POPULARITY
－The Echo Guitar is the premier instrument in its class－a position accorded it solely on its merite
 I It tonal gulitites are remarkebly pleasing，harmonizing splendidly with the


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THE WTILL＇AMMS8SONSC日
 143 YONGE STREET 308 Eleventh Avc． C ． 9 St ，Peter Street 421 McDermott Av


BEST RESULTS ARE OBTAINED FROM ADS．IN＂ADVOCATE．＂



## Monarch Light

Touch


The farmer, or any other business man for that matter, who does not keep an accurate and comparative yearly account of every department f the furm or business is soon out does. The greatest aid to record ork is the typewriter. The
MONARCH TYPEWRITER
a splendid machine for billing, card reasons

Construction Simple
$\qquad$
isibility Complete Non-shifting Carriage

Light Touch
Easy to Operate Easy to Learn Long Wearing

Let us give you a demonstration of the Monarch machine in
your home. A post card will place literature and full nformation in your hands immediately. Easy payments. Write now for full particulars MONARCH DEPARTMENT

144 Bay St., TORONTO, ONT.


## "I had salt mackerel for breakfast," answered Rebecca. There seemed nothing humorous about There seemed nothing humorous about this reply, which was merely the state- ment of a fact, but an irrepressible ment of a fact, but an irrepressible titter ran through the school. Miss titter ran through the school. Miss Dearborn did not enjoy jokes, neither made nor understood by herself, and her made nor und face flushed. <br> -I think you had better stand by the pail for five minutes, Rebecca; it may help you to cuntol help you to control your thirst." Rebecca's heart fluttered. She to stand in her stand be stared at by all the scholars: and She She unconsciously made a gesture of angry dissent and moved a step nearer angry dissent and moved a step nearer her seat, but was arrested by Miss Dearborn's command in a still firmer voice. ".Stand by the pail, Rebecca! Samue, "Stand by the pail, Rebecca! Samuel, how many times have you asked for water to-day" <br> "This is the f-f-fourth." "Don't touch the dipper <br> school has done nothing but drink this atternoon; it has had no time whatever to study. I surpose you had something salt for breakfast, Samuel ?" queried Miss Dearborn with  the schocca.). (Irrepressible giggles by "I judged so. Stand by the other side of the pail, Samuel <br> Rebecca's head was bowed with shame and wrath. I, ife looked too black a thing to be endured. The punishment was bad enough, but to be coupled in correction with Seesaw Simpson was beyond human endurance. <br> Singing was the last exercise in the afternoon, and Minnie Smellie chose afternoon, and Minnie Smellie chose Shall we Gather at the River? It was a balentan a baleful choice and seemed to hold some secret and subtle association with the situation and general progress of events; or at any rate there was apparently some obscure reason for the energy and vim with which vim with which the scholars shouted the choral invitation again and again:- "Shall we gather at the river, The beautiful, the beautiful river?", Miss Dearborn stole a look at Rebecca's bent head and Rebecca's bent head and was trightened. The child's face was pale save for two red spots glowing on her cheeks. Tearss hung on her lashes ; her breath came and weut quickly. and the hand that and went quickly, and the hand that held her pocket handherchief trembled like a leaf. "You may go to your seat, Rebecca," saict Miss Dearborn at the end of the first song. Sanmel stay where you are till the close of school. And let me tell you, scholars, that I and let me to stand by the pail only to brebecca to up sis habit of incessant drinking, which s nothing but cmpty-mindedness and de but empty-mindedness and de- alk to and fro over the floor. II IN

who was only eighteen herself, and her year of teaching country schools h
"I hadn't missed a question this w culprit: "whispered I don't ther," quavered be ashamed just for drinking.," "You started all the others seemed as if you did. Whatever they all do, whether you laugh, or mist
or write notes, or ask to leave or write notes, or ask to leave th. room,
ped."
"Sam
"'Sam Sin $\qquad$ he corner alone-that is, not so much; but I couldn't bear standing wert him.' the reason I told you to take your soal and left him in the corner. Remember that you are a stranger in the place do, so you must be careful of what yo have our conjugations. Give me th verb "t

## I might have been

Thou mightst have been
'We might have been
You might have been
"Give me an example, pleas
I might have been glad
Thou mightst have been glad
He, she, or it might have bee
because they 'she' might have been glad because they are masculine and feminine, Miss Dearborn
splitting
"Because 'it' is neuter gende
"Couldn't we say, 'The kitten might hot going to be drowned'?
tatingly, never very sure of herse'f under Rebecca's fire ; "but though we often speak of a baby, a chicken, or a hitten
as 'it,' they are really masculine or feminine gender, not neuter
Rebecea reflected
then asked, "Is a hollyhock neut:r "."
".Oh yes, of course it it
"Well, couldn't we say, 'The hollyhoch but there was a weak little hollyhock bud growing out of its stalk and it was
afraid that that might be hurt by the
storm; so the biy hollymek storm; so the big hollyhock was kind
afraid, instead of being real glad'?"
Miss Dearthen atrand instead of being real glad'?" she
Miss Dearborn looked puzzled as she
answered, "Of course, Rebecca, hocks could not be sorry, or glad, or
afraid, really.".
"We can't tell, I s'pose," repliets the
$\qquad$
$\qquad$

$\qquad$
$\qquad$
november 14, 1912
QUESTIONS AND ANSWERS.







Miscellaneous.

BIG TURNIP YIELD. I grew a purple-top Swede turnip this
season weighing $21:$ season weighing 21 l lbs., and sound
right through. Is this near the record? right through. Is this near the record?
Had thirty tons to the acre, and fifteen pounds was fairly common. Is this
SUBSCRIBER. ans.-big yield per acre, though neither
stitutes a record. As to what
record, we would scarcely care $\mathrm{O}_{\text {the }}^{\text {stitu }}$ ard, we would scarcel
the trouble to ascertain.

Veterinary
SURFEIT fld with mare suddenly size from that of a pea to that of an Ans.-This is surfeit, or nettle rash It appears from different causes, as over-
heating, a change of temperature, engorgement, etc., and sometimes occurs oms somet appreciable cause. The symp«uickly as they appeared. Treatmen tive, but as your filly is pregnant, tha should be avoided. If not better whe you see this, give her a pint of raw Hiso give 4 drams hyposulphite of sod the be itchy, wash the body with phate of zinc and acetate of lead, di solved in a gallon of warm water Keep warm, and rub until dry, and

Patent and Trade Marks Egerton R. Case, foreign member of Lunden. Figland Registered Patent. orney, Temple Building, Toronto, ha Manchester finardian ions discussed between the Canadia Ministers and the Government, rela it scheme that is being prepared if the laws of patents and trade-mark II) the United kingdom with those Canadi and of the other dominions. s question was first raised at the thal asain of the limperial Conference .Nts issued in the self-governing d are granted in Canada, and $t$
$\qquad$
$\qquad$ nerally agreed that uniform legis ony agreed that uniform legis
In the Unjects should be estal
Inited Kingdom a patelt s. granted to one or mat in canada a patent m nined by the inventor or his a In Australia the applicant $f$
may be the actual incentor nt may be the actual inventor
minee. In New Zaland one ticants for a patent must be
in Newfoundland

THE FARMER'S ADVOCATE

|  |  | THE CHARMING WINTER RESORTS <br> OF CAILFORNIA, MEXICO, <br> FiURItid, ETC. <br> Now is the time to take advantage of a trip to a milder climate and escape the cold winter months. Round - trip touris tickets are issued by the Grand Trunk Pailway to California, Mexico, Colorado, Pacitic ('oast points, and the Sumy south, at low rates, giving choices of oll the best routes. Features in connection with this route: only double-track line $t_{0}$ Buffalo and Chicago fast s rvice; modern equipment; unexcelled dining-car service; palatial electric-lighted |
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## 50 IMPORTED

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## FILLIES

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Wednesday, Nov. 27, 1912

one of the largest and most select bunches of Clyde fillies offered to the public at their own price in years. A number have been bred to some of Scotland's most noted sires. Positively every animal will be sold to the highest bidder, with no under-bidding. If you want a good filly at a reasonable price and a square deal, come to this sale. Sale will be held rain or shine

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D. C. FLATT \& SON, Props.
R. R. No. 2, HAMILTON, ONT.

## WINTER FAIR <br> GUELPH, ONTARIO

December 9th to 13 th, 1912
The best Horses, Beef Catle, Dairy Cattle, Slueep, Swine, Seeds nd Poultry, produced on the ibest farius in. Ontario, wil
meet here in convelition aud eet here in competition and in the L.cecture Hall you
will learn how they were produced, from practical lectures, given each day ty experts on sultSEeds and poultry
seed evtries close
Luve stock entrie close vovenbly loh Reduced freight and passemen

WM. MeNEIL, President

## 30 IMP. CLYOESDALE FLLLIES

 at ORMISBY GRANGE STOCK FARM, ORMSTOWN Thursday, Novenber 21 at ten polockandiay ah farmer's adocate when

Borna's Disease in the

Middle West. ished in August and early September in epidemic now definitely declared to be a form of cerebro-spinal meningitis called
Borna's Borna's disease. The loss in money,
conservatively estimated, is more than conservatively estimated, is more than
three million dollars. How much will be added to this amount through the farmers' inability to plant their fall wheat it is impossible to say, Appear-
ing first in Ness County, Kansas, the ing first in Ness County, Kansas, the
disease spread rapidly over the western counties, into Colorado and Nebraska and, in an unknown degree, into Missouri
and Oklahoma. The first cases were reported August fifth. In less than five
weeks more than twenty thousand horses weeks more than twenty thousand horses
had died in Kansas, farm work everywhere was abandoned, scientifio men,
mostly veterinarians, were in the State from many distant points trying to
identify the strange malady, and farmers were panic-stricken. They sat about from day to day idly discussing the one
topic, or they wandered, speechless, from barn to house, and from house to town,
like men whose homes have been wrecked. like men whose homes have been wrecked.
'"Within a few days after the frst "Within a few days after the first re State Agricultural College sent six or seven experts to Hoxie, a central point
in Sheridan County, and there established a laboratory. The United States Department of Agriculture sent seventeen
men to help in the investigations men to help in the investigations,
Missouri, hllinois, New York, Colorado, and Nebraska, had scientists on the spot. More than a thousand horses were sub-
mitted for treatment by anxious owners, or carcasses examined by to the labora gists or pathologists. The Hoxie town administration provided buildings for the
work; the farmers gave their horses for experimentation; and newspaper reporters
from many cities in the Central West Irom many cities in the Central West were
present to record the least development.
It was like a great convention, except that over it there seemed to hang a pall that was almost tragic. Men said
little and worked hard." These two paragraphs, from an article My-Gharles Dillon, in the Country Gentleman, convey a graphic impression of
conditions in those American States, Which have been ravaged by the mys-
terious horse plague that had been lat fling the veterinarians, as "The Farmer's Advocate" readers were aware. According to Mr. Dillon, the cause has
been found by Dr, T. P. Haslam, pathheen found by Dr, T, P. Haslam, path-
ologist for the Kansas Agricultural Col lege, who had previously spent several
years studying blind staggers, and had been the first to announce that he had traced this disease to moldy corn. On september 18th, says Mr. Dillon, Doctor
Haslam discovered that terious epidemic was Borna's disease form of cerebro-spinal meningitis, known
in Germany, it seems, for about The German authorities agree that the
disease is transmitted through feed und water. The winds scatter it, feed und carried by streams. A high wind will blow a piece of manure a long distance,
carrying the germs twenty five miles, and dust has taken then the a herd take the disease while oth in escape, is explained by the different sus. ceptibilities, exactly as in an outbreak
of cerebro-spinal meningitis in man "In Germany the police regulation. quire affected horses to be segre-ated, and the carcasses of those segreated,
it to be burned. The die of it to be burned. There is no quaran-
tining of healthy horses in German , caning of healthy horses in Germany, be-
cause the disease has been declateni not cause the di
contagious.
ing to good efiect, the Department of
Agriculture has put out a warning. rec Agriculture has put out a warning rec-
ommendation suggesting that the first
principle in treatment should he change of feed and forage. Horses ket in the stables should be fet sound for-
age and grain from an uncontaminated
source source. Horses already affected should wholesome, clean forage, and water that is absolutely unpolluted.
many veterinarians of standing, that of numerous cases horses have been killed
by overdosing drenchinc. -with dope that would kill in anything Fake cures by the hundred have been persons calling themselves veterinarians, or and have helped to kill their money, Instances substantiating this assertion have been many. A laxative for the horses is imperative, but it must be given at the right time, and it must be tion of trouble, the Atederal advices dicaclare, the horses' bowels should be
emptied to remove the emptied to remove the poison, but be mouth, usually because of the great
difficulty in through the dificulty, in swallowing. If throat
paralyssis has set in, dreaching would bring on pheumonia, Fifteen grains of barium chloride injected into the jugular Vein, or two grains of eserine under the
skin, if the animal is not too greatly skin, if the animal is not too greatly
depressed, will usually act promptly depressed, will usually act promptly,
Intestinal disinfectants, such as callomel, salicylic acid, and preparations of cre-
sols, are also used. If much weakness is shown, and the temperature is below
normal, it has theen fumbl normal, it has been fuund wise to give
aromatic spirits of ammonia, digitalis aromanc sparits of amauonia, digitalis,
alcohol, ether, or catuphor. Injections of warm water were found to be good, and warm blankers wrung out of hot
water may be applied to the body water may he applied to the bods. Sub
sequent treatment consists of doses of strychnine twice a day, or a vomica and half an ounce of Fowler. Solution given at one duse; and repeated Tharee times a day. This will combal

TRADE TOPICS

 ifr upit dieptrtments ond the Winters Prifr

 etrid Astoetritaor,', having added five hưdred doltars to the section for their
members, and the amount offorel members, and the amount offered in the
standing fielderop competition, has been doubled. Seed entries close November
1Gith. The poultrymen a bitsere show than ever at this year Wimter- Fair. orer four thonsand dol-
lirs in Cash prizes is beirg offered in
the remolor. actatge inst of spetials will be offered piricutars of thich will be given net
weeck. Toultry entries ctose Noven

## GOSSIP.

concrete is to into an artific
cess is rapid cess is rapid
mixture is as and weather, actually mak on nearly ev is that requir only a small this expense season of the certain preca fire, wind am protects the
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 Wh
in Germany, it seems, for about twenty-
five years, but not hitherto recognized
in America.
$\qquad$ ammunzed against the germ. A serum
produced by Dr. Haslam has been tried,
with the following rather hopefule sults, though it is pot announced posi-
$\qquad$ facts may be had ort

## 

$\mathrm{N}^{\mathrm{o}}$O FARMER who has used Canada Cement asks that question, because his first trial answered it to his complete satisfaction. Yet it is only natural that a farmer who has never used concrete-perhaps yourselfshould require convincing reasons before deciding to use it himself.

If we knew where you lived, and knew your name and the names of your neighbors, we could tell you of many men in your own locality who would be glad to tell why they are using Canada Cement. Since that is impossible, this advertisement will try to give you an answer to your question.
"What is Concrete ?"

CoNCRETE is an artificial stone. It is a mixture of cement, sand and stone, or of cement and gravel, with water The proportions of the various materials vary according to the purpose for which the

concrete is to be used. This mixture harden into an artificial stone. This hardening pro cess is rapid at first, and in a few days the mixture is as hard as rock. After that, time and weather, instead of making it crumble, actually make it stronger
Since stone, sand and gravel may be found on nearly every farm, the only cash outlay is that required for cement. Cement forms only a small part of finished concrete, and this expense is relatively small,
Concrete may be mixed and placed at any season of the year (in extremely cold weather certain precautions must be observed) by your
 self and your reguThisallows you to take advantage of dull seasons, when you would otherwise be idle. The mixing and placing is simCONCRETE is the ideal material ple, and Cor barns and sllos. Belns full direcAre, wind and weather proof, it tions are in the book which we will send you free.
"What Can I Use Concrete For ?"
CONCRETE can be used for all kinds of improvements. By having a small supply of cement on hand you wifl be to good account by putting a new step he porch, or making a few fence pusts,
or repairing an old foundation wall. It is a mistake to suppose that you have to be ready for a new barn or silo to be interested in concrete. Besides, it is just as well to become familiar with the use of concrete on small jobs, for then you will be better able to handle big jobs later on.
First cost is last cost when you build ot concrete. Concrete improvements never need to be repaired. They are there to stay, and every dollar put into them adds several dollars to the cash value of your farm, and in many cases improvements of this everlasting material are actually cheaper in first cost than if they were built of wood. The cost of lumber is constantly increasing, and it will not be many years before its cost will be prohibitive.
YOU should use concrete, because by so doling you can make your farm more attractive, more convenient, more prontable and more wable.

"Why Should I Use Canada Cement?" TVE were the first cement company to investlgate W the farmer's needs, and to poiny cutld save money by using conct 2 te. We conducted an ex money $h$ haustive investigation into the subject, learned the hauftur sties were likely to encounter, and how to overcome them, and published a book, what
the Farmer Can Do With Concrete," containing all the Farmer can bo the farmer could need. the informac ade a special effort to give the farm. ers of Canada not only the best cement that can be

CANADA CEMENT COMPANY, LTD. 550 Merald Bullding. Montreal Please send me, free, your book : "What the Farmer Can Do With Concrete, and
ther

My name is.
Address.
made, but also every possible assistance in the use of concrete. Our free Farmers' Information Bureau questions concerning the use
of concrete are
ald answered at
once, and the Bureau is a 1 . ways glad to
receive sugges receive sugges-
tions from farmers who have discovered have uses for cement. Last year we \$3600 Cash Prize Contest, n which farmers in every
Province par-
 second contest, hy alfin hangs in front our near. which three the boilde youment the sold. where prizes are offered, has been announced for this year.
You can easily see why a company that is devoting this mucb attention to the farmers' needs is號 tory service. Canalways give you satisfactory results. Every bag and go the most rigid inspection before leaving the factory.

YOU should use "CANADA" Cement because lts makers offer you not only the best cement made, but also carciful, consclentlous, personal assistance in making use of it.


TF you haven't received a copy of "What the - Farmer Can Do With Concrete, write for it obligating you in any way. Use a post card or clip out the coupon. We will also send particulars of the 1912 Cash Prize Contest. Address

## Canada Cement Company LIMITED

Farmers' Information Bureau 550 Herald Bldg. MONTREAL, QUE.

questioms and answers Illiscellaneous.

## MATERIAL FOR WALL

Which would make the best and stron or min, bormetey brick, cement block trost would hart the clay brie think the reaken the wall, 1 tal ricin so as $50 \times 80$ teet. and want to put the mosi Ans-Any of these materials would. properly constructed, make a good wall. The cement-slop wall would, in all prot them could be constructed strong enoug for all practical purposes.
What can I do for a yearling colt that sucks wind ? I have had a wight that around her neck, but it does not seem
to remedy it much.
T. S. Ans-Wind sucking is a vice, and is repeated indroduction of trouble by the of air into the stomach. It is a very dificurt habit to check. Buckle the strap tightuy around the throat.
course, it must not be sufficiently tight cours, it must not be suffciently tight
to intertere with respiration or swallowing. but so tight that the neck cannot expand as it must in order that the
vice can be practiced her in time but in many cases th practioe is is left oll.
APPORTIONHENT OF TAXES, We bought a property (farm). Soon
ofter occupation, on us with the late owner's name on it They lived here many years, we came
here three monthy before the ratea here three months before the rates for
the yerr the year became due, in August. Are though only in residence three months or should the late owners pay them?
N. S .
SUBSCIBER. Ans-This is a matter that is usually governed by the agreement between the the agreement is silent about it. then according to the general rule, the taxes for the current year would be apportioned between the parties as of the date and taken. In either case, bous would Pay the taxes for the entire year in the event of the vendors decining or failing
to do so, and thea look to them for such proportion, if any. as under agree
ment, or in accordance with the geneal meal, or in are legally liable to contrib-
rule, they ute: and you could, it necessary, sue

## GOSSIP.

Firtevetwo Cludesdates for Canada,
shipped trom (itassow were consigned to the following import erss. A. Le Mollar. High River, Alta.;
Vanstone \& Rogers, North Rat



```
canson, Duttom, Unt.
```

On Uctover 23 ard, a draft of 38 head
of Shorthorns froun the herd of His
 Farms, Wiadsor. Were sold by auction.
The cows met an excellent itade, and
筑 four representatiles of the Clipper tribe
made splendid prices. The two-year-old
heite went to Mrs. Burnj eit at $\$ \$ 2,500$, and
 vacesis. The highest price for a bull
vas $\$ 1$, tove, for the yeurling, Sunstar,
furchased thy se for 29 couss Mand huifors The aver-

## No More Cranking

wrists nor smashed teeth The drudgery, danger and exasperation of cranking are eliminated
in the

## Renfrew , Standard

gasoline engine. It starts without cranking, starts easily under all conditions. to own such an engine. The latest and best type of gasoline engine for sale
in Canada. Has irame and cylinder cast in one, insuring at all time alignment - Crame and cyinder cast in one, insuring at all times perfect alignment. Carbureter . The governor is of fyball typroper proportion to proportions to insure close regulation of the engine. The importancerrect foregoing points of construction are fully explained in our bulletin. Write or a cop. Renirew-Standard gasoline engine is backed and guaranteed by the same organization that build and sell the famous "Standard" cream
separator.
The Renfrew Machinery Company, Limited Head Office and Works : RENFREW, ONTARIO Sales Branches at Winnipeg, Man., and Sussex, N. B.
Write us about the Gifford $11 / 2 \mathrm{~h}$. p. engine - the handiest, most compact and most wonderful little engine made.


## BASIC SLAG

Basic Slag is the cheapest and best form of applying Phosphoric
acid to the soil
Why is Phosphoric acid applied to the soil? Because it is one of It matters not how much nitrogen and potash your soil contains, if it is
lacking in Phosphoric acid you are bound be a loser when yo Basic Slag applied better quality. Try a dressing on part of that old in more fruit and a the result. Do likewise with your fall wheat and land lintended for
sugar beets, beans, alfalfa it will pay
Write for let us prove it you

THE GROSS FERTILIZER CO Sydney, N. S.
alex. e. Wark, Ontario Sales Manager, Wanstead, ont.
H.-A. STEEL TANKS

 We use nothing but the very best annealed steel, heavily gal them. All seams are securely
locked together and soldered in mall tanks, and in larger ones
the seams are rivetted AKER" Windmills, Peamps, Cyakea complete line
The heller-Aller co., Windsor, Ontario

NOVEMBER 14, 1912 "My butter just right


## What's The Matter

 With Your Butter?Does it lose its flavor quickly? Does it acquire a bitter taste in few days?
(3) Are youreceiving any keeping well?
Use the salt that does make ood butter every time and all the time-

## WINDSOR $W_{\text {oum SAIT }}$

It is always the same in purity and strength. It won't cakedissolyes evenly-and makes the most delicious butter you ever tasted.
The prize-winners at all the fairs, used Windsor Dairy Saltthat's why they won all the prizes.

Farmers' Cement Tile Machine Co. waikerville, ont.

Messrs. Hickman \& Scruby court lodge, beerton, kent, ena
Live Stock of all Descriptions


 Cream for Churning Wanted By | Creamery: ${ }^{\text {Butter and }}$ Ire Cream Mfg. Co., 11 |
| :--- |
| Elizabeth | Borden has been telling the anec,

concerning two "rrither Scots,", Tote concerning two "brither Scots,"
tho used to foregather in a "dry") dis. each bringing with him a portable of comfort
of whiskey. athem, was asked one day by a on, did not get a little drunk ni !" was the reply, "Man, the I was wi' him, J sort of a tablet shall we erect sur grave when you are gone ?",
kikd of the man who had long said the cheerful victim of
trouble,
"I
Inink a
a dyspepsia

Fapming as an Occupa․․․ Farming does not readily lend itself
to corporation methods of conducting
husiness tind business, and is therefore proeminently
a business of individual, rather than
a rater corporate, enterprise. In fact, farmers
as a calas live so much to them-
selves, and denend an lity selves, and depend so little on each
other in the conduct of their business,
that other in the conduct of their business,
that it is difficult to secure co-operation
among them even when this co-operation among them even when this co-operation
would be highly advantageous to those
concerned. Yet the hope of the future concerned. Yet the hope of the future
that the farmer may be able to cope that the farmer may be able to cope
successfully with those who are, in a
sense, organized successfully with those who are, in a
sense, organized against him, or who are
in a position to take unfair advantage in a position to take unfair advantage
of him, lies in the possibility of develop-
ing co-operative effort, especially in the matter of buying and selling. This is
mofe especially true in the case of selling perishable farm products, such as
fruit and truck crops. - Bulletin 259 , U. S. Department of Agriculture.

GOSSIP.
R. Hamilton \& Son, Simcoe, Ont., ad-
vise that they have recently sold to
John Hes, of Robb, Ont., the gray vise that they have recently sold gray
John Iles, of Rob, Ont., the gray
Percheron stallion, Ilderbert (3028), a
arent grand, big, flashy four-year-old that
weighs now nearly weighs now nearly a ton. He stood
second in a class of 27 at the Dominion
Exhibition at Ottawa this year, and Exhibition at Ottawa this year, and
third at Toronto. He is a worthy son
of the great sire, Oliver (58082), an of the great sire, Oliver (588082), an
is an approved horse himself, and will
and is an approved horse himself, and wi
cettainly greatly improve the stock o
any section. Mr. Iles is to be con gratulated on securing such a high-clas
sire. This is the sixth stallion thi sire. This is the sixth stallion thi
firm has sold Mr. Iles, which speaks we firm has sold Mr. Mes, which speaks well
for the way they treat their customers. a big sale of high-class shire Porter Bros., of Appleby, Ont., the
well-known importers and breeders of well-known importers and
Canadian- type Shire horses, with thei
usual business acumen, have decided t Canaal business acumen, have decided t
usuld an annual sale of this great Eng
hol lish draft breed, and the first sale wil
be held at the farm, a few mailes from be held at the farm, a few now just out
Burlington Junction Station, just
side the city of Hamilton, on Thursday December 5th. Their offering at this
sale is one that should draw a big crowd of fanciers for this great draft
breed, as never before in this country was so choice a lot offered by auction.
Among them are many winners at Toronto, London, Oltawa, and Guelph, in-
cluding first- and second - prize winners, and champions. They will also sell
their noted sire, Baron Kitchener, the sire of last year's champion all around, year-old that was sold for a long price to the Experimental Farm, at Saska-
toon, Sask. Conveyances will meet morning trains at Tansley Station, Q.
T. R., which trains will include connecand Guelph, from north of Georgetown, and from Hamilton. There will also be
converances 10 meet the 12 -oclock noon train from llamituon, at Brontle. Make
a note of these connections. For a
a $-2-\cdots$


QLight for all your buildings at any hour of the day or night. No danger of fires or explosions from lamps or lan-

Electric Light is not Expensive


1,000 PERCHERONS WAMTED III ONTARIO
I HAVE sold nearly all I brought over this summer, and am
leaving for France the 22nd of this month for another shipment $d$ Percherons, stallions and mares
They will arrive at my barn, Weston, Ontario, about Yec. 1 ar Will have an exhibit at Guelph Fai
Stock Show. Price will be in react of everyone that wants a good sta
lion or a big brood mare, and term lion or a big brood mare, and term
to suit. Write for particulars, better come. No trouble to sho what I have. Visitat
come. Address:
J. B. HOGATE West Toronto, Ontario
 CLYDESDALES 1011 smporation of Clyde stalliona ned pilice Prown james torrance, markhim en
 CLYDESDALES OF CANADA'S STANDARD
 Newmarket or Stoulvivile Stina.'. G. T. R. R.: Gormey. C. C. . R.' L...D. 'Dhope from elther
 MARRY SMITH; Hay P.O., Ont. Exeter Sta. L.-D. 'Phome. Stallions - CLYDESDALES - Fillies I have a big Importation of Clyde etallions and filles just landed ia lot that cannot be
duppicated today in Scotland, and never was in Canada. Let me know your wanta. ROBT. BEITH, Bowmanville, Ont Clydesdales and Percherons fullom and alto devit reality as well as in name. Highest types of the breeds. come and see them.
and
to mitces T. D. ELLIOTT $\&$ SON, BOLTON, ONTARIO Shire Stallions and Mares, Shorthorn Cattle (both sexes); also Hampshire Swine. Prices reasonable. PORTER BROS』APPLEBY, ONT., Burlington Station. 'Phone.


Your Stalition is Woeth Insuring Against Death

 if 30 daye it vorit low promium. Cemeral Animals litsurance Cous ornce, fia st Camada



## Stallion Inspection <br> UNDER THE ONTARIO

 STALLION AGTInspection points and dates now arranged.
Persons wishing stallions inspected
A. P. WESTERVELT,

Secretary Stallion Enrolment
Parliament Buildings, Toronto.
PHICK, SWOLLEN GLANDS

ABSORBINE


 NOTIGE TO HORSE IMPORTERS GERALD POWELL,
Commission Agent and Interpreter, NOGENT LE ROTROU, FRANGE Will meet importerst at any port in Frane or


Aberdeen-Anqus Cattle Mature early.

 walter Hall, Washington, Ont. hention "Farmer's advocaye."

Growine Hay for Mapket. Some sections of Canada produce large
guantitiee of hay for sale, and, a groat deal of it it obaled for delivery. Buyer
have had some trouble in getting baled hay, some sellers mixing $_{\text {min }}^{\text {th }}$ grades The tollowing summary United Statee Farmers" Bulletin 508, on Nequirket Haty, gives some idea of the
revirements of hay in that country, and which are of ually applicable here:
(1) The demand for market hay is for
better grades than those with which the better gradee than those with which the
martet is now supplied, martiot is now supplied, and the remed,
for theose conditions lies largely proved meadow, management, curing
 cured hay, if well baled and free from wot, but a knowledge of the condition
kit erimting at the particular mankerket in Which his product will be sold is ersential
to the succosetal hel (2) Many tarmera produc. at an mincidental part of the outporely their trarma. These farmera pay little attention to market demands, and in
tonsequence they receive much less for
their crop then chasequence they recive much less tor
terop tham theos "would if these de
mand well in were met. "Choice" hay sells this grade in all kinds of hay is much (8) The meat demand.
kept in maedows on many farms are pallen below the average. The practice and weode and tends of to loreign graser the
and of tho whole product. The the grade practice in many sections of delaying
the harveat until the premen the harvest until the plant has reached
the "Beond bloom," instead at the "Arrat bloom,"," instead of cutting
eity consumer moned by the city consumer, also, tends roequired by the put the hay
in a louer
 Canposure to the weather before baling
canue part of the hay to be deal and tha baling of has to be damaged,
good eondition coube with that in

 (4) The methods of baling used, do pend on both local weather conditions
and conditions at the market. and conditions at the market. In gen-
oral, howver, the boles which meet with charges" of clean hay, tightly or many and well wired. Loose bales with ragged edges break open, and inspectors
are frrequently obliged to class such bele ase . Heoquently
as
as
(5) The type of baling press selected dopends largely on the emount of boling
which is anticipated. Which is anticipated. The two horse
continuous-travel type finds a wider ue than any of the others, owing both to
thave typ onds a wider use
and of thom in operation, and to neates patness
of tossed, (6) The size of the pends, of course, of the baling press de de of the bate demanded in the markets to which the the
farmer expects to en Parmer expects to send his hay.
(7) "'Tag weight,"" because of
certainty, has weight," because of its un- to be rogarded with
little thor ittle favor in the markets.
usually
The weight usually accepted is that taken onitioially
at the, time of delivery (8) The loading of (8) The loading of cars should be
carefully done, under the supervision be
con competent inspectors, as the hay
graded by cars in most graded by cars in most markets, and
-sandwiched" or mixed coren Cause misunderstandings between shipper
and receiver. (9) In order to make the inspection
of hay as unitorm as possible markets have adopted possible, various
and this and this system is used to-day in 24 of
the leading hay markets of the United States. At the markets' terminal ware-
houses, private warehoused yaures, arivate warehouses, or holding-
yat is sold used tor storing the hay untur oos sold, and in each market the meth-
ods owe eighing are standardized so thone system of inspection can be bo that
The organizations of men interestued The orgaizations of men interested in
the hay business have brought about the
present methot present methods, and by a clear under-
standing of the standard requirementer
the the markets to which his hay will be
shipped the tarmer will receive a mich
more
 in any manner not desirect by the buyers

Judge-"You are charged with break ing a chair over this man's head.,
Prisoner-". didn'a mean to break the

## Imoried and Canadian Brad Shirirs

PORTER BROS. OF APPLEBY, ONT, will hold, at their farm, their first Annual Sale of Imported and Canadian bred. Shire Horses,
THURSDAY, DECEMBER 5TH, 1912 16 head, including the noted sire Baron Kitchener $(356)=6031=$ Among them are first and second Toronto, Ottawa, London and Toronto, Ottawa, ${ }^{\text {Guelph}}$ The choicest lot of his quality Shires ever sold by auction
in Canada:

There will also be sold 3 Shorthorn bulls and several Hampshire | horn |
| :---: |
| $\substack{\text { pigs. } \\ \text { Con }}$ | Conveyances will meet morning

 Tansley, G.1.R., which town: Also at Bro

TERMS CASH, OR 6 MONTHS WITH $6 \%$
GEO. ANDREWS Auctioneer MILTON, ONTARIO

## IIMP. CLYDESDALES

 AND PERCHERONS.I have 65 head of Clydesdales and Percherons in my barns to choose from, a great many of them are prizewinners in Canada, Scotland
and France, and other extra ahow horrea and France, and other extra show horses that have not yet beef
shown. I have never had so many bood horses at one time before. shown. I have never had so many good horses at one time before.
Intending purchasers would do well
bot see e through my barns before intending purchasers would do wein to see through my barns. MARKHAM P. O., G. T. R., and LOCUST HILL, C. P. R., three milee.
T. H. HASSARD

Union Stock Yards of Toronto, Ltd. HORSE DEPARTMENT
Auction Sale Every Wednesday - Private Sales Every Day
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Manager.
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 cill


 R. HAMILTON \& SON , SIMCOE Just Arrived-Clydesdale Stallions and Fillies





AID \& PORTER SImose Onta


## STUMP EXTRAGTOR

If ycu are troubled with stumps, give our "Patent Samson Stump Extrac-
tor" a trialat It has now been in use in Europe for the past three years with the greatest success. By its assitance,
two men will do the work of three men and a horse. It can also be used for felling trees.

The Ganadian Boving Co., Ltd. 164 Bay Street, TORONTO

1854 Maple Ledse Steck Farm 1912
 Stand Young LEEEESTERS trom imp, Wooler of A. W. SMITH, MAPLE LODGE, ONTARIO "The Manar" Sentch Shartharns

 J. T. GIBSON, DENFIELD, ONTARIO OAKLAND 50 SHORTHORNS Herd header for anelf Soutch Grey $=72022$,estiir
 John rlder \& Son, hensall, ontario SPRINO VALLEY SHORTHORNS Merd haeded br bre two importod bulle Nowtion
 KYLE BROS. ${ }^{\text {coen }}$. ${ }^{\text {Telophone }}$. Ayr, Ontario Fletcher's Shorthorns Our berid ou shorthorna (imp.) or direct from impored each Baded by he zrandly-bred Bruce Maytime bun Chiole young stock tor eale.

GEO, DD. METGHER, R.R. No. 2, Erim, Ont Shorthorns for Sale- Threestrong-boned larze cows mith calvea by bide; choiceat breed stewart M. Graham, Port Perty,Ont. SHORTHORNS | and swine-Have |
| :---: |
| some chole , young |

 Elmira, ontario. SHORTHORNS Nine bulls and ${ }^{2}$ Robert Nichol \& Sons, Hagersville, Ont.
"Pat," said the vicar, "I want you to
go to the railway station and find out go to the railway station and find out
what time the next. train leaves for

## "Yes, sorr."

 Atter an absence of two hours he re-urned. ${ }^{\text {"What a }}$ time you've been!" ex"laimed the vicar Well, ye see yer honor,", replied Pat,
had to wait.
I couldn"t trust them tation tellows; they say anything, so , 1
tuck tight an' seed the train start wid ${ }^{\text {own }}$ eyes !"
nes-"How does your son like his ition at the bank $\mathrm{q}^{\prime \prime}$ "
ones-""oh, he's forged his way to the
int."

QUESTIOMS AND AMSWERS Miscellaneous.

## A Heifer in milk.

Is a two-year-old giving milk classed
as a heifer ? R. McD.
Ans. - She may be properly so styled. Many exhibitions provide classes for heifers in milk.
rot-infected potatoes.
Would you please give us your ${ }^{\circ}$ advice on whether the potatoes are it for fam-
ily use owing ours have a little rot on them, but the rest of the potato is quite sound. We cut the rot off, and boil the rest for family use. Do you think there is any
danger odisense trom thiss danger of disease from this? We also boil the peelings for the hogg. A. A.
Ans. - Some of oure are affected the same way, and we are using the sound portions. The doctor has not been called to date of writing. ontons. spring, and part of of onions in the spring, and part or them da not get
weeded out till late, so the bulbs are small. If left in the ground, will they come up in the spring for a crop, or
will they winter-kil, or will it be better will they winter-kill, or will it be better
to harvest them and replant in the the
the epring ? J. E. N. And, It is now getting very late lor
hendling the crop. It would have been better to pull them and dry them, and will in all probabillty spoil if left out over winter.

WIDOW'S RIGHTS. Allan man own farm of 100 hares, and some stock. Ho marries in Oncario. haey haters and sisters living. If he dies without a will, what portion can his
wito claim of the tapm; also of the stook, implements, and loose monoy? 4-300 the date of her husband's death, at 4 per-cent. per annum, until payment; and also one-hall of the reeidue of his real and personat property remaining aiter paymear al chas on the estate, debts, funeral
all expenses, and expenses of administration SALE OF HORSE.
 horse. In five days, B wrote $A$, saying he had no foom

1. Does the horse belong to B 2. If so, how would $\begin{aligned} & \text { A make B take } \\ & \text { SUBSCRIBER. }\end{aligned}$ horse ? ontario.
ontario.
Ans.-1. Yes.
price was to be paid is not stated. Wo may say, however, that upon dofault be ing made in respect of the maitior sue B for such balance, and would have a lien upon the horse-if still in his, A's, posession
fully paid for.
wooden silo.
I an a carpenter and builder; have 14 acres near the city; keep three or $\begin{aligned} & \text { to } \\ & \text { cows, etco.; sell some cream, etc. }\end{aligned}$
sol have three acres White Filint corn. medium crop. I can build a sillo with inch dressed matched stuff, 8 feet square, 25 feet high, $2 \times 4$ in. girts, 3 feet apart
tor about $\$ 30$. I raise corn every yeart 1. Will it pay me to do so ?
2. The corn being dry, does it need moistening ?
3. II so, why ?
4. Would such a silo answer all purposes on a smalt rarm
Ans.- Under these

Ans.-Under these circumstances,
would not advise the building of a silo,
probable percentage of deterioration
would bo greater than with a large
sild
$\begin{aligned} & \text { silo. } \\ & \text { with oed your corn as. }\end{aligned}$ or it it is, eithon cuting. If cut from with or without cutting, if cut reall
time to time when dry,
tight and make goond feedil

## OIL CAKEMEAL

J. \& J. LIVINGSTON BRAND Put Up in 100 -pound Bags improves the stock in every way. FEEDj WITH YOUR PSILAGE OR ROOTS.

If your dealer cannot supply you, write us

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NOW FOR THE INTERNATIONALI Greatest and Best

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November 30th to December ${ }^{9} 7$ th, 1912 At Union Stock Yards, CHIGAGO
Many new improvements, New features. Thirty National Conventions. Daily sales of all breeds, etc., etc. A season of lee
entertainment. Briliant evening ghow, and

A TRIP TO CHICAGO
lowestrates on all railronds


The National Stock Food Oompany
 almost dead and hoopeles ndrenched him with two toitter






## EEIORTEIORNE

Have now a choice lot of young bulle to ofter alao witb
omething rice in heifigra. Catalognoe of herd a
H. CARGLL \& SoN, Propletor, Coreill, Oat, Bruee Co.


I llave SMORTHORM Bulls and Heifers, SHROPSHRE and COTSHOLD Mams and Ewes, GLYDESDALE Fillies and Colts
 aford the buy or prout ROBERT MILLER, STOUFFVILLE, ONTARIO
 Burlington Jet. sta, G. T. R. W. G. PETTIT \& soNs, Freeman, out.
1861 Irvine-Slde Shorthorns 1812
 John Watt \& Son, Salem P. O., Ont. Elora Station, e. T. ant C. P. . SALEM SHORTHORNS



GEO. GIER \& SON, Grand Valley, Ont, P.O. and Sta.



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 Toronto Steel Tanks The material is the best Apollo galvanized steel. The ga
perfect. It won't rust.
The gauges are heavy enough for
intended use. Solder is guaranteed. Don't buy cheap tanks-they soon rust and leak.
We employ good mechanics-our men know their trade-consequentYou probably need another tank, so send for an interesting descriptive
pamphlet and ask for our estimates pamphlet and ask for our estimates
on your requirements. Address the on your requirements
office nearest to you
THE ONTARIO WIND ENGINE \& PUMP CO., LTD.
Winntpes
TORONTO Calgary

Gity View Ayrshires - Bononiec Ma Mosoner


A Sootsman went to a solicitor, laid
belore him a question, and asked him if he could undertake the case. "Certainly," replied the solicitor, "I will readily undertake the case. We're
"So ye really think it's a good case?" Most decidedly, my dear sir. I am
"Mrepared to guarantee that you will Prepared to guarantee that you will
secure a favorable verdict."'
ent "Ah, weel, I'm much obliged tae ye, time, for, ye see, the case I've laid be-
lore ye is my opponent's."
"What do I want with a wife?" snorted Bachelor Bockwedder, on reading an husband. "I have a game rooster that that chews the rag, an aeroplane that gets me up in the air, and an automo--
bile that keeps me all the time broke."


QUESTIONS AND ANSWERS. Miscellaneous.
title to land. A, and B, his wife, own a piece of
land. B has always held the deed, but gave A full control of the business up to three years ago, when they separated. do so, and give a good title, without A's consent, she, B, not knowing where A is living.
Ontario.

## Ans.-No.

SOWING TIMOTHY. Iover last spring. It is a goed to red
cloch and I would like to have seeded it with
timothy, but neglected it. Do you think that I would get a catch by seeding it this fall or next spring, and which
would you advise ? Ans. -The timothy might have been sown in September. It is too late now
to sow it this fall. If sown next spring to sow it this fall. If sown next spring
it would be of no use in next year'
crop, and the crop, and the red clover might year's
thick as to practically smother thick ans to practically smother it out.
of course, it might come Of course, it might come on for the fol-
lowing season, but it would likely be more satisfactory to take off the clover and re-seed with auother nurse c There has been a dispute at the Agri-
cultural Show over entering a herd of cattle. If a two-year-old heifer is milk ing, which should she be entered for, a
milch cow, or a two-year-old heifer ? Ans.-A two-year-old heifer is nothing entirely, however, upon the wording of the prize list of the particular show two-year-olds in milk and two-year-olds
not in milk. If the prize list read twonot in milk. If the prize list read two-year-old heifer, and said nothing about
the fact of their being in milk or and the heiler was within the age limit, she should be eligible for the two-year-
old class. PICKLE PUMP.
In the October 17 th issue of your
paper, you gave a method of curing meat in which a pickle pump was used. inform us where we could purchase such a pump.
FARMER. Ans.-The article referred to, as was tish authority. No doubt you soutobtain a pickle punp from some of our
large hardwares or manufacturers. large hardwares or manufacturers. We
can only refer you to our advertising
coll columns. The main points of the article were the composition of the pickle,
and the method of pickling. The main thing is to get the pickle over the meat
a, suggested, and into the as suggested, and into the pockets in
the shoulder. This might be accomplished to a degree by pouring it. of
course, for the inner cavities course, for the inner cavities, a pump
would be more satisfactory. CEMENT TANK-MANURE ON it a PBERRIES.

1. I built a cement water-tank, above
ground, $12 \times 7$ ft. 7 in., inside (round).
How may How many barrels will it hold?
2. It was built of rather coarse
gravel. I didn't plaster it, but painted Your or five times with thick cement and
water, yet it leaks a little in odd places,
just enough to wet the wall for or two below leak. I'm afraid the
or the
frost acting on that water in the wall will burst it. What do you think ? Is
there anything pert the painting operation do than re-
3. Was $I$ wise or not in putting a
eorkell forkful of manure around (close to
raspberry plants, set this fall? Ans.-1. Approximately, 85 barrels.
4. About all y ou can do is to put o
more of the cemant more of the cement. There may be a
little tendency for the frost to crack
the wall of the tank, but it is not likely
to be very teriuns.


The CALDWELL FEED CO., Ltd., Dundas, Ont.



## STOCKWOOD AYRSHIRES ${ }^{\text {This herd is now headed by White Hill }}$

 Ayrshires a $Y$ ore.



 and heiters. CHERRYBANK AYRSHIRES |AYRSHIRES FOR SALE!





$\qquad$



P. R. Bell phone connection
YORKSHIPES

King Segis Walker 르=
 A. A. FAREWELL, OSHAWA, ONTARIO



TEN BULLS FOR SALE-PRICES LOW



FLATTT \& SON, R. R. No. 2e Hetamiliton, Ont. 111

NOVEMBER 14, 1912
© questions AMD AMSWERS. Miscellaneous.
H.-p. of Gasoline engine. 1. What is the strength of a horsepower in a gasoline engine? 2. Hasoline engine?

Ans,-1. A horse-power is the annount of energy required to do 550 footpounds of work per second, or 33,000
and root-pounds per minute. That is, it is
energy enough to raise 550 pounds one foot per seeond, or 1 pound 550 feet per second.
a To arrive at the horse-power
ghaoline
engine, the following
 the face of the pully; B; the length of
levere, in feel, from center of shaft to Coint of teale susupenion; A, the radius
Tountey $\mathbf{R}$, the number of revolutions
 used in formula must be net weight of power stress, or the gross observ
woight, less the weight of the lever. THRESHER AND BRIDGE. The council of a certain municipality,
in the Province of Ontario, was repeatediJ warned of the ounsafo, condition oo a
bridere, but failed to do anything to have bridge, but failed to do anything to have
pidd bridge made safe tor public travel. A thresher cones along with an ordinary outft, an engine and separator,
both drawn by horses, and in order to get to some of the ratepayers' places of the said municipality to do their thresh-
ing, he has to cross said bridge, as there is no other way that he can get
to their places. to their places.
${ }^{1}$ Is is the council of said municipality in any way reaponsible for damage to
threshing outat while erossing said
ter bridge, there belng no notice at the bridge, or any other place, to say that
aidid bridge was not safo? aid bridge was not safe ? 2. Does the law in Ontario require
hhat threshing outaits, such as the mentioned, shall carry with them planks to lay down to protect bridge while passing over them ? SUBSCRIBER.
Ontario. Ans, 1 . Probably they are, if the thr weight. 2. Before crosslng a bridge connected
with a highwas or which no tolls are with a highway on which no tolls are
lovied, the person running the engine must lay down on such bridge, planks
 $\mathrm{O}_{\text {he }}^{\text {he }}$ fubliect generally you to The Traction Engines Act (On CR CROPPING-RINGING BULL1. What crop would yon adviso in the
apring to put on sod turned down on peaweed this fall? Would corn be all
right 2. Would it be advisable to put spring Wheat on potato ground?
3. Is there any difference between spring wheat and fall wheat, other than the name itsil? ?
4. What is the
in a bult's is the best way to put a suing safest way to hold
his head his head? the $\begin{aligned} & \text { 5. Can }\end{aligned}$ 5. Can the age of a cow be told by
the number of rings on its horns? Ans. $\mathbf{- 1}$. If the soil and climate are suited to corn, it does very well on sod. 2. If the land is in a good state of spring wheat does lairly well after pota3. Yes. While they may both belong to the same genus, tall wheat would not
ripen it sown in the spring and ripea if sown the spring, and spring
wheat ${ }_{\text {is }}$ not hardy enough to live through the winter is
and sown in the 4. Tie him fast to both sides of a nurfow stall by means of strong ropes
and chains attached to his head and neeck, and use one of the patented insuruments to make the hole. Searing th. It provents bleeding, but is very 1. infur to the bull.


THE HARMER'S ADVOCATE.
 RAW TURS

Write for our PRICE LISTS. Your Shipments Solicited. Prompt Returne E. T. CARTER \& CO., 84 FRONT ST., E., TORONTO, CAN.

## Lakeview Holsteins <br> 

 nem daughters that have made 7 -day records above 30 pounds each. Do you want your next bull to be a brother to such cows as Pontiac Lady Korndyke (38.n2), Pontiac
Pet (37.67), Pontiac Clothilde De Kol 2nd (37.21), Sadie Vale Korndyke (36.20), and eight others above 30 pounds? If you do, write me for price on a son of Colantha Gladi. E. H. DOLLAR, HEUVELTON, NEW YORK. Near Prescott

## Avondale Holstein Cattle

AND DORSET HORNED SHEEP. To make room for daughters of Prince Hengefiveld Pietie, we are offering a few femalee
bred to the greatest bred bulls in Canada, and at rock-botom prices. Also a few extra good yearing ram. Adres:
H. LORNE LOGAN, MANAGER. A. C. Hardy, Brockville, Ont.
 a son of Evergreen March, and all from Record of Merit dams. Write for particulars.
Bell Telephone. HOLSTEINS AND YORISSHIRES $\begin{aligned} & \text { Laty year oir Holstedno, } \\ & \text { out of } 12 \text { entries } \\ & \text { woi }\end{aligned}$
 A. Watson \& Sons, R. R. No. 1, St. Thomas, Ont. Lo-D. 'Phone.

Jerseys B. B. BULL \& SON, Brampton, Ont.
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Holsteins of Quality Writo wio tody tor our proponition, wlling

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The Maples Holstein Herd
 Angcio Mochbide and alltrom WALBURN RIVERS,
Taple Grove Holsteins Horl heo idod

 Holsteins and Tamworthe
 R. O. Morront do somithiton P.O., Ont. BILAPHORENE A. J. C. C. JERSETS
 јоввРи зваввоок, haviLock, ONT



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N choosing a litter carrier, the equipment necessary for a complete outfit : Casrier, Track, Hangers, Switches, and Swing
Pole fittings. Do not place an Pole fittings. Do not place an
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many distinctive features to be
found in Louden Equipment.

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## 

The LOUDEN MACHINERY CO.
Dept 61 - GUELPH, Ont
Dattie and Sheop Labols

 Heway wo tim
 まuitwe 눈 Inalawood Oxtords pindim

Oxford Down-chiok rexam and W.A. BRYANT, Cotr Springhank Qxtords fitmem inimb Shear evea Hikhest type. Prices eawent WM. "You must have called me late this
morning, Sylvia. It was twelve o'clock when I reached the office. And I had an important appointment for ten
o'elock, too." "Why, I called you at seven-thirty, "Was the clock right ?" Yes; I set it last night when you
came home. You remember, I called came home. You remember, I called
downstairs when you came in and asked you what time it was, and you said it
was ten-thirty. The clock in my room said one-forty-five, so I turned it back to agree with your watch, and, of
course, I called you by the correct time course, I calle,

She Had Such
Beautiful Hands

 or housework.
Hand cleaners
by any other

smell as sweet
Avo id rank
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imintations, at
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SNAP

## GOSSIP.

CATTLE AT THE WINTER FAIR. Boef cattle at this year's Winter Fair
will compoto for $\$ 2,500$ in prizes.
The wrize compote for $\$ 2,50$ in prizes. The
prize liat has been supplemented by $\$ 100$ trom the Dominlon Shorthora - breeders
Association; $\$ 80$ from the Canadian Association; $\$ 80$ from the Canadian
Hereford-breeders. Assoclation, and $\$ 50$ from the American Aberdeen-Angus-
breeders' Association, in the classes for breeders' Association, in the classes for their respective breeds. In addition to
this, the Shorthorn men are offering $\$ 50$ in prizes for grade steers, sired by a Shorthorn buil, and an equal amount for
grade steera sired by a Shorthorn bull grade steers sired by a Shorthorn bull
and shown by ainateurs. The Hereford and shown by ainateurs. The Hereford won in the class for grades or crosses of any breed by aniunals sired by Hereford
bulls, and will add $\$ 100$ to the grand champion prize if won by an animal sired by a Hereford bull. The Canadian Aberdeen - Angus-breeders' Association is offering $\$ 100$ in a special class for Aber-
deen-Angus grades. In this class, the sections are for steer or heifer, two years and under three, and for steer or two as stated in the official premium list. This will allow calves to compete ror prizes in the latter section. In the section of dairy cattle, the Fair Board has increased all first prizes by five dol-
lars over last year's offering. In the sections for Shorthorns, Ayrshires, and Holsteins, the prizes have been supplemented by $\$ 45$, $\$ 200$, and $\$ 375$, respec-
tively, by their reapective breed associatively, by their respective breed associathe fact that the first prizes for Hol-
 \$55; cow 36 months and under 48, \$55,
and for heifer under 36 months, $\$ 50$, and for heifer under 36 months, $\$ 50$,
Other prizes are given in the official premium list. The Holstein and Ayr-shire-breeders
supplement the
Associations will also
championships in - the supplement the championships in the
various classes if won by animals of their respective breeds. The prizes
offered for dairy cattle total $\$ 1,700$.
MORE RECORDS BROKEN IN CONNECTION WITH THE CHICAGO
STOCK SHOW. With its $\$ 75,000$ offered in prizes, and stock Exposition, which will be held on the dates of November 30 to December Chicago, has broken all records in every department in regard to the number of exhibits. Every breed of cattle, sheep, swine and horses, will be represented on
a much larger scale, the arrange a much larger scale, the arrange-
ments for the show have been better provided for, and the great Stock Show of 1912 should go down into history as the most comprenensive, the most modern, advanced, and up-to-date of all the exhibitions, wonderful as they have been, which have preceded it. Such a statement of facts
as this is positive proo of the impor tance of the event, and how it is re garded by the stockmen of the country. It not only offers to breeders, feeders, Iarmers, and others who are interested
in the live-stock industry, a school in the livestock industry, a school of
analysis, but a free and liberal education in everything that a stockman requires, and present to the sons of these
men an opportunity for obtaining the men an opportunity for obtaining that
information, and insight to the stockman's business so necessary, so indespensable to them in atter years.
Breeders, feeders, and farmers, Breeders, feeders, and farmers, who are
developing a business of the kind, or developing a business of the kind, or
who have already developed one, and who have sons ready to step into their
shoes when they shall have cast them off, and put upon them the slippers ease and restfulness, owe to these young
men the privilege men the priviliege of seeing this extra-
ordinary Exposition, and ing knowledge without which they will be
sorely handicapped compete with those who have taken ad-
vantage and profited by the opportuni-
ties it aftords.
Money spent in attending this show is money invested in gilt-edged security
that will return interest at the rate of a hundred per cent.

## Binks-Tomlin is one who suffers from liver. He has a little canter every

 Tiver. Hemorning be

Buy this DAIN PRESS


Shropshires and Cotswolds!
In SHROPSHIRES I have for sale 35 imp. shearling rams and ewes from some of England's best flocks, a lot of fine home-bred rams and ewes bred from Minton and lambs. A few of each breed fitted for showing. Order early and get a good

Belmont Shropshires and Southdowns
I have a grand lot of rams and ewes for sale, both breeds Anyone wanting a good ram, or a few good breeding ewes, should write me at once and get the first choice.
C. Hodpeon, Brantiond: Ont. Southdown Sheep $\mid$ Farnham Oxfords end llampshires

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Preent offering: A A tot of first-clase phim Present of ereing: A loot of ifrtecleses pam pion rams. Alse an number of yarrinion bredis. Prices reasonable


 maller, Jr., "BLARGOWRIB parm," ashburn p. o., ontaatio AMERICAN SHROPSHIRE REGISTRY ASSOCLATION Only Shropgaire Association recognized by U. S. Government Largeat memberr
 SHROPSHIRES For sale - Repibered Large White Yorkshimes
 Th Tha, EASTwoon, ont.
思 MEIITION "FARMER'S ADVOCATE."



M. J. Davis, Woedstock, Ont. Hampshire Pigs present ofrging -7 Song in pir H. RUTHERFORD, Boz 62 , Cale.


This Will Stop Your Cough in a Hurry.

Save $\mathbf{\$ 2}$ by Making This Cough Syrup at Home.

## This recipe makes 10 ounces of beter cough syrup han you could buy ready made for 2 g.50. $A$ few       The effect of pine on the membranes is well knownime is the most valuable concentrated compound of Norwegian white pine oxtract and compound of Norwegian white pine extract, and isinch in guacoor and all the natual healing ine element other preparations will not work in this formula.

 A guaranty of absolute eatifaction, or money


## JERSEYS

EHAVE BEEN PROVED BEST BUY a good Jersey, and you don't Why is made up of facts-not theories. Whether you sell milk or butter, or both,
you'll get a higher percentage of profit out of Jerseys than you can get out of any other breed for the same feeding
cost. cost. In the great dairy test at the Columthoroughbred Jerseys, Guernseys and Shorthorns competing (the Holstein breeders declining to enter), the Jersey
herd produced the most milk, most butter and most cheese, and at the lowest cost per pound
At the St. Louis Exposition, in comBrown Swiss (Guernsey breeders de clining to enter), the Jerseys were proved to be the most economical pro-
ducers of butter, butter-fat and milk. Look into the matter. The more you investigate, the more Jerseys you'll buy. Booklet of facts on request.
Canadian Jersey Gattle Club R. REID, Sec'y., Berlin, Ont.

## Tamworths <br> FOR SALE

 Two young sows 10 months old.One due in two months, the other later. Out of best imported stock. Two boars 10 months old, for service at
once. Sired by Maplehurst Sunbeam For prices apply: DUNGAN
St. Mary's

ump Rock Salt, \$10.00 tor ton lote. f.o.b. Toron Toronto Salt Workis, 128 Adelalee st. E
Toronto. J. CLims Mand SHORTHORNS and OXFORDS

AS USUAL.
Market Report.-Cutlery sharp. Avia tion supplies going up.
gith. Molasses slug-
gtoves warming
tire Stoves warming up. Rubbe
tires much inflated. Limburger remains
strong. Dynamite Indications are that the coming year wity wanic or something else prevents.

THE SPICE OF LIFE
some assurance. Freathest girl I know works in a quick
tunch rom


 I'm the swellest thing in the bloc

ANOTHER FOOL QUESTION along the village street when Uncle Abe Burse stepped out of a store. He hadn't heard the new.
"Sho," said Uncle Abe Burse, "who
they buryin" to-day p""
they buryin" to-day?" storekeeper.
"Sho,"
s
"Sho," said Uncle Abe Burse. "TTite "You don't think we're rehearsin" with him, do you ?" snapped the storekeeper

A blessing
The following card of thanks recently ppeared in a Kansas paper "I wish to thank the city authoritie three weeks recently because one of them had the smallpoz. During that time my Wife caught up with her sewing; we hal three square meals a day, as no on
came in and she was not permitted to leave; we enjoyed three weeks of good nights" sleep; and best of all, a cousin us, saw the smallpox sign on the doo and left town' so scared she will never come back again. So, for these and other blessings,
the quarantine."
$\qquad$
too latage.
Jones had passed a weary night. He was English, and travelling abroad. It
was not until 7.30 o'clock that he fell into his first really comportable doze. Bang ! Bang ! He thought that the
Germans were upon him. But he awoke to find that it was only the "boots" rapping at his door.
"Well, what is it ${ }^{\text {o }}$
"Well, what is it ?" he grumbled "A telegram, sir," replied the boots,
in breathless tones. "Will you open the door, sir ?" ""Certainly not," exclaimed Jones, crossly. "Slip it under the door, my "I can't do that, sir," replied the
boots, anxiously. "It's on a tray t"
brain storms.
Sign on a Long Island store: "Boats Epitaph on a butcher's tombstone in New Hampshire: "Meat me in heaven." Extract from a letter of a Fall River
merchant: "Thanking you in advance forchant pavors." in a Charlestown lodg-
Card displayed in ing-house : ing-hou
meals." Spoonerism (rather a freak of the
tongue than of the wark is the bulhouse of civilization." Bit from country paper: "He was un-
married, and, so far as known, there was married, and, sh he should want to die."
no reason why Choice sample of editing in a woman's
finalfonso XIII. was the son journal: "Alfonso XIII. was the son of Alfonso XII., who died five months
before he was born at the age of twentyeight."
cynicisms.
More people can sing than ought to. begins paying a woman alimony, all the rest begin paying her attentions? Many a man tries to fool himsolf into
believing it is his digestion, when, as a matter of fact, it is his conscience. matter of the honeymoon a woman begins to economize on sachet and scented soap, and a man to economize on shaves and
kisses kisses.
Success in the love game depends on a
woman's ability to appear indiferent Success ability to appear indifierent
whan's an she is in love, aud our a munan's
when ability
different.

## different.

wistrul look thut
about the mu
and didn't.

# BOVRIL 

DAILY THROUGH THE FALL AND WINTER
It will tone up your system. It will build fleah. It will create a reserve fund of Energy.

"Hello, Tommy! Chores done already?"
"Yep! Aint you seen our new Litter Carrier? It's a cinch-You should write to
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You can if you work hard enough, and if you have the time and patience, keep stables perfectly clean with the help of fork, broom and wheel barrow.

But those were ways of twenty years ago -before labor was so high and hard to get.

Stable Cleaning by the Dillon Method can be cut down to less than half the time, and a quarter the labor formerly required,

Your man's time is valuable - then cut down the time he spends cleaning the stables.

Your stock is valuable-then give them cleaner and healthier surroundings.

## DILLON'S Litter Carrier

Figure it out for yourself. Get our free book. Dillon's sell direct to the Farmer. There price is the same to all, and lower thian you would expect for such substantial and wellbuilt equipment DLLLONS BOOK ON
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of what you cos you an exact ideal
accomplish for a small of what you can a accomply.
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best results are obtaimed from ads. in "advocate."


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HIS is the immense Canadian factory where Northern Electric Rural Telephones are made-in fact, where ninety per cent. of the telephones used in Canada come from. Our big organization, with its branches extending straight across Canada, is ready to help you in every detail of the formation and construction of a rural telephone line in your own community. Not only will we help you with your company-organization, line-construction, instrument-installation, etc., but our men are ready to give you much personal help out of their own telephone experience. With the help we offer, you can easily interest your friends and neighbors and operate your own self-maintaining telephone system.

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friends can regulate the friends can regulate the cost of operating
the line. Send us the coupon to-day and
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with our compliments. make evervome arvound you anxious to
help. All it meeds to get a telephone help. All it meeds to get a telephone
system going is for some one progressive man to start the umovernent. Youressive
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