

## See That Can? It Never Moves <br> always be lifted off before the covers

Other separator manufacturers have been trying to imitate it for five years. That shows their high opinion of a low, steady supply can which need not be removed in order to take the bowl out of the machine.

$\mathrm{O}^{\mathrm{t}}$UR machines are the only cream sepa rators that have such a supply can. Other manufacturets have not been able to imitate if. That is because all common "disc" or "bucket bowl" separators have bowls fed through the top-such bowls must have the supply can set directly over them. Consequently, the supply cans are always the lighest part of all common
bowl can be removed.
= Ow stipply cans are only possible in 4 cream separators having a suspended howl fed throudh the hottom. Our machines are the only cream separators having such bowls, and our patents prevent any other manufacturer from making them.

S
YPPOSE you had the supply can, on any separator, full of milk and found it necessary to remove the bowl? It would be mighty inconvenient to lift the supply can off, wouldn't it? No need to with the Tubular.
Tumire appreciation of Tubulars has made their manufacture one of Canada's leading industries. 1908 sales were way ahead of 1907 -far ahead of any competitor. if not of all competitors combined. Mxclusive Tubular advantages will make our 1909 business still greater: Write for Catalog No. 193. It will interest you.


The Sharples Separator Co.
Toronto, Ont.
Winniped. Man.

Trinidad Lake Asphalt
-the time-tested weather-resister used on streets and roofs for over a quarter of a century - is the stuff that-makes

## Genasco Ready Roofing

Genasco is the stuff that makes your roof proof against leaks and repairs. There is no mystery about what it is made of You know Trinidad Lake Asphalt-and you know it makes roofing that lasts.
Write for samples and the Good Rool Guide Book, Mineral and smooth
wurface. Ask your dealer for Genasco, Insisi on the roofing with the hemiTHE'BARBER ASPHALT PAVING COMPANY


D. H. Howriden \& Co, Lid, 200 York St.

Crane Company, Vancouver, B. C.


 shingles
lightning.
have to pay one cent for this protec-
tion, either directly or in then tion, either directly or indirectly.
Insurance records show the nusurance records show that nearly
one-lalf the fire losses on barns in
Canada result from lim Canala result from lightning. This
Cass, running into the hundreds of loss, running into the hundreds of
thousands of dollars, can be entirely prevented if Safe Lock Shingles are
usod.
We know this, and wo back up our
statement with a Free Insurance Poliny payable under its terms in cash.
Safe Lock Shingles are sold at tho Safe Lock Shingles are sold at the
same price as shingles known to be same price as shingles known to be
inferior in quality of steel, galvaniz-
ing and construction. ing and construction.
We have becn manufacturing Safe
Lock Shingles for over ten years, and Lock Shingles for over ten years, and
roofs laid when we started in business
are still ", as rood as new, ", to are stilu as grood as new, to quote
from hundreds of letters we have on
file in our office from our pleased and satisfied customers. In all this time these roofs have not
cost one cent for repairs of any sort,
In all those ered with Safe Lock Roofing has ever been destroyed by lightning.

SAFE LOCK SHINGLES ate the only shingles that-
Give you a positive guaranty against Lightning, backed up by a policy signed and guaranteed by the manufacturers.
Meet fully the rigid requirements of the British Government for Public work.
Lock on four sides, and cannot be pulled apart.
4. Have three (3) thicknesses of metal along upper edge at point of greatest strain
5. Completely protect nails from weather
6. Have edges galvanized after being cut to exact size.
Do you know that Safe Lock
Shingles fully meet the rigid require-


Shingles fully meet the rigid require-
ments of the British (iovernment for
Admik Tdmiralty and other public service. name Safe Lock. No other shingle double fold forms the top lock in.
Think what that means. Let us illu. has that name.
trate. Mustrations 3,4 and 5 show the
onstruction of other metal shingles. $\frac{\text { construction of other metal shingles. }}{\text { Fio. } 3}$ No. 3 is the old-fashioned cleat
shingle now almost entirely driven
from the market by the Safe Lock
Thece from the market by the safe Lock
These do not always shed water, and
it is almost impossible to keep them it is almost impossible to keep them
from leaking after they have been on
$\qquad$ Note in No. 4 that the nail is only bout half way driven into the sheeting, leaving a large surface exposed
to the weather. This makes a very
insecure fastening for is still further weakened by the sand thing
inster
is for is still further weakened by the spring-
iness of the steel, which has a tendency to pull out the nails, causing a loose,
leaky, rattling roof. $\overbrace{\text { No. } 5 \text { is a side slip pattern, similar }}^{\text {Fio. } 5}$ No. 5 is a side slip pattern, similar shingle slips into the other, but does way pull apart easily and must not be confused with the positive lock in
our Safe Lock Shingles, as shown in
Fii. 2. Lock Shingles are absolutely uniform. We have spent time and money to perfect their construction,
which is fully protected by patent. which is fully protected by patent. and a Safe Lock roof cannot leak, if the shingles are laid in
accordance with our printed instructions.
The Metal Shingle and Siding CO. Roofers to the Farmers
of Canada Oueen St. Factory $\sim /$ prasennd mo rour booktot $\begin{array}{ll}\text { Every farmer knows from experience sel- } & \text { Whingle. } \\ \text { where the greatest strain comes } \\ \text { that ordiuary galvanized fencing sel. } \\ \text { Wafe Lock Shingles lock positively }\end{array}$ dom lasts longer than two or three Safe Lock Shingles lock positively nails are driven full length into
yars without showing signs of rust. on all four sides. Othe shingles
On the other hand, galvanized wire grip only on two sides. This is not the sheeting, and are protected by On the other hand, galvanized wire grip only on two sides. This is not the sheeting, and are protected by
for ciovernment us. gives years and cnough for a permanent, durable the peculiar lock construction from years of scrvice, owing to the splendid roof. We know of many instances any possibility of water backing
 Why the same as Government wire, and a stiff breeze. Another objection is Fig. 2 shows the side locks. Note gor ge long service We really do not apart owing to the warping of the the deep firm grip which allows
is know how long they will last. Safe sheeting to which they are nailed, ample room for expansion and
 Branch Fact
M lontroal



He Knows
"The Tie That Binds" He knows that the lock on
STANDARD
GOVEN WIRE FENCE
is not driven down on the wires at the point of crossing, but is driven at an angle and, therefore, cannot mure the fence.
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points of the "Standard" Wire
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Pence. Our book tells them all.
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| $\begin{array}{l}\text { PLANTER } \\ \text { LImTed }\end{array}$ |

Woodstock, ont 2 5isis an

# The Farmer's Mdvocate and Fome Mragazine <br> Established 1866. 

Vol. XLIV

## EDITORIAL

Household or Home
$\qquad$ touched this week by our old friend Sandy is touched thase regarding whose silence these months past some concern has been felt not only by the editore, but by many readers as well. with some exceptional examples, his strictures have an un deniable basis of fact. We yield to none in ad miration of country life as it may be, and in some cases is, but it must be admitted that the com parative isolation of farm exe, educational privileges experienced by many and educational privires or at any rate practice Lhe economy necessasholds. and the exacting na ture of farm work, have tended to produce and perpetuate among some of us a degree of un couthness and reserve which bears with crush ing force upon the finer instincts of the gentler sex. We do not say that such conditions ar inseparable from farm life, for they are not; nor would we imply that they obtain generally, in all their iron-clad rigor, but there are instances where they do, and traces of them can be seen im good many rural homes.
proving, but there
It has been said, with some considerable de gree of truth, that the way to keep the boys on the farm is to keep the girls there ; but if the hasses of to-day are to be wring prospect spread before them than some of their mothers have had. The picture of love in a cottage is all very well, but if the cottage becomes a white-slave domicile, animated only by a grim determination to make money, the picture takes on another aspect.
The twentieth centur: is enphasizing the gospel of leisure-leisure not only
culture, intercourse and pleasure. Like most culture, intercourse tha ideas has reached the city
other developments, this idea other developments, the country, but gradually it is permeating
bel the rural districts. The modern farmer buys an increasing variety of implements to expedite and also to lighten his labor. Man-like, we think
first of ourselves, of the additional dollars we can make, and the easier time we can have. Does not the wife deserve first consideration ? Ab-
stractly, we concede that she does. In reality do we act as though she did? Too often not We are inclined to think that if she has a washing machine and a new enturn, and It would do some of us good dis semage a modern city home, wh ard water, both hot and
arrangenents, soft and hard cold, in the house; laundry-room, cooking pantry rugs on the floors, and other appointments designed to make housework easier and
livene more But I cannot alford these things, you say.
Perhaps not in all instances, but many of us could, while substantial improvements could be
andem added in the majority of cases. Indeed, som
country homes are already equipped with nearly every convenience found in a city residence. Ind if you cannot provide your wile with ont
the facilities you would like, you can give her one thing she will appreciate vastly above all these Give ther your sympathy. Fvince a practical in terest in her work and her special concerns. Crops and stock aro not the only things worth while. The children are at least as important as the and the kitchen rather more essencial

LONDON, ONTARIO, MARCH 4, 1909
man existence, not only on the farm, but in the city as well, is the spectacle of a man and wife, trudging along side by side, yet treading in diter ent paths, separated by a barrier of reserve. As a rule, we believe the responsibility for such situation rests largely with the husband, and up on him it devolves to make first advances. 1 is awkwara enough and will not hurt one ater the first two or three times
Open out to vour wife, get outside yourself Open out and try to converse habitually on the subjects in which she is interested. A touch of sentiment will make the family kin. Brick, mortar, lumber, trees, flowers and spacious grounds do not make a home. It is the family ife, the love, affection and considerateness that are within. These virtucs exist, of course, in the majority of families, but we would hime to see them take on a little more practical form. Family allection is not a sordid thing, but hess is of never manifesta shrivels with passing years, oublul qualter ond shoughts to ench other, and the doing of things one for another that rekindles the fin of alow of af fection, and the doing of a few little acts of thoughtrulness, the lightening of a burden of abor, and the speaking of a fow words of kind ness, would transform many a household into a home.

## Provincial Police System

The need for a change in Ontario's rural constabulary, as suggested in "The Farmer's Advo cate," is steadily gaining approval. The dele gates to the recent convention or doubt as to E. their desire for a more population. Representing, as they do, the intelligence of agriculturists in all parts of the Province, the enthusiastically unani mous resolution, advising that a rural mounted police force be adopted, or that the present sys tem be so changed
should bear weight
Following the action of this representative body, come comments from the press in different parts of the Province, pointing out the necessity of a more efficient constabulary. Col. Gravele presents memoranda for the organization and preseration of a police-force system for Ontario, whereby qualified men would be enlisted or employed as policemen or constables on a semi militia basis, to enable each city, town and rura municipality to be supplied with the number re quired for the maintenance of law and orden Mreanization gaiza ford the whole under the direction and control of the ttornex (General as supreme head, or such other officer as he may appoint. The following districts are suggested: London, Hamilton, Toron0. Kingston and Ottawa. Other officers and men would be responsible to and governed by their respective district heads. By way of pay ment, the proposed plan is to have the force paid, clothed and maintained directly by the Province oured by a special assessment on each municipality constables required in that municipality. Regarding the efficiency of operation of such cornmitted in any one municipality where a Pro
incial policeman is stationed , he at once notifies the head of his district, with full particulars description, etc., of the culprit; these are at once communicated to every station in alert, the nce; the whole chances of escape are . It is well known that numberless criminals have gone free and unpunished for want of such a system as I suggest."

In the main, the suggestions are along the line the idea outlined in our columns recently. Grad ually, the feeling is growing that the present fee system is obsolete and inadequate for the prote tion of those in rural sections against criminal of divers kinds. All that is necessary vince the Legislature that a change must be mad This should not be difficult

## Profit from Poultipy.

Many farmers are inclined to look on poultrykeeping as a small business, worthy the attention nly of women and children. It has been cusomary to refute this impression by citing statisical aggregates, and by reference to scientific or mole pernent da. order, are liable not to carry strong conic tion home to the doubting mind. We counts of farmers keeping poutry under every ay conditions are decidediy more stimulating, and ertainly more instructive, when details of man gement are conjoined with the financial stato ment. It may, perhaps, be just as well for a armer not to become wholly absorbed in his poultry-yard. Better to specialize on cattle or sheep. On the other hand, a fair-sized 200 , well hock, say 50 to 10 b birds, or pern the owner a attended, will help to devil, and will be liable to benencia capase care of the other farm stock. ead while poultry should not, as a rule, be come the specialty, it makes a first-class side-line, which should receive attention on almost every
farm. That there is by the experience of many keepers, pub lished in "The Farmer's Advocate" this winter of course, it is the successes, rather than the failures, that are recorded, beived the care it dethat if the farm flock recelved the so serious or serves, therous. So many flocks are kept in filthy numerous. ill-fed, unexercised, neglected, and a lowed to become badly infested with lice or dis ease, and then the owner writes telling us his hens are dying, and wondering what is wrong The trouble generally lies in the management. A dollar profit a year per hen, used to be the slogan. Nowadays, with eggs ranging from or 18 cents to 40 or 50 cents a dozen, and mat ket poultry also high in price, is comparatively etter this 120 . easy farm flock should not exceed $\$ 1.25$ per hen, hich would lork, housing and profit, throwing in the manure. Taking these facts into consideration, it is not difficult to establish the hen as our most economical converter of cereals and by-products into wholesome human food. howing of their poultry were they to give it a fair chance, put the fock on a business basis, and keep strict accounts. Quite a number of our

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john weld, Managrr.

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THE Farmer's advocate and home magazine is publishod every Thursday.
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illustrated with orignal engravings, and furnishes the most

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## An Erroneous Deduction gram, of which at iresh example has been fu nished in a press bulletin on the subject of wheybutter experiments, issued the the Dairy Branch hat, or an error has been made in the calculaions. Last werk we published this article, ing value of whey fict <br> " From experiments carried on hy frof, (iect 1,000 pounds of wh <br> nore than 1,0 ono pounds <br> Inasmuch as Jrof. Dean had meviousty futed the feeding value of shimmen and unskim. ments) at 13.1 cents and 18.2 cents per cur erts per thousand pounds of where whe wer ents in thind the figures placed at onl herefore, upon rawept of the article, we wrot

 the Ifirector of Daiey Instruction, at Torontheal, while 1,000 pounds of separated whey saved 171.8 pounds of meal, or a difference of 43.7
pounds. If meal is worth 1 cent a pound, this would mean a difference of 43.7 cents per 1,000

Copies of this letier wey sent to Professor hay and Dean. At the date or Day and Dean. have heard only from protessors They both assure us that we were correct in as suming that the experiments were conducted last vear, and also that our conclusions, printed above, are perfectly sound, as based upon this one experiment, though Prof. Day, whose letter appears elsewhere, points out, as " did in a recent issue, that further experiments are called for to revise or establish the eonclusions. While fairly well satistica unskimmed whev, he foolsthg of sor some reason or other, too whey, he feels that, ior some reas both classes of whey. We are disposed to agree with him in this ; it is even possible that the press bulletin issued has not underestimated the feeding value of whey-fat, though we incline to think it has be that as it may, it is perfectly clear that if the the feediniments are to be accepted as the basis, whey is nearer half a dollar than a York shilling.

Feeding Value of Pations' Whey. Incidentally, Prof. Day's article draws atten ment in which a perishable by-product like whey is fed in first-class condition, and regularly, in small quantities, should be accepted with quali fication in their bearing uipon commercial opera tions. There is a measure of force in this argu
ment, though it seems to us overmuch is made of the wastage likely to he entailed in ordinary feeding practice. Whey is discussed as though it were purchased in the expense of hauling, etc. As a matte of fact. the whey in Canadian cheese factories is regular quantities, and without any particular expense for hauling. True, it is usually sour an
minus much of its fat, hut these deficiencins ar being overcome by pasteurization. worth or lear claim that moons sweet whey 10 cents por cow we fail to so but that this is well within the mack. As be
tweon the value indicated by the (C). लxperi
$\qquad$
$\qquad$ and consider that they shmoly and appraised at what they are worlh as mambates for meal Over Three Millions Wasted.

Sandy Fipaser on Woman's Rights. Its mony a lang day since 1 did ye the honor o' contributin' tae yer columns, an' ye wouldna' be hearin' frae me the noo gin I hadna' somethan'
o' muckle importance tae say to a number $0^{\prime}$ the readers o' yer journal. I dinna' ken exartly hoo mony o' them wad mak' a suitable text for my sermon, but be they mony or few, I want tae tak' afraid, are no sae muckle better than their auld fathers were before them, in spite of all the gude advice they hae' been gettin' frae lawyers an And noo, what I'm wantin' tae talk ahoot ye hard-hearted auld farmers is just this: Hoo are ye an' yer auld wumman gettin' alang the day ? Are ye still makin' her pull wi' ye on an wa o' the advantage, as ye will aye be daein' for he wee pony? I'm muckle afeart that wi' mony ttention pony gets mair han its fair share Noo, ma brither furmers, I juist want tae pit some things I hae' scen, an' mair things I hae' thought, an' a few o' the mony things I wad hae' liked to hae said relative tae this subject, o' the life oor daughters, wives an' mithers lead an' worry will no' be lang in startin' up once mair, which is anither reason for ma wantin' tae pit in this last word at the present time. The
question is, " Is oor life on the farm lived in the way best calculated the pive an all-round develop nent tae oor daughters an' wives, an' is it mak in' them happy an' contented in thrir hame ? dark every day in the year, and na thocht for onything else but that an' siller, we're off the track. I kenned o', an auld farmer wha used tae keep the lantern, a ready in, beside his bed, so struck three in the mornin". The puir auld fellow is deid the noo, an' those wha pretend tae wi' him that he diana tak ony o' his siller awa' 'i' him. Anither man ony acquaintance used "umman wad blaw the horn for dinner, an' then rin back tae his wark again wi' a piece o' bread we ken his rinnin' to dinuer but rinnin' back Noo, if these men had only killed themselves, the case wad be no' sae bad, but, like every other
mon on the wrong road, they made a lot mair mon on the wrong road, they made a lot mair
vae the same w'v. Wives an' dochters a' had to kece up tae the pace set by the auld mon, an' it
turned oot tae be a " pace that killed "' the auld lh ismse the he hoose that gaes under first, she havin' tae wark inside maist the lime, an' gettin' no
whange frae day to dill but aye washin' the same floor wi' the same dishpan, and sweepin' the same Ther things, till at last she can dae na mair, an her auld man has tae spend in doctor's bills a' vif. Sometimes she math' a hired girl for his awa frac a' her trouble an then he has tae gae 1 once heard a minister saty frae the pulpit died was that thery hadna' onsone tae dae their
"ark "an wait on them hand an' foot," This imstance. why its ave the wumman that ken, for the man, The ave the wumman that waits on hime she pits on his collar an' necktic, an' gets out an sits in the buger an' yells at her tae waitin a man
 and
$\qquad$
$\qquad$

Educates and Inspires.

they will mat marr formor if there is onething
Whane them she then what their mithers cam

MARCH 4, 190:
THE FARMER'S ADVOCATE
dochters sic an impression o life on the farm
that they will choose that life hefore ony ither, that they can gie them that impression by juist using a wee bit $o^{\prime}$ common sense an' considera tion. Noo, ma friend, 1 dinna' think I hae asked too much o, ye, gin things are no gaein' just richt in yer hame, an' ye want tae straighten them
oot. Be juist as gude tae yer wife as ye are tae yerself', an' maybe a wee bit better, If ye can
buy machines for the farm, ye can buy them for buy machise; an' if ye can hire a man to dae some
the hoose $o^{\prime}$ yer wark, ye can hire a girl to dae some ap hers. An Showing a little $0^{\circ}$ that winna
preciation. Sho preciationter the first two or three times. Neither
hurt ye after hurt ye after
will yer dinner be ony the worse, tak' ma word for it.
Noo, Mr. Editor, I hope nane $o^{\prime}$ yer readers Noo, Mr. Editor, I hope nane o yer read ans
will tak' offence at my plain spaking. It is the
privilege o' an auld fellow like mysel' tae be privinege o sdvice, sae lang as he has na' got into his
giein' dotage, an' I ken that when true friend by apme, ye will be showin yersel a thue FRASER.

## Education for the Farm.

 It has been an all-too-prevalent practice in eastern Ontario, at least, for the successut them er to educate hs. This has resulted in the fact that, all over this country, and in the lll proStates, you will find farmers sons in all tors, lawyers, preachers, merchants, etc., while very many are eking out a bare existence, living respectably, still displaying the traits of manknee down on the old farm, with its open, fresh ane and its teachings of nature. Still, all too many have fallen in the struggle against vicesthat beset the innocent youths from less-poputhat beset the innocent youths from less-popu-
lated places. The writer has in mind one neighlated places. The writer has in mind one neighwhere, some years ago, were a lot of as fine types
as of boyhood as could be found anywhere. These
boys were the sons of successful farmers, in most boys were the sons of successful farmers, in most
cases of the finest types. They worked hard, and economized, in many cases, to give their boys a good education, and fit them for, as they thought,
a higher life than farming. One who was most a higher life than farming. One who was most
pronounced in this, died recently from a broken heart, as the result of the perfidy of one of his boys. The old farm, that provided not out also good living for the entire family, but also
enough to give all the boys and girls (seven in number) a good education, has passed into the hands of strangers. One of the boys committe suicide a few years ago, another has become notorious swindler, whose operations are spread
over two continents; one of the daughters is living in dishonor, having been deserted by he husband: the other four are still eking out a fairly respectable living, but buy back the old farm. This is but one of hundreds of similar experiences, where happy, prosperous families have that their children are too good to be farmers, and who educate them and put them into positions they are unable to fill. If our farmers ter opportunities for education and ability than any other, and, while it may not furnish oppor tunity for amassing fortunes in a day, yet, by che application of attention and ability, the re-
ward is sure, and also that the greater the intelligence applied, the greater the reward. If our successful farmers would educate their sons and daughters, not for the professions, but as it would be for them and for the country. enough thorough, up-to-date, practical farmers. theirss to be the opinion of many farmers that the farm, and that the drones or dunces are good enough to have as farmers. It would be much better for the country if the best and ablest
boys were given a good agricullural education. and made farmers of. In the neighborhood above nentioned, all the young men of about the writ-
er's age, except two, left their homes to seek fortunes in other parts. They are scattered all
over the earth's surface, almost, and just one over the earth's surface, almost, and just welve
has made a financial success ; some ten or twor otherc have made more or less dismal failures. two having died of loathsome disease. The two
that tayed at home on the farm have made sucand hichly respected. Better, far, your boy Should hir a successful farmer, living in compara
ticn coumfort and contentment, than struggling to keep
sortinu homothly transactions in his frantic efforts to
kerp. in the race. Agriculture and its allied intwen offers a surer future, and is honorable
buntry possesses, and the sooner our farmers 142:8, a very bonnie, gay horse, got by Hiawatha ountry possesses, and the sooner our farmers
come to realize this, the better will it be for all 10067 , out of the Cawdor-cup mare, lady Vic-
亚 concerned. If you, my farmer friend, have more toriad's you not place them all on the one farm, to their substance, quality of the class. Mr. W. S. Park's advantage. I maintain that 150 acres is sufficient to maintain four boys in comport. KERR.

## HORSES.

## Our Scottish Letter

The dead season is pretty well over, and we
are again entering on the days when there is life and motion. The event of the past week has been the Scottish Stallion Show, at
The show was well up to its usual standard. The three-year-old class has probably never been excelled. The quality of the animals exhibited in
that section was unusually high, and both the that section was unusually high, and Cow the cup, open great trophies of the Brydon Challenge Shield, to all ages, and age, were won by the three-year-old horses. Th
winner of the Cawdor Cup was Mr. Robert Bry winner of the Cawdor 14032, the male champion last year at the Royal and at the Glasgow Sum mer Show. This horse is a model Clydesdale. He
is very showy when on parade, has beautiful feet is very showy when on parade, has beaure is a wealth of refinement about him this season which was rather lacking a year ago, and he is likely to hold the triumphant posion His sire, Baron o, thus early been exated. at the H. \& A. S. show last year, and has proved himself one of the pick of the sons of Baron's Pride 9122 . Three
out of four of the first-prize winners at this Glasout of four of the first-prize wit by him, viz., Perfect
gow Stallion Show were got Motion, which was first in the aged class, and last year was first in the same class, as well as second at the Highland, where he was beaten by and
Bonnie Buchlyvie, and the first-prize yearling, Bonnie Buchlyvie, and the arst-prize is only
Dunure Footprint (strictly speaking, he is ten months old, and very good at that). The winner of the Brydon Challenge Shield was Mr
Kilpatrick's St. Clair 14347, an amazingly thick. Kilpatrick's St. Clair 1434, an amazingly
well-ribbed colt. with good feet and legs. He was second to Bonnie Buchlyvie in the open class. Mr. Brydon's horse would have won the Shield,
as well as the Cup, but Mr. Brydon did not show as well as the his own trophy. The third three- ribs-the best colt in the class. Mr. W. S. Park's unior Premium of $£ 80$ had been awarded, was placed fifth. The aged class was not nearly equal o the tiree Perfect Motion, already named, a Kilpatrick's Perfect Motion, already named, a
horse of immense substance and magnificent achorse of immense substance and
tion. The others in the prize list were capital animals, second place going to the black horse,
Ganymede 14130 , from Mr. Marshall's stud, $\begin{array}{ll}\text { Ganymede } & \text { 14130, from Mr. Marshall's stud, } \\ \text { Stranraer. } & \text { Mr. Taylor had third and fourth with }\end{array}$ Stranraer. Mr. Taylor had Hugo, namely, Sir paighton 13760 , and Sir Spencer 13211, very fine, sound horses, the former big and cart-horse-
like in every line, the latter a typical Clydesdale. ike in every line, the latter a typical Cly and John
Ve had a choice class of two-year-olds, Leckie, Inchwood, Milton, of Campsie, had the honor of breeding the first and second, from a mother and daughter. The first was High Degree 14703, owned the second, Royal Salute 14826, an own brother to Royal Review, the H. \& A. S. champion stallion of 1907.
A remarkable feature of this show was the xtraordinary number of high-class animals claim-
ng Baron's Pride as their grandsire. The first and second aged horses; the first, second, third and fourth three-year-olds; the first yearling, and Many of the best are out of Baron this category. Thany of the best are out of Baron's Pride mares.
The cross between Hiawatha and these mares is till proving most successful. But the most notable feature of this show has been the recognition by owners of the value of a veterinary
examination. Hitherto, the rule has been that the two great trophies, the Cawdor cup and the Brydon Challenge Shield, could onyary examina tion for soundness, and, in the case of the Shield. for height as well. But there was nothing to
hinder a horse which was unsound entering the hinder a horse which was unsound entering the
arena and competing for the trophies. This year arena and competing rered, but it was made known that only sound horses could win these trophies, so only sound horses should be allowed to com-
pete for them. This led to quite a number of expete for them. This led to quite a number of ex hibitors bringing forward their horses tuesday after noon, and many more would have been sent for-
ward had the Society given a certificate of sound-


Black Ivory (Imp.) [7761| (13367)
Glydesdale stallion; black; foaled in 1905; imported and owned by Smith \& Richardson, of Columbus, ont解 in his class at Ontario Horse-breeders' Exhibition, Toronto, in January, and arrst and Teberve

## Lambing Time with the Flock.

ness to those which passed. As it was, ifteen the loose texture and consequent ease of digest
Beited barley is also a were examined, and all of these but one passea, qualifying diseases : Roaring, whistling, ringbone, Quadebone, unsound feet, navicular disease, spavin
side (bone), stife-joint disease, stringhalt, shivering (chosea), aight appoared to compete for the final trophies, viz, Boanie Buchlyvie , Priect Motion,
St. Clair, Montrave Viceroy, Sir Dighton, High
All these St. Clair, Montrave Viceroy, Sir Dighton, High
Degree Royal salute, Black Douglas. All these Degree, Royal Salute, Black Doud guarantee that
horses had, therefore, an implied guat horses had , free of these diseases, and this must
they were greatly enhance their value. There is every probability that inc a
peting at the principal shows will be subjected to petergy at eexamination preiiminary to their en-
vetrinarhe ring. This will insure that, so far as
tering the tering the ring. This will insure that, so rar as human skill can decide the matter, oilly sound
horses will receive prizes. horses will recent wil be the enforcing of a rule
greater moment
hy hiring societies that their premiums will only greater moment wirl that their premiums will only be awarded to sound horses. Some exception has
been taken to the schedule on the ground that it been taken to the schegu" on spavin or thoroughpin, os well as "bone "" spavin. There is a general disposition to admit that there is something in
his criticism, and possibly an ammended schedule this criticism, and possibly an amended schedule
will be prepared. The pioneer in this movement will be prepared. Mr. Trydon, who owns the champion, , Bonnie Buchlyvie. He made "a veterinary
pass." $a$ condition of winning the shield. pass " a condition of winning the shield up this
Clydesdale Horse Society took the matter the Clydesdale Horse Society Aos no benefit from the
year. Although it derives ond year. Although it days the veterinary fees, ${ }^{\text {a }}$ Glasgow Show, it pars Yor the Cawdor Cup, and also bears a shar
the cost of fitting up the vetting enclosure. the cost or fratifying feature of the whole business
 the veterinary test. For this we were not pre-
pared, and the outiook for the breed along these pared, and the outtor hopful. The Clydesdale is a
new lines is very hoper
indis is. well known to those Thew sound race. This is well known to those
very
who have long handled Clyduesdales; but the fact. when certined by a qualified veterinarian wight
Principal McCall, will carry much greater weight

## Side Dishes for Farm Horses

The months of February and March, or por tions thereot, are generally conceded to the farm horse as his period of the old song may go a
Possibly the words long way in explaining why-for, ".".How can he
work when there's no work to do ?" During the winter months, on a well-managed
 a temporary respite from flies, heat and dust,
and, as a rule, the call il upon his energies is and, as a rule, the call upon his energies
lessened by good roads and easily-moved lods.
His feed will He works with every advantage. His ied equire
during this time, be such as to meet his requir during this time, be such as entoring foods, liberally Pod, rebuild the rapidy-consumed tissues
When, however the thaws of spriug set in, and the winter work being completed, the feeding problem is one of how build him up in ties causing digestive disturbances.
One of the best foods for the horse in com parative idieness, as wiere he ere tc is crush or rolled oats. In many mills it it now possible to have oats rolled so periectly and cleanly that practically no dust or four
a food far superior to to tormea, romp which, in many cases, are nothing but oat pro ender. That its value is recognized, even in the ration of heaviv- threed harses. transportation ccm
fact that one of the largest chinery in their feed-room. To the turm horse during his vacation, it may be fed liberally best
with one-third bran and a small addition of lin with one-third bran and as smanandard grain ra seed or faxseed meal As a stanuarr $\not$ prain rat
tion for wintering stallions, recciving only light exercise, it is unexcelled
stock equally desirable
In order that the horse may be brought in he best possible condition for his spring work
oweer, some specially-preparect food is nece sary, and am little time spent in culinary elior for the benefit of the four-1.gria motar, stelt whell
from wasted. The writer has small stian whit. barrow similar to that used by the Italian whit
This barrow wings in his civic capacity, hhis barrow hrown two gallons of hran and over all a lar quart or so of fewd molas.ses has been dissolva
bility of the former. Boiled bartey
useful feed, particularly to the hard-worked horse, where its strength is an advantage. To the horse barley must be fed only in moderation. or an ounce and a half of nitrous ether, or a Eew crystals of Glauber's salts, should be given given every second night, alternating with evening feed of roots (whole mangels, carros
turnips, ann ads or tonic mixtures are to used, now is the time. A stated amount mixed with any of the foods mentioned, will add a


## Millet as Horse Feed.

In the Horse Department of your issue of Fer. 11 th, I noticed questions asked
their answers from the editorial standpoint, and request made for the experience of the readers. In reply, I will give you my experience of las fall (1908). I own a hundred-acre farm, most o which is under cult, as most of my neighbors did, but waited until I had all the harvest in. Then I threshed everything, and, in so doing, 1 had to either blow a large amount
Having a fine yield of Japanese millet just in bloom, I decided to cover the hay with straw and experiment with millet-iechich averaged abou 28th I cut down ine in height, left it to cure for three days, and then drew it in and commenced feeding it to the horses, two aged geldings and two brood mares, one raising a foal, and the other having
lost hers. I did not give them all they would eat of it, but just what I thought was enough the millet being the only coarse feed they got, Along with it, they each had three quarts oat
and 1 quart oat chop each meal. and On this feed they did all the fall plowing and other fall work, and last fall's plowing was the hardest plowing I can remember doing, as the exe cessive rains during harvest and the extrene
drouth after harvest seemed to bake or harden the ground terribly, in some places rendering plowing almost impossible, and I may say that the hors:s shape for winter as ever they did.

Sick Horse in Dark, Unventilated Stable.
I went to see a neighbor who had a sick horse. The stable was closed up tight-no light of any sort, no ventilation,
blanketed. thing but pleasant. 1 was not surprised the horse was sick. The owner does not take "The Farmer's Advocate "; fancies he knows it at
now. Don't you think a little light and venti-INote--Certainly. It is the old, familnay

## LIVE STOCK

## Alfalfa for Hogs in West

In discussing methods of raising hogs for
profit in Saskatchewan, rhilip Leech, who has
marketed hogs at six months averagiņ, over 2ol marketed hogs at six
pounds, says:
I I provide two hog pastures, one for the sows to run in for the two months they are feeding for
market, and the other one for the youns pigs. pull an empty granary into the pasture, wher rels in the granary to soak the grain in. sold. let the young pigs have the run of the two pas
tures. The feed of the pigs up to this time con sists of shorts mixed with ground
oats. Now II drop out the shorts and feed bar ley and oats, or feed-wheat, feeding litherall, each day in the aifalfa. I used to be amusce last year at my pigs eating alfalfa. Just at sun-
down each day they would leave the pen and start for the alfalfa. They would keep, at it until atte
dark. As time goes on, and the pigs are grow dark. As time goes ont and short. we must sup,
ins. and the alfalfa getting
ply somuthing else. IWe must have $n$ patch "
e season is here again when the shepherd be gins to prepare for lambing time in the flock. of course, if he is wise, and wants a really good crop of lambs, he begins work to that end even when the ewes are rattention the sheep have the whole more care and the better crop of lambs there will be. But this time I will give our method of caring for the sheep just before and after lambing About a month before the lambs are expected to arrive we slacken their ration somewhat, and give them a little more bran and oats. Of course they are getting good clover hay, as this is the best of feed for sheep the whole winter long, and no sheep-owner should be without it. Right here might sound a note of warning. Do not feed heavily with grain before or just after lambing, or caked udders will be the result, and the shepherd will be bothered more than if he had fed no grain whatever. Atrlu ats, clean. A small pen is provided for the lambs, with an opening too small to admit the sheep, but large enough for the lambs, and open all the time, so they can run in and out at will. In this pen they are fed as much bran, oats, oil cake, finely-sliced turnips and good clover hay as they will clean up. They will not eat very much at first, but they will soon learn, and it will surprise one how eagerly hey will flock around the troughs when feeding ime arrives. Or course, the lanks should be docked when about larec wexs old, and the rams that are not intended when the snow is well trated the ground, we turn the sheep and lambs out on the pasture for an hour in the forenoon and afternoon, to take a run and get a little grass, which is the best thing they can get after being shut up all winter in the house and yard; but we never let them go out hungry, as they might eat grows warmer, they depend more and more on begin shearing when the weather is warm enough. We always try to get their wool off as early as
possible, even if it is cold. If they are protected ${ }_{a}$ few nights, they become used to the shorn cona few nights, they become used to the shorn con-
dition, and do all the better afterwards. After the sheep are shorn, they will not be troubled get on the lambs instead. So we always try to dip the lambs soon after we shear the sheep, in Ticks are easily killed with a good dip a time. far harder to get clear of. As the lambs are not We get a large tub, put the dip into it, catch the lambs, and put them into it one at a time, all
but their heads, being careful not to splash any in their eyes. It will do the eyes no harm, but We always dip them on a warm, sunny day, and,
Ws their
and as their wool is short they dry off quickly, and
do
do deal hetter after being diaped, as there are no
tichs to torment them. The sheep and lambs tichs to torment them. The sheep and lambs
should be put on fairly rood pasture, and changed
from one field to the ot her, say, once a week, al-
ternate thet ween tun fill Ternate hetween two. firlds, would do. week, the
sheep cold the taken in every evening, and the
sambs wiven a cood feed of grain, better lamber Tambs given a crood freel of grain, better lambs
would be the result. When they are weaned,
have a piece of peas, oats and vetches adder their pasture, and let them in this twice a day Thide it in tun pieces, and, when they have eaten
if one inere. Iet them on the other. When this is aaten hare a piece of rape ready for them; this will do them all the fall, and they might be
fad a little grain in troughs in the field, if you way, vou will have a flock of lambs that will be "pices either as hutcher's or breder's stock. raphepp raisine micht not he out of place. The becially of the meat of young sheep, forbids any dustry Uthe same time, the world's consumpincerease of civilioed populations, and the opening Iff hitherto clucod markets of and neviously savage f tri mstance. consumers of woollen Ac.ing the came. who or prously never knew what atimulated wrochection .....st cover in the future be


Ventilation for Profit in Beef Cattle. Discussing the effect of stable ventilation on
the profitable feeding of beef catcle, J. H. Grisdale gave the following at show: ". To live, every animal must have air, water
and food. Without food, life is possible for a a
githout water, the vital good many dut a short time. When, however, siar is the lacking quantity, life is short indeed Yet, judging by the average barn in the Canadian
Provinces, the exclusion of fresh air in appreciable Provinces, he been the aim of the builder, and
amounts has bately
is still the aim of the farmer. Fortunately, is
every crack or chink does its best to help miti-
gate the disastrous results that would be certain gate the disastrous results chat
to follow the successiful execution of so ambitious
an effort. Yet one should not condemn as crue an effort. Yet one shour widespread effort to ex
or entirely mistaken such wis
armer, lik clude the good pure air. The average farmer, lik
every other Canadian citizen, likes to be com every other
fortable, and, to his fancy, warmth and freedom
from socalled dralts are two of the chief factors from so-called
making for that state wrongly characterized by
tife the word
which make for the best performance of life'
duties, be they the writing of a thesis by scholar, or the production of a pound of meat by A mistaken idea exists as to condition. undery, hence most comfortably, produced. Not
a few farmers have fed steers in openly-cona few farmers have fed steers in opentent re
structed buildings or sheds, and had excellent re sults. Who has not hearu more than one such feeding operations, and the next warmer, feeling and asserting that, such being the case, the rewas most probably quite inistaken, and one of he chief factors making for wis was carried on. The chinks and cracks meant plenty of air; plenty of air meant good health, and the periect performarce of the
tions of the steers. On the Experiment a steers werc fed outsid ith no shelter, save protection from norther nd westerly winds by a bit or leafless a bunch of similar steers inside in a warm stable. Just note the ., results
The outside lot weighed an average of 1,106 pounds The that date, and 138 days later, April 22nd, 908, weighed 1,340 pounds each, an average gain of 234 pounds, or nearly 2 pounds a day,
rhe inside lot weighed, December 1st, 1,139 in 138 days, weighing 1,390 pounds each, having gained 251 pounds each in the period. The gain was slightly greater, but was more expensive live produce.
weight cost $\$ 0.67$ in the case of the steers fed
outside, but $\$ 6.20$ in the case of steers fed inside. It. is evident that the unfimith economy of yains. It must certainly have done much to
help perfect utilization of the food, since less food was required to produce 100 pounds gain unde
he apparent handicap of greater loss of heat. ventilated building made a very low and expensiv gain. In 1903 . similar steers, on similar feed
in the same building, then thoroughly ventilated made heavy gains at a very low cost per 10
pouncis increase in live weight. tawa, made gains relatively more economical tha similar steers in a fairly well-sene shed, while do ing well, failed to give as good results as steer
feal in a very well-ventilated barn. important considerations in feeding steers is to
see that an abundance of fresh air is always entering their quarters, even though the tempera
ture should seem to be lower than one migh
consider lure shou
consider
foing

Another Pigpen Plan.
sion of plans of hogpens. 1 enclose the ground
Th. foor is concrete. $18 \times 48$, fronting the South, which declines 6 inches at the eastern end
from the level at west end, giving general drainTrum the level at west end. giving general drain-
aqe throughout in cleaning and flushing. The

6 ieet from the front, starting 2 feet from the ut. At intervals of about \& feet this trough space between the trough and the front forms the
feeding hall. The space between trough and gutfeeding hall. The space between trough and gut-
ter is partitioned ofi into feeding sections, at the rear of which a partition, with an entrance open-
ing, shuts off the sleeping apartment on the higher, sloping, $4 \frac{1}{2}-\mathrm{ft}$. floor. The frame of the superer, structure is of $2 \times 4$ scantling. The posts and studs stand upon a cedar sill $2 \times 5$, and are 7 feet
long. The plates thereon support a peaked, The plates thereon support a peaked,
shingled roof, underlaid with building paper. The shingled roof, underlaid with building paper. The Wich is covered by tongucd and grooved siding, D and down. Inside, the studding is sheathed
The sliding rom the floor up about 4 feet. Three sliding
vindows at the rear side, and two others in the front. light the house, and, along with four venti-
lators in the roof, control the ventilation. An entrance door near the center of front, a shipping or at the west-end front and ane swinging door


Plan of Hogpen
Recently constructed by P. W. Gilbert: $18 \times 48$ feet.
end of gutter. Cross-beams, $2 x 4$, extending ported by other beamis running lengthwise over the trough and gutter. These again are supported ter and upon the cross-walls of the trough, al slightly embedded in cement. These posts sus
tain the corners of partitions. The partition walls are about 4 feet high. The one shutting off the feed hall stands over the trough. Tha shutting off the sleeping apartments stands over
the wall at the gutter. The sleeping pens ar the warated from each other by permanent partisepars, but the partitions between sections of the
tions, feeding space are hinged on the corner posts at
the gutter, hooked at the front, bevelled at the the gutter, hooked at the front, bevelfeor, an
bottom to correspond with slope of floor, hung high enough above it to clear the litter in swinging. When these swinging partitions ar swung back over the gutter, they close the open
ings to sleeping pens, and are held there by drop-latch. In shipping, the sections intervening between shipping door and the pigs to be shipped can be cleared. In cleaning or fushing, all the sections can be thrown open, leathe a cheir sleep-ine-rooms. The flooring overhead carries the supply of bedding material.
Prince Edward Co., Ont.

Feeding Experiments with Whey.
1 have your favor of the 19 th inst., enclosing
copy of letter regarding a press bulletin ${ }^{\text {is }}$ issued by he Dairy Branch of the Citario Department of Of course, the experiments referred to were conducted in 1908. I am totally unable to say, difference in value between separated and ordinary whey was obtained. 1 had nothing whatintimation with the bulletin, and this is the firs was being prepared.
So far as I can see, your conclusions are per
fectly sound, as based upon this one experiment rectly sound, as based upon this one experiment
I regret, however, that there seems to be a tend-
ancy on the part, of the public to attach a little ency on the part of the public tesult of a single experiment. Personally, it was against my judgment that the results were made pubic but Prof. Dean, at whose request the work was undertaken, them to him, with the reservation that it must be remembered that only one experiment had been conducted
I feel
fair
I feel fairly well satisfied regarding the re
sults. so far as the comparison of the two classes of whey is concerned, but I feel that, for some
reason or other. we obtained too high a value for reason or other, we obtained too high a value for
whey of both classes in this experiment. Of
course. where products of this kind are fed with course. where productc of charged only with what
care. and the animals are chat is
they consumed, it is possible to obtain a great
person could afford to pay for them. It must be kind, that the person using them is liable to in-
for instance, supposing a man concracts to take al be that at certain times he would have more whey than he could handle to advantage, and, pensive food at a comparatively low price, be cause it is a perishable product, and the surplus cannot be stored for subsequent use. In addi nearly every day, which is a serious consider tion, and adds to the cost of the product. The same objections apply to skim milk or buttermilk, and consequently it is not safe to value tion. Or, in other words, it would not be safe for any man to buy either whey, skim milk or buttermilk on the basis of values obtained in experiments where these foods were used in the results. Take foods such as grain or mill byproducts, they can be bought in bulk and drawn to the farm at some convenient time when it is omparatively little hardship to send hor upon a ry different basis from foods of the character I dairy by-products. in an editorial criticism of a letter sent in by a farmer regarding his experiments with pigs, that it was stated that the whey
should be valued at at least 10 c . per hundred. should be 1 , 1 would not think of paying 10c. per hundred for whey unless it could be obtained very
conveniently, and obtained in exactly the quantities required. A man who attempted to buy ties required. Alk, at 1Oc. per hundred, would,
whey in large bul,
I believe, find himself in an undesirable position efore he got through with his feeding operations. The daily hauling and the perisfactory features to be considered, and it must be remembered, in addition, that, when a large amount
whey, skim milk or buttermilk is used in propor whey, skim milk or butch lower value is obtained for these by-products than when they are used in smaller proportions. 1 trust that, in the discus mentioned may be kept prominently in view. mentioned may be k. A. Guelph.
O. A. E. DAY. Professor of Animal Husbanag.

\section*{| I* Ref |
| :---: |
| Editor.] |}

## THE FARM.

ble Production and Income on the Average Fapm-II
MORE THOROUGH CULTIVATION.

$$
\begin{aligned}
& \text { To get the best results from soil, we must } \\
& \text { ndy its needs and supply them, in order to win }
\end{aligned}
$$ study its needs and supply them, in order to win

the possible success in our handing of the same the possible success in our hander to secure continuously good returns from the farm, we must maintain a full standard of plant food, and so manage as to have it avail
able when needed by the crops we grow. Thor able when needed by the crops we grow.
ough cultivation is a means to that end. ough cultivation is ever so fertile, yet, if the growing crops cannot get the plant food they require readily, and at the right time, we cannot hope to be fully remunerated for our labors. To secure the earl-
iest seed time, we must so till the land in the preceding season as to have as little labor as possible in making the the crops grown, the corn and root crops are the most expensive, and that for several reasons. They require more manure, more labor and greater care ing sason. They are the cleaning crops; yet.
how often weeds galore are seen in harvest and fall months, growing luxuriantly, maturing seeds by the million. In the early part of the season the weeds are usually kept in check, and the soil
so stirred that seeds in the surface three inches are made to germinate. But later, the rush of the harvest, and other calls, cause the overlooking of the pests, which waited their chance to grow and develop, and later the seeds ripen and
scatter over the ground. Thereby, the main obscatter over the grinn the land-is defeated by the after-neglect following an excellent start. With the surface soil filled with weed seeds, ready to
spring up as soon as conditions are favorable, spring up as soon as
what hope should we have for the tiny clover and grass plants the following season? The grain is then sown; and so are the grass seeds. They
start out to fulfil their end by growing. The grain plants grow strong, and that quickly. The weed seeds also make good use of their oppor tunities, and get their full share of plant food and moisture. And what of the grasses? They
also grow, but should drouth set in, which are the first to suffer? The grain has a strong lend, but the weeds are not far behind, and the tender grasses and clovers.
struggle are lacking in vigor , hecause of their

Sny．＂But I plow my root land＂，Well what
ol that ？is at any botter to plow，Think noment．Down below the top three inches the Turn it up，and does it mens matters any？
 coter，tar better，to clean the surface soil thor
oughy and leave it on top，kepping the weed seads buried，to have them out of mishief for a time，where some may perish for want or air and light． ROTATION OF CROPS
Systematic cropping or rotation of crops is demanding our attention more and more as weeds
are becoming numerous，and threaten to drive some out of business．Noes it not seem certain
that，whether willing to do it or not，we must， hat，whether willing to do it or not，we must， follow somewhat in the steps of the british farm－ er．They，as a rule，never grow two grain crops succession．Two years in clover and grass， grain，and seeded to clover and rye grass，com－ plete their circle．Should we adopt similar meth－
ods weeds would soon lose their hold upon our ods，weeds would soon lose their hold upon our
lands；and，with more land under grass and less ands；and，with more land under grass and grain，and at the same time have more grass to better feed our live stock in summer．Too many acres in grain，and too few in grass is a very
noticeable fault on many，many farms．Regular otation，with the free use of clover seed，will help to make farm life more profitable and enjoy able in many instances
Seeds and seed－grain selection has quite a place Fair，for years past，Mr．Raynor，of Ottawa，has placed before the public interesting object－lessons．
In boxes containing a few inches of soil were to In boxes containing a few inches of soil were to
be seen wheat，barles，oat and pea plants，grow－ be seen wheat，baries，oat and the barley will an swer our purpose．Three hand selections of grains were made，and planted at regular intervals．Th large，plump grains produced strong，heathy
plants，four inches in length，and all alike．Th second selection，two and a half inches high，were airly uniform，but not nearly so vigorous as the a wonderful contrast ；no one could hope for single good，well－filled head from the tiny，stuntel plants，about an inch long．The opinion wa ireely expressed that the hope of five bushels per
acre more from the first selection than from the second was fully justified from the difference so clearly seen．That conceded，should we not aim at getting the large，plump seed for our fields o save but 40 to 50 per cent．of our grains a they come from the separators．That much good an be got from such selection，was satisfactorily
proved last season on our farm．Barley was si proved last season on our farm．Aarley was so
prepared to sow our root land of the previous prear，in which practically not a weed was al－
yowed to grow or seed．The field was entered or competition in agricultural society contests，
vinning by $9 \frac{1}{2}$ points in the county，and by two points over the Province－a pleasing result of the are taken in cultivating the land，and also selecting the seend that it requires 30 bushels
When we consider that of oats to pay for growing a crop，it follows that
40 bushels gives a profit of 10 bushels per acre； 40 bushels gives a profit of 10 bushels per acre
50 will give 20 of a profit．and a 6 C －liushel crop will give 30 bushels，or give three times the in－
come，while the production was increased but fift．

double his former production，at a cost of $\$ 35$ ， and sells at $\$ 40$ ，yet his income is stationary．In
order to double our production and income at the same time，we must have good quality in our productions，as well as quantity，add a third to
Summing all up，draining will add a the average farm；good high－grade stock wil add $\$ 300$ annually to the income， ， cultivation，rotation of crops，with the selection of seed grains and seeds，will，if continued for ten to fifteen years，double the production of the average farm．And if that is done，we more than assured that the income is much more than
loubled if the quality of the products is kept up doubled if the quality of the products is kept up doing，may it be pressed home to the young men
the great satisfaction that is obtained from doing the great satisfaction that is obtained from on the one＇s very best，and making his business on the
farm a splendid success，being thus encouraged to strive more keenly to attain to the top rung in his life＇s work．A writer has well said，＂Thi
happiest people I know are they who get their happiest people I know are they who get ane
chief pleasure out of the exercise oi their own skill．＂．When such exercise is practiced generally in this Province，and our young men can poin out，with pardonable pride，the excellent produc
tions resulting therefrom，then wie shall hav progress by leaps and bounds，and all Ontari shall become even more noted than now as th place，above all others，where prosperity reign
and all will agree that its agriculture is secon none on earth．JOHN CAMPBELL． Victoria Co．．Ont


Plan of Residence
Therty of Lawrence Bell．Halton（o）
A Halton County Farmhouse
In reply to H．N．＇s request for house plan hought perhaps ours might help him．O
house has all he asks for except the second be room downstairs，and for that he could turn our wash－room into a bedroom，if desired．The cis Lern is built close outside of wall at corner of
wash－room，with a pump drawing the water rixht into the house．The cisterning the water righ
op．Would not advise huilding il in the cella as it causes dampness．Our house is a veneere house to erect．It cost，without our own work in－ uded，about $\$ 2,00$
Halton

## Sacpificing the Woodlands．

 f a familiar scene in connection with one of Kent ＇ounty＇s most important industries，which is far disarpearing The photos are those of a few of the many teams employed by Geo．W．Brown \＆ ons，of Dresden，who furnish a large mill in upperville with immense quantities of olm，oak maple，basswood and other varieties of logs from our native forests．Although the industry is ast decreasing，still there are several mills in the county manufacturing large quantities of logs and bolts into hoops，staves and heading for the ming aphe and sher as ship－ purposes White the original forest is et a nub or for hers， yet a number of far－seeing land－owners are reserv－ second growth timber，for future use A nuber f prominent farmers are also taking advantage the privilege aflorded by the Ontario Govern nent，and are securing seedling trees from the Forestry Department to plant certain portions of heir farms，which movement will，in time，not nly help have a young forest of about 2,000 trees，con－ sisting of walnut，butternut，chestnut，hickory， ak，maph，white am cutting down six acres of my large timber and selling it．Although my large woods appeared to be quite heavy，still，I have more treas growing on one acre of young forest than there are on
five acres of my large woods．Hoping to see this movement advance rapidly，I wish you every success in the stand you are laking to encourage he reservation and increase the replacement of Kent Co．，Ont．Mathe and necessary assets．

From an Indian Subscriber．
Remitting for two vears＇subscription， 1908 and 1909，a Lambton County Indian writes as howed as much appreciation and as noble a want to thank you for sending the paper regularly after my subscription had expired．It and a great help to me．alll a young man， and an Indian．I was an orphan when but a lad cared for me during the years gone by ；and，be－ cared for me during the sears gone by；and，be－
lieve me，I＇ve gained a lot of knowledge of farm－
ine from＂．The Farmur＇s Advocate．＂It has been my adviser and instructor．I would like to tell you all my experience before 1 started to
read your paper，but as 1 am not an educated read your paper，but as I am not an educated
voung man，as some of my Indian brothers are i have some difficult，in trying to make myself understood．I hope that the time may come


How the Woodland is Going．


## A Study in Types of Prize Corn.

 be the best display of cora they had ever seen." outside the illustrations will amply repa belt." Thess illustrations will amply repay.
study in connection with the seed-corn score-carid,
also also published. While at the exhibition in ques-
ald tion there were splendid samples oi white and
yellow flint corns, and yellow dents, a cursory yellow fint corns, and yellow dents, a cursor,
glance disclosed the fact that the white cap glance disclosed the fact that chiefly in evidence, indicative of its general popularity in south-western Ontario.
There are several types of it, notably the small There are several types of it, notably the sman
and the large, claimed by some to be variations of the one sort, but the former appears to be
uniformly the earlier of the two. It is interestuniformly the earlier of the two. It is interest-
ing to note that the grand champion ear of the ing to note that the an old and well-established
show came, not from
variety, but from a new hybrid yellow dent corn, variety, but from a new which, while it represents the ideal of the originator, Mr. Coatsworth, is not yet considered by him sufficiently fixed in type to be put upon the
market. Speaking generally, reliance cannot be market. Speaking genear of a given type reproducing its characteristics with certainty, unless the type has been fixed by breeding alid selection, and is taken from a good-sized seed-plot, the the type. Where persons do not grow their own
seed corn, the better plan is to purchase it in seed corn, the better plan in the ear, and of a variety that does well in the the ear, and of a variets planted. It is prefer-
district where it is to be plar
able not to shell it till near planting time, and the orthodox counsel is not to expose it to wet or frost. In any case, its ime, so that there may be no disappointment. That it has heen thoroughly matured, and harvested and stored dry, appears,
requisite.
It is being realized that the multiplicity o varieties and types of corn is not ons confusin to those in search or good is fraught with in or ensilage purpases. mixing of sorts and imper fect kernels and ears as by the cross-i rtilization of late and early kinds. The new Ontario Corn
growers' Association will do Eood service by growers' Association will do Eood service seed-corn standards, and greater uni ormity o type. Sed-growers in the South-w stern
tario corn area report a very consilurable quiry this seacen for the flint varieti quiry and others say the call for goom seed cor is coming earlitr. and rem of th country.
The followine hrief notes on the trans of priz corn illustrated, and others, will be or interest at this time in connection with the selection of seed
for the coming season for the coming season
Leaming.- Large. vellow dent corn of early
and Leaming
medium an medium and late maturing
both of ear and stalk prized for ensilage: leafi and stromp high matures best in ressex district. Whiteran and central Fas smatlor in statk than Ieaminge, but earlier: not collarly act the


Ideal Butt and Tip of Dent Cor
White (ap Yellow hent (small) - watures eat her than large strain (less than 9\% days) ex der, stalks being rather fine; rougher tip and
decper kernel than large strain: does not stanc
so well as leaming. Dailers variety: large

nrite both in north and sombler, faver
stands trost well : matures in about 9 ; ays: taller in stalk than Early White aly leafy, and excellent for ensilate nown aricty (early),-A yellow, well ond is easy to husk; medium in stalk Silver Mine-I large, pure white dent variets: : show, ears, new in Can-
very leafy, and late matures with late Temming heav vielder of grain and stalk i.merfection which mas be at taineol in the develop mont of the ends of an ear of corn, the latter re
minding one of the woll-woulled face of a Shrop-

Scoring Seed Corn In the Essex High School Short Course, and
at the recent corn exhilition and convention, the appended score-card for seed corn was used. It Mas hased on the lowa state card, adapted to
'anadian conditions. At the morning sessions, or four days, hundreds of corn-krowers, old and oung. veterans and amateurs, made a critical
itudy of ears with this card, under direction of Proi. 1.. S. Klinck, of Macdonald College, who, as a practical corn-grower and corn scientist,

- The ten cars in the sample Trueness to Type-The ten ears in the sample
should possess similar or like characteristics, and 'ossible score to the variety they represen Oniape of Ear.-The shape of the ear should cull and strong in the central portion, and be taver too rapidly towards the tip. A full,
strong ear indicates strong constitution and good vield. Possible score, 10 points. polor of Kernels.- The color of the grain
Col Color of Kernels.- The color of the grain
should be true to the variets, and free from mixchould be true to the variety, and free from mix-
ture. Differences in shade of color, such as light or dark red. white or cream color, must be scored core, 5 points. (olor of cob. An ear with $a$ white cob in yelColor of (ob.-An ear with a white cob in yel-
low corn. or red cob in a white corn, should be Niscualified, or marked zero. except in the case of
White Cap fellow hent. This mixture reduces the value of the corn for soed purposes. It indicates lack of purit, and tends towards a too
wide variation in time of maturity, gize and shate of kernels, etc Possible score, is points. Sit ality or heed condition.- Seed corn should precent to heathy, vigorous appearance, and give "mature or pointed kernels are objectionable, as Ire alse kernels with chaf or con adhering to the Mo. or kernels inow "hack covering of the germ. Tirs of Fars.-In form, the tion should be regu-
$\longrightarrow$ ——




Bailey's Yellow Dent. blunt, flattened or doubl ossible score, 5 points.
Butts of Ears.- The rows of kernels should extend in regular order ovenk is removed. Open deep depression when eled butts, depressed and flat butts, with and swelled buts, dernels, are not desirable. Possible score, 5 points
Uniformity and Shape of Kernels.- The kernels
should be uniform in size and shape, making it should be uniform in size and shape, making it
possible to secure uniformity in dropping with the possible to secure kernels should be not only uniflanter. on the individual ear, but also uniform with each ear in the sample. They should also be uniform in color, and truee as to touch from tip kernels shoul The tip portion of the kernel is rich
to crown. in protein and oil, and hence of high feeding value. Kerntis with a large germinsure a sequal
vigorous growth, as well as richness in the qual
vossible score, 15 points. vigorous
ity of the kernel. Possible score, 15 points.
of Iength of Ear.-The length of ear varies according to variety type and the characteristics
sought for by the individual breeder. Uniformity sought for by the individual breeder. Cniformity
in length is to be sought for in a sample, and sample giving even length of ears should score higher than one that varies, even if it be within
the limits. Very long ears are undesirable, be the limits. Very long ears are undesirable, be cause they
broad, shallow kernels, and hence a low propor
tion of corn to the col. tion of corn to the col). Tossible score, spoints
(ircumference of Ear--The circumference of the ear should be in symmetry with its length.
ear too great in circumference to its leneth generally slow in maturing, and too frequently r
sults in soft corn. Measure the circumference sults in soft corn. Measure the circumierence a
one third the distance from the butt to tip of the


THE FARMER'S ADVOCATE



Leaming (Early)
piece of well-cured cemeat tile, six months old, placed in distilled water for 72 hours, dissolved carry away all the cement in the lump in 33-5 years. If the lump were pure cement, instead of years, if the same rate continued. Subsequent years, if the samer, which contained some salts, as all well water does, gave a somewhat slower rate of solution. And hence Mr. Whater passing that an ordinary (cement tile are much more porus than clay tile) for a considerable part of porus year, would crumble like so much sand in a
the " very few years," to quote his exact for undercement tile are just it is too soon to refute or drainage this irom experience. "Brick," a
confirmial the
periodical printed in Chicago, and devoted to periodical printed in chich published Mr. Wheat's clay-products interests,
paper, together with another article from him, and paper,
considerable other matter, in pamphlet form for distribution, the title being. Drain Tile."
land Cement Sewer Pipe or Drater
land Cement Sewer Pipe or Drain Tile. ", " Detroit periodical, took up the
"Concrete," a "Concrete," a Netroit periodical, took up the
other side of the case, and published a small book-
let entitled "Cement Tile." devoted to the refulet entitled "Cement Tile," devoted to the refu-
ation of the arguments set forth in the Brick pamphlet. It points to the fact that in many places cement sewers, installed many years ago, are still in perfect condition. It claims, further, Mr. Wheat is manager of a clay-tile factory. PerMr. Wheat is manager of a clay-ekes, however, is haps taking Mr. Wheat's own figures for the different tests. the solubility of cement falls of ranidle thet onlv a very small portion of the


Dakota Flint (White)

## THE DAIRY.

amount is removed, no more will dissolve, and
that, therefore, there is no danger of the tile dis integrating.
Anyone interested in the matter might procure
a copy of the pamphlet and booklet referred to, but, after reading them, one is left practically
where he was before, wondering whether cement where he was before, wondering whether cemen
tile will really prove durable. At the present time, investigations are being carried on
various Colleges and Experiment Stations to in arriving at an answer to the question.
year or two should settle it pretty conclusively year or two should settle it pretty conclusively is being perfected, it might be well for Canadian
farmers to go slowly in the matter of adopting farmers to go slowly in the matter of adoptin
cement tile for underdrains. WM. H. DAY. cement
Ontario Agricultural Colleg

## Application of the Summer-fallow

The successful farmer studies the peculiarities of his fields. Drainage, weeds, physical condition and fertility must be considered. Individua cases require specific treatments. No amoun
N investigation or research warrant the laying down of dogmatic rules. Methods of the present differ from those of a decade or two ago. Changed conditions necessitate new systems of farming Some still advocate summer-fallowing, while others have discarded this practice. The question is worthy of consideratio
Briefly, the objects of soil cultivation have
er been the same, viz.: The keeping in subjec ever been the same, viz. : The keeping in subjec-
tion, and ultimately the extermination of the
many undesirable and troublesome weeds. the many undesirable and troublesome weeds; the
preparing of the soil in most suitable condition preparing of the soil in most suitable condition
for receiving the seed sown, and furnishing the crop with most congenial conditions of soil, and conditions most conducive to large production
the liberating of nature's present supply of plan the liberating of nature's present supply of plant supply, and at the same time adding, so far as practical, other plant food gathered from the res due to previous crops and surrounding atmo phere.
Tru
different soils must vary to obtain the same ob jects of cultivation. The difference in physical
condition and chemical content of different soils render this necessary. Not only do varying soils necessitate various methods of cultivation, but th demands for a variecy of crops, as needed in th different systems of agriculture, as follow th
accordant changes of time and existing conditions, a new system imperative in obtaining maximum yields to sustain those depending on the production of the soil. In the earliest stage of conserving the supply of plant food in the soil or of adding more thereto. The pioneers took what the soil yielded them, forgetting that they
owed the soil anything in return. Later, as they continued such methods of cultivation, it became evident that the soil required some consideration and the first impulse was to rest the soil, by ing it to be idle for a season, in the meantime expending some effort at cultivation on this area
throughout the summer. This was the advent o throughout the summer. This was the advent of
the summer-fallow. These farmers were offered no other alternative. They had not an abundance
of barnyard manure, and the clover or any of the leguminous crops, were not grown; yet, they must add fertility by cultivation and rest for a
season. They had not the corn crop as a means season. They had not the corn crop as a mean
of cleaning the soil through the cultivation it re-
ceives, and so they were quite justified in sum ceives, and so
mer-fallowing.
The practice of summer-fallowing was carried
on for some time, and many a worn-out farm, so
to speak, was rejuvenated in this way, and made again productive and clean. But later it bega to dawn upon the formost agriculturists that
this was rather an extravagant use of the cultivated land on the farm of limited area, and, ac cultivation of which would accomplish the end in yield of fodder on the area treated, as, about this time, the need of some bulky fodder was be
ing realized. That the corn crop has fulfilled tice must admit. sitill, all our farms do not large enough acreage to accomplish much in cleancrop, even over " large acreage, do not practice
that system in the cultivation aud care of the crop necessary to improve the soil or rid the land
of ", whe that inf..st it. Through the medium of
th. Snmmen fallow, mamy farms have been reThrough the medium
farms have been il crop, and crop
the farmer who followed such a practice was
somewhat antiquated. It is to be regretted that somewhat, antiquated. It is and effective system of cullivation should have been so viewed, 1or, for low it properly-this being the only reason-not following out the cultivation of these crops thoroughly, they have allowed
gress. rather than progress.
In what way does the practice of summerallowing fail to commend itself in present-day arming? During the past two years, owing bo the general scarcity of fodder, the loss of a crop objection, and this applies to all other years. Again, a fallow needs attention, very often at inopportune times, throughout the season, when
other work is very pressing, and tends to prolong other work is very pressing, and tends to prolong the work of cultivation too much throughout, the
season. When a large area of corn is grown, attention to both areas necessitates more time than can conveniently be spared. It is difficult to save a dressing of manure for this land until needed, without suffering considerable lass from nure is applied, whatever improvement is effected in fertility must be derived through the weather-
ing of the elements of the soil, and the exposure ing of the elements of the soil, and the exposure
and constant cultivation received, thereby rendering soluble the insoluble plant food stored in the soil. This accomplished, there is danger of much
of the fertility being lost through leaching if the of the fertility being lost through leaching if the
fallow is worked early in the season, and then left fallow is worked early in the season, and then est
bare before another crop in the following season can be grown that would avail itself of this supply of soluble plant food. The loss of plant
ood through leaching, the excessive evaporation ood through leaching, the excessive evaporation of soil moisture, the undue weathering of the
elements of fertility, and the prolonging of the work of cultivation throughout the season, are
the uncommendable features of the practice of bare fallowing
Where the system followed is more along the lines of green-manuring, the results are somewhat different. Where green manure is used, much humus
can be added, and the phrsical condition of the soil very much improved. Flant food can be added, and fertility increased if the crops grown are le guminous-i. e., peas, vetches or clover. By fol-
lowing this course, we would be adding nitrogen to the soil, aside from the supply in the humus that would accrue from the residue of the crop turned dow
Again, this system is most effective in smothring out weeds. A patch of couch grass, however
well established, can be destroyed in a season in this way, viz.: : First, partial fallow, and later a stout stand of some crop that is a very effective
smotherer.
We cannor wefl say, as yet, that the Province are many areas in a most deplorable condition, and many farmers who are not sustaining the fer-
tility of their farms without the summer-fallow Ality of their farms without the summer-fallow
Jerhaps they cannot do so with the crops they are growing. The fact is they are not doing it and if they choose to use the summer-fallow as their nedium of improvement, all well and good. With the tention, we have yet to rely on the summer-fallow For instance, the perennial sow thistle, that is making such alarming spread, and defying all or
dinary means of eradication. hinary means of eradication. In Bulletin 168
recently issued by the Ontario Department of Acriculture, a most excellent treatise on this pest,
we notice, after suggesting various methods of eradication, the author finally says " "If these od exdremely, efficacious with all sorts of weeds including the perennial sow thistle. At the pres
ent time, in Ontario, many farmers are resorting to this methol, considering it, on the whole. the troublesome sapplies to a great many of our most
weeds, that are slowly but surely gaining ground. A summer-fallow, properly man-
Aged, will, in one season if the season be not eoo
unfacoralle-kill the worst of them. I do not wish to give the impression that I think the sum farming. We do not make a practice of summer
fallowing on our farm, because wo can kep weeds in check and constantly builde up fertility in our large area of hoed crops (Man farmers, how summer fallow: and. to the farmer who has particularly dirty or out of condition phere
land. if you have satisfied yourself that
cannot conn it with a crop he all means summer fallow it at once and so stamp out the source contamination to the balance of the farmo If i"
hatd a pioce of landl pain the upper hand of us, "u
would certainls summer fallow it at onces but


Red-letter Days of Mrs. Dairy Cow-II.

The preparation of the cow for parturition in the second, and in all succeeding oeriods, requires
Where the question is the closest co system, serious trouble is rarely encountered. As a small boy, the writer can re member each summer acting as pall-bearer to the funerals of two or more of the best cows. Al were numerous, also. In the past ten years, how were numerous, also. the the the of of careful observers in the veterinary field, with from forty to fifty
cows freshening each year, not one has boen aff cows freshening each year, not one
fected by this hitherto dread malady
Should the cow be due to freshen during the summer months, when pastures are rich and the temperature high, she shouid be confined some
two weeks before her calving date. If ie extra high condition, a dose of a pound and a quarter to two pounds of Epsom salts, with an addition of ginger and molasses, should be administared The use of purgatives should not be made a rule
however, for, with proper management, they are however, for, in extreme cases. The diet of the needed only in extreme cases. mashes and clove hay being freely used. Each afternoon she should
be turned to pasture about an hour before the be turned to pasture about an hour before the
herd is driven in for milking. She will straight way go to find her companions, and in a shor why e will follow them back, and be conflned in her box stall or paddock. Thus she will receive
exercise, and have time to crop a few mouthuls of grass. Exercise and a laxative condition na most suitable tends to leave the cow in the most suitable condition for parturition. warm bran drink. This will tend to move the bowels, and aid the healthy expulsion of the placenta. Bran mashes, a little clover hay, and
$n$ few handfuls of green food, may be given for a few handfuls of green food, may be given for
the first week. Always let it be " a little." for the first week. Always it it in what might be termed a normally abnormal state, and should be treated according ly. The cow will, of course, have a greatly-dis
tended udder. The temptation on the part o tended udder. The temptation on the part of
the attendant to relieve her evident distress is great. For at least forty-eight hours, however,
the milk should not all be removed. The calf: after a little wobbly prospecting, will begin to account for some of it, and only when it is
deemed absolutely necessary should sufficient mill be drawn to give relief. In such cases, do so a little at a time, and often. Each son him and, in valuable cows, or those whose conditio would predispose mammary complications, it is best that the owner personally supervise this de
tail. Without entering into a discussion causes suffice to say that seventy-five per cent. of milk-tever cases are due to this at-first-sight hupreclusion of digestive complaints and such troubles as caked udder or garget, will be largely
theverned by the feedl of the next two weeks. Gradually the cow's system reaches its every-day aloug the lines mentioned. The precipitate and heary feeding of a rich ration, meal or grass to
a fresh-calved cow will invariably cause compliAnother point which, for sequential effect, might better have been discussed before the milkers, difficulty is met with in drying them off weeks of a holiday, The owner, usually through
carelessness, allows the cows to continue milking until, sooner or later, she goes dry of her own
acord. It may even chance that she is still milking when she commences to "" spring." Durmhe her next lactation period, the owner wonders
that her production is much smaller, that her milkiner period is much shorter, and that she be 1 is often true that heavy producers tend to Ahould not be the discrepancy that often exists. The wear and tear upon a cow's system necessary milk is wry consideratle, and, unless man ets orders to " just turn round and take a rest " of milk fow, the con \& feeding must be such as moe the function is temporarily meyond the inn. increased, pither. in summer. by her food must lisht or supplementel balancel mominger, and in in winter by a
attention which she receives. Too many owners attent their cattle purely as a bunch of cows, instead of a collection has her scale of differing successful dary colv, characteristics, capabilities, and even
traits, traits, che just as surely as has her owner. To cater
whims, jus whin, these to best advantage, the dairyman must nell. From the early portion it was to deal with the feeding of a dairy herd. Instead, in the life of the cow with some of the crises in the hee management
with the "go-slow " places in her men with the ounce of prevention is fully up to it whererbial standard of value.
provileton Co., Ont.
CEO. B. ROTHWELL.

## Constructing Model Stable.

## Editor "The Farmer's Advocate

Kindly suggest through "' The Farmer's Advocate" a plan ${ }^{\text {about ten dairy cows, bull and calf pen, embody }}$ about the best ideas for securing light, ventilation and economy of labor; in short, a model barn at a moderate cost, adapted bedding to be cut, small dry and green two siloes (only one to be built at
root-house, two present); feed and cutting room. Barn to have manure shed, and passage between stable, in which I could have milk-room, for the stable,
floor is about three feet above ground. Land floor
slopes slightly to north-west. Kitchen-garden on north side. Want accommodation for pigs io
ntilize separated milk. Would like to keep in utilize separture enlargement of barn. Am using
view the futur view the future eniargemetric motor. No grain crop grown; manure spread daily, I want a place to store sawdust for summer
for implements ; 20 -acre village farm

Ans.-A building such as required by the above correspendent would, I think, be spoiled were it
built so as to permit of extension as the herd built so as to permit of extensione, that it be grew. I would suggest, ermordate almost as many cattle as your corrspondent thinks he will eventually be able to handle, and the spare room, if noom than is really necessary. When herd increases, things would be a little more crowded, but still quite sanitary a upper story submitted plans for ba quite self-explanatory, but a few additional remarks would probably serve to make matters somewhat clearer.
To begin with, I would suggest that the walls be built of four ply of lumber, with air-space, and
three or four papers, or else stone, brick or cethent, and sheathed with wood inside. The ceiling should be perfectly free from beams or ob-
structions ; that is, the joists should be ceiled structions; that is, the joists son top, and, in
underneath, as well as planked on addition, 1 would suggest that a couple of papers be used in the ceiling. This will help prevent precipitation of moisture or sweating
weather. weather. windows on the south and west side
Thould be as wide, as high and as numerous as
as the requirements of strength will permit. This is amply wide, and possibly four feet would do for some of the passages, but, for all the difference it would make in the cost The inlets for fresh air should be located as indicated in the plan, and I think the size give is about right-that is, three feet long and six inches wide inside, and two feet long and
inches wide outside. The foul-air outlet may be constructed with a door in the side next the pas saga or driveway above the ceiling, so that lon hay may be dropped through to feed tlaced in this key, controned rould abe the feet above the said door, in the side thereof
"C C" are traps or chutes opening into the driveway above straw.
The upstairs plan requires very little explanation. I would suggest a power shaft about is inch diameter, running along above the of the
order to transmit power from one end of the order to transmit power The motor being an elec-
building to the other. tric one, would naturally be easily moved, which so permit of filling the silo from this floor, which would greatly save in power required to drive the
cut-box or blower. Windows could be put in this story to suit appearance and requirements. The door at the end of the feed passage of the
lower gtory is intended for convenience in feeding Sower story is intended for convenience in feeding gren feed in summer, hesirable or convenient, then green food could be let down hy the hay green be brought in through the feed-room by
de the approach. he intakes for fresh air which pass under and

ished-fioor surface. The intakes on the opposite sides should, if possible, pass under the wall a fell inches below the floor surface, and shoul om

$$
\begin{aligned}
& \text { Food Inspector J. J. Costigan, of Montreal, } \\
& \text { took action against ieo. Dumais for manufactur- } \\
& \text { ing oleomargarine. The defendant pleaded } \\
& \text { guilt, and was fined } \$ 400 \text { Inder Ingredients used in } \\
& \text { his factory, incluting several barrels of oil, a } \\
& \text { quantity of beef-fat, lard, colorings. etc. were } \\
& \text { ordered to be destroyed. }
\end{aligned}
$$



Second-floor Plan


```
Pulley 4, for driving. silo.}\mathrm{ Neal chutes above bins in feed
G.-Grinder. 
M-Motor in winter.
M,
```

Daipy Situation, Eastern Ontario the Eastern Ontario Dairy. A. Ruddick, befo

There is another question, somewhat related to he cool-curing of cheese, on which I have received some inquiries during the past year, and which may be of some ine erect central warehouses at points in Eastern Ontario, where the cheese could pe collected for the purpose of inspection and
sale. It has not been made at all clear whether sale. It has not been made at all clear whether
such proposed warehouses are intended to be coolsuch proposed warehouses are intended warehouses. cheese-curing rooms proposers have not been very
Most probably, the pron
clear on the point themselves. The distinction is clear on the point themselves. The distinction is
a necessary one, however, because the two things a necessary one, ho
are entirely differen
One thing is certain, and it is this: The benefits of cool-curing cannot be secured with a cen-
tral warehouse unless the cheese are delivered tral warehouse unless the cheese are delivercd
there every day, and that means extra expense, as there every day, and that means extra expense, as
against the usual plan of delivering to the shipagainst the osua a week, or when a sale is made.
ping point once
Another point to note is that the Government Another point to note is that the dovernse the
cold-storage subsidy cannot be secured unless warehouse is equipped with mechanical relrigera
tion, and it would be very poor business policy tion, and it would heese storehouse, in a locality where ice is a vailable, and when t
central Curing-room idea There may be certain localities where the central curing-room idea, or a warehouse through
which the cheese could pass for inspection and sale, would work out to advantage; but, on the a very practical one.
It is a very convenient way to sell the cheese.
We found it so when the Government cool-curing We found it so when the Government cool-curing
rooms were in operation, but the advantages are rooms were in operation, the additional cost which is thus innot worth the additional cost which is thus inwhich must come out of the milk producer, and which will be
ly supposed.
all want the top pirice.

$$
\begin{aligned}
& \text { ALL WANT THE TOP PRICE. } \\
& \text { It has been said that the cheese would be sold }
\end{aligned}
$$ on their merits under such a plan, and that ther will be proper discrimination in price, according

to quality. it is a very regrettable feature of to quality. It is a very regretable fature the producer of a superior article does not
ways receive the premium which he should. ways receive the premium which he should. It
is generally admitted that nothing would st quickly bring about improvement in the quality
of cheese as to have them sold strictly on thei merits, but I fail to see why it should be as sumed that the metium of local wareliouses. Th same forces which now impel the buyer to pay uniform price, and which influence the salesman
to demand it, would be at work under those con to demand it, would be at work under those con
ditions, just as they are under any other. It serms to have escaped the attention of som people that the principal reason why cheese ar
bought without proper discrimination in quality is because the salesmen demand a uniform pricd
If John Joncs sells his cheese for 12 cents, al the other factories in the neighborhood insist on
getting 12 cents also, regardless of quality. Fver getting 12 cents also, regarcless of quans at
person knows that that is what happens at warchouse if the chese were lacing sold under the
trier, because just as soon as a salesman found that he was not being paid the ruling price for
his chese. he would withdraw, and onfer thom through some other channel: so the buyer do
business alony the line of least resistunce. OFFICIAL GRADMN: AND, SDIE BY AlCTION
I have for some years thought that the best plan for sellme Fastern Cutario and Queb
cheese would be to have a central receiving war house at Montreal, where the cheese could li.
officially graded, and then sold by auction, with out any recourse. That is to say, the price bi
at the auction would be final. The ottrial grad ing would relieve the buser of the onus of dis crimination, which appears to be the chief difli extra handling or expense, because the cheest
would be going through the most direct channel Would be koing through the most direct channel
But there are many obistacles of a commercial nature in the was of , iving effect tor such a plat and the disinclination on the part of the ary
anee salesman to acopt a werdict which puts i

## oat chop. When this is eaten. I open the hopper, which I made, so they can cat what they want.

 which I made, so they can ceat what they want.This is filled with wheat, oilcake meal and chop. This is filled with wheat, oil-cake meal and chop.
At night they get a Food feed of corn. There is
alco grit ovster-shell, water and milk before them also grit, oyster-shell, water and milk before them
all the time. They have a box of ashes to dust themselves in, and I hang up roots for the hens
to jump after. They have a yard $26 \times 30$ to run n. I I have about 6o hens and two cockerels in the pen. Hoping I will see my first letter to
"The Farmer's Advocate "in print.

Distinguishing the Layers-Feed for Laying Hens
We have taken your paper for sevaral years halinfur in helpful in a great many ways to us farmers.
your issue of February 11th, A. B. Smith said that he killed off all the drones in his flock of hens.

1. Yow, I would like you to tell us, through
the columns of " The Farmer's Advocate, how we are to tell a hen that does not do her dut

What kind of hens are the best layers?
What is the best kind of feed in winter for laying hens ?

Ans. -1 and 2. The use of trap-nest and keeping of which merely board on their owner. Trapnests, of course, entail close attention. Observation is a simpler and easier, though nots. A hen a means of
which is seldom or never seen on the nest, which has a pale comb and generally dumpy appearance, which sits perched most of the time on the roost or squatting around-basket. Layers have brightred combs, bright eyes, an alert, active appearance, and are always on the lookout for scraps, bone, grit, oyster-she and theories for distinguishare many nostrums their shape or otherwise, but these fail about as often as they come true. Possibly birds of oblong shape are more likely to lay
of course, well capable poultryman will make a practice of killing off his hens two years and over, except, perhaps, those that are extra-good lasers. 3 and 4. Grain of and corn sparingly, especially towards spring. Give meat in some form, and green-cut or pounded bone, oyster-shell and grit. A A wasmry. It is, however, a good means of using up scraps and
odds-and-ends. Do not forget vegetable food. odds-and-ends.
Clover or alfalfa leaves are excellent. Steamed
lawn clippings. angels and other vegetables ar clippings.
arcentable.

British Egg and Poultry Trade.
port. J. B. Jackson, Commissioner at Leeds,
Eng., savs that the wholesale value of eggs and poultry consumed in the United Kingdom last product was imported. Continuing, the report reads: ". Though the linglish demand for poultry
and eggs has grown rapidly, it is, apparently, being met more and more by home produce, as
the number of eggs imported last year was nearly $200,000,000$ less than in 1903 , when the import reached its maximum. The tota last year was Russia, and a quarter from Denmark. The aver-
Rog age import value of Russian the best average from
$120 ;$ of Danish, 9 s. $3 \mathrm{~d} .$,
any country except those irom Canada, which were an. 10d. per. 120 . The supply from Canada is
gradually diminishing, only one imported egg in graduaw coming from the Dominion. Taken all
300 now
round, imported eggs have grown steadily in value, from an are to 1903 , 10 d . in 1908 . Part of the
dred, in 190 ,
incrense is due to enhanced demand, but no small share of it has heen brought about by the better I nited Kinydom. The annual chlue of imported poultry has steadily increased, and now approacles fi, ono,-
ino. Russia contributed last year over onethird of the total. and. with the exception of $£ 35.00 \mathrm{~m}$
irmon other countrics, all the remainder came from France. Belcium and the Tnited States. Former
$\qquad$
$\qquad$
$\qquad$

A Farm Girl's Poultry Flock.
$\qquad$
sults are not nearly so good as those of the wo-
e taken charge of our hens for two yeurs come
houses, in which there is not enough of scratch-
ng room, and both are colid, the drinking water
ireezing quickly in them on cold days. I have
put building paper, in some cases, inside, and
some outside, with boards over it, and have done
what I could to make it more comfortable for
he fowls, but, though it is much better than
I have put the roosts almost on a level in the
larkest corner; put the nests up three feet, so
the hens are not tempted to eat eggs; always
loo which is directly in front of south window
and is divided from other part of house by a
one-foot board across the floor from side to side
This keeps the straw from getting scattered
drinking water and dust bath, which are on op-
posite sides of the board. The houses are kept
clean, often being sprayed with kerosene emul
winter, and droppings removed every two weeks.
winter, and droppings removed every two weeks.
They are fed $a$ mixture of barley, oats and buck-
They are fed a
wheat (warmed on very cold days) night and
morning, and a hot mash of small potatoes,
bolled, mashed, and mixed . They also ge
shell, and sometimes onions.
cull apples or mangels twice a week, and grit at
cull apples or mangels wice a week, and grit at
all times. They never get meat, except scraps
from the house and always plenty of fresh water.
from the house, and always plenty of fresh water,
warmed in winter. The broody hens I shut up
warmed in winter. The brody hens shat ap
in a large, portabs coaming about seems to give
seeing the others roaming about seet, and three
them something else to think about,
dass are usually sufficient to break them of the
The method of feeding given is only for winter,
the summer ration being only grain, in smaller
quantities, morning and night, with free range
wherever they care to go. I hatch with both
hens and incubator, but prefer the hens, as with
hens and incubator, but prefer the hens, as with
them the chicks need less care. Hens are never
allowed to hatch in henhouse, usual large enough
in boxes or coops-in fact, anything large enough

- in a good location, but aim to have the nest so
placed that the hen can walk on, instead of flying
ap and then drop down upon the eggs. Heavy
hens are liable to break eggs in such cases. I
use large hens, give them fourteen or sixteen eggs,
try to get three or four to set at same time, and
try to get three or four to set at same thime, and
hens at night, darken the nest, and let them off
to feed every evening, after the others go to
roost. I find this a good plan, as they soon
learn to go to their nests, and do not stay of
s long as if fed in the morning with the flock,
nd there is no fighting, either. "Cluckers" are
ranky, and will fight if with the others. My
hens are very quiet, will sit almost any place
and do not pick me when I handle them. fed un
and do not pick me when I handle them. fed un-
When the chickens arrive, they are not fed
til the second day, when they are given oatmeal
moistened with water, stale bread, scraps from
the house, ctc., until they can eal small wheat or
buckwheat. As they grow, they feed with the
floct, and, to fatten, are given a feed of peas
night and morning, apart from the old ones.
try to get the old ones in one house and young
ones in the other, und coax them in by feeding
inside. 1 put roosts low down-flat ones, usually
than hudding in bunches, as they will do if not
given roosts.
I keep an account of all eggs and poultry sold,
and you will notice the small egg yield during the
and vou will notice the small egg tive fact that
the hens had what I called (for want of a better
name) green diarrhea in the fall, and, though
only' eight died, those that recovered have been
very slow
very slow in starting to lay. In treating for
this disease, I used sulph. carbolate of zinc, as
this disease, I. used sulph. carbolate of zinc, as
directed by Mr. Graham, O. A. C., one generous
teaspoonful in one gallon water, or one table-
spoonful hyposulphite of soda to the same
amount of water, and sprayed inside of houses
This
and coops with a solution of Zenoleum. This
checked the trouble, but I had much rather it had
checked the trouble, but has it spoiled their use-
fuiness for a long time. chickens in one season,
। have raised 20 N$)$
I hawe raised 2 nof chickens in one season,
which is pretty good on un ordinary farm, where
poultry-raising is not a specialty, but was un-
poultry-raising is not a specialty, but was un-
able to cmare the time last season, so only raised
about on Of these, less than 20 were pullets,
and 1 sold the off-colored ones, so am starting
Hunf orpingtons. $\begin{aligned} & \text { Isclow is } \\ & \text { His kiven the number of } \\ & \text { dozen sold each month, with amounts received for }\end{aligned}$
dozen sold each month, with amounts received for
them : Januars. 26 dozen. $\$ 11.95$; February
52 dozen. $\$ 18.57$. March
52 dozen. $\$ 18.57:$ March. 454, dozen, $\$ 12.50$



Farm Lad's Poultry Experience Editor "The Farmer's Advocat
Seeing many letters on poultry-raising in your valuable paper, of which I am a subscriber,
thought I would give my experience, which might hought I would give my experience, which might
he of benefit to some. My henhouse is $17 \times 17$ be of benefit to some. My herhouse is to which
feet, built in one corner of a large shed, to the hens have free access to scratch, and where they get plenty of exercise.

The wall is maca of cement, and the front par Every morning we cover this place with about Ewo inches of cut straw or chaff, and a board is put on its edge, so that t.
straw in under the roosts.
straw in under
In the morning we scatter ebout three parts of a pail of barley and wheat, mixed in the litter,
and let them scratch till noon; then we give and let them scratch till noon; then we give
them a ieed of dry meal in a long trough, covered them a ieed of dry meal in a long trough, covered
over with slats up to the front, so that the hens over with slats up to the front, so that
cannot crowd one another out so easily. We find the dry-feed method murh better than mash, as
the birds are not so apt to be troubled with the birds are not so apt io be trousted
bowel complaints, but we have always plenty of bowel complaints, but werer them, with the chill
clean, fresh water beforen taken off. Then, in the evening, we give them some
more grain, buckwheat and oats. Oats are good more grain, buckwheat and ars. hulls are not di-
to make hens lay, only the large gested very easily. In a box, in a corner, we kee gravel, wh
casionall!
Hens must have green food in the winter, beets or turnips, and hang them on nails on the wall, so that the hens have to jump for them
I find the busy hen is the paying hen-the one I find the busy hen is the paying hen-the one
that lifts the mortgage.
I have tried a few dinerent breads of fowls, and find the White Wyan dotte the best all-purpose hen, they being bette
layers than other large broeds, while the fowts


## GARDEN 詥 ORCHARD

Profits from Garden Crops. Actual profits from the gardien plot on the
average farm are difficult to compute in detail. Nothing, however, is so eftective as a stimulus to
any line of work as deinite statements regarding expenditure and returns. Realizing this point and the importance of garden crops to the farmwishes to publish letters showing the actual approximate returns from the small area devoted
 tails that should be mentioned are the size of
the garden, the nature of the soil, the crops rrown, and the names of varieties, with comparisons, where possible. Satisfactory contributions will be paid for at regular rates. Prompt resper
that every farmer in the rovine may be roused to the benefits derived from gardening in time to
undertake the work this spring. undertake the work this spring.
To those who have not kept
To those who have not kept memoranda of ex
penditure" for seeds, insect poisons, tools and such requisites, as well as the market value of
products used and sold, we would urge the ad visability of doing so this season. It is an eassy
matter to enter up the vegetables or fruits usied mater and and the end of each month to com.
pate the value, according to prices quoted in pappers
rescult

Practical and Comprehensive Treatise.

## Fruits for the Farm Garden

## hree rows of strawberries 150 feet long he than supply a family. 1 lant in spring

rows 42 inches apart, and 18 inches in the row Have at least wo rows or raspberries the sume the plants three feet apart in the row. The same of blackberries, planted the same distance apart and, if currants and gooseberries are destree they should be rour clean, and then mulch them heavily. To the iruit list might be aadded a few vine the best early-ripening grapes.
The culture of the small iruit patch is simple, as if the soil is rich and clean to start with, it
will be easily managed. The strawberries will need to be renewed at least evers two years, and it is better to put them on fresh ground than to
plant on the same soil again. The raspberries and blackberries will give good results for ten cears, if properly managed. The old canes must aring, and the young canes thinned out, leaving about eight of the best and strongest to each hill. It is best, with a young plantation, to Minch of the top of the young canes when grow touter and throw out laterals giving a greater area of bearing wood for the next year. A dressing of hardwood ashes applied in the adds wonderfully to the quality, quantity and flacor of the fruit. Probably the principal insect pest to be dealt with will be the currant
worm on red and white currants. worm on red and white currants
hellebore will put them out of business quickly. varieties.
In strawberries, Haverland, Williums and Sen: ator Dunlop would be a good selection. In rasplate. Tn sections wheare Ciythbert winter-kills Herbert should be substituted. The best black ap for the home garden is the older. fill the bill for most localities where blackberries can be grown, and both are of fine quality. cessfully is not by any means a formidable proposition. It simply means the selection of a
small strip of suitable ground, a little extra worlj small strip of suitable ground, a Intule extra work seeds and plants, and frequent use of the scuffer, making the hand labor very light. And there is no spot on the farm of equal a
such large returns for the labor such large returns for the labor expended in thd
way of wholesome food for both young and old or adds so many real luxuries to the daily bill-of

## Growing Seed at Home

## Yorker, considers that users of garden seeds lose

 millions of dollars annually because of seed "1 have grown some of my own seed. I I do not not buy the kind of seed I want." Considerable success attended
"are large, a perfect globe, with a very small neck, smaller even than a lead-pencil, of a beautiin a crate similar to those that are sold for five cents a pound in grocery stores under the name
of 'Spanish,' no man could have told the difference between mine and the spanish.' I could orions sold for, and with the money so received might now buy $1 \frac{1}{2}$ pounds of Prizetaker seed for avery pound all the labor and expense see that am out all the labor and expense of growing,
harvesting and cleaning the seed, besides. The commercial grower, of course, may be able to grow his seed cheaper, hut he cannot grow th
kind of seed that I have for the amount of mone kind of seed that I have for the amount of mone Turnips grown from home-grown seed wer sold at 50 cents per half-hushel basket, when com
mon stock went begking for a buyer at 25 cents In In producing this soed,., he continued al s. ected a top and taproot as possible. The white wanted as waxy white as possible. and th thued. I certainly have a thorouchlowed turniptrat don't anybods ask me for seed S Thave nom
to sill thr shall o ever be in the semel husinuss

Injuring the Apple Trade. Disensed apples, wrong varieties und slack
packing are reported in connection with Canadian apples shipped to South Africa. A letter from John A. Chesley, Trade Commissioner at Cape
Town, dated December 29th, and appearing in
the lebruary 22nd issue of Trade and the lebruary 22 nd issue of Trade and Commerce Report, contains he civerille, from Montreal, arrived at Cape 'Town on December 4th, with a cargo comprising 755 barrels and 326 half-barrels of apples, onsigned to Cape Town merchants. These, when
discharged, underwent the usual inspection made by the Covernment fruit Inspector, under the diDection of the Entomologist of the Agricultural litlle over 8 per cent. of the 1,101 packages eased, sone being infected by "scab" or "fusicladiun,"" and others showing traces of "or codling," They were, therefore, excluded from the South
African market, causing loss and disappointment to the importers, and doing considerable damage It is alleged, and strongly maintained, by the Agricultural Department of the Cape Colony Govgrowing district of the colony), and the fruit send apples to the Cape Town market Africa that ly free from the discuse known as "scab " or
$\because$ fusicladium." Therefore, the officials of the department having charge of this branch of servforcing the regulations, authorized by the statnte against the introduction of this or the statate other fungous diseases into their fruit-growing districts.
It will, therefore, be absolutely necessary, in order to successfully market Canadian apples in South Airica, especially in Cape Colony, to ex-
port only sound, clean fruit, as the entomologist will insist on absolute cleanliness and freedom from all kinds of fungous diseases found in the
apples offered for sale in this market in the future Cape Town consignees complain that several of the packages of Canadian apples consigned to
Cape Town importers in the steamship Melville on her last. voyage were not the variety ordered with the many of the barrels being only faced padly-colored fruit being towards the middle The also complain of the substitution of poorordered. They further state that spies and
Wolfe River have been sent in Spy in another case in place of Russet.
Importers also affirm that several of the pack ages of apples discharged were slackly packed, so
nuch so as to have necessitated filling up and re packing before offering them for sale. This condition incurs unnecessary expense, causes con siderable inconvenience to importers, and should he discontinued, as it is very detrimental to the
successful continuance of the Canadian apple trade successitul continuance of the Canadian apple trade
in South Africa. Carelessness in parking should

How My Father Grew His Own Turnip Seed.
When I was a boy, 45 years ago, my sather Continued up to the time of my leaving the farm. This is how we were taught to select the roots My father gave us what he "onsidered a true type smooth turnip, with small, shori nerk and sm. Il taproot; not too much top; nicely colored. Thes,
were pulled up carefully, the dirt shaken off the oots, and the leaves cut of, leaviny about four
inches. These turnips were taken in with the others to the barn, and laid aside in the roothouse, or taken to the house and put in the
matato cellar. In the spring, my father would ake a good hig wheelbarrow of these to the among the wheat. The seed will ripen about the time the wheat is ready to cut, or a little before. Keep an cye on them, and don't let them get too ripe or you wiil lose your seed. Growing among the wheat seemed to suit them, and, be-
sitles. the wild canaries were pretty thick, and,
hince amony the whent ther did not see the turheing among the wheat, they did not see the tur-
nips so readily. nips so readily. When ready to cut, go out to
thi. tield with an old sheet or blanket, cut off the foms. and tie up hy the four corners, of the sheet, Dut awa, carciully labelling with date cut and War droum ith. I have scen some seasons that
Onefifth of the turnips in the field had not top "nough of the turnips in the field had not top
cond.
nati
$\qquad$ and ivastuch firmer. Guchion of parasites, huyes are humbures numed other

МАНСН 4, 1909

## Manure in the Orchard.

very important requisite in the orchard is barnyard manure. Some rely the necessary hu down of cover crops the supply of plant food, but frequent applications of manure are advisable. It can be applied at alnost any time of the year to advantage. If put on during winter, or early spring, it is turned cultivation up to the time plowed, and crop is sown incorporates the applicacomposition
composition. Enrichment must go hand in hand with cultivation, if best returns are to be expected. The
annual falling of the leaves and the plowing down annual falling of the leaves and the plownot be de of cover upon to recoup the soil for what is taken in producing a crop of fruit and in adding to the
size of the trees. size of the trees.
The value of wood ashes in an orchard is over
. Potash is required in The on many farms. Potash is required in
looked on
liberal supply, and this is a cheap way of supplying the necessary. It is not sur the trunks to dump the ashes ill fertilizers, best results ca be obtained only by an even application all over the ground, The ashes will not take the place with the soil. of manure, nor should manure be applied as a of manure, nor should manure be beth be employed. On light lands, especially, potash in some form should be applied in addition to what is con tained in the manure. if ashes are notash salts, such as sulable, the commuriate, may be substituted. In the Annapolis Valley of Nova Scotia, famous for its apple production,
purchased and use

Opportunity in Onion Trade.
opo Bry Eni W MacKinno says that a scarcity of English and Spanish onions prices for that garden product. Spanish brought $\$ 2.92$ to $\$ 3.16$ per case of 126 , and English Globe The prospects are for still higher prices, and Mr. Trackinnonocts suggests that Canadian firms would find this an opportune moment
trade for Canadian onions. He says that a local trade
importer recommends prospective shippers to send
only well-graded onions of the Silver Skin variety, not brown, and that the most satisfactory pack is in bags of about one hundredweight.

It Pays to Cultivate.
Editor "The Farmer's Advocate" :
Potato-growing is a profitable feature of my Potato-growing is a profitable feature of my
farming operations. Last season I planted Delawares on May 18th, and began harvesting on July 22nd. They were very fine potatoes, good qual-
ity, and very few small ones. The setts were ity, and very few small ones. The setts were
very large. I cut them in three and some in four pieres, and planted them in drills 30 inches apart and 14 ins. in the drills. They came up very strong and grew rapidly. I kept the cultivator going
every week until they got too strong to get up every week until they got too strong to get up
the drills. This kept the soil loose, and retained the moisture, although we had such a dry season. I only ridged them enough to cover the
young potatoes. I planted another patch, adyoung potatoes. I planted another patch, ad-
joining, about a week later, with medium-sized
tubers, not joining, about a week later, with medium-sized
tubers, not cut. but they did not produce such an even rop as the large, cut ones did. W. Peirry.
Yorh Co. Ont.


CHE FARM BULLETIN so that, in order to " keep going," they must
constantly receive from the countryside fresh sup-
plies of brain and muscle. plies of brain and muscle.
Would it not, then, be better to discourage, as Would it not, then, be better to
far as possible, this undue growth, which, to a
and certain extent, is inevitable, and to the utmos
foster rural industries, in order that wealth may be created more rapidly? Our only source oo first be taken out of the ground or the water And, while it is necessary to manufacture and re fine it, yet, when the manufacturers and traders as a class, are able to reap larger profits eur ener-
the producer, it is surely time to bend our the producer, it is surely ime of conditions in the
gies toward the improvement gies toward and to let the city talse care of itself As it is, the country is trailing in the wake o the city, and, while the yeoman has progressed considerably in intellect, refnement, the Fanglish barons, he is still known as a "hayseed" and " clodhopper -and not without good reasoner to protect or diWould it not, then, be saner to protect or di-
rectly assist the producer, that he may not only rectly assist the producer, that he may not only
be enabled to produce more wealth from the soil, but that he may also have more time for social and intellectual improvement ? He should be given mail delivery and ruram in the city had to
expense, even though the man expense, even his delivery. He should be given better roads, and better facilities for education.
Then might we hope to see the tide recede, and Then might we hope to see the tide recede, As it is,
the return to the land begin in earnest. As the city dweller gets all the good things, even to the best boxes in the post office, or natural advanin the church, because he if there is a victim to be scalped by the sharp business man, it is the farmer, because, being in daily contact with Na-
ture , who though often a hard taskmistress, is ture, who, though often a hard taskmistress, is
yet just and beneficial in her dealings, he acquires faith and trust, and is slow to believe that his fellow man can be aught else.
Much of this roguery could be prevented if farmers had the meales, etc. The farmer is handicapped, and his profits are small, as comparod
with his equal in intellect in the city. Therein, with his equal in intellect in the city. Therein, of the countryside. Give the farmer un equal chance, and he will soon make the farm the envy
of all investors. I do not believe that the city of all investors. I do not believe that the city
could still take the lead in preferment, because the love of nature is strong in the human family, and people would prefer living in the country if they could obtain "anywhere near" the con-
venience and social advantages which the city afvenience and social advantages which the city ailightened in both city and country are heginning to see that many of the so-called advantages obtainable only by a dense population are realy curses in disguise, and dear at any price. The dictates of frice ion bave produced a round of social duties which, instead of a pleasure, have become a task, from which they would willingly escape a country if there they courd but and well-ventilated houses, variety in food, and, yes, the bathtub The farmer, on his part, if his profits warranted t, would spend some of the winter months "cowey city, getting rid of the charact having his ideas sharpened and broad ened by contact with his fellow men. In conclusion, let me impress the spite of the views of a few feminine correspond ents who, tainted with the spirit of Provincial egotism, and porss so characteristic of the sex, conceived opinions so characteristic of life though their lot was cast in Hades-where bathtubs are unknown. But, in the hope that some of as aforesaid conservatism may be is mainly educathe policy ill crave enough space to inform my friends in the East that, in one case at least, their preconceived idea is correct. seen the bare, poor hills of the former, and the small farms and primitive methods of the later; and I have heard of Nova Sto of Maine as the of blue noses, abode of the Yankee, with his long legs, lantern jaws, and nasal twang; but if they will come to the birthplace of the writer they will find themselves in the recognized Counties of Oxford, Mid dlesex and Huron, and, although a bachelor farm er (they are common here because the girls won'
live on farms). I can supply them with a bath live on farms, circular in form, of eight-barrel capacity, tub, circular in a real painter with real, natural paint, and available at any time-when BurNS don't want a drink

## Forthcoming Events.

Exhibition-July 10th to

## Temiskaming Once More

This district, at' present, is enjoying beautifu: winter weather, with snow on the average or two feet in depth. This makes business hum in the
woods. Some are drawing logs to the mills or woods. Some are drawing logs to the mills or
rivers; others are getting out pulpwood, while still others are getting out rail way ties and cedar for shingles. This is how the average settler here makes
summer and clear more land.
This district, in the near future, will become a first-class dairy and agriculturai country. Crasses and clovers of all kinds fourish, peas, , watea, barley and oats grow
roots and vegetables also yield abundantly. Be ing over one hundred miles further south than Winnipeg, and having an excellent clay-1oam soin nothing will prevent progress. As a wheat-growing center, it shoul entern Provinces.
toba or the other West
The settlers are somewhat engaged, after their day's work is done in the woods, discussing the Mimprovements, seems to belong to the dark ages, as it reully discourages improvements. 1 would like to ask farmers in ontario ir they have not
noticed how this act works contrary to progresnoticed how this act works contrary to progres
sion and thrift in farming.
Look at the farmer sion and thriit in iarming. Loork at the farmer
who underdrains his felds and fixes up his fences, gates, barns and residenc--just what would make the taxes the following year, probably more than the improvements have cost, , is an injustice. This act should be amended. There should be a tax on land values only, to encou
possible greater improvemeuts.
possible gricead in your valuable paper a discussion on the tarify. Some are writing up the free trade
policy ars being in the best interests policy as being in the best interests of Canada,
while others declare protection to be the only while others declare protection opion differs from either of those opolicies. Protection, on the one
hand, assists the trusts and combinations of Canhand, assists the trusts and combinations of Can-
dda to fatten and grow wealthy at the expense of the consumers; whereas, tree trade would not be proper, especially letting in goods free from ay country which puts a heavy duty upon the
products of Canada. ${ }^{\text {This freetrade policy would }}$ products of Canada.
inevitably cause the taxpayers of Canadd to pay a direct tax to the Parliament to develop the country. What should be adopted in
Conada a a tarif for revenue only, This policy Canada is a tarifl for revenue only. This policy
anfords sufficient protection for any honest manufacturer, whereas it would also be the means of collecting revenue sufficient for all the development which may be required in Canada.
A temiskaming farmer.

Re Farmers' Interest in Home Manufactures.
Editor "The Farmer's Advocate":
There is a letter in your issue of Felruary 4th,
in which the writer says, in reading the lettere "Who is the Tyrant $\gamma$ " and "A Kick from Cow ". one whe is not particularly biased may be
led to think issues are not fairly set forth. Does he mean by this, one who has not looked into the matter the so. think the sooner he ooks into
the matter, the better for himself and all con cerned, for I think that nearly every intelligent farnier who has studied this matter fairly has come to the conclusion that, as Cunada's pros-
perity depens largely on the pronucts of our farms, we -the farmers-should not be compelled
to keep up the manufacturers by high tarifss and bourties. I amm aware that it is necessary to
raise a revenue sumbicent to carry on the busines raise a revenue sufficient to carry on the business
of the country, and can see no hetter way than to have frir revenue tax of say 20 per cent
tovied on all imported goots. This woald giv lon
levied on anl imported goods. This wold gi
our manufacturers quite an advantage, so th our manufacturers quite an advantage, so that
they could compecte with implortect goods.
 also. "That it seems necessars? to fiutht tarifs with Thise. think. is admiting that free-trade it
richt in principle. Now. (Great lititain has

 surwine inishel hrontuct in an onen market, nnd

Mr. Newton also says some of the talk about
nemen being fed on pap, the wornt turning the rich men being fed on pap, the live in a free
on the enemy, the man who cannot trade country is not worthy the name of aran, makes him feel like using the sporty because he
. Play the game!" Is this simply has no sound arguments to put forth against those which have been stated? . MILIFR. Parry Sound, (Int


A Futile Expedient

## To Our Club-raisers.

There are thousands of farmers who do not know what they are losing every year through not being subscribers to "The Farmer's Advo cate and Home Magazine." Therefore, we wan all readers of "The Farmer's Advocate "to acl as club-raisers this year, and send us large lists of MEW SUBSCRIBERS.

If you send us two new names and $\$ 3.00$ to cover same (each new subscriber paying $\$ 1.50$ ), we will mark date on your paper forward one year as remuneration to you; or, for each single NEW NAME, accompanied by $\$ 1.50$, wo will advance the date of your address label six months. Cash commissions or premiums, as preferred, for larger lists of new names.

In clubs of FOUR RENEWALS OR OVER, wo will accept $\$ 1.25$ each.

Premiums not included in club offers.
Start raising your club immediately. Gel
"The Farmer's Advocate and Home Magazine" into every household in your locality


Calamity Jane 3rd.
Representative of the Holstein cows in dispersion sale of the herd ${ }^{\text {a }}$.
Gen

Wheat Terminals for Vancouver
Thiormation has been given out at the hex veal, to the effect that terminal a rroangements ary being made for the handling of wheat via van-
couver. It is stuted that 2 , ooc, (nool bushels of

Dairy Leaders in Man
Tariffs and Combines. A deputation representing the Dominion Girange Cartwright, on February 26th, to urge action in dealing with the tarifl, to afford relief to the public against alleged oppression of trade comThe deputation, which included E. C. Drury prices. ter; Jas. McEwing, M. P. P.; H. J. Pettyniere ex-M. P. P.; J. W. Curry, K. C.; W. L. Smith and ting forth the revelations of recent investigations belore the courts, as to combines in Ontario, and
urging that in many lines of articles in general urging that in manduly enhanced through trade combinations and agreements, assisted by a high-
protection tariff. In the aggregate, it stated millions of dollars were annually taken from the public in the form of unfair profits. As an example, the four wall-paper manufacturing estab-
lishments of Canada were by the tariff placed in position to exact at least $\$ 300$, coo a year from consumers more than the price of wall paper in the open markets of the world. In rubber, cot tons, sugar, woodenware, and other lines, a simi ." What is required," " is that the required," the memorial declared, officer, to act under the direction of the Customs Department, whose duty it shall be to make im-
mediate investigation into such circumstances as shall, when brought to the Government's attention, appear suspicious, and that, a report being
taken, the Government shall institute a judicial taken, the Government shall institute a judicial
inquiry at its own expense, and if the evidence inquiry at its own expense, and if the evidence
adduced satisfies the Government of the truth of the same, that the duty on imports which would ompete with combine products shall be reduced ${ }^{\mathrm{r}}$ abolished. Hon. Mr. Fielding held out little enouragement of any action along this line. Under he present law. a remedy was provided by the
criminal Code for all the injustices complained riminal Code for all the injustices complained
of the deputation. Some years ago the Gor of by the deputation. Some years ago the Gov-
ernment had contemplated action along the lines suggested, but practical difficulties presented themselves. and it had been decided to leave prosecu-
tion in the hands of the Frovincial crown authorities. Sir Richard Cartwright advised the Grange Sies. Sir Richard Cartwright advised the Grange
lo persist in a campaign of education among the rin reform

Western Horticultural Society. At the annual convention of the Western Hor-
icultural Society, held in Winnipeg, recently, the ollowing officers were selected for, $1909:$ Presi
lent. John Caldwell, Virden : First Vice-President, John Caldwell, Virden; First Vice-Presi-
dent, Dr. Speechlv, Pilot Mound: Second Vice president, J. J. Ring. ('rystal City; Secretaryreas., Prof. F. W. Brodrick, Winnipee. DirectorsJames: Robert Aitkin, Elmwood. Fhompson, St. Tor Baird, Ceorge Ratho, W. ©. Scott, Winnipeg:

New Dairy Legislation Desired. Firy legislation, one from
$\qquad$ conded consention of the Manitoba Dairymen's Asoon, held in Wimnipeg, recently, instructive and inleresting addrisces were glven by experts. The of-
ficers selected for 1909 are : President, W. B. cers selected for 1909 are: President, W. W. Allatire, St Boniface ; Second Vice President, L.
A. Race: Sec. Treas., Prof. W. J. Carson, IB. S. A.,


MARCH 4, 1909
THE FARMER'S ADVOCATE

## Bank of Toronto

With your Money Safely Deposited in an institution of undoubted responsibility
iike The thank of Toronto soo will be spared
the anxiety and risk inseparable from having the antiecty and risk or
cash where crime or
make away with the

SAVINGS OF YEARS

## THE BANK OF TORONTO

 HEAD OFFICE : TORONTO, ONTARIO.
Interest Pald on Savings Deposits.

MARKETS.
Toronto. At West Toronto, on March 1, receipts
numbered 1,315 cattle, 19 hogs, 219 attle good; trade fair. Export steers icked lots of butchers', $\$ 5$ to $\$ 5.10$ oads of good, $\$ 4.60$ to $\$ 5$; medium anners, $\$ 1.50$ to $\$ 2.50$; milkers a aningers, $\$ 45$ to $\$ 70 ;$ calves, $\$ 4$ to $\$ 1$
Lambs, $\$ 5.50$ \$heep, $\$ 4$ to $\$ 4.25$ Lambs, $\$ 5.50$
$\$ 6.85$ per cwt. Hogs, $\$ 6.75$ fod and
metered, end $\$ 6.60$ at country, fed, $f$. keview of last week's market Receipts of live stock at the City and
Union Stock-yards last week were again Union
Hight.
Recei
Roceipts numbered 230 cars, consisting
3,657 cattle, 3,173 hogs, 887 sheop 12 calves, and 126 horses.
On account of the light deliveries of attle, salesmen and drovers hoped to he Union Yards, and then again at the
city market on Tuesday and Thursday, City market on Tuesday and Thursday,
but they met on each occasion with disbut hey met on each occasion, with dis-
appointment. The outlet was not nearly
as large as was expected, buyers from a large as was expected, buyers from
outside points not being nearly as numerous as was anticipated, and after strenu-
ous efforts, a good share of the receipts
had to sell on a steady basis. A few had to sell on a steady basis. A few
of the choicest lots sold about 10. higher, but practically
the bulk of the
common and medium classes sold at
$\qquad$
$\qquad$
$\qquad$
$\qquad$

stochere were oflered, and prices were un
changrd. as follows: Best feeders, 90
to 1,000 11, . each, at $\$ 3.75$ to $\$ 1.25$
$\qquad$
$\qquad$




 ranged around 24c. to 25c. or so tor best -or a shade more. On Monday ther was a sight advance Buttor--This market has attracted more
attention than any other in troduco inman
 eneod, and prices wero many contan solow
where they
were about the arrat of the

 Solding farge stocks. Looal merchante aro teartul of theos being unloadad upor
inis market.
It
was said that thero were 41,000 packages of creamery and 12,000 dairy held here, which is far too much for local consumption. It seems
that fresh-made butter could bo had at 21 c . to 22 c . per lb ., and perhaps less, while summer was about the same figure,
and fall 23 c. to 25 c. Dairy rolls were quoted at 19 c . to 20 c ., and tubs at 17 c . to 19c.., and, possibly, at even 16c. Some thought that possibly the manuac
ture of margarine-recently exposed and prevented-might have had something to do with the oversupply of butter. On
Monday prices dropped a cent on all grades.
Cheese. Cheese--There was a sharp export do-
mand for colored cheese, but practically mand for colored cheese, but practically
none for white. The former, best Ontarios, sold at 13 flc ., as against 12 g e.
for white. Other grades of white were available as low as 12 t e. Grain.-The market was generally firm Oats were quoted as follows , carload lots, store: Canada Western,
51c.; extra No. 1 feed, 50 c. to 50 jc c.; 1 feed, 49 fc . to 50 c .; Ontarios, No. 2.
 3 corn, 75 c . Flour.-The market advanced again, and
Manitoba frat patent flour was quoted all Manitoba frat patent flour was quoted all the way from $\$ 5.80$ to $\$ 5.90$ per barrol,
seconds being $\$ 5.80$ to $\$ 5.40$, strong secons rang from $\$ 5.10$ to $\$ 5.20$.
bakers
Ontarios also advanced, prices being $\$ 5.40$ Ontarios also advanced, prices being $\$ 5.40$
to $\$ 5.50$ per barrel for patents, and $\$ 5$ to $\$ 5.50$ per barrel for patents, and
to $\$ 5.10$ for straight rollere. Feed.-Bran was undoubtedly arm and quotations were only approximate, con-
ditlons being attached. The price for ditlons being attached. The price for
bran ranged from $\$ 22$ to $\$ 24$ per ton, bran ranged from
and $i t$ was hard to got it even at the
and higher figure. Shorts were $\$ 24$ to $\$ 25$. seed at $\$ 33$. Seeds.-Prices were unsettled, but were
quoted at $\$ 13$ to $\$ 14$ per 100 ibs. for red clover, $\$ 16$ to $\$ 18$ for alsike, and $\$ 5.25$ to $\$ 6.50$ for timothy, in bag lots.
Hides. - Prices of hides wore a cent Hides.-Prices of and 10c. per lb., re
down, at 8c., 99. and
spectively, for Nos. 3, 2 and 1 bides. calf skins being 12c. and 14e. for Noe.
and 1, while lamb akins have advanced, and 1, while lamb skins have advancea,
under a good demand, to $\$ 1$ oach. Horse under, steady, at $\$ 1.50$ and $\$ 2$. Tallow, 1itc. to $3 \ddagger \mathrm{c}$. per 1 b .
boc. for rendered

Chicago.
Cattle.-Steers, $\$ 5$ to $\mathbf{8 7 ;}$ cows, $\$ 8.60$
$\$ 5.50 ;$ heifers, $\$ 3.25$ to $\mathbf{8 6}$; bulls, $\$ 8.40$ $\$ 5.50$; heifers, $\$ 8.25$ to $\$ 6$; bulls, 88.40
$\$ 5.25$; calves. $\$ 8.50$ to $\$ 8.50$; stockera
 Hogs.-Choice heavy shipping, $\$ 6.60$ to
$\$ 6.65$; butchers $\$ 6.50$ to $\$ 6.65 ;$ light $\$$ mixed, $\$ 6.35$ to $\$ 6.45$. choice light, \$6.45 to $\$ 6.55$; packing, $\$ 8.40$ to $\$ 6.55$; pigs,
$\$ 5.25$ to $\$ 6$; bulk of sales, $\$ 6.40$ to \$6.55.
Sheep and Lambs.-Sheep, 84.25 to 85.30; lambs, $\$ 6.50$ to

Buffalo.
Cattle,-Prime steers, $\$ 6.15$ to $\$ 6.50$, Veals. - Heavy, $\$ 8.83$ to 87 ; mixed,
Hogs.-
 pigs, $\$ 6.30$ to $\$ 6.40 ;$ ro,
dairies, $\$ 6.40$ to $\$ 6.80$. Sheep and Lambs.-Lambs, $\$ 5$ to $88 ;$
owes, $\$ 5$ to $\$ 5.75$; sheep, mired, $\$ 8.50$

## British Cattle Markets.

London cables for cattle 13 tc . to $\mathbf{1 4 e}$.



It now looks as though Canada will lead the Christian world in a sane share of responsibility to - Preach the Gospel to every creature,' in one
generation." So say the promoters of the Laymen's Missionary Movement, whose congress, which Massey Hall, Toronto, from March 31st to April 4th, will mark - the first time in history that the ider and adopt a missionary policy The history of ment is unique. It was first spoken of in connection with the centennial celebration in New York, Nov. 13th and 14th, 1006 , and taken up immediate ly afterwards by a group of laymen,
who met for prayer in the chapel of the Fifth Avenue Presbyterian Church and who finally drew up resolutions
having for their aim (1) to project a campaig (2) education amo look to the evangelization of the world in the present generation. Since that
time the work has progressed with time the work has progressed with
giant strides, and crowded meetings giant strides, and crowded meetings it in every part of the United States
and Canada, also in parts of Great and Canada, also in parts of Grea
Britain, Germany and Australia. Britain, Germany and Austratia.
At the coming congress, which will be known as the Canadian National
Missionary Congress, 2,0 co laymen Missionary Congress, $2,0 c 0$ laymen
will, it is expected, sit as commissioners, in addition to thousands
of clergymen, all of whom will be of clergymen, all of whom will be
regarded as honorary commissioners
 sentatives
the world

The thought of Christianization o the world brings to mind the almost
pitiful effort which China is making to break loose from the curse of opium, as evidenced in her initia tion of the International Opium
Congress, recently held in that landan effort pitiful because apparently
so stupendous. The Chinese have so some practically an opium-eating
become there are over $400,000,000$ o race: there are over and opium is grown in China as well as imported. much must depend on the awakening
of individual effort for self-help, and of individual elfort for self-help, and
yet China is beginning from the outside, and is calling upon surrounding nations for help in a prohi bition that cannot be accomplished
without their aid. The campaign must surely bring
the blush to the cheek of every Brit on who remembers that, in the inter est of Indian revenues, Rritain has
twice gone to war to force upon China a traffic which she had declared
contraband, and that to-day she is contraband, and that to-day she is
virtually the only Power under whose auspices an export trade in
the drug is carried on." The fact that opium is grown in China, as
well as lndia, is, it is to be feared, but poor excuse, and it is somewhat reassuring to know that the 1ritish House of Commons has ut least gone
Bo far as to condenn the traffic as
IO maraly inden
without Britain's support, China's agents, or on application to Governwithout Britain's support, China's agents, or on application
campaign cannot succeed, and that ment Agricultural Departments, agri-
support, if Britain would stand for cultural colleges and experimental support,
right, as well as for might, must not winhela.

The Spelling Reform (?) Movement.
Perhaps we are stupid, but we ing a few changes in orthographyenough to make a printed page look no quartoon to those who have while leaving other words, seemingly,
as much in need of "improvement," as much in need of "improvement,"
untouched. Fior instance, in the
a untouched. For instance, in the in last week's issue, as a sample o the method approved by the Simpli-
fied Spelling Board, why leave out fied Spelling Board, why leave out
the "a " in "t tresure," while re taining the "i " in " believ" " "c Beleev" would seem to be phonet "tion," surely a stumbling-block to
children who cannot spell ? Why not children who cannot spell ? Why not
write " instrukshun," " justifika-
shun ". Coing further shun "? Going further, why not
write "paws" for "paus," and Why retain the " " g " " in " mignage", the second "1 " in "smallest," etc.
If brevity and meaning only are to be considered, old rules in regard to syllabification must surely be discarded. In short, why not follow the orthography of Bill Nye all the
way through, and be done with it? He, if anyone, spelled phonetically. This settled, why not turn the
pruning-knife on the King's English pruning-knife on the King s English
itself-as it is spoken, as well as written? Time would be gained and
grammar simplified by leaving off the grammar simplified by leaving off the
"ly " of adverbs, and the " en " past participles. Indeed, if the only object of language is to convey idea,
elimination need know no bounds. " He went to the tabl and did his veys a perfectly clear idea; so, ". He had spoke first.
Why retain the "ly" and the en," used so much more frequently programme,
Why? Why
Why ? Why ?
Reading in the Farm Home.
Honors Thesis, by Thos. B. Faulds, O. A he the factors which contribute riculture in our land, and the ef ficiency and happiness of our farmers,
that of reading is one of the most important. In this age of rapid evolution and wide learning, the old
methods of oral and practical in. struction by father to son, while still
essential, are no longer sufficient The farmer, to keep abreast of the rounded character as a man and citizen, must read fully, systematical
ly and intelligently. There is no lack of material, of
purely agricultural nature, at least for the farmer to read. Text-books on nearly all subjects in
the scope of ayriculture are pubthe scope of agriculture are pub-
lished. Lists of these may be ob-
tained from publishers and their
cultural colleges and experimental
farms. A "Special Catalogue of
isued Books in Agriculture, 1907, Dessurt by the Ontario Educationtmepart Agriculture Experiment Station Red ord, will be found of use. In the books, pamphlets, bulletins, etc., published on agricultu
There are also the bulletins pub ished by the Canadian and Uut Governments Experimental Farms and Colleges, and the Governmen the "List of Bulletins and Free Pubications issued by the U . S . Depart ment of Agriculture," in which w.
find the titles of many hundreds treatises on a great variety of sub-
jects, and remembering that there are many other bulletin-distributing centers throughout the United State and Canada almost, if not quite, as get some idea of the great extent of this contribution to farm literature. Then there are the agricultural
iournals, some devoted to agriculjournals, some devoted to agricul-
ture in general, others to its various branches, or specific to different districts and climates.
The text-book is usually the work of careful scientific study and long can obtain a knowledge of such matters as the botanical nature of the crops he grows, of the chemistry of
soils and soil foods, the effects of soils and soil foods, the effects of
cultivation and climatic conditions, the physiology and pathology of animals, the science of feeding, etc., as well as detailed practical instruc
tion in the various branches of agriculture. It is not too much to say that, without the text-book, a sub-
stantial and systematic knowledge of stantial and systematic knowledge of
agriculture can hardly be obtained. The bulletins, too, are a mine of
valuable information, the contribution of the most expert observers and experimenters. They are some-
what similar in character to the textbook, but treat of a variety of minor subjects which do not naturally belong to the province of the latter.
The work of the scientist and perimenter, as we find it recorded in text-book and bulletin, is of great
value to the farmer. For example no doubt good crops may be raised and good animals produced by a
farmer having little or no purely scientific knowledge, but he is not scrvations he has made, and by which his farming is governed, are applica
ble only to conditions with which ho
is familiar is familiar, and when these condi Not so with the scientific farmer. He has a knowledge of general principles,
of the great natural laws governing all conditions, and is thus more or less able to meet all contingencies
The farmer, again, who learns by hi own experience, only, may learn well,
but with much loss of time and property, which would have been pre
vented if he had made use of the printed results of trained experi menters. With the one method, the same mistakes and losses are repeat
ed by each individual farmer ; in th other, the many profit by the work
of the few

The limitation of the text-book is
hat it does not march with the times. It has no advice, except in a general way, to give on those contingencies, such as the introduction of new crops, recent scientific discovconditions, etc., to which the progreas of time is always giving birth. The bulletins, owing to their small content and continuous publication, serve this purpos The agricultural paper, however, is
the every-day adviser of the farmer, the every-day adviser of the farmer, and to it he should pay the
frequent and fullest attention.
In t , questions of the moment, or of local value only, are considered diffculties, and problems arising from cussed, and expert advice given; experiences and experiments described, reports given of shows and conven-
tions, books reviewed, and inventions, books reviewed, and inven-
tions and labor-saving devices noted, legal decisions and new laws reported, etc., all such information being not only conducive, but neces-
sary, to the farmer's success. sary, to the farmer success. be also The agricultural paper may be also home-a society of all interested in agriculture. The reader is brought
into frequent contact with the great into frequent contact with the great
community of the farm, and becomes community of the farm, and becomes
acquainted with what is going on in spheres other than the narrow one
in which he himself is placed. He thus not only profits by the experience of others, but, getting an insight into their difficulties, oppor
tunities and energies, he is induced to become more progressive in more patriotic and public-spirited in The market reports, also, are a valuable feature of the paper. Sell
ing is almost as important as proing is almost as important as pro sell to the best advantage unless he at the different markets, and the supply and demand in different localities for the various articles of farm prod
ald so enable him to buy cheaper when The farmer's reading should also in
clude all that will cive knowledge of public questions should be familiar with such mateducation, police supervision, road construction and repair, etc., and with such questions as public owner-
ship of public utilities, restriction of ship of public utilities, restriction something of economic science, of modern methods of finance, such as the control of markets, the operaand progress of the arts and
sciences, manufactures and commerce: of the great movements and tend ncies of the people; of the char
acter and aims of those in office in acter and aims of those in office in
town and country; of the business. social, economic and religious cond
tions affecting his own and other districts, provinces and nations; of history of the past, particularly as it bears on the present and future everything that practical, in fact, use a wise noting and personal in
fluence on public affairs.

Some of this, as economic science
and history, can, and must, be got and history, can, at here, again, the
from text-books, but
periodic journal is absolutely essenperial. The reading par excellence o the public man is the newspaper, for
in it is reflected the whole life of the people. most valuable parts of the
The
newspaper are the editorials, which in good newspapers, contain the con-
cisely-stated opinions on public questions of men of education, experience municipal reports, reports of publi municipal reports,
meetings, speches, etc., and general
news of people and events of imnews of people and events of im
portance. News which is merely sen should not be read.
The newspaper-reader should no
ne allow hinself to become prejudiced
He reads for enlightenment and He reads for enlightenment and
knowledge of the truth, and shoulc subscribe for at least two papers of
differing views, interests and politdiffering
ical party
ical party.
Besides newspapers, there are the Besides nerspapers,
various journals which deal, in more
detail, with specific subjects of more or less public interest. Thus, ther voted to the progress and aims of social organizations, the official or
gans of political societies, education gans of pollice magazines, reviews, etc also magazines of general and varie
content, as the Canadian Magazine, th American Outlook, Everybody's Mag
ezine, etc. azine, etc. The farmer should. also be acquaint and with some of the current period ical and other literature devoted to
general culture and entertainment. Be general culture and entertainment.
sides being an agriculturist and mano affairs, he should have a share in the great literary inheritance provided by
the poets, philosophers, saints, statesthe poets, phisosophers, men of literary genius of ancient and modern times.
Not else can he become the "full man" which reading " maketh." the average farmer's reading pains to acquaint themselves with purely ag ricultural literature, and are inter
ested in social and political quesstandard literature to remain un That it is real wealth, only the gnorant can lives spent by the back-
dull, lonely lo
voods farmere would be enlivened, enwoods farmers would be entivened, enWho can be dull with Dickens or Mark Twain, Shakespeare or Long-
fellow ? And it is diffcult to be lonetored with the best thoughts of the sored interesting men of all ages.
most
The farmer's life, too, is apt to be sordid. His days are so full of
manual labor, and that often of a monotonous and unpleasant kind,
mant, unless he is of an optimistic and progressive nature, he is apt to commonness of life, and less of the
beauty and nobility of it. He lives close to nature, it is true, but too
often he sees in her only the provider daily food. But let such a farmer lasten to the teaching of the poet,
with his true and deep insight into ature, and life and nature will have new meanings to him.
Provision should be
the literary needs of the farmer's wife, those differing in many respects from those of the farmer himself. Be-
sides varied standard and current iterature, place should be found in periodicals of distinctive feminine or
domestic interest, and some of the books relating to domestic economy, Reading for the children must not
Indeed, the signifibe neglected. Indeed, the signifi-
cance of this cannot be too much emphasized, as it is in childhood that
the habit of reading is naturally formed. If the child is to acquire a
pleasure in reading his books must pleasure in reading, his books must
be carefully chosen. Their nature,
ne
each period of his development re
quiring a new form of literature.
Young children will be best with simple stories and fairy tales. Then will come stories of heroism, of ment and mystery. The beautiful
and inspiring stories found in the and inspiring stories found in the mand, and such standard books as "/ Hans Anderson's F'airy Tales,",
" Arabian Knights Entertainments," Lewis, Carol's "Alice in Wonder ress,", Lamb's ". Tales from Shake
speare," the novels of Henty, Coopspeare," the novels of Henty, Coop-
er, Ballantyne, Kingsley, etc. When the taste for these stories passes, be decided by individual inclination, but the aim of the parents should be
o encourage a taste for those books of sterling worth which have stood the test of time, and a healthy dis-
like for the "yellow-back " and "dime-novel "" class of literature, fect, and devoid of high thought. The child's reading, from fairy tales onward, should be a gradual intro-
duction to the great field of world literalure.
ent must be admitted that the presada is by no means ideal. There is no doubt that many farmers ceive the true value of proper read-
ing. The reasons for this are nany ing. The reasons for this are batany cause may be stated in one wordisolation. Canada is a pioneer ccun-
try, and that separation from the active life of the world, which is the pioneer's greatest hardship, has
been, and still is, the lot of inany by our farmers. This is intensified by the vastness of the Dominion and
the scattered character of its settlement. Farms are often considerable distances from railroad stations,
post offices, large towns, or even
villa the winter time at least, difficult of
access, while the teaching is often access, while the teaching is often
inadequate. The natural effect of this is the inrow life, a life tending to become more and more absorbed in its own
small affairs, and concerned less and less with the progress and activities of the great outside world.
The isolated farmer, also, not being The isolated farmer, also, not belng stand the people, learns to put too high a value on his own knowledge and opinions, and on those of his father and
neighbors. It is in this way that the prejudice against reading and college and book-learning has arisen,
which has so stubborn a hold on the which has so stubborn a
minds of some farmers. It may be claimed that those conditions do not apply to the older-
settled Eastern parts of the Dominion, but the fact is that they are more apparent here than in the west
because in the older districts the ef fects of isolation have had longer time to develop.
If. then, we desire to improve the
farmer's reading, we must first enfarmer's reading, we must first en
deavor to reduce this isolation, and
to remove its narrowing effects. to remove its narrowing effects.
To this end. such public questions as State control, or subsidy of rail-
roads, telegraphs and telephones, roads, building and upkeep of good roads, establishment of consolidated schools,
means of inducing desirable immigramean, or any project which makes for improved intercommunication, closer settlement, or generally improved
conditions, should be carefully con conditions, should he carefully con The influence of Farmers' and wo men's Institutes is Farming communities are, through
them, brought into contact vith
and people who are not narrow and
prejudiced, but are wide-awake and progressive, able to give both en lightenment and encouragement, capaprove, and of pointing out the way
to do so. The Institute also gives the progressive members of the community a chance
fluence the non-progressive.
The improved results obtained by
scientific methods of agriculture
should be brought to every farmer's should be brought to every farmer's
attention. This can be done by means of fairs and shows, especially
the more important ones; by model and experimental farms; by experi-
ments conducted by members of the ments conducted by members of the Every inducement should be given to the farmer to improve himself in this companies for reduction of rates, etc. The June excursions to the
Ontario Agricultural College afford antario Agricultural College afford leges.
The influence which may be and is exerted by students and ex-students of agricultural colleges is very ore, or
portant. College students are
should be the Prophets of Prog should be, the " Prophets of Prog
ress " in our farming communities. As the life of the farmer widens by
these and other direct and indirect means, his interest in reading inevitably grows. He sees the bene fit and necessity of reading, but he
has more or less dimculty in making has more or less dimculty in making
his reading what it ought to be. This is precisely the position of a
great many Canadian farmers togreat many Canadian farmers to-
day, and the question, therefore, day, and the "question, there diff-
comes to be ". How, can these culties be removed ? may make them selves of direct use in this respect both by lecture and personal con
versation.
Much can be and is being done by journals and newspapers. The ex
ample of "The Farmer's Advocate" in this connection is well worthy of notice. Not only does priletins. and contain useful editorials and
paragraphs on the subject of books and reading, but it instituted, a year or two ago, a literary, society among its subscribers, through which, by means of model hese, and advice on apprecian them by competent teach ers, and essays and criticisms by
members of the society, a fair knowlmembers of the society, and understanding of good lit erature may be secured.
Mention should be made of the ad mirable work being done by mean tion of literature, etc., by the High School agricultural teachers recently appointed by the Government.
College students and ex-students can be of great assistance. They have become acquainted with a great vari ety of literature, by means of college libraries and magazine rooms, and
in other ways. In this connection it might be suggested that it would be advisable for every farmer visiting a college to carefully inspect
library. If this could be done with library. If this could be done with give assistance suitable advice, much pra
tical benefit would be obtained: tical benefit would be obtained ; in
fact, organized inspection of the fact, organized inspection of the
library books and magazines should
俗 be a feature of College short courses,
conventions, etc. There is room for more lectures on
the subject of reading at shows, fairs Much may be accomplished, too, by the formation of rural literary societies and reading ciubs, circulating by means of the post office, etc.
The example of the United States The example of the United States ing courses, is greatly to be commended. These courses are coles and experiment stations, in conjunction
with the State. The work underwith the State. The work Farmers ${ }^{\circ}$ Bulletin No. 109, U. S. Department of Agriculture, as follows: © The
college or station lays out certain courses of agricultural reading on such subjects as soils and crops, dairying, fruit culture, farm economies, and other like topics; selects
sets of books for reading which
whines most clearly set forth the principles underlying these subbects; provides or superintending the work, and
makes arrangements for supplying makes arrangements for supplying
prospective readers with books, examination questions, etc., and to
members, except for books and a
small enrollment fee. These course have met with pronounced success, and have helped greatly to stimulat the reading of members, and
it on a systematized basis.
it on a systematized basis. reading is the result of a truly progressive spirit, but it is also true
that. without proper reading, that that, without proper reading, that progress canno reading in the farm home is, therefore, vital to the interests of
agriculture. It is more than that. agriculture. It is more than that
It is of national importance, for, a It is orming community is the chiof element of our country's strength, so, in the welfare of that community is
bound up the prosperity of our whole Dominion the

## The Quiet Hour.

## The Good Physician

## rappy is the man whom God cor-

 recteth: for Ho maketh sore, and bindethap: Ho woundeth, and His hands metko

Let us visit the hospital patienta 1-
Tread lightly across the floor,
or the bodies are weak and amicted
And the lonely hoarts are sore.
On the rush from morning to night.
With no time for the friendly attontions. They gladly would give it they might.
Here the days are so long and so weary. While the nights :-they are longer otlll:
patience,"
But it's hard, very hard, to be ill. Men talk of a loving Redoemer Who is able and willing to saveA poor man who toiled in a workshop, Yot mighty o'er doath and the gravo-
If Ho can help, then why is Ho silent p\%" Says one, with a weary sigh, "II a word or a touch can heeal us,
Then why should wo suffer and die But jewels of price must be polished And gold must be tried in the furn Till it shines and refiects the ught. Yes, the Master fs cutting His jowels And purges the dross from the gold;
For Ho loves every soul that With a love that cannot be told.
"They are MINE !" He declares, "all They are these jowels.
Eiach stone must be polished with earol And no patient is over neglectod,
For the Good Physician is thero Fith a hand that is tender and akiliful And a patience that never can tire, Giving always the very best troentment Each case in the ward may require.
He could easily say to each pationt. Hie could easily say to each pationt," But. through the weak, sufferlag body He reaches right down to the heart.
Some day you will look back and won Some der
How you ever had doubted His ekili; So, won't you trust now and bo petiont?

Oup Lovep-God.

## The LORD thy God in the midst of

 thee is mighty; Fod wit seve, Ire willHejoice over theo with joy; Ho will rout in His love, He will joy over theo with

Close to my beart, so clo
The heart that lives but to fulial Thy will,
Love is the gruat crown of ufe, the
only prizo-save holineos-which is worthy of a man's most atrenuous endeavor. young. Like the froek, Eroone grase and tender leaves, which aro new every spring. every country and in every sec. Po every country and in every ago. Poot
and novelist never seem to think that

$$
\begin{aligned}
& \text { the theme has been worn uircus Love is } \\
& \text { "all the world loves a lover." Love arm of } \\
& \text { an inspiration to strengthen the }
\end{aligned}
$$

$$
\begin{aligned}
& \text { "all the world loves a lover." } \\
& \text { an inspiration to strengthe orm of } \\
& \text { a man and nerve the loynal heart of a }
\end{aligned}
$$

$$
\begin{aligned}
& \text { an mapiration nerve the loynal heart of a } \\
& \text { a man and } \\
& \text { woman, it is the rightul thinertance of } \\
& \text { the tinv thaby-the baby that feels so wefo }
\end{aligned}
$$

$$
\begin{aligned}
& \text { woman, It is the rightiul } \\
& \text { the tiny baby-the baby that feels so sefo }
\end{aligned}
$$

$$
\begin{aligned}
& \text { the tiny baby-the baby that feels so ofelo } \\
& \text { and happy in its loving mothers arme- } \\
& \text { and it is the debt due to those who have }
\end{aligned}
$$

grown old in loving ser ice and need ten－
derness quite as much as do the little children
Our love－hunger－the way we insistently claim love and give love－is one of the
marks which show our kinship with Him whose great ost name is LOVE．And if
we lose the romance of life，if we settle we lose the romance of life，if we setue
down into a prosy grayness after tho down into a prosy grayness arter
frrst rosy ureams of youth have faded，it
is our own tault．God does not drive is our own fault．God does not drive us to read novels in order to satisty our
natural love of romance ；Ho is prepared natural love of romance；Ho is preparec
to satisty the craving which is Hiso wn
tift to each innintely hungry heart． gitt to each infing tely hungry heart．
Read the Bible and see hov constantly Read the Bible and see how constantly
God offers Himself as a LOVER to His
 such passages as this ：＂I will be－ troth thee unto Me for ever；yea， 1 wes．＂ And think of S．Paul＇s declaration tha he bond of love，which makes husband
hid wite one．is simply the earthly and wifo one．is simply the earthly re－
fection of the bond which makes Christ fend His Bride，the Church，One．Keble，
and
in one of his beatitul hyms，speaks of in one of his，beautiful hymns，speaks of
lonely souls whose
lament is that

 he all－satistying Love which is always

Thou art as much His care as is beside
Nor man nor angel lived in heaven or
Just think what it means
Moment wo can lean back on the heart of
meritect LOVER，sure of instant pathy and perrect help in joy or sorrow．
Think what it means to know that every－ thing that comes to us，and everything
that passes us by，must be the best pos that passes us by，must be the best pos－
sible arrangement for our growth in the beauty of holliness and in the beauty
 lalling tendernass 1 or our happiness，who
han inninit opower and infinit patitence，
and who can never make mistakes is His
 romiant．muit makt and everonding romance to bo considered No lovestory is considerod to be rounced
out pertectly until the love is reciprocal． It is not enough for our joy to thave the Love of God pouring itself out casesesssly Still in loving，still in loving
Not in being loved．is iov．＂
is is true in the lesser romances of oarth，it is is on otes true in this great
Romance．And，by the way，how much pain
 grasped the tact that the one who Toves
is getting the best of life，rather that the
rate one who is roceiving love without giving
any roturn． Those who find Cristianity a tedious
coloriess round of duty，should wake uil to tho fact that ft need not，and should
not，be so．God gives it to us to glority lite as tho sun glorifas everything．The
love of God，drunk in eagery hour arter love by at tirsty soul，and met by an
hour by by
ansering love which becomes in time the answering love which becomes in time the
very ilixir of tife，is our Lover－God＇s in
tention for each of us．Fain and sorrow ate allowed．for great reasons－without
them the soul seldom rises to a high level－but they are only temporary，whil Joy is oternal．
But some who are struggling along is the path of daty may never have known
the radiant joy of accept ing and roturn tng this wonderful Gitt of Divine Love
How can the miracle of the marriage teast ban workod in then，thenanging th th
tasteless water of purification into the tasteless water of purifaction into
rich wine which grows better and better

 One thing is cortain，be take by all wh
consecration must be tan

 wayg ready for the Great Lover to use
as
He pitases．
Those who pour out their lives at the feot of christ as ae
votod disciples，standing always preparea to obey His commant，Mre drawn hrous
the circle of＂disciples＂．until He say
$\qquad$ （6）Mass shrubbery，as a rule，against a background of trees or vines，letting
run into irregular ．＇bays and prom－ ontories．＂
Make free use of native shrubs－dog－ herry，cranberry，elderberry，etc．，are all bood－and do not forget to procure a
red－stemmed or red－berried varietios to afford color during the winter．A snow－ covered garden，flanked by barberry，red
wigged dogberry，and brier－rose bushes． with their scarlet hips，has a beauty of its own but little short of the beauty
of the summer garden．Our Canadian and most certainly should not be left out

## of

## Pruning Shrubs．

## To begin with，it may be said that ornamental shrubs roguire very little

 pruning．Dame Nature requires a good deal of direction wherever the utilities areconcerned，as in orchards and small－fruit gardens，but when it comes to things that make for beauty alone，she may be pretty
much trusted to herself．Notwithstand－ ing，many people，acting under a vague idea that pruning is necessary every year， go on snipping off branches here and
there，blindly oblivious of the fact that and grace the shrubbery should have．
It may be taken，as a rule，then，that It may be taken，as a rule，then，that
unless in exceptional instances，the shrub－
bery should be tampered with as little as bery should be tampered with as little as
Thessible exceptional instances possible．These exceptional instances
are：（1）When young shrubs are awk－ ward and straggling．In this case head
back a little for two or three years to induce a more compact growth（2）
When the branches grow too thick and close．Thin out a little．（3）When growth．（4）When shrubs，otherwise healthy looking，make too insignificant
bloom，possibly for want of the new growth upon which blossom－buds usually The time for pruning in any of these
cases，depends chiefly upon the time of lowering．Those that bloom in the early spring，perfect their blossom－buds during
the previous fall，and so should be pruned just after blooming．This will give the new shoots time to develop anu make bloom in summer and fall，on the con－ rary，make their flower－buds on the
shoots of the season，and should there Tore be pruned very early in spring，to
orce the growth of the new shoots． Dead or weak wood may be taken out
De winter．or，indeed，at any time．

## Current Events．

The Newfoundland fisheries dispute will be submitted to the Hague Court


## With the Flowers．

Landscape Gardening for
scape gardening．This does not moan
that he should buy expensive books and get the whole art at his fingers＇ends， but simply that he should，after gotting
hold of a fow recognizod rules of good
taste，make such study of his house it－ taste，make such study of his house it－
self，of its situation and possibilities．as may enable him to make of the whole a inharmoniour element．
A house，to incongruous A house，to all appearance，is only a
house．It may also be a home in the truest sense of the word，so far as affec－
tion and all that goes，but it does not look homelike，nor can it possibly give
the fullest complement of pride and pleas－ ure to the inmates unless given a setting， artistically arranged，of vines and trees， and flowers．
must，of course，depend much upon cir－ give the cue to subsequent development． gestions bold good
（1）Place a bank of trees，evergreen as a background，and leave an open space roken by flowerbeds，etc．，although be placed here or there and permitted to evelop its full beauty of branch
contour．Trees and shrubbery may irregularly grouped on each side of placed near the foundations of the house
io soften the hard line of demarcation between ground and brickwork． （2）Do not plant trees in straight lines，
except（a）along fences，（b）at each side except（a）along fences，（b）at each side
of a driveway，（c）when using them as a windbreak．
（3）Let vines run riot wherever any－
thing stify or hard in appearance needs softening．or where anything ugly needs erandas，over the brickwork；let them else can do as much in the cause of （4）Use native trees． ．These stand the
（imate better than exotice and climate better than exotics，and look more
at home．Besides，they are quite as
beautiful．and afrord quite as pleasing a beautiful，and afford quite as pleasing a
variety；the gardener who caniot choose among native maple，beech，elm，etc．
must be hard to suit．
Besides，there is nothing to be gained by a very great cariety．It is not necessary that the
grounds be a museum，and better effects

## Homemade Lawn Roller． The lawn should be rolled when it is soft，too soft to put the horses with the land roller on it，as their horses with the and make holes；so we have made a cement roller，which we think will work all right．We took an old milk can and straightened out all the bruises in it made a hole to receive the bottom and bottom of the can was higher in the center than at the sides，so we had to fill it up level with a board，as the roller should be rather crowning in the center． We took a piece of $y$－inch round iron the proper length，and fixed it in the conter at the top，and then mixed the gravel and cement in about the proportion of stones one．We pulled all the small The axle iron had a cross piece in the axle is left about three inches protruding at each end．It took one sack（t bar rel）of cement，and nearly two barrow fuls of gravel．When it became thoro ughly hard we took a hammer and a seam，at the side，and the roller looks it of $3 \times 3$ rock elm，and will have two cross－pieces in front，with a pole，or angue，so that two men can draw it． and all the money outlay will be 50 cents great saving of cement．It will be a the lawn nice and smooth．The length of the roller is 2 feet $1 t$ inches，and 1 of the roller is 2 feet $1 \ddagger$ inches，and 11 foot 6 inches in diameter．

## A March Glee．

hear the wild geese honkin sound of moving armies The river ice is drifting
Beneath their northward flight
hear the bluebird plaintive rom out the morning sky
or see his wings a－twinkl That with the azure vie：
No other bird more welcome more prophetic cry．
hear the sparrow＇s ditty
A－near my study door，－ A simple song of gladness
That winter days are o＇er My heart is singing with hin
hear the starling fluting
His liquid＂o－ka－lee＂ His liquid＂o－ka－lee
1 hear the downy dr Ais vernal reveille；
And from out the maple orchard Oh，Spring is surely coming． Her couriers fill the air： Each night her ways prepare I scent her fragrant garment，
Her foot is on the stair．

Bulgaria has notified the powers that she thinks the time for recog－
nizing her independence has arrived．

An English syndicate，which has secured control of the steel plant the Canadian Sault，proposes
make it the greatest steel plant


Great heaps of refuse，thrown out from the mines at St．Ives，Corn－
wall，prove to be chiefly composed of
pitchblende containing radium，and hence of great value． Ven．Archdeacon J．F．Siweeny，
M．A．，D．D．，Rector of St．Philip＇s Church，Toronto，has been elected Bishop of Toronto，in successi
the late Archbishop Sweatman．

A deputation from New York Sta
A deputation from New York State to make a canal connection between the St．Lawrence，near Montreal

The Lilt of a Laugh．
blessed，
As I＇ve toiled with the men who failed；
ve toiled with the men who strove with And
I＇ve toiled with the men who
wailed． As his is the tale my soul would tell the sound of a sigh doesn＇t carry well， he the litt of a laugh rings far． The men who were near the grumbiers
side，
Oh，they heard not a word he said， he sound of a song rang far and wide，
And they harkened to that instead． hs tones were sweet as the tales they Of the rise of the Christmas star．
Tho sound of a sigh doesn＇t carry well， Tho sound of a sigh doesn＇t carry well
But the litt of a laugh rings far． If you would be heard at all，my lad， Keep a laugh in your heart and throat： Are alert to the cheerful note． Keep hold of the cord of laughter＇s bell． Keep aloof from the moans that mar； he sound of a sigh doesn＇t carry well．





 $===$
call you no longer servants，but

The Beaver Circle.

On Shooting Birds. A long, long time ago, a boy called

H. H. B., sent us a story about a cow. which was very grod indeed, but which was written on both sides of the paper and so cannot be published. Try again, H. H. B. I was very glad to know that you were so fond of animals, but, dear me. what did you sell that cow for? I think
I should have felt more like "dressing her in the finest silk, and feeding her on the
choicest hay. Poor bo sie !-after suichoicest hay. are an out-and-out practical farmer, not
a hermit like old Puck. And, now, 1 want to tell you some-
hing. Last fall I got out of my den one day, and a few of us drove to one
of the prettiest little lakes imaginable, with woods at one side, and bushes and
reeds and the seed-heads of wild flowers all about. The day was perfect, but
there was one thing that spoiled the peacefulness of the scene. Over on the
shore a big man, who should have known better, stood with a gun, mercilessly
banging away at every bit of bird-life banging away at every bit of bird-life
that dared show itself within reach of that dared show itself within reach of
his pitiless shot. Down the little birds
came-precious little songsters on their way to the South, little missionaries that had spent all of the summer eating
up insects whose chief work seems to be up insects whose chief work seems to be
destroying our crops and orchards. destroying our
changed in one moment, from beatutiful.
useful creatures, into bleeding, hideous useful creatures, into bleeding, hideous
masses of mingled blood and feathers. . masses of mingled blood and feathers. .
A crane sailed over the man's head, making straight on, like a beautiful frigate of the air, to some lone, distant pond. That would have been a rare prize, and
the "sportsman" (save the mark !) tried agein and again to secure it. To our
great joy he missed his purpose gvery great joy he missed his purpose gvery
time, the range, probably, being too great.
7 here is really no great sport, and surely no great bravery, in shooting
birds-little, timid things that canot even fight back again for their lives.
Surely they are beautiful enough and Surely they are beautiful enough and
useful enough to be tet tive. Think of
the loneliness of a land in which no bird the loneliness of a land, in which no bird
ever sang, in which the fiit of a bright ever sang, in which the fit of a bright
wing through the thees cuold never be
seen. And then think of the usefulness of the littie creatures. In some of the alands of Japan there are no birds at
all having been taken by French all, all having been taken by French
traders to trim the hats of foolish women, and everywhere in those islands
there is said to be the hum of millions there is said to be the hum of millions
of insects, insects that are feeding on of insects, insects that are feeding on
crops and fruits to the great damage of
both. The Japanese however. crops and fruits to the great damage of
both. The Japanese, however, are on
very progressive people, and no doubt very progressive people, and no doubt
they wil heorere long import birds, next
time protecting them hy law.
you how glad I shall be if any of you
who have done any work in photography Then. think of the crueity of the prac-
tice. Not long ago 1 heard a lecture on
lirds, by a man who knows very much
about them, and who loves them so much about then, and who loves them so much
that he goes out sometimes at 4 o'clock in the morning in summer, to observe
their habits. Then, if you happened to
(ive near him, and were up early enough, you would see him dashing along on his
wheel, a note-book sticking up out of his whelel, a note-book sticking up out of his
pocket, and a pair of field-glasses swung ocket, and a pair of field-glasses swung
over his shoulder, and, possibly a camera,
but never a gun of any kind. In his hut never a gun of any kind. In his ecture he said that a little bird's life is oit for enemies, cats, voracious birds of
prey, snakes, men and boys with guns.
wen while eating. it cannot rest in Wen while eating. it caynot rest in
peace, but has to stop every few second peace, but has to stop every few seconds
to turn its little head this way and that,
to see if anything cruel is approaching. tho to this its long, long fights of
thousands of miles. spring and fall, when hurrying through the upper air by night.
it is exposed to all tho dill into exposed to all the dangers of falling
or lake through fatigue house towers, or against the networks of
wira wires which men have put up for various
purposes.
Surely a life menaced by su many dangers should not have to bear the added one of facing the cruel sho If boys must shoot in a land like ours where there is no dangerous game, their
common sense should tell them that should be at targets, or at little balloons there is really no excuse for shooting a all, just for the sake of outdoor spor
There is another kind of sport which There is another kind of sport which
while causing neither suffering nor lows of life, is much more interesting, and
really really requires more skill than blazing
away with a gun loaded with bird-shot Have you ever heard of it-hunting with
a camera? Have you ever heard of Dug a camera? Have you ever heard of Dug-
more, Baynes and others who go out
into. the woods secreting themeelve into the woods, secreting themselves
among trees, hiding, even in canvas among trees, hiding, even in canvas
"tree-trunks," all covered with boughs,
"ntil and until a good "shot"" can be taken with
their most harmess of "shooters"? And Their most harmless of "shooters"? And
then the interesting time afterwards then the interesting time afterwards
while developing the plates and printing the pictures is to be counted on. You have only to try it to find out how de
lightful it is. lightful it is. Tis a beautiful morning," a sportsman $T$ he world tate a gun, go happy let's each
Go uut and kill something for pastime And proudest be him who counts the
$\qquad$
$\qquad$
Blinded eyes, and broke wings that de-
lighted to soar,
killed for mere pleasure, and
crippled and tore,
kegardless of aught but the hunger
kegardless of aught but the hunger for
Tis a beautiful morning," a sportsman
cried,
Who carried a kodak instead of a gun :
Who carried a kodak instead of a gun:
"The world looks as happy, so golaen
III slip) to the woods where the wild
"I slip to the ."oods where the wild
things hide."
The deer that he "shot" never dreamed
of his aim,
And the bird that he caught went on
with her song.
slaughter and wrong,
Yet
rich were his
Yet rich were his ""trophies" and varied
The Letter Box.
Dear Puck and Little Beavers,-1
thought I would write you a letters on
"Evening." I hope this letter will
escape the waste-box.
When the shades of evening gather o
And the hill, little birds and other things
And the little birds and other things
are still.,
Is the time of all tumes to take a
Up the grassy hill-side, or along the
Up the grassy hill-side, or along the
He may spend our evenings in many
different ways, but I think the nicest way
is to go for a ramble through the woods,
is to go for a ramble through the woods,
among the flowers, up the hills, and in
among the flowers, up the mills, and in
the many other delightful places around
country home. As you are walking
along, the moon casts fantastic shapes
across your path, either making you
laugh or making you shudder. Yaking you may
sit by the fireside and nuse or read a
book. or converse on some interesting
sic oy the fireside and muse or read a
book, or converse on some interesting
subject, and in this way pass your even-
ing very proftably.
ing very proftably.
I think my friend

Fill agree with me whon I say that evenfind the poets write more about it than about the day proper.
York $\mathrm{C}_{\mathrm{o}}$ Dear buck -1 um a farmer's daughter Dear 1 Puck, -1 am a farmer's daughter,
and of English descent. My grandfather came out in the year 1850. At that wime the country was nearly all covered Quebec, and then came to Northport. F.very farm then was covered with great forests or woods. Everyone had a maple grove, and in the spring of the year they and sugar enough to last them until the next spring. The women curd to knit and make cloth and spin. They
knit stockings and mittens for sale, and for their own use. The ways have changed now, and the
women buy their cloth and stockings and mittens. There are hardly any maple maple syrup and sugar, and it is not as pure as that of olden times. The woods are nearly all cut down, and most of the
farmers burn coal around here. now close, as this is my first leter, and 1 must not take up too much of you "aluable space. Yours truly,
LENA MORRIS (age 13 years) Prince Edward Co., Ont.

The Junior Beavers. Dear Puck, -I have never written to this Circle before, but I hope you will find room to print my letter. 1 saw in
your number for January 14, 1909, an article about making skees. I made a pair last winter out of cedar, the same as Fred. Robinson, but did not bend
them up as he did. I think they are great sport.
My home is just south of a woods, and it makes a great shelter in winter. There are a lot of black and gray squirrels.
My brother put ap boxes beside the housi My brother put up boxes beside the grain out of them.
Our bush is neerly all maples, and we
make a lot of maple syrup in the apring make a lot of maple syrup in the spring,
tepping about three hundred and afty
trees. trees. Wo have a bolling house, and I go about three-quarters of a mile school. In the fall we play football. I wish Bruce Clummer to tell me how to play "cock-robin."
ROBERT ROGERS (age 9 years). Durham Co., Ont.

Dear Puck, -My papa has taken "'The
Farmer's Advocate" for soveral years, but this ts my first letter. I am nine years old, and I have gone to school
three years. I have to walk half a mile to school. I am in the Third book. I have a little brother five
month old; his name is Horace King



Sadler. We had a heavy fall of snow We send them to Ottawa. and are re
yesterday. It saowed fifteen inches in ceiving 35 cents per dozen. (January 28) three hours. To-day the wind is blow- her own pocket money. I will say for My grandma gave me a watch this the "biddies," the oftener you go to see Christmas, and it keeps good time.
vill not make this letter very long, I will write again. HAROLD W. SADLER (age 9)

## The Ingle Nook

|  |  |
| :---: | :---: |
|  |  |
|  | ng ; least well-dressed is whon |
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|  |  |
|  |  |
| ere to be bought, for |  |
| ing down street in the very latest extreme of fashion, and noticeable half a |  |
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|  |  |
|  |  |
| she can scarcely walk in it, is not welldressed. To be so a woman must look " not flashy. Her clothes, though |  |
|  |  |
|  |  |
| plain, must fit to perfection and be of good material; gloves, shoes, and coller, must be immaculate; and the whole |  |
|  |  |
|  |  |
| woman endowed with that air of being well-groomed, which is so hard to deorthe, but so eesy to perceive. |  |
|  |  |
|  |  |
|  | For all business |
| the only |  |
|  |  |
|  |  |
| or a long, plain coat, worn over a plain skirt and waist, or shirtwaist suit. A解 with a veil to keep in the |  |
|  |  |
|  |  |
| stray locks of hair that blow about so, especially when driving, a neat collar and |  |
|  |  |
|  |  |
| bow or string tie, or an unobtrusive ruching and brooch, complete the tollet. |  |
|  |  |
| No other jewelry should be worn except the watchguard, and perbaps a small |  |
| the watchguard, and perhaps So clad, a woman looks as though she has "some other clothes at home" for other |  |
|  |  |
|  |  |
| and more suitable occasions, and not as though she is carrying everything she is or her back. |  |
|  |  |
|  |  |
| This costume, with the substitution of somewhat less businesslike shirtwaist, |  |
|  |  |
| is quite suitable for church, and even for calling, but, of course, for teas, garden parties, etc., a more dressy costume shuld be worn. |  |
|  |  |
|  |  |
|  |  |
| For the plain tailored suits, broadcloth, cheviot, serge, prunella cloth, panama, and |  |
|  |  |
| tweed, for spring wear, are always sale, |  |
| for warmer weather, pongee or rajah silk. linen, fine pique, and chambray. For |  |
|  |  |
|  |  |
|  |  |
| $\begin{aligned} \text { rajah } \\ \text { ging } \end{aligned}$ |  |
|  |  |
| oloths, "satin cloth," and "satin princesse," are highly recommended as un ancrushable, but these |  |
|  |  |
|  |  |
| spottable qualities, |  |
|  |  |
|  |  |
| morphosis in lashion is threatened. Which. after all, never gained much favor, oxand among the ultran |  |
|  |  |
|  |  |
| cept on the stage, and among the utratashionable, next fall, or, possibly, even |  |
| earlier, will see, so we are told, the advent of the "basket" gown, with a rather |  |
|  |  |
|  |  |
| short skirt and overskirt. made into puffs or "paniers" over the hips. Why not combine use and "beauty." and convert |  |
|  |  |
|  |  |
|  |  |
| That would be a fine scheme when going to market or on a shopping tour. <br> Seriously, however, I do not think the |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

Keeping Hens and Gardening for
Dear Dame Durden,-As I have never
written to the Ingle Nook before, I would
like to send written to the Ingle
like to send a fow lines. I always enjoy
the Ingle Nook Corner very much Everything in connection with farmu lif
is very interasting to me. Just now it is very interasting to me. Just now in
is the hens. I think it is so interesting
to take care of a flock of them; you man to take care of a flock of them; you man
age them with your housework, an
matches the coat, but, of course, a skirt
$\underset{\text { an }}{\substack{\text { an } \\ \text { nic } \\ \hline}}$ The Possibilities of Cheese. Early last fall a kind friend gave me nice, and does not suggest any serious
complications-but when you consider that complications-but when you consider chat
our family numbers two, and we are not
particularly fond of cheese, the case is our family numbers two, and we are no
particularly fond of cheese, the case is
more serious. In the first place, we more serious. In the first place, we
never eat "green cheese," so 1 buttered never eat "green cheese," so 1 buttered my cheese carefully with unsalted butter
and set it where it was cool and dry to and set where five months, Even then it was not quite as ripe as we like
it, but I thought we had better begin if it, but I thought we had better begin if
we were ever to see the end. So start-ed in very bravely with just "chease."
but by the time that had appeared tw." or three times, I knew I was "up against"
boc

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\begin{aligned}
& t \\
& t
\end{aligned}
$$${ }^{\circ}$in od$\begin{array}{ll}\text { rity. } & \text { bo } \\ \text { ould } & \text { lay } \\ \text { with } & \text { Sp } \\ \text { with } & \text { a }\end{array}$

$$
\begin{aligned}
& \text { of milk to each quart of macaron, ev.. } \\
& \text { (just enough to moisten slightly). brown } \\
& \text { for } 20 \text { or } 30 \text { minutes and serve in the }
\end{aligned}
$$p"Macaroni, tomatoes and cheose," was

the next experiment. Cook the macaroni

$$
\begin{aligned}
& \text { the next experiment. } \\
& \text { as given above and arrango in layers } \\
& \text { with tomato (the pulp only, if cooked), }
\end{aligned}
$$

$$
\begin{aligned}
& \text { cheose, butter, sar rolled cracker or a fow } \\
& \text { times I added a res. } \\
& \text { bread crumbs, and a finely-chopped onion. }
\end{aligned}
$$

$$
\begin{aligned}
& \text { bread crumbs, and a finely-chopped onion. } \\
& \text { Have macaroni cr crumbs for the top } \\
& \text { layer. Then moisten with the juice of }
\end{aligned}
$$

$$
\begin{aligned}
& \text { minutes. } \\
& \text { " "Salloped tomatoss" came next. For } \\
& \text { a } \\
& \text { this use only the pulp of the tomato, }
\end{aligned}
$$

$$
\begin{aligned}
& \text { this use only the pulp of the tomato, } \\
& \text { arranging it in alternate layers with } \\
& \text { bread crumbs, a sprinkle of cheose. but- }
\end{aligned}
$$

$$
\begin{aligned}
& \text { broad crumbs, a sprinkle of choose. but- } \\
& \text { ter, , atit and pepper. Once in a while } \\
& \text { choned onion found its way into this }
\end{aligned}
$$

$$
\begin{aligned}
& \text { ter, salt and pepper. Once in a while a } \\
& \text { chopped ooion found its way into this } \\
& \text { dish also. }
\end{aligned}
$$

$$
\begin{aligned}
& \text { chopped oner } \\
& \text { dish, also. } \\
& \text { "Scalloped potatoes" was the next die- }
\end{aligned}
$$

$$
\begin{aligned}
& \text { "Scalloped potatose" was the next dis- } \\
& \text { guise for the grated cheses. Since every- } \\
& \text { one knows how to cook potatoes in this }
\end{aligned}
$$

$$
\begin{aligned}
& \text { than to say } \\
& \text { tablospoon of grated choese to a pint of } \\
& \text { potatoes. I found, that to prevent the }
\end{aligned}
$$

$$
\begin{aligned}
& \text { potatoes. I found, that to prevent the } \\
& \text { milk from curding in this dish, it is woll } \\
& \text { to use a pinch of soda, dissolved thoro- }
\end{aligned}
$$

$$
\begin{aligned}
& \text { to use a pinch of sode, dissolved thoro- } \\
& \text { oughy in the milk. In fact, in any dish } \\
& \text { where there is danger of curding milk }
\end{aligned}
$$

$$
\begin{aligned}
& \text { ughly in the milk. In fact, in any dish } \\
& \text { where there is danger of curdling mill } \\
& \text { by adding salt, a pinch of soda does no } \\
& \text { harm and often averts disaster. } \\
& \text { "Cheese croquettes". were not so well }
\end{aligned}
$$

$$
\begin{aligned}
& \text { harm and often averts disaster. } \\
& \text { "Cheese croquettes" were not so wel } \\
& \text { received, but some might like them. T }
\end{aligned}
$$

$$
\begin{aligned}
& \text { recived, but some might like them. T } \\
& \text { make these add a little grated cheese } \\
& \text { t, }
\end{aligned}
$$milk, season with pepper and salt, and

form into little cakes, which are fried inform into sweet dripping.
butter or suite a favor-
"Scalloped cheese" was quite"Scalloped cheese" was quite a favor-
ite, so, of course, was used several times.ite, so, of course, was used several times.
Take about three slices of bread (plainTake about three slices of bread (piain
or toasted), and two heaping tablespoons
of grated cheese. Rutter the bread andof grated chese. Nutter the bread and
arrange it in alternate layers with the
cheese, sprinkling each layer with saltcheese, sprinkling each layer with salt
and pepper, using cheese as top layer.
Boat 3 or 4 eggs, add 3 cups milk (a
pinch of soda will help, you know), pour
moderate oven about 40 minutes. Boiled
rice may be used instead of bread or
bread crumbs or cracker crumbs will an-
swer as well as whole slices.
ways. The one we liked best was made
salt, a tiny bit of cayenne, and a cup
of bread crumbs. Stir a minute or two
until the mixture is smooth and creamy until the mixture is smooth and creamy
and pour over five or six hot crackers and pour over five or six hot crackers or
toasted slices of bread. Serve at once.
"Chese with maye.. ooasted slices or bith mayonnaise" appeared in
"Cheese with cand wiches once or twice. Rub the yoll of a hard-boiled ogg with a tablespoon if melted butter (salad oil, if you, prefor
it). When quite smooth add $\& 1 \mathrm{l}$. grated hheese, \& teaspoon each of salt, pepper and "mustard. Rub all well together and add a little vinegar or lemon juice (just
enough to taste it). Spread on buttered bread. "Cheose sandwiches" are quito appetizing if a tiny pinch of cayenne is
used in grated cheose. The cayenne used in grated cheess. The cayenne
stimulates the digestive organs sumfieiently to digest the cheese. Sometimes one
has little odds and ends. of fish, chiche has little odds and ends of fish, chickron
or other meat, which can be used up by or other meat, which can be used up by
running through the meat chopper (there is no easier way to grate cheese), and
then used in sandwiches. Cheese may be added to any of theese, either to help out the quantity or to give enother favor to
the sand wich. A bit of chopped onion is also an addition, especially to a strong
fish, like sardines or salmon. Speaking of fish reminds me that we riod chesese in two of our favorite "cod Here they are :
"Codfish a la mode."-Pick to bits and
freshen one cup of codish. Cook until tender in one pint of milk, or craem.
If milk is used, add a generous piece of (If milk is used, add a generous piece of
butter.) Add $t w o$ well-beaten eggs, a
little salt and mepper, and two cups of buttere salt and pepper, and two cups of
lashed potatoes.
To this I added two mashed potatoes. To this I added two
tablespoons grated cheose and baked 20
chen tablespoons grated cheose and baked 20 dish may be improved by sprinkling but-
tered crumbs over the top when nearly tered crumbs over the top when nearly
cooked and allow them to brown nicelly. "Creamed Codfish."-Pick up and freshen 1t cups of fish, heat 1t cups milk, add
the fish and cook ten minutes in a doublo the fish and cook ten minutes in a double
boiler. Add a tablespoon butter, boiler. Add eabiespoon in a little
tablespoon flour moistened
milk, one beaten egg, a tablespoon gratod mik, one beaten egg, a tabiespoon graper.
cheese, and a generous dash of pepper.
It is well to remove the dish from over It is well to remove hing the egg and
the heat before adding the heat before adding the egg and
cheese, es there is less chance of curdling, and yet the milk wil
to cook them sufficiently.

I am quito sure that cheese would be
delighttul addition to a plain omelot, but my omelots, plain and otherwie, have long since given up trying to mato them. Will anything short of a "witch's incantation" keep an omelet from falling
long enough to lot a body it I have given these reoipes just to show a fow of the possibilities of a piece of
cheess. It is universally acknowledged cheese. It is universally acknising of
to be one the most nourishing foods, in a comparatively cheap form, and
yet one rarely sees it served as anything yet one rarely sees it served as anything
but plain sliced cheese. In fact. I lived "in plain sliced cheese. In fact, Ineople's houses. for moren
"en years, in several different parts ol ten years, in several different parts of
the Province, and never but once did 1 the Province, and never but once cial
meet cheese in anything but "plain cheet choese ha anything but "plaind
clothes." That once was macaroni and
 Now, I am sure I have not exhausted
the possibilities of cheese, but I finibhed the possibilities of cheose, bu rasting avy
my eight pounds without way
of it.

Washing as an Art. marned Washing is an art and needs to be loarned
as well as anything else. Everybody can wash after a fashion, but not everfy body can so turn out handkerchiefs,
and lace blouses and ties and other waskable belongings that a profossional lean-
dress would not scorn to own them as dress would not scorn is work. It is emphatically an accomplishment worth learning, if only for the sake of reducing one's laundry bill. Dis-
solved soap is a necossity and is made
by finely shredding by finely shredding a quarter of a pound
of yellow soap into one quart of water and boiling it till dissolved. When wasking flannel and woollen goods never ruil
or twist them. Squeeze them about in a tepid lather to which (for white Ranthoroughly on both sides, rinse carefully. shake and dry in the air, not in the sur.
White silk blouses, ties aand handlerWhite silk blouses, ties and hander
chiefs are all washod in the same wav
First First steep them in cold water with a
Mittle borax added, wash in a lather of
信 warm water and dissolved soap, rinse
well, pass through slightly blued water,
fold In a clean cloth, pass through the
(ARCH 4, 1909
 added to the last rinsing water
ading ives a desirable gloss. A dessertspoonful to a pint of water is ample. For
colored silk do not steep it in borax colored or pass it through blued water.
water or
If you fear the color will run, steep it in salt and water for a short time, but be careful to rinse all the salt out befor
washing.-Winnipeg Farmer's Advocate.

Some Meat Recipes With the advent of winter, the season
when meat is especially relished, and
especially necessary to maintain the heat especially necessary to maintain boge a fints in regard to
of the body.
meat and its preparation for food may meat and out prace. Examine a piece of meat and you will find it made up of
stringy abres, really tubes, whose walls stringy Sbres, really tubes, whose walls
are made of an albuminous substance, are made of an albuminous substance,
while the connective tissue joining them
is composed of a gelatinous substance, is composed of a gelatinous substance,
"collagin." with a certain amount of "collagin," with a certain amount
lat, especially abundant in "fat" boef o lat, especially abundant and goose. Mea
mutton, pork, duck, and
contalning a large percentage of foil (with the curious exception of bacon),
less digestlule than that which is lea "young" meat is less nutritious than that Which is older. Meat should never be used too soon
atter an animel is killed. When "hung" After an animel is killed. When hung
it frat stifinens, then develops an acid which sottens it as well as improves its
flavor. It should never be cooked until this stage is reached. If, however, it
still remains tough, some improvement may be made by sooking it in vinegar may water for a while.
The effect of cooking upon meat is (1) The effect of coorking upon meat is (o)
to loosen the fibres, (2) to remove some 6bres, (3) to diminish the amount of water, even when meat is boiled. This
last fact shows that cooked meat is more last fact shows that cooked meat is mor
nutritious than rew, although leas easy
Lightly cooked meats are to digest. Lightly cooked meats are,
indeod, always more easy of digestion than well-cooked meats, hence rare beef is better so far as digestion is concernern down
while perfectly raw beef, scraped dome and seasoned, then made into sandwiches,
is often used in the hospitals for patients with week stomachs. Beel is, however, among the most easily digested of meats-
indeed, of foods. Veal, fat mutton, and pork-all of which, by the way, seem to
need thorough cooking in order to doneed thorough cooking in order harder
velop the proper favor-are much of digestion. The fat of bacon, which is granular of form, is, when well cooked,
exceedingly easy of digestion, as well as very nourishing. Lean poultry are also
grood, but fat poultry can scarcely be
Heart. recommended for the dyspeptic. Heart,
owing to its dense structure, is not very digestible; neither is liver, which, how-
ever, is rendered better by mincing. Sweetbread and tripe are very digastible, ur tables than they are.
Before passing on to the preparation of meats. it may be added (1) that neats (especially good beef) are very thor
oughly absorbed into the system; (2) they exercise a stimulating effect; (3) they help
co build up the feesh and muscle of the Dody; (4) they produce warmk.
energy, and the capacity for work. It may be said also that the cheaper
cuts of meat are quite as nutritious as
cut oearer, although not so tender or of so the dearer, although not so tender or or so
good a favor. By care in cooking, how.
ever, they may be made very appetizing. ever, they may be made very appetizing
Beet teas and beef extracts are, how ever, of very little value as food. They
are made chielly of blood, which contains a very small proportion of nutritivg ma
terial, and are chiefly of use in meat be terial, and are chientroctives which give
cause of certain extrat

$$
\begin{aligned}
& \text { PREPARATION OF MEAT. } \\
& \text { Roasts.-Sear the outside very quickly }
\end{aligned}
$$ Roasts.-Sear the outside very quickl

to form a coating, which will retain the the to form a coating, which will retain Th
juices, then cook more slowly. Th
tearing may be done either on a ho greased pan or pot on top of the ut ve or else by putting the roast inc and when the searing has been accomplishe Boils.-Plunge into boilling water harden the outside, then several hours, de Dinding on size of the boil.
steaks.-Sear quickly all over the outside, then cook very quickly, buyt right
thoroughly. Steak cooked just rent ittle pink at the
 a little browned flour, it will be foun very tender and appetizing.
Stews.-Cut meat into sma Stews.-Cut meat into small bits, cover
with cold water and simmer from two to
six hours. Vegetables and thickening with cold water and simmer from Vegetables and thickening
should be added to taste. should be added to taste.
INote- Where the word "simmer" is
ised, simmer is meant-not boil. Boilused, simmer is meant-not boil. Boil-
ing, is absolute ruination to stews or hoiled meats.]
Hamburg Steak.-Chop fine $1 \pm$ lbs. raw lresh meat (the "poorer" cuts will do),
add 2 cups bread soaked in milk, 1 small add 2 cups bread soaked in mer, to taste,
minced onion, salt and pepper
and 2 oggs. Make into cakes and try and 2 eggs. Make into cakes and fry,
or cover with a sauce made of canned or cover with a sauce made of canned
tomatoes and bake.
Beef Hash.-Mince raw or cooked meat as above. Mix with twice the quantity of cold mashed potatoes. Put a table
spoon of butter in a frying pan, turn in spoon of butter in a frying pan, turn in
the hash, which has been seasoned well with pepper, salt and minced onion,
moisten well with water or moisten well with water or beel gravy,
and steam or heat through thoroughly, and steam or heat through thoroughly,
stirring often enough to keep it from stirring orten enough and
sticking, and adding more water, if neces-
sary. It should be neither watery nor sary. It should be neither watery nor
dry. Shepherd's Pie.-Chop fine raw or
cooked beef, cover with water, season, adding a fow cloves and a bit of butter,
and simmer until tender; then thicken and simmer until tender; then thicken

slightly with flour, cover with potatoes slightly with flour, cover with potatoes | tle milk, and bake. Brush over with |
| :--- |
| beaten egg to make it get brown. This | beaten egg to make it get brown. This

is a delicious dish, which may be varied by adding tomato catsup. curry, or Worcester sauce to the meat. Beof Liver Stew.-Cut 1 lb . liver into
2 -inch cubes, put them in a stowpan and add enough water to keep the liver from burning. Cover tightly and stew gently
 with butter, salt and pepper, thicken a with butter, salt and pepper, the liver becomes very tender with the slow stewing.
Beef
Sa Beef Sausage Pats.-Chop 1d lbs. raw
beef and $\$ 1 \mathrm{lb}$. beef suet very fine. Add it pint cold water, salt, cayenne and sago o flavor, and mix well. Make into pats,
dredge with flour and fry. dredge with flour and rry.
Heart.-Fill the heart well-seasoned stufing, fasten the top well and stand the heart in a small kettle. Fill
half full of water and simmer gently for half full of water and simmer gently for
1 hours, covering tightly. Place in a
baking pan onion, 1 small carrot, 1 baking pan 1 onion, 1 small carrot, 1
sprig sprigg parsley, all chopped fine. Lift the
heart from the kettle, dredge with flour, salt and pepper, lay it in the baking pan, adding the water in which it was boiled, lay on top of the meat a thin slice on.
suet, and bake 1 hour, basting often. Finally thi
the meat.
The Infants' Food Question. Do you know it?-there are just two dozen more letters on my desk about
feeding those blessed babies ! We thank feeding those
the writers heartily, but, as I said bethe writers heartiy.
fore, I think it better hold over theee
letters for a time, when, if pronounced all right by a specialist, some of them, at loast, will pe published. her hoter in
one will mind not seing
print. We cannot take up too much print. We cannot take up too muck
space, even for a good thing, you know, space, even for a good thing, you know
and anyway I was afraid to hand out any more methods to be tried on that poor baby. You see, I reasoned it all
out this way: That babies aren't so diflerent from grown folk altor
all, and that, perhaps, what might be good for one baby, might be very bad for another. I do think that any mother
with a weak, sickly child, should see her with a weak, sickly child, should see her
doctor about it. It stands to reason, doctor about it. It stands and and in-
that only personal examination and quiry into all the circumstances, can give
right diagnosis of the trouble, and a right diagnosis of the trouble,
babies are too precious to be experimentbabies are too precious already published,
ed on. food formalas alted
The are, I believe, just preparations intended to be wholesome for normal babies, with-
out any organic trouble. If there is the leat any organic of any symptoms which
least suspicion understand. I beg of youl
you do not unt you do not understand, I beg of you
mothers, to get professional advice. do not know much about babies, but
can guess that pains in a little one
."t

Remnants Made Beautiful With DIAMOND DYES
Haven't you sometimes had a few yards left over after making a dress ? Haven't you sometimes had a unusual barg
Haven't you sometimes seen an un
that you could use if it was a color you liked?

That is a time to remember Diamond Dyes.
You can transform a remnant to almost any beautiful shade you may desire. It is the same way with the remnants of ribbons, or
oted ribbons. Diamond Dyes will make them new again. that can not be There is hardly a thing that your have usader
made brigh and new again with wooderful Dimond Dyes.


I just can't thank you enough for Diamond Dyes. I bought a remnant for $\$ 1.50$ - it was worth far more, but was an ugly, unsalable color. 10 cents more on dye, and made it into a beautiful piece of dress, gast, Ont.號 Why don't you, too, begin
There are 15 ways-read them

Fifteen Ways to Use Diamond Dyes
L. For chanoing the color of silk stuff 8. For malking children's berietificul For match any paltern., 2. For making new dresses out of different pieces of old goods by
dyeing them all the same color. 3. For makeing over old curtains or
tapestries that have become tapestries that have become
stained or dirty. 4. For renewing chairs and For staining wickerwork in solid 6. For malking an old soiled cloak look like ney
new color.
7. To assist in malking crazy quilth, or any other fancywork, by dyeing
a number of small pieces in dif ferent bright colors.
Important Facts About Goods to be Dyed
Diamond Dyes are the standard of the world, and always give perfect results. You must be sure that you get the real Diamond

Beware of imitations of Diamond Dyee. Imitators who malke ooly one find of dye claim that their imitations wrill color wool, silk or cotton ("all fatrics") equally zvell. This ciaimis al fibres can be used as successtully for dyelag cotton on wool, silk or other animal . For chis reason we make two linds of D
linen or other vegetable fibres. Hinen or orther vegetabe
Dyes, namely: Diamond Dyes for Wool, and Diamond Dyes for Cotton. Diamond Dyes for Wool cannot be used for coloring cotton, linen or
mixed goods, but are especially adapted for wool, silk, or other animal fibres mixed goods, but are especialy.
which take up the dye quickly.
which take up the dye quickly.
Diamond Dyes for Cotton are especially adapted for cotton, linen, or other vegetable fibres, which take up the dye slowly.
" Mixed Goods," also known as "Union Goods," are made chiefly of "Mixed Goods," also known as fibres. For this reason our Diamond either cotton, linen, or other vegetable ifibes. For this
Dyes for Cotton are the best dyes made for these goods.

Dlamond Dye Annual - Free Send un your name and addreses (be aure


WELLS \& RICHARDSON CO., LTD. 200 MOUNTAIN ST., MONTREAL, P. Q.

the world, parents have a right to see
hat it gets a healthy and comfortable that it gets a healthy and comfortable
start in life.
And, now, what about switching off on
 oo some other subiect in regard to chil- Bread-crust and Dry Bread.-Old bread
dren-I am sure there are many impor- may be made into various bread pud-dren-1 am sure there are many impor- may be made an ordinary bread pulding
tant enough to bear a good deal of talk. dings. Make an or
What about training the little tots? and disguise : (1) By adding molasses What about training the little tots? and disguise: (1) By adding mol
Have you any ideas on how to make ginger, and fruit, before baking. them obedient without crushing their By adding grated rind of a fresh lemon
personality and resolving them into little for flavoring. (3) Bake the ordinary automatons, obedient only through fear? pudding, to which the yolks of the egg What steps do you take to lead them to only have been added; made on top of
have pretty manners? What steps to thin lemon-juice sauce, made help the development of their intellect suggest themselves. Would you not hike to laik-or ask
questions-on some of them It seems
to me you mothers might help one anof ideas and experiences.

Orange Marmalad
Slice two dozen unpeeled oranges and
Memove the seeds. Mix with them two emons, also sliced thin. Measure the
lemice, and add
ind three quarts liquid. Put all into a crock
or granite kette and leave in a cool
place all night. Next day bring slowly orace all night. Next day bring slowly
po the boiling point, then simmer until the boiling point, then simmer until over the top with egg or butter to
brown. pound of sugar for every pint of juice, "The Farmer's Advocate." and boil until the skin looks clear. Re- Pie.-Chop the meat and simmer with
move from the fire, and, when cool, turn chopped vegetables and water. Thicken
into into jelly glasses, covering each with a the gravy a little, season, then put goo
little melted paraffine. If preferred, the pastry over the top and bake. (4) Mix lemons may be omitted, and part bitter.
part sweet oranges used; or all the or-
anges may be bitter. February and
March are the best months in which to Karch are the best mon
make orange marmalade.
Removing Oil of Smoke-Raisin Dear Dame Durden,-I would be very much pleased if you would kindly let me
know, through your valuable paper, what would remove the oil of smoke from mus-
lin and linen goods. A recipe which might be useful.-Raisin sugar together, add 2 well-beaten eggs, 1
cup milk, 3 teaspoons baking powder, sifted in two cups flour, and one cup
raisins, chopped fine and dredged. Steam in small cups.
I have just telephoned the in the city in rogard to this question.
He says that thorough washing, with as
strong a soap as you can get, should re-
move the oil of smoke, if pure. If

## b

## The Golden Dog

A Canadlan Historical Romance.

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CHAPTER IX.-Continued
"Or foolish thoughts into their
hearts, Jean!." replied she, laugh-
". And nothing more natural, Ba- bet, if women's hearts are wise ioolish thoughts of them. But there the gentleman? Your eyes are better than mine, Babet!"'
" Of course, Jean ! that is what I always tell you, but you won't beheve me-trust my eyes, and doubt,
your own! The other gentleman," said she, looking fixedly, while her knitting lay still in her lap, " the pentigny. What brings him back be ore the rest of the hunting party, I That officer must have been to young seigneur back to town," rethread of smoke from his lips.
"/ Well, it must be something better than smoke, Jean! - Babet
coughed ; she never liked the pipe" The young chevalier is always one of the last to give up when they
have one of their three-days' drinking bouts up at the Chateau. He the pity! Such a nice, handsome "A All lies and calumny !", replied Jean, in a heat. " Le Gardeur de
Repentigny is the son of my dear old seigneur. He may get drunk, but it will be like a gentleman if he does,
and not like a carter, Babet, or like '" Boatman! Jean; but I don't include you-you have never been the
worse for drinking water since I took worse ir drinking water sin!" of yourself for me, Babet ! Two bright eyes like yours, a pipe and
bitters, with grace before meat, bitters, with grace before meat,
would save any Christian man in the
world," world." $\begin{aligned} & \text { Jean stood up, politely } \\ & \text { doffing his red tuque to the gentle- }\end{aligned}$ doffing his red tuque to the gentle-
men. Le Gardeur stooped from his men. Le Gardeur stooped from his had been an old servitor at Tilly, and the young seigneur was too
noble-minded and polite to omit a
kindly notice of his acquaintance.
.. Had a busy day, Jean, with the
old ferry ?" asked Le Gardeur', cheerily.
" No, your Honor, but yesterday 1
think half the countryside crossed over to the city on the King's cor-
vee. The men went to work, and
the women followed to look after prov, ha! ha !'" Jean winked
prover " And why should not the women
after the men ? trow men go aiter the men? I trow men
are not so plentiful in New France
as they used to be before this weary war began. It well behooves the
women to take good care of all that ". That is true as the Sunday ser-
mon," remarked Jean. "Why, it was only the other day I heard that
great foreign gentleman, who is the
cuest great foreign gentleman, who is the
guest of His Excellency the Gover-
nor, Say, sitting in this wery boat that there are at this time four woIf that is true. Mabet-and you know
he said it, for youn he said it, for you were angry enough

- a man is a prize indeed, in New
France, and wommen are plenty as cggs at Easter !"'
The foreign gentleman had much
accurance assurance to say it, even if it wurh
true: he were much better employed true; he were much better employed
nicking up weeds and putting them
in his book ". prelaimed


## Let us send you a Peerless Incubator and Brooder to-day and start you on the right road to profitable poultry raising

YOU can make more money out of poultry for the time, attention and investment it requires, than any other department of your farm will produce. The money is there. Others are getting it and you can get your share. But you must go about it the right way. Anyone who is making money out of poultry to-day will tell you, that to be successful you must use an Incubator. All you have to do is get the facts and decide which incubator will give you the best results.
Now we have studied poultry conditions in Canada very closely -have been doing so for years. We have been raising poultry for years on our farm-the Poultry Yards of Canada Limited at Pembroke and making good money out of it. It was raising poultry on this farm, looking for every means to make it more sucpoultry on cessful, more profitable, that induced us to make a thorough study of artificial incubation, and failing to find any other make of Incubator coming up to the standard of success that we were looking for bar the Peerless Incubator out of the knowledge and ex we produced perience which actual poultry-raising la la the we have tested proved to be the most successtul of all The Peerless is the only incubator used on our farm. If there was a better one made any place in the world we would use it-for our object is to make the biggest possible profits out of poultry
It stands to reason that the Peerless Incubator must be the most successful in Canada. It is the only one that is made in Canada to suit Canadian conditions and as the direct retalts of experience in poultry raising in Canada.
The Peerless Incubator has been thoroughly tested in all parts f Canada under all prevailing climatic conditions. In every case it has proven the most successful.
We have thousands of letters from all over Canada telling of We have curtors are having with the Peerless Incuthe sury likely some of these letters come from your bator. Very neighbors. Wuit to suit Canadian applies to the Peerless Brooder. conditions and has proved itself to be the best brooder for use in Canada.
Right in your district money is being made out of raising poultry the Peerless way-you can make it too. Write for our book "When Poultry Pays." It tells the whole story. Sit down now, while you are thinking of it, and write for this free book.


We are honestly interested in the success of every purchaser of a Peerless Outfit. We want to help him in every way make a Pery cent he can out of poultry. For this reason we have Prontess Poultry-for-profit Club. Every user of a formed the is entitled to the free advice and help of the Peerless Outhit is ent Poultry Yards of Canada Limited, experts on the farm of the Poun Yattening, laying No matter what problem comes up-hatching, fattening, laying more eggs-just write us and the return mail will bring you full instructions. If you cannot get all the profit you think you are entitled to, just write us and we'll put you in touch

## \$510 in Cash Prizes for the most successful poultry raisers-

We are thoroughly interested in the poultry industry of Canada. We want to see it become much bigger and more profitable. We want to see Canadian poultry raisers take more interest in their work and become more proficient in the operating of incubators. We know that if we can create a competitive feeling Wong poultry raisers we will have done much for the industry in Canada. For these reasons we offer $\$ 510$ industry in the poultry raisers who are most in cash prizes The prizes are divided as follows:-

## First Prize

$\$ 100.00$
Second Prize 50.00

Third Prize
25.00

Ten prizes $\$ 10$ each 100.00

Twenty prizes $\$ 5$ each 100.00

Twenty prizes $\$ 3$ each
Twenty-five prizes $\$ 2$ each 50.00 Twenty-five prizes $\$ 1$ each, 25.00

The competition is open to every owner of a Peerless Incubator. Professor A. G. Gilbert, Chief of the Government Poultry Department at Ottawa, has kindly consented to act as judge.
The names of the winners will be published in this journal after the wards are made. Write to-day for full particulars.

We are helping lots of Peerless users to make big money nowwe can help you do it, too. Write us to-day for particulars. rith buyers who will pay the very highest market prices.

350
THE FARMER'S ADVOCATE

## Welded Pipe

 Sectionsand Better Galvanizing "Frost" Gates imitated modern galvanizing plant for
conting the frames of all plain and fancy gates. Thus, wo are able to give "Frost" Gates a more permanent, finish than throtr imitations. The pipp

 allieg up the pores and stives an oven, smooth and ed

## (

Furthermore, "Frost" Gates have the distinction of beling the first in which the frame "Frost" not weakened by having the "thread" cut half way into the pipe in order to join it to the coupling. No "threaded" ends-no coup-lings-in "Frost" Gates. Instead, the pipe sections are WELDED together,
making the part that was heretofore the weakest now the thickest and making the part that was heretofore the weakest now the thickest and
heaviest. And by welding, the tubing is made continuous-the gates are free from unsightly couplings. When ordering, don't just ask for a metal gate. Specify a "Frost" Galthe more handsome and permanent anlsh.
There is a hustling dealer in your neighborhood who makes a business of
upplying "Frost Gates and bullding "Frost" Fences. if he is not known to
FROST WIRE FENCE CO., LIMTTED, HAMILTON, ONTARIO. manttoba frost wire fence co., lmated, winnipeg, man.

# で rrost Gates 

Come! come!, cried Le Garpopulation: ". Providence knows the worth of Canadian women, and cannot give us too many of them. We are in a hurry to get to the city, and Amelie are in the old home in the city; they will be glad to see the city; they will be glad to see
you and Babet," added he, kindly.
as he got into the boat. as he got into the boat.
Babet dropped her neatest courtesy, Babet dropped her neatest courtesy, pushed off his boat, bearing the two gentlemen and their horses across
the broad St. Charles to the King's the broad St. Charles to the King's
Quay, where they remounted, and, Quay, where they remounted, riding past the huge palace of the Intendant, dashed up the steep Cote au Chien and through the city gate, disappearing from the eyes of Babet,
who looked very admiringly after who looked very admiringly arter commendatory of the handsome offfcer
in full uniform who had been so poin full uniform who had been so
lite and generous in the morning. " I was afraid, Jean, you were going to blurt out about Mademoiselle des Meloises," remarked Babet to
Jean on his return ; " men are so indiscreet always!
"et Leaky boats! leaky boats ! Babet! no rowing them with a
woman aboard! sure to run on the woman aboard ! sure about Mademoibank. But what about Mademoipassed her over the ferry an hour
ago, and been sorely tempted to inago, and been sorely tempted to in-
form Le Gardeur of the interesting fact. What about Mademoiselle des Meloises q" Babet spoke rather sharp-
"Why, all Quebec knows that the Seigneur de Repentigny is mad in love with her.'
"And why should he not be mad
in love with her if he likes?" replied Jean ; "she is a morsel fit for a king, and if Le Gardeur should lose
both his heart and his wits on her both his heart and his wits on her
account, it is only what half the gallants of Quebec have done.' see you hean, Jean! it is plain as well as a soft place! ", ejaculated Babet, recommencing her knitting with fresh vigor, and working off the "I I had two was stirring in her. I chose you. Babet, and the soft rlace was in my heart !", replied
Jean, heartily. The compliment was taken with a smile, as it deserved to
be. "Look mon. Balot. I would be. "Look sou. Thatet. I, "ould
not give this ninch of snuff said
Tean, raising his thumb and two

## PURITY FLOUR

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COME people find it necessary to buy a considerable quantity of flour at one time-sufficient to last for a long period. Naturally they are anxious to procure a flour of the kind best adapted to lengthy storage

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 Thats "Purity",
"Purity" flour may cost a little more, but is more than worth the difference. Try it. Watch results both for quality and yield.
"More Bread and better Bread"
Western Canada Flour Milis Co., Lumtted
Mills at Winnipeg, Goderich, Brandon

## CRIF C Sample o Asbestos Bookabout Roofing


J-M ASBESTOS ROOFING

## 



pungent dust-". I would not pinch of snuff for any, young fellow who could be indifierent to the
charms of such a pretty lass as An gelique des Meloises.
the Seil, I am glad you did not tell the Seigneur de Repentigny that sho
had crossed the ferry and gone-not to look for him, I'll be bound I will tell you something by and by,
Jean, if you will come in and eat Jean, if you will come in and eat
your dinner ; I have something you like." "What is it, Babet ?" Jean was after all, more
dinner than about the fair lady hi dinner 'Oh, something you like-that is a wife's secret: keep the stomach of a man warm, and his heart will never
grow cold. What say you to fried grow ?"
eels " Bravo !", cried the gay old boatman, as he sang
"'Ah! ah! ah! frit a l'huile,
Frit au beurre et a l'ognon !'
and the jolly couple danced inte their little cottage-no king and queen in Christendom half so happy as they.

> CHAPTER X.

Amelie de Repentigny.
The town house of the Lady de
Tilly stood on the upper part of the Place d'Armes, a broad, roughlyPlace square. The Chateau of St.
paved squis, with its massive buildings and
Loun Louis, with its massive buildings and high, peaked roofs, filled one side of
the square. On the other side, emthe square. escaped the axe of Champlain's
hardy followers, stood the old-fashhardy followers, stood the old-fash-
ioned Monastery of the Recollets, with its high belfry and broad, shady porch, where the monks in gray gowns and sandals sat in summer,
reading their beviaries or exchanging reading their beviaries or exchanging
salutations with the passers-by, who always had a kind greeting for the brothers of St. Francis.
The mansion of the Lady de Tlly as became the rank and wealth of the as became the rank and wealth of the
Seigneurs de Tilly. It overlooked the Place d'Armes and the noble gar-
dens of the Chateau of St. Louls, dens of the Chateau of
with a magnificent sweep of the St. Lawrence, flowing majestically under the fortress-crowned cape and the
high, wooded hills of Lauzon, the high, wooded hills of Lauzon, the
farther side of the river closing the view.
In the recess of an ornate mullioned window, half concealed by the rich, heavy curtains of a nat alone-
Amelie de Repentigny sat very quiet in look and demeanor, but
no little agitated in mind, as might no little agitated in mind, as might her hands, which lay in her lap, clasping each other very hard, as if trying to steady her thoughts.
Iler aunt was receiving some lady Her aunt was receiving some lady
visitors in the great drawing-room. The hum of loud feminine voices reached the ear of Amelie, but she
paid no attention, so alsorbed was paid no attention, so absorbed was
she in the new and strange thoughts She in the new and strange tho since
that had stirred in her mind
morning, when she had learned from morning, when she had learned rrom
the Chevalier La Corne of the return
to New France of Pierre Philibert. to New France of Pierre Philibert.
The news had surprised her to a de-
gree she could not account for. Her gree she could not account for. Her
first thought was, how fortunate for her brother that Pierre had returned;
her second, how agreeable to herwhy; she wilfully drew an inference away from the truth that lay in her
heart-it was wholly for the sake of heart-it was wholly for the sake of
her brother she rejoiced in the return of his friend and preserver. Her
heart beat a little faster than usual -that was the result of her long
walk and disappointment at not wal and disappointment at arrival yesterday. But she feared to ex-
plore her thoughts. a rigid self-explore her thoughts; a rigid self-ex-
amination might discover what she amination might discover what she
instinctively felt was deeply concealed there.
A subtile, indefinable prevision had
suggested to her that Colonel Philisuggested to her that Colonel Phili-
bert would not have failed to meet bert would not have failed to meet
Le Gardeur at Beaumanoir, and that
he would undoubtedly he would undoubtedly accompany her
brother on his return, and call to brother on his return, and call to
pay his respects to the Tady de Tilly

MARCE 4, 1909
THE FARMER'S ADVOCATE
and-to herself. She folt her cheek
 as she called it. She tried to call upon har pride, but that came very
tangardly to the relief of her discom posure. posure.
Her interview, too, with Anglique des Meloises had caused The bold avowals of An-
disquiet. with reference to the Intendisquiet. The reference to the Inten-
gelique with refene gelique whocked Amelie. She knew
dant had shock
that her brother had given more of that her brother had given more of his thoughts to thas ood for his peace, less giri than
should her a
to his love.
The fond sister sighed deeply when she reflected that the woman who had
power to make prize of Le Gardeur's power to make prize of Le
love was not worthy of him.
It is no rare thing for loving sis-
ters who have to resign their brothters who have to resign their bras so. But Amelie knew that Angelique des Meloises was incapable of that true
ove which only finds its own in the happiness of another. She was vain, solfish, ambilious, and-what Amelie
did not yet know-possessed of neither scruple nor delicacy in attaining her objects. It had chimed the hour of noon upAmelie still sat looking wistfully over the great
d'Armes, and $\begin{gathered}\text { square of the Place } \\ \text { curiously }\end{gathered}$ every horseman that rode across it. A throng or passed in and out of the
square, or
great arched gateway of the Castle great arched gateway of the Castle
of St. Louis. A bright shield, bear ing the crown and fleur-de-lis, sur-
mounted the gate, and under it mounted with military pace, a couple of sentries, their muskets and bay
onets flashing out in the sun every onets flashing out in the sun every beat. Occasionally there was a
ruffle of drums; the whole guard turned out and presented, or eccle siastical dignitary, passed through to pay his respects to the Governor
or transact business at the vice-rega
with chapeaux and swords, carrying
cloak on their shoulders ; ladies it visiting dross; habitans and thei in uniform, and black-gowned clergy, mingled in a moving picture of cts
life, which, had not Amelie's thoughts been so preoccupied to-day, would
have afforded her great delight to The Lady de Tilly had rather wearied of the risit of the two ladie
of the city, Madame de Grandmaison ad Madam Couillard, who had
pored her with all the current gossip of the day. They were rich and lashionable, perfect in etiquette, cos-
tume. and most particular in their ociety; but the rank and position
of the noble Lady de Tilly made her friendship most desirable, as it conpatent of gentility which held good
against every pretension to overtop The stream of city talk from the
ips of the two ladies had the merit of being perfect of its kind-softly
insinuating and sweetly censorious, superiative in eurogy and infallible in opinion. The good visitors most
conscientiously discharged what they
deemed deemed a grat moral and social
duty by enlightening the Lady de Tilly on all the recent lapses and se-
crets of the capital. They slid over
slippery slippery topics like skaters on thin
ice, filling their listener with anxiety lest they should break through.
But Madame de Crandmaison and her companion were or gossip to overbal-
the gymnastics of gose Half Quebec was
ance themselves. He of an hour. Lady de Tilly listened with grow ing impatience to their frivolities,
but she knew society too well to quarrel with its follies when she con
of no service to do so ; she
tented herself with hoping it was no so bad. The Pope was not Catholi enough to suit some people, but, for
her part, she had generally found
peonle heitor than thev were called

A rather loud but well-bred exroused Amelie from her day-dream. " Not going to the Intendant's ball neither you nor Mademoiselle de Re pentigns, whom we are so sorry not to have seen to-day? Why, it is to
be the most magnificent affair ever got up in New France. All Quebed has rung with nothing else for a fortnight, and every milliner and modiste
in the city has gone almost insane over the superlative costumes to be worn there.'
"/ And it
" And it is to be the most select in its character," chimed in Madame
Couillard ; "all gentry and noblesse, not one of the bourgeois to be in vited. That class, especially the fe-
male portion of them, give themselves male portion of them, give themselve
such airs nowadays! As if their money made them company for
people of quality ! They must be kept down, I say, or-"" "And the Royal Intendant quite the higher circles," responded Madame de Grandmaison.
keeping down-",
" Noblesse! Noblesse !" The Lady de Tilly spoke with visible impa-
tience. tendant who dares cast a slight upon the worthy, houest bourgeoisie of this city? Is he noworse of him were he not, but I have heard it disputed. He is the last one who
should venture to scorn the bourshould venture to scorn the bour
geoisie."
Madame de Grandmaison fanned herself in a very stately manner. "Oh, my Lady, you surely forget relative of the Count de Marville, a constant visitor at the Intendant's But he would not have sat at his thate an hour had connected with the nobility. The Count de Marville-" rupted the Lady de Tilly, whose politeness almost gave way. -" Truly, a man is known beeps. No credit to any one to be connected with the Count de MarMadame de Grandmaison felt rather subdued. She perceived that the pressed towards the Intendant. But ohe tried again: "And then, my
Lady, the Intendant is to powerful at Court. He was a particular friend of Madame d'Etioles before she was known at Court, and they say
he managed her introduction to the he managed her introduction ball at the Hotel de Ville, when His Majesty she became first dame du palais and she became first dame the Marquise de Pompadour. She has ever remained his firm friend, and, in spite of all his enemies could do to
prevent it, His Majesty made him Intendant of New France. could do, you mean," replied the of which caught the ear of Amelie, and she knew her aunt was losing
patience with her visitors. Lady de Tilly heard the name of the royal mistress with intense disgust, but her innate loyalty prevented her
speaking disparagingly of the King "We will not discuss the Court,"
said she, " nor the friendships of this Intendant. I can only pray his future may make amends for his past.
I trust New France may not have as much reason as poor lost Acadia to lament the day of his coming to
the Colonies." the Colonies.
The two lady visitors were not ob-
tuse. They saw they had roused the
susceptibilities-prejudices they called susceptibilities-prejudices they called
them-of the Lady de Tilly, They rose, and smothering their disap
pointment under well-bred phrases, pointment under we most polite leave of the dignified old lady, who was heartily glan
to be rid of them. "' The disagreable old thing-to Madame Couillard, spitefully, "when
her own nephew, and heir in the her own nephew, and heir in the
Seigniory of Tilly, is the Intendant's prou
firmest friend and closest compan-
ion. Yes, she forgot about her own house; people always forget to look
at home when they pass judgment upon their neighbors,"
Madame de Grandmaison.
replied
But am mistaken if she will be able to im press Le Gardeur de Repentigny with
her uncharitable and unfashionable opinions of the Intendant. I hope
the ball will be the greatest social the ball will be the greatest social
success ever seen in the city, just to
vex her vex her and her niece, who is as
proud and particular as she is her-

Amelie de Repentigny had dressed herself to-day in a robe of soft muslin of Deccan, the gift of a relative
in Pondicherry.
lt enveloped her
 exquisite form, wise and lissomeness of her
the grace movements. A broad blue ribbon
round her waist, and in her dark round her waist, and in her dark
hair $a$ blue flower, were all her ador a blue flower, a chain and cross of gold, which lay upon her
bosom, the rich gift of her brother, bosom, the rich gift of her brother,
and often kissed with a silent prayer for his welfare and happiness. More than once, under the influence of some indefinable impulse, she rose
and went to the mirror, comparing her features now with a portrait of herself taken as a young girl in the garb of a shepherdess of Provence.
Her father used to like that picture Her father used to like that picture
of her, and to please him she often wore her hair in the fashion of Provonce. She did so to-day. Why?
The subtile thought in many ProThe subtile thought in many Protean shapes played before her fancy,
but she would not try to catch. itno! rather shyly avoided its examination.
She was quite restless, and sat down again in the deep recess, of
the window, watching the Place d'Armes for the appearance of her
brother. brother.
She ga
She gave a sudden start at last,
as a couple of officers galloped into as a couple of officers galloped into great gate of the Chateau; one of
them she instantly recognized as her them she instantly recoguized as her
brother; the other, a tall martial figure, in full uniform, upon a fiery gray, she did not recognize, but she
knew in her heart it could be no other than Colonel Philibert. painful Amelie felt a thrith, almost painful as she sat watching the gateway
they had entered. It was even they had entered. It was even
momentary relief to her that they momentary rellef to her chat there, instead of riding directly to the house. It gave
her time to colloct her thoughts and her time to colloct her thoughts and
summon all her fortitude for the summon all her fortitude for wan-
coming interview. Her fingers wat coming down to the rosary in the
dolds of her dress, and the golden folds of her dress, and the golden
bead, which had so often prompted bead, praver for the happiness of Pierre Philibert, seemed to burn to the touch. Her cheek crimsoned, for
a strange thought suddenly intruded a strange thought suddent, whose im-
-the boy Pierre Philibert, age and memory she had so long and innocently cherished, was now a man, a soldier, amps ! How unmaidenly she had acted, forgetting all this in her childish prayers until this moment ! " " I mean no harm," was all
the defence she could think of. Nor the defence she could think or. Nor
had she time to think more of herself, for, after remaining ten minutes in the Chateau, just long enough to
see the Governor and deliver the ansee the Governor andant to his message, the gray charger emerged from the gate. His rider was accompanied by her brother and the wellCorne St. Luc, who rode up the hill, and in a minute or two dismounted Lady de Tilly.
The fabled lynx, whose eye peneThe fabled very earth to discover
trates the very, did not cast a keener and more inquisitive glance than
that which Amelie, shrouded behind that which Amelie, shrouded behind window at the tall, manly figure and handsome countenance of him whom she knew to be Pierre Philibert. Let
it not detract from her that she gave way to an irresistible impulse gave way to an irresistible impulse
of womanly curiosity. The Queen of

On Choosing WallPapers for Cheerful Effect

MANY good People Elect Wall
 becuase such are their favorites or
favorites of ind
tividual members of tho familye lose lose sight of the fact that Wall-coering shonld be eelecteded solel
 Many ${ }^{\text {a }}$ Wall-paper that promised
well in the mil and was purchased oo will in tin rob beom what horrur to the


No influence upon life is so potent as harmonious surroundings." "The paper of a room in which we uive has a silent but irresistible influence upon und, -three:fourth of mhat meetsy
 To That wall-pper therefore guppliee to the room its atmospherof Cherlul
nees and Restrinuess, or of Depression neme and fititility.
 ciatoin with elamoroun color, gitad dry onament inither wooll from from it dontin and pife.







Analysis and Tests. France would, under the same temp- Among the many high-class roofngs now Amalysis, Analysis, if properly mader. will show and perhaps without feeling halr the ingredients cannot be separated by an- A glance sufficed-but a glance that
alysis. So $_{\text {far' as Herbageum is con- }}$ impressed upon her mind forever the
 the aromatic qualities of Herbageum that Pierre Philibert the man, who came to thoroughly digest and assimilate the friend of Le Gardeur and of herself. ordinary food, so that there is no waste
of food value. Herbageum doos this, but of food value. Herbageum does this, but
analysis does not show these aromatic analysis does not show these aromatic
qualities, or how herbageum does the Work. A practical test of Herbageum
proves its value. Make
a test now by



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tralNs
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 Subscribe for "Farmer's Advocate"
 tised in this issue by H. W. Johns-Man-
ville ving of all kinds, the manufacturers claim
that that it is the "cheapest-per-year" roofing years led them to select asbestos as the
yerty proper material for the production of an
ideal roof-covering.
Being both fire and water proot, and so very durable,
mand, do doubt, will increase.
STEEL SHOES FOR FARMERS.-
Thousands of farmers have discontinued Thousands of farmers have discontinued
the use of all-leather work shoes and are the use of all-leather work shoes and are
now wearing Steel Shoes, which have now wearing Steel Shoes, which have
been made with the object of thorough been made with the object of thorough
protection for the feet of those who are obliged to work in the mud and slush
The whole idea of inventors, up to re cently, has been to increase the farmers
harvest of dollars. Now comes the Steel harvest of dollars. Now comes the Stee
Sheosigned to fiford foot comfort an Shoe-designed to afford foot comfort and
protect the health of the farmer himself protect the health of the farmer himsel
The farmer undergoes much discomfort and often suffers from colds and rheumatism as the result of working long
hours, in wet and cold, with inadequate hours, in wet and Steel Shoes have an
foot protoction. Ster
absolutely rigid sole, which forces the leather to keep its shape. This extends
an inch above the bottoms all around
the shoe. The bottoms are studded with an inch above the bottoms all around
the shoe. The bottoms are studded with
adjustable steel rivets, which can be re adjustable steel rivets, which can be re-
placed as fast as they wear out. No placed as fast as they wear out. No
other repairs are ever necessary. It is
ore other repairs are ever necessary.
claimed that one pair of Steel Shoes will
outlast three to six pairs of all-leather outlast three to six pairs of all-leather
shoes. Yet the cost of Steel Shoes is shoes. Yet the cost of Steel Shoes of
less than all-leather shocs. Readers of this paper who seek an easy, comfortable
shoe, and perfect safety from all the ills shoo, and perfict safety from all the ills
that follow cold, wet feet, should wear steels. The Steel Shoe Co., Dept. 89,
Racine, Wisconsin, or Toronto, Canada, make them. Send them $\$ 3.00$ for 6 -inch high shoes, or $\$ 3.50$ tor a pair of 9 -inch
high shoes, mentioning "'"The Farmer's high shoes, or shors shent
high shoes

## GOSSIP.

The Shorthorns advertised by L. K
Weber, Hawkesville, Ont., are claimed to
be a right be a right good lot as to size, quality
color and breeding. All females of breed ing age are in calf to Lord Lieutenan
(imp.), now at the head of the herd (imp.), now it the head of the herd from imported stock.
Mr. R. T. Brownlee, Hemmingford, Que.,
offers for sale in our advertising columns three rer sale in our advertising columns,
registered
Clydesdale
stallions These horses were shown at the leading
fairs last fall, and secured the highest awards, in good complany. They are all
good-sized, with lots of quality and good good-sized, with lots of quality and good
colors. Parties wanting good young
stallions will do well to call and see
these horses, or write for particulars stallions wil do well to call and see
these horses, or write for particulars.
 ad ertisement in this issue, refer to the
adaptation of the breed to all climates. A hardy constitution, early maturity,
with a large percentage of lean meat in
an excellent carcass, and desirable woolan excellent carcass, and desirable wool-
product. makes them popular where
known. it is pointed out that a repre known. it is pointed out that a repre
sentatiee of the Hampshire Ilowns was
pronounced erand champion at the Smithpronounced grand champion at the Smith-
field Show in 1908 . fiel
$\qquad$ March 9th-Fitzgerald Bros., Mount St
Louis, (Int.; Shorthorns. March Mith,-Geo. M. Smith \& Sons
Hays ille, Ont.: Yorkshires and Col: Wolls.
March 10 th. Wm. Thompson, Uxbridge Ont:; Clydesdale horses, Shorthorn cat
tle, and Cotswold sheep.
March 11 th.-At Port I'erry, Ont.; pure bred cattle.
March 11 th and 12 th --Geo. Rice, Till-
sonturg. Ont.; Holsteins and Ayrshires, dispersion.
March 15 th.-H. Arkell \&
Ont Ont:; Oxford Down ewes.
March 16th-D), A. James, Nilestown,
Ont. Ayrshiroc Ont, Ayrshires.
March 1yth-. oseph Fletcher, Oxford
Mills, Ont.: Shropshire sheep.
March 22nd.-At Union Stock-yards, West


Why risk the 10 ss of a valuable
Mare or Foal or both of them whe a payment or both of them when indemnify you for such loss should it happen.
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Prospectuses sent Free on demand. 1:THE GENERAL R. Ness, Pres. J. d'Halewra, Sec,
New York IIfe Bul ding, Dept, C, Surneit, ormsmontreal, P. Q.


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When Writing, Mention This Paper

THE FARMER QUESTIONS AND ANSWERS






Miscellaneous.
arr. Sylvester Campbell, of Kinellar. Aberdeenshire, Scotiand, whose recen nounced, was well and widely known ay Shorthorn breeders in America. Ho was tive stock in Scolland, and frequently served as judge at important shows. Mr. (ampbell was a brother in-law of Johy imported many fine representatives of the kinellar herd to Canada.

Breeders of Holstein and Ayrshire cattle
and dairy farmers generally, should bear and dairy farmers generally, should bear
in mind the dispersion sale on March 11th in mind the of the great herds of Mr. Geo.
and 12 th,
Rice, at Tillsonburg, Ont. The farm Rice, at Tillsonburg, Ont. The farm
horses, hogs, soed - grain and implements on the 12th. Probably never has so good an opportunity been onfered in Can-
ada to secure heavy-milking cows, or bulls rra. Rice has done grand work tor the dairy industry of this country, and de
serves a good sale, now that he is rotir ing from business. One hundred head to choose from should meet he want
$\qquad$ AYRSHIRES AT AUCTION.
Se Sunny Springs Farm herd of Ayr
Shes. shires, formerly owned by the late J. A.
James, of Nilestown, and now owned by
his son, D. A. James, who has sold the
 tising of the entire herd. This herd ha 16th, steady growth of over 25 years. Some of the best remales obtainable were
secured as a foundation, and males
Krom the well-kno Dymerds and others, Dyment, and other ha Rallantyne, Dyment, and others, have
been used to build the herd to its pres-
ent standard. These cattle have been ent standard. These cattle have tee
raised for their production rather than raised for their production and sturdy,
the show-ring, being large and
having well-shaped udders and good teats. The noted cows, Daisy Queen 9705, and
Thind Trixie 9709 , the former giving 13,
lbs. milk, and the latter 11,222 lbs. one year, were granddaughters from this herde their mother being purchased direct-
ly from Mr. J. A. James. None of the in Record of Performance, but there is
no doubt if they were they would make

HORSE WITH CHRONIC COUGH Horse has a hacking cough. Some
times he does not feel well and is dull and dumpish.
Ans.-Chronic coughs are very hard to Ans.-Chronic coughs are very hard to
check. If his lungs are not diseased,
cure may morning, a ball composed of 2 drams
solid extract of the solid extract of belladonna, $1 \frac{1}{2}$ drams
powdered opium, 20 grains digitalis, and powdered opium, 20 grains digitalis, and
1 dram camphor; add sufficient oil of tar 1 dram camphor;
to madd sufficient oil of tar
make plastic.
Roll in issue paper and administer.
USE OF MOVABLE CROSS LINES Why are the cross lines on a set of
harness fixed so that they can be changed hackwards or forwards on the long line Ans.-The evident purpose of having the short cross-line attachments movable is
to provide for wide or close travelling of the pair of horses. As the cross line is
shifted forward the horse are pulled ferther apart. SNOW APPLES ON SHALLOW Would snow apple trees thrive on clay
soil. in some places black, about three to five feet deep, on limestone rock f. S. Ans.-Apples thrive best on deep loam,
with thorough drainage. Sooil of lime
wores with thorough drainage. Soil of lime-
stone formation is desirable. No doubt
you would have fair returns for a numyou would have fair returns for a num-
ber of years if the drainage is good. If numerous cracks and crevices are to be
lound in the underlying rocks, other conditions being favorable, you should have VOLUNTEER' OAT SEEDING
What do you think of a volunteer crop on the 4 th of November, 1908. The land well sheltered and partly covered with cause a river runs nearly through the center of the place. Some springs it
late before the river is low enough to cross, and our late-sown grains are no
as heavy, nor do they yield as much those sown earlier. In 1907, being alone binder knocked down and threshed a wide
strip in very ripe oats, which I had not
time time to lift up for binder, and in the
following spring, 1901,1 disked oats down eight inches in height, where th
binder and horses went. Of course was late that spring in seeding. Ans.-Such method of seeding spring
grains of any kind cannot be advised
Favorable winters and favorable loca Favorable winters and favorable loca
tions may result in spring wheat, oat and giving a fair crop, but as a rule the
result is failure. The area that yo
rest
have sown may turn otl satisfactory dry weather of last autumn, and the ver e dry weather of last autumn, and the ver
changeable weather since, most likely wi
result in serious damage. Farther south CLEANSING MAPLE SYRUP. Please tell us different ways used for
cleansing maple syrup. Ans.-Maple syrup, when drawn. Lhe evaporator at a temperature of $219^{\circ}$,
can be filtered through a felt strainer, which will remove every particle o sediment or impurities, or when drawn
into small vessels the size of sap-bucket into small vessels the size of sap-buckets
at the above temperature, it will settle
itself, so that all the sediment will
$\qquad$ cptacle to the other. The better way,
however, is by using the felt strainer.
These can be obtained from the Grimm Manufacturing Co
wholesale druggist.
dISEASE IN YOUNG DUCKS. Can you give me any reason for young
ducks dying when about two months old? creek. They go around stupid for a
and couple of days, then they draw their head
and neck back between their wings, and when they try to get up they fall back-
wards. They act that way for a few days and then die. What is the cause,
dand give me a cure, it there is any, as
and
$\qquad$ I had ducks going similar to
would he inclined to send one of
$J$ UST as a "showy" case may

## MODEL <br> Incubators and Brooders

aWARDED HIGHEST HONORS AT Toronto industrial, ottawe and
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Twelve Reasons Why You Should Use Model Goods
7th. Because all our machines re manufactured of the best hard wood (chestnut) with 8th. Because the Model Goods are built for business, and to last lifetime.
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rash there is on the market. 1oth. Because we want you to try us just once. We know if you do we
tomer.
uth. Because the Model Brooders take care of the chicks when hatched and rear them. 12 th. Because we could fill a book with reasons why you should
purchase Model Goods, but don't know one, reason why you should not send us along your order a
give us a trial. give us a trial.

Don't Buy an Organ Solely on the Strensth of Its Handsome Exterior

> aceal the "poor" works of a watch, so an-case bide a "cheapy" constructed "Sherlock-Mannlige" Organ than one This "difference" in price is due to the superior quality of the interior construction of the Sheriock-Mannling Orga. As the "quality" and "durability" of tone and action depend on interior construction, you can readily see the wisdond of choosing the "Sherlock-Manning" Organ. Sherlock-Manning Organ Co. LONDON, ONTARIO. 6,
> laboratory for examination. I presume
that a lack of gravel in the feed might cause trouble similar to what is menlioned; also eating of unwholesome foods,
such as decayed fish or meat, or there may be a general epidemic. If your corespondent had held a post-mortem, and ance of the liver, ceaca, lungs, etc., we would probably know more about it, but
with the present information I cannot venture an opinion as to the trouble.

> RENTING A FARM ON SHARES In working a farm on shares, when there is no plowing done, and I would
do all the work, and take the crops off and provide seed, pay for throshing, and all expense, what share would I expect of crop and pasture, and, who would pay swer would oblige. a FARMER. Ans.-So many factors enter linto the question of renting on shares, such as raty of farm, percentage of land in pasture, style of farming pursued, etc..
that any answer that might be given without knowing these must be largely be said that if you do all the work. using your own team and implements,
ney taxes and do road work, you should y taxes and do road work, you

## 354

THE FARMER'S ADVOCATE.

## Wanted, Hustifrs

We want at least one representa-
tive and valuator in every township tive and valuator in every township
in each county in Ontario to act as in agent in valuing, listing, selling
our
and exchanging farms in his disand exchanging farms in his dis-
trict. A farmer well acquainted with the value of farms in his neigh-
borhood preferred. borhood preferred.
We also want thre
getic, honest and capable men to getic, honest and capable men to
establish and organize our business in several counties in Ontario, to
appoint sub-agents, superint end appoint sub-agents, superint end
their work, and to send prospective purchasers into these counties. We will pay good salaries for the right
man. Write, or apply at once, if man. Write, or apply at once, if
you have the qualifications, as the organization of these counties must be
THE WESTERN REAL ESTATE EXCHANGE, LIMITED. 8 Dundas St., London, Ont. reterno
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WANTED
 B. F. BELL. DELHI. ONTARIO

## QUESTIONS AND ANSWERS

 Miscellaneous.ALfalfa SEEDING-GR
SEEDING-GRASS FOR
MUCK LAND. 1. I have a five-acre field which had
peas on last year, and which is in a
very low state of fertility very low state of fortility, the farm hav-
ing been rented for a number of yearg ing been rented for a number of years
before I purchased it. The said field is mostly good quality of sand, but some
of it is rather light, and these light places are, consequently, in the poorer natural drainage, being very rolling, sloping to the south. It was my inten-
tion to sow peas in the spring, and plow ion to sow peas in the spring, and plow
under as a green crop, and prepare the under as a green crop, and prepare the
field to sow alfalfa in August. I have no manure for this field, as I wish to
no
no put all my available manure, about fifty
loads, on my corn and potato lands, loads, on my corn and potato lands,
which is in need of it. Which is the better course to be adopted in order to
prepare it for allalfa? I purpose treatprepare it for alfalfa? I purpose treat-
ing alfalfa seed with nitro-culture pre-
vious to sowing.
Would it pay me to ing and to sowing. Would it pay me
vious a fertilizer? If so, what would
use use a mertilier acre? And what kind of
cost me per ald
fertilizer would be the better to use? fertilizer would be the better to use?
Would it be better to use the fertilizer Would it be better to use the fertilizer
before sowing the peas, if I should sow
peas to turn under. I want to make peas to turn under. I want to make
sure of a good stand of alfalfa, if possible. I seeded a part of am adjoining
feld last year and got a good stand. It
was corn and potato land the year pre was corn and potato land the year pre-
vious. I sowed the sed alone, and pur-
pose sowing alfalfa seed alone on the feld in question.
2. What is the best sort of grass seed
or or muck land, with the object of getting
the most hay, quality to be considered.
3. What is the best grass seed to scw with pa
tained ?
$\qquad$ In the first place, there is scarcely suf-
ficient Canadian experience with summer seeding on record to warrant its general
recommendation, though some Ontario
rarmers have reported decided success armers have reported decided success
from sowing alfalfa in July or August.
Then, again, as to the peas There cal Then, again, as to the peas. There can
be no doubt this soil would be the beter for some enrichment, and the addi-
tion of humus; on the other hand, the
urning under of a green crop woul turning under of a green crop would
tend to produce a more or less acid contend to produce a more or less acid con
dition of the soil, which is inimical, i
not fatal, to the nitrogen-gathering bac
terien teria which are so necessary to the suc
cessful growth of legumes. However, this might be overcome by an application of
lime worked into the soil after the peas
have been plowed down. If this wer have been plowed down. If this wer
our field, we should be inclined to try an
experiment by sowing half the field in experiment by sowing half the field in
spring and half io early August, after a
crop of peas had been plowed down. In crop of peas had been plowed down. In
all probability, the best fertilizer you
will tee able to secure is unleached hardwill be able to secure is unleached hard
wood ashes, applied early in spring Wood ashes, applied early in spring
Use at least 35 bushels per acre, and,
the ashes have been loached, double treble tha
300 poun
meal.
provide pasture for a yoar two-thirds o
cropping with hay, sow to
your usual seed mixture and add to it
pounds per acre each of orchard grass. blue grass and meadow fe
WARTS. Please give prescription in your valu able paper to take warts of a horse
A SUBSCRIBER.
nose. Ans.-If the warts have long necks, clip Ans. -If with scissors. If ndt, rub well
them off whis does with castor oil every day. If this does
not remove them, dress them once daily not remove them, dress them once daily
with butter of antimony, applied with a ith bu
BUTTER FROM SEPARATOR
$\qquad$ have trouble getting butter fro four hours to do the churning, and then the butter comes in small grains and
does not gather well. What is the diflculty? Ans.-The fact that the cream is ta jurious effect, unless the cream is
jur eng ent thin. Cream for churning should test least 25 or 30 per cent. butter-f
Again, perhaps, you churn at too low temperature. ference in the churnability of cream fro the milk of different cows. There is also
a difference in breeds in this respect, and a marked difference in the period of lac-
tation. The cream from one cow may tation. The cream from one cow may
be the cause of the trouble. Give the cows salt ad libitum, provide succulent
feed, if possible, feed a little bran and oil-cake meal, separate a thick cream,
well ripened, and churn at a temperature well ripened, and churn at a temperatur
of 54 to 58 degrees in summer, and up to 64 degreess in winter, depending on
the richness and ripeness of the cream. A temperature should be adopted tha
will bring the cream in not more tha will bring the cream in
hall an hour.
CORN PTANTING.
 plant one half in husking and the other
in feeding corn. Which half would best to put the corn to ripen on? What
kind of seed would be best to get. kind of seed would be best to get. an
how much ? 2. What value is wood ashes on lan
like this for corn? How much to th acre and what time is best to apply,
and how? The land is not very rich It was plowed last soptember.
year's crop was half peas and half Pontiac Co., Que. A. McK.
Ans.-1. Since the crop would be likel


## POULTRY CEANGS CI C



 ormole ait





 BUFF ORPING rons - Pew cockerels tor sale
Hugh for hatcthing: Drop card tor catalofue
 $\mathrm{E}^{\text {GGS-White Wyandot es. Martin and Masse }}$
 Collingword. Seltings. $\$ 1$ and $\$ 1.25$. R. Hughes HOR SALE-Some choice White Wyandotere
cockels. Apply: Wm. E. Robertson, Ever
ton, Onter
HoRTY Barred Reck pullets and hens tor sale




 $\mathbf{W}^{\text {ANTED-Poultry all varieties }}$ Correspond
 Colonys. Best pens. Ont. TAKING AWNS OFF BARLEY.
Do you know of any quick way to take Chreshed?
Ans.-We have not heard of special machinery for this purpose. Perhaps
some of our readers could answer this query. It is another case of "prevention BLENHEIM OR HUBBARDSTON. tion of a few pointers as to doscrip-
Hubardston Nonsuch and
Blenheim Pippin apples. I have two old
 is right. They are a good know which
always aprow clean and free from scab clined to be flat more than long. The
trees are large and wide-spreading. I
$\qquad$ Ans,-Your best plan would be to send
specimens of the apple to $W$. T. Macoun.
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$


356
meglected scald causeo MONTHS OF AGONY.

Spent Dollars in vain, but ZamBuk Cured Her
$\begin{aligned} & \text { Following, we give the testimony of a } \\ & \text { ady who, if she had known of Zam-Buk }\end{aligned}$
$\begin{aligned} & \text { lady who, if she had known of Zan-Buk } \\ & \text { earlier, would have been saved nine weeks }\end{aligned}$
of agony :
$\begin{aligned} & \text { Mrs. Frederick Bryant, of } 169 \text { Railway } \\ & \text { avenue, Stratiord, Ont., says: } \\ & \text { "I scalded }\end{aligned}$
$\begin{aligned} & \text { avenue, Strattord, Ont., says: "I scalded } \\ & \text { my foot while preparing supper. Next }\end{aligned}$
$\begin{aligned} & \text { my toot while preparing supper. Next } \\ & \text { day the skin came off and my foot was } \\ & \text { in a serious condition. I could not wear }\end{aligned}$
$\begin{aligned} & \text { in a serious condition. I could not wear } \\ & \text { my shoe, and had to lay up for nine }\end{aligned}$
of salves, but none did any good, in fact
the wound developed into a running sore
$\begin{aligned} & 1 \text { got no rest day or night from the pain. } \\ & \text { At this roint a surply of Zam-Buk was }\end{aligned}$
obtained and a few applications had im-
$\begin{aligned} & \text { mediate effect in soothing the pain and } \\ & \text { irritation. A small supply proved suf- }\end{aligned}$
$\begin{aligned} & \text { irritation. A small supply proved suit } \\ & \text { ficient to heal the scald, although I had }\end{aligned}$
$\begin{aligned} & \text { ficient to heal the scald, armedies. Nev } \\ & \text { spent dollars in other remedies. }\end{aligned}$
skint has now formed nicely over the open
"./am-Buk is the most wonderful and
$\begin{aligned} & \text { effective remedy I have used. and I advise } \\ & \text { others to use it." }\end{aligned}$
Zam-Buk is equally effective in curing
$\begin{aligned} & \text { burns. Mr. Geo. Gumore, caretater } \\ & \text { the E. Clements Block, Winnipeg, testifes } \\ & \text {. } 1 \text {. sustained a series of bad }\end{aligned}$
$\begin{aligned} & \text { as follows: "I sustained a series of bad } \\ & \text { burns while attending to the large fur- }\end{aligned}$
$\begin{aligned} & \text { nace which heats the buildings. On } \\ & \text { burn on my wrist was particularly ba }\end{aligned}$
$\begin{aligned} & \text { burn on my gave me great pain. I applied some } \\ & \text { and } \\ & 7 \text { gm-Ruk, and in forty-eight hours and }\end{aligned}$
$\begin{aligned} & \text { Tam- Puk, and in forty-eight hours all } \\ & \text { that remained of the burn was a slight }\end{aligned}$
$\begin{aligned} & \text { that remained of the burn was a slight } \\ & \text { scar. Zam-Buk seemed to take the pain }\end{aligned}$
$\begin{aligned} & \text { scar. Zam-Buk seemed to take the pain } \\ & \text { away like magic. It is a splendid balm } \\ & \text { to keep handy, its healing powers being }\end{aligned}$
$\begin{aligned} & \text { away } \\ & \text { to keep handy, its healing powers being } \\ & \text { simply marvellous." }\end{aligned}$
$\begin{aligned} & \text { simply marvellous. } \\ & \text { There is nothing }\end{aligned}$
a family balm. Its uses are so wide
It has been proved a sure cure for
$\begin{aligned} & \text { eczema, ringworm, ulcers, abscesses, piles, } \\ & \text { bad leg. suppurating wounds, cuts, }\end{aligned}$
$\begin{aligned} & \text { bad leg. suppurating wounds, cuts, } \\ & \text { bruises, chapped hands, cold cracks, and }\end{aligned}$
all skin injuries and diseases. Rubbed
$\begin{aligned} & \text { well into the part affected, it cures rheu- } \\ & \text { matism, sciatica. neuralgia, etc. All }\end{aligned}$
$\begin{aligned} & \text { matism, sciatica, neuralgia, etc. All } \\ & \text { druggists and stores sell at } 50 \mathrm{c} \text {. per box, }\end{aligned}$
ESTABLISHED 1850.
SEEDS
that
SATISFY

## Regal Red Clover, - $\$ 7.50$ bushel.

 Regal A lsike Clover - 10.50 Regal Luccrne CloverRegal Timothy $\quad 3.00$ Regal Timoth Cotton Bags, 25 c. each. The above brand is our best grada
of seed, and complies with the con of seed, and comples with the
ditions of the Seed Control Act. FREE.-Write for our handsomely vegetable, flower and farm seeds bulbs, plants, poultry supplies, gar


Ed bialey

## QUESTIONS AND ANSWERS

 Veterinary WORMS Three year-old colt is not doing well.Last summer I noticed him passing large white worms, and lately h have noticed
him rassing more. I have given him
oil and turpentine without results. oil and turpentine without results. $\begin{aligned} & \text { A. L. } \\ & \text { S. } \\ & \text { S. } \\ & \text { ond }\end{aligned}$ Ans.-The worms are doubtless the
cause of the unthriftine s . Take three ounces each of sulphate of iron, sulphate of copper, tartar enetic and calome
Mix, and make into 24 powders.
Giver
powder every night and morning, an a few hours after the last has been given administer a purgative of eight dram
aloes and two drams ginger. CAPPED HOCK-UNT
CAPPED HOCK-UNTHRIFTY

1. Horse has capped heel.
2. Three-year-old colt is not thriving $\underset{\text { well. }}{\substack{\text { Ans.-1. } \\ \text { and } \\ \text { and }}}$ ock, as there is no such condition av
"capped heel."
ard hard and tedious to remove. Get a
liniment made of 4 drams each of iodine hniment made of 4 drams each ors. each
and iodide of potassium and 4 ozs. well into the tumor once daily.
well 2. Give him a laxative of pint raw
inseed oil. Take 3 ozs. each of sulphate of iron, gentian, ginger and nux
yomica. Mix and make into 24 powders, and give a powder three times
daily. Repeat the course of powders as often as necessary. Feed liberally
good hay, rolled oats and bran, and givi a few raw roots, and give him regular
exercise.

## Miscellaneous

LOW-GRADE FLOUR FOR HORSES -CONDITION POWDER. 1. Would you consider low-grade four
and ground oats, mixed, one of flour to two of oats, good to feed working
horses? 2. What is a good, cheap condition
powder for working horses? 1. Horsemen do not speak highly o a litle frane form feeding. Oats, and
a more satisfactory
a lition. What is known a litte bran, form a more satisfactory
ration. What is known as dark feeding
nour contains the germs of the grains
lo
and co is rich in protein. Some aut and so is rich in protein. Some au
thorities reccommend it for horses at hard
work work, to be used as part of the gra
ration.
2 An excrllent condition powder f
working hores is clean wholesome hin and oats, carrots or turnips once or or
and
twice a week, and pure water. This
and along with the exercise, should keep then
in good condition. If a tonic is ra
quired. quired, use the following Two ounce
each of ferric sulphate, pulverized grol
tian, pulverized nux vomicn and tian, pulverized nux vomica, and nitral
of sodu. mix, and give a teaspormf
night and morniny in grount oats Wrin. Also give two or three times
week, a ferd of boiled oats and to in

> TRADE TOPIC
$\qquad$
$\qquad$ A tour of the world! What a faut first enchanting ky of the world into the lan hat lie beyond ...f doors: the mingli athe entirely new poplics, the vewing
$\qquad$


THRIFTY GROWING YOUNG CALVES BIBBY'S CREAM EQUIVALENT - A perfect substitute for new milk. Bring
ing calves and young pigs up to first-class condition. Preventing colves and young pigs up to first-class condition. Preventing
scouring and other ailments. Made in England. Sold in WM. RENNIE COMPANY, TORONTO, ONT.

Steel Equipments for Cheese Factories




the steel trough \& machine company, Ltd, Tweed, Ontario.
HAVE YOU SECURED ONE OF "THE FARMER'S ADVOCATE" PREMIUMS

QUESTIONS AND ANSWERS Veterinary

SpAVIN Sixten-year-old mare is lame from spavin. My veterinarian fired and blis-
tered it $t w i$ ice, and he is still lame. will she get better
red again?
Ans.-It is not possible to say whether he will recover, as some cases do not.
do not think another firing advisable.
dis. do not an operation which consists in
lhere in an a tendon that passes over the severing a tendon that passes over the
ront of the hock, that will sometimes ront of the hock, that
aure when firing fails.

LAME MARE-WORMS Three weeks ago I drove a three-year-
old mare fifteen miles and back in one day . Since then she has gone lame in
day hind leg when trotiay fast, bit walks one hind leg when and jogs sound.
2. She has 2. She
lameness
 examination, hence treatment a personal
simply guesswork simply guesswork. I am of would be opinion
the trouble is muscular. and due op the troubbe is muscular, and due to the
long drive. Thirty miles in a day is long drive.
far to driv are gradually fitted for it. It is
probable if you allow her to have com-
parative rest: that parative rest; that ins, simply give her a
little slow exercise daily for a few weeks she will recover. 2. Worms will not cause lameness. Take three ounces each of sulphate of
iron, sulphate of copper, calomel and tar-
 powders. Give a powder every night
and morning, and after the last has been and morning, and after the last has bee drems aloes and two drams ginger SORE FEET. Seven-year-old driving mare has sore
feet. Her hoofs are dry and hard and Her hoofs are dry and hard and
are becoming contracted, and she appears very stifr in fore limbs. J. M. and while treatment will ease the sympand while treatment will ease the symp-
toms, there is little hope of a permanent cure. The proper treatment is to re-
move the shoes, pare the heels well down move the shoes, pare the heels well down
and blister the coronets. Clip the hair nd blister the coronets. Clip the hair
of all around the hoof for two inches of
in height, make a blister of 2 drams
pach of biniodide of mercury and cantharides, and mix with 2 ozs. vaseline. Rub well with the blister once daily for
wo days. On the third day apply
On swo days. On the third day apply
sweet oil and turn in box stall. Oil $^{\text {ond }}$
very day. and as soon as the scal every day. and as soon as the scale
comes of blister again. After this
olister every four weeks as comes of blister again. After this
blister every four weeks as long as you
lan allow her to rest. When an work again, apply bar shoes, and keep the feet soft by poulticing or tubbing,
and stand in a box stall with clay floor
年 you cannot
$\qquad$

TREATMENT FOR SIMPLE
OPHTHALMIA.
TREATMENT FOR SIMPLE
OPHTHALMIA. Our local veterinarian, in treating
case of simple inflammation of my mare' case of simple inflammation of my mare's
eye. gave a bottle of dark-colored fuid to ese.
inject into the eye, and a yellowish salv
to aprily to the eye to allay pain. A always try to inform myself on how and treat diseases, I would lik
the prescriptions for these mix
Will you kindly give them to in. - There are many preparations used There are many preparations used
strco-sfuly in the treatment of such
ca es. the treatment in many cases de
 what your veterinarian used, and
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

## FarmerStout learns about seeding right

"Ran across one o' these school-taugh farmers at the Toronto Exhibition last summer. Got talkin
growin' wheat in Ontario.
"He claimed that the Ontario armers lost more than a million dollars last year alone, simply because the seeding
I laughed at him .
" 'Well,' says he, 'you just figure it out when you git home; and,' he says, 'here's some facts that'll help you figure right.' Well, sir, I figured. And I got my eyes opened,-you bet I did.
"Got 'em opened wide enouğh to see I
needed a Cockshutt Disc Drill; and I've got one now. Look here:
 drills and seven-inch ones, you see I'm letting the other fellows do the seven-inch seedin' nowadays. The Cockshutt way is good enough for friend Stout.
"Good enough for me anyway, seeing that I've got a drill in this 15 -disc seeding machine of Cockshutis that draws lighter than any ten-hoe drure ever saw; and never clogs; and is dead right every time
"Good enourh for me because it pays me Good enough for Dise Drill than to better to own a Cockshutl is can't see why it wouldn't pay you, too
"I'd had what I counted a real good seeder. But the closest plantin' it could do was seven inches apart. The Cockshutt plants six inches apart-and doesn't use any more seed to the acre. D ye realize what that means?
"It means anywhere from two to five bushels more yield an acre with any kind of grain! "'Now, when youcome to know that Ontario seeded 821,766 acres to wheat last year, and when you come to figure what even two bush els more an acre mean - in cold cash dollars
"That school-taught lad wasn t so far out, was he?
meant just about 640,000 bushels more Ontario-raised wheat in one year-not to speak of all the othergrains


$\mathrm{T}^{\mathrm{HE}}$ Cockshutt New Disc Drill seeds a accur
 because of ite positive fore feefes.


 soils. Thi Gookshutt ohain-drive of
hardened steel, with the direct centre draft hardened steel, with the direct centre draft
from the discs, insures easy running and the from the discs, insures easy rue minimum of
lightest possible draft, with the
friction. The alle bearinge are fitted with lightest possioe axle boaringe are fitted with
friction. The are
compression groase cups (all other such compression groase cups (all no grit nor
machines use merely oil) that no machines use inerely nor any lubricant work
dust can work into
out of. You ought to read the booklet quotout of. You ought to read the booklet quot-
ing actual experiences of practical farmers with this drill; it will prove to you that this
is the drill that's ten years ahead of all the rest in practical value to any farmer. Please
sk for illustrated details-address as below,
fré cocishutt line of mplemients built right to farm right, includes not only more than 120 styles of plowsranging from light garden plows to huge
12 -furrow engine gangs-but alsoall styles 12 -furrow engine gangs-but also alilstyles
of seeders, cultivators, and harrows. of seeders, cultivators, and harrows.
Write us for details of the kind of imple-
ments the business farmer ought to buy

End View of
The Cockshutt
New Disc Drill
Made in
13 and 15-DIIsc
Models for Ontario

## PLOW <br> COMPANY umitrid <br> Dept. B

##   <br> Agricultural <br> Savings \& <br> Loan C



358


IB POINTS in the Sellirith still stay Feaces and Gates possessing Uadeniable Superiorth. Sellirk Pence Asents make money and build business. Sellirirk Fence Users get
the best value for their money and are satisfed customers. the beat value for their money nad are satisffed customers.
We will send you full particulars
Sellirkik Fence Company, Hamilton, Can.
1 would like to know more about the Sellirirk Pences and Gates. Send me a free I would like to know more about the Selkirk Pences and Gates. Send me X free
sample piece of the fence and literature on the Points of Superiority with Asent's terms. Trme....

"Success" Light Draft Roller Bearing Manure Spreader for 1909 is greatly improved
 examine the New 1 Noos
"Succoss" Manare Spread-
er. You have on doubts
about which manchine bo
purchase after you've purchase after you've
seen it and noted the im
ments
for
1000 "Gear makes the apron est and easiest-running, lightest-draft on any mane se fully protected against wear
erendered practically indestructible. But just see the "Success." and note all its su-
perior features. That's the right thing to do before perior features. Thice of a manure spreader. THE PARIS PLOW CO. limited.

PARIS ONTARIO

Please
Mention

this Paper.


 dight ingeot yarrys meords may bo thitenet to omedere





TRADE TOPICS. ROofing SELECTED by GOVERN-
MENT. Among the articles required by the United States Government in provid-
ing shelter for the stricken of Messina, ing shelter for the stricken of Messina,
owing to the recent earthquake, was ready roofing material. An order was placed with the Barber Asphat
Company, who have an advertisement in this issue, for over two hundred thousand
square feet of Genasco Ready Roofing for square feet of Genasco Ready Roofing for
direct shipment. This order was promptdirect shipment. This order was prompt
ly filled, and the roofing dispatched to ly filled, and the rooing dispatched to choice of the ready Roofing for the purpose is a glowing tribute to the merits of this roofing. In a case like this it was also highly important, for international rea
sons. sons, to provide the best that could be
secured, as showing the quality of the presents which the
and the excellence of the products of its
own manulacture. This is one of the many cases where the frankness of the
Rarber Asphelt Paving Company in making known the composition of Genaseo,
ing stood them in good stead, and demonstrates clearly that their product ha
won the confidence of not only the public won the confidence of not only the publ
generally, but of the shrewd and exacting generally, but of the shrewd and exacting
representatives of the Government itself. Settlers' trains to the north The Canadian Pacific Railway will run
apecial trains for setllers going West with live stock and effects, leaving To ronto at 10.15 p . m., every Tuesday in March and April. Colonist cars will be
attached. and trains run by Canadia Pacifc direct time-saving route,
ch
changes, delays or customs examination changes, delays or customs examinations
Settlers travelling alone and with the families, should use regular passenge
trains, leaving Toronto at 10.15 p . m
then daily. By
charge for
haded added com
sleeper. $\qquad$
obtained of nearest C. P. R. Agent,
or diret from R. L. Thompano. District
assenger Agent. Toronto.

## Nitrate of Soda

(Plant Food) mitrate sold in original bags The Niltrate Agencies Company
1103 Temple Building
Toronto, Canada Orders Promptly Filled-Write - A

## Don't Paint The Roof

All the expense of patating a roof may be ased by covering it whith

## Brantford

"Crystal" Roofing
and the cost will be one-third less than for wooden or metal shingles You certainly owe it to pour pocketbook to learn moreng. You thould heve ample. Then you cen tent the flexibility and toughnese of Brantford "Crystal" for jourself-and see with jour own eyes its thme-defy. ling Surface of Rocir Cryetrian A surface that camot be tmproved upon for weather and-fire-proofness. A sen face that needis no painum at the etart and never ma, as rock crystals cannallpractically ledestructible.

Sample, and big roottng book, will be mailed FREE as soon as we hear from you, which should be by next mall.

BrantfordRoofmgCa.
Bratford, Lind Cunda
FITSS



QUESTIONS AND ANSWERS Miscellaneous.

OOVER FOR BINDER How ane
Ans -A atifactory cover is made by
 sed is made as follows: Add to every
froe pinte of boiling water two ounces hrree pintoom ooap. When dissolved, stir in one quart of boiled linseed oil. When this has coolod, stir in fipht of brown
apan as a drier. If black oilcloth is iapan ane or drier. If black
wanted, sed somo samplack.

USES FOR POPLAR
It there any industry in ar lumber could be utilizod? would it be advisable to use poplar otudinge for partitions in a house ${ }^{?}$ ? Ans. - . The wood of the various pop arse io ued for paper-pulp,
manutacturing.
in
cooperage. manumacturing. in cooperage, for the tor
beade of berras. and for various pur poseem where it doas not come into con
tact with oill or weather. Poilar is no tact with eoil or weather. Po, Pork
very durable for outsido work.
 titions of a house.
potatoes for hogs
Io there any difference in the feeding
 American Wonder ? The Mclityre more palatable to hogs, but the Amer turn out afty bushels an acre more than the McIntyre.
Ans.-Ta regard to the relative foeding alue of Mectintyro and American Wonder potatoos, it is difficult to osecure any diever, bo nuch differenco. $\begin{gathered}\text { Thould not } \\ \text { Moronver }\end{gathered}$
 nugar beote can be more chaeply raised
sont As a rule, only the refuse potatoes an
ed, and zo one should grow those tha fod, and wo one should grow those that the pigs oare for them or no I purchased a mare a short time ago
 Nery heavy hair on them. I. I purged her
with alose, followed with nitrate or pot-

 sive some of Fowler's Solution of Arse-
nic, but ao not know how much tor - Low long to continue c. H Ans-The dose of Fomter's Solution of
Arsenic is one to one and a hall ounces
 mprovement could be effectod by apply-
ing warm poulticas of linsed meal, with Altule powderecas hharcoan ad ded. renew.
ing the powitices every six or seven hours ng the pouplo of days and ond sevent hours
tignte, and
then applying the oxide of to which is added 20 drops carbolic acid
to the ounce PROTRUSION OF VAGINA ehire hoifer. which is twe to treshen in June. She puts out what appears to be her
call-bed when she is lying down. Can anything be done for it? NHWW SUBSCRIBER. Ans.- It is mot the uterus, but the lin-
ing of the vagina that protrudes before
ealling. All that can be done to ealving. All that can be done to relieve
the uluation is to raise the floor of the stall where the hind feet stand, so that
the hind parts of the cow are higher that
the iront the iront. This can be done by laying lay
down a few short pieces of plank with one end on a piece of timber, spiking t
plants to the floor at one end the tunber at the other, and keeping the
floor well bedded with litter from the
bor.. Stable or with straw. As a rule
the in wuch case calves safely, an


THE FARMER'S ADVOCATE


F 10 Monarch Stifi- stay FonCB, $=\leq=\leq$ the wires an
heavy strains.

Now, in the Monarch, the lock is applied diagonaliy with the strand, whe crossing. And the ends of lock are neatly hooked over the strand wires. Thus or loosening. And the fence is made of best grade No. 9 Hard Coiled Wire.
there is no undue kinking of laterals.
o hidden weaknesses in the Monarch fence. It will stand the most severe tests of weather, animal or man. Catalogue
free if you'll ask for it.

## The Dillon Hinge-stay Fence.

MORE
AGENIS REQUIRED.
wires. They give or swing under pressure, and spring back to original uprightness when pressure inped at the intersection. A series of coils in the strand wires amply
laterals are crime provides for contraction and expansis a lasting fence investment. It is made in both medium and heavy weights. Shall we send you our complete fence catalogue, describing both the Dillon Hinge-stay anding facts you'll be glad to know about.
The Owen Sound Wire Fence Co., Limited, OWEN SOUND, ONTARIO.

Energentic men will find our line of fencing and gates the best-sellgents have two such superior and different fences as the Monarch and Dillon. In comparison with other agents, our representatives have
double the chances of securing an double the chances of securing an
order. Just write for agency parorder. Ju
ticulars.
$\longrightarrow-$


is an entertainer which comes into your home for a small price and makes all kinds of vocal and instrumental music available.

By means of the AMBEROL RECORDS, Mr Edison's newest invention, a great many other kinds of music, monologues, dialogues and other things are available for the Edison Phonograph which have not before been used in a talking machine.

Hear the Edison Phonograph and the Amberol Records at your nearest dealer's, and make arrangements with him for obtaining them at once
 Wo Want Good Livo Doelrer to sell Edinon Phonorrahat in very lown where we art not now welir
 National Phonograph Company, 112 Lakeside Avenue, Orange, IN. J., U.S.A

QUESTIONS AND ANSWERS

## Miscellaneous

COW KILLED ON RAILWA Somo time last September I turned my ows out to the wods to get water. IThe
was busy harvesting late that day. The cows sid not come nome. I could not
Cind them. ${ }^{\text {The }}$ next morning 1 tound hem on the railroad track, and one of
hem tilled by train the evening before. The railroad goos trough my farm, in
the clear part of it, and they did not
not the clear part of it, and they but east
get on the rond on my pheo, bot end
of miv farm the road goes through wilderof my farnu the road goes through wilder-
ness liands, and has gates on the differ
 those gates. I can't say which way
goot there.
t.
 Ans-We cannot see that you have such
A claim as would warrant your going a claim as would warrant your going
the elengt of bringing an action against
the nailmay company tor damages tor the
 loss of the cow. There are several ob- ob-
jections to sum a cours; wa
jon ime portant diffculty in your way is is re-
spect of the matter of proot. We think
s. vou would fail on the hewever, to try
it might be well, howeve
mogest your instructing a solicitor to negotiate for you with the company. But whatever
is to be done toward obtaining compensation for your loss ought to be at-
lended to without nore delay. Prompttenden in a case of this sort is most ad-
nisable. LITERARY-SOCIETY DISPUTE. I noticed an article in your issue of
February 4th, relating to the Literary society. It reminds me of a slate with reading on both sides. You
read one side, but you do not know what is on the other side until you turn only got one side, and not all of it then This literary society was organized as usunal in the regular way, appointed their
oficers as usual, and had about 14 members to start with. The second meeting turn-out and no business done whatever and before the next meeting night, which Nould be in two weeks, the majority of
(hose fow meubbers took it upon them selves to have a little doing among
Chemselves out of the proceeds of last
yenr's society; and at the next meeting cent's society: and at the next meeting
took in a bill for oysters, etc., which
they got passed before admitting any
more new members
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

## A Nervous Wreck

 Now in Robust Health. been in \& consumptive's grave long ago ad it not been for PSYCHINE. He was cold. His whole system was weak, in luding his lungs, which were seriousiy Grippe. Grippe."After taking several remedies and
and treatments we procured parvellous results brought about in two months. He gained over twenty pounds in weight,and strength Ind appetite returned. Mr. Harron himself is most emphatic CHINE. He declares, "To-day I am in splendid health and have never been sict day since NO is the greatestonic known o medical science. It builds up the sys em and tones up every organ of the boas nabling it to resist and throw off diseas CHINE is used consis ently. Send for a trial bottle and prove the ruth of these PSYCHINE is sold by all druggista
and dealers, 50 cents and $\$ 1.00$ a bottle. PSYEHNE THE GREATEST OF TOMICS FOR HIEALH ANO ELENGOO Mrs A.-I can remember the day when
you begged me to say the word that would make you happy for lite.
$=$

## ONGE MORE FROM

 THE GREAT WESTComes Evidence of the Great Work Dodd's Kidney Pills are Doing
yrille Maginel Cured of his Rheumatism and Dlabetes by the old Rellable Kid ney Remery.
Findlay, Man. March 1st.-(Special).-
yrille Maginel, a well-known farmer liv-
$\qquad$
$\qquad$


MARCH \＆ 1909
QUESTIONS AND ANSWERS Miscellaneous．

MORTAR FOR CEMENT BLOCKS Which is it best to use，cement or lime coment，what proportion？ Ans－Fither mortar can be used． ixxture of cement and lime mortar is enerally advised，because it can be
orked more readily and a finer joint wade．First prepare cement mortar，us－ ng one of cement to three of sand．To
his add one－third ordinary lime mortar
 and mortar，add two pounds of lamp－ MAKING CEMENT FLOOR ROUGH
moisture supply is ample during spring
"ell covered.
FARMING ON SHARES - LINE
FENCING.


## STEEL SHOES are Health and Money Savers！

Mo Colds！No Corns！No Repairs！No Leaks！No Slipping！Just SOLID COMFORT！


How Our 1909 Model Steel Shoes are Made
The sind an inch above，all around the
 as a leather sole and so much stronger that
there is simply no comparisontection of any shoe It gives the best foot protection of any shoe
on earth．hit is studded $\begin{aligned} & \text { owth Adustable } \\ & \text { Oivets，which give you a sure footing and save }\end{aligned}$


ot lenst two years．made of the best quality of
ofte plipers，are ．
soft，pliable，waterproof leather that money can
 Comfortable Hair Cushions


 comiort than you have ever knower are，but STEEL SHOE CO．，Dept．83，TORONTO，CAMADA
ene to six paira of all－leather shoes．

## They Take the Place of

 Rubber BootsA man who wears Steel Shoes doesn＇t have
 and malte them very tender．Thay are pos
tively injurlous to health．Steel shoes，with Avely injurlous to bealth．Steel Shoes，same
Wretroroo leather appers，give you the same
protection as rubber boots．without sweating


See How Much Cheaper Than Leather Shoes！

 Our $\$ 3.00$ Steel Shoes， 6 inches high，of extrin Ime leer sheros．
Our $\$ 3.50$ Steel
Our 83.50 Steel Shoes， 9 inches high，are better
han any 5.00 all－leather shoe made．
 Our $\$ 0.00$ Steel Shoes 16 inches hish are worth Our 86.00 Steel Shoes， 16 inches high，aro worth
moro than the best aill－leather shoes you cand uy at any price．
＂Steels＂are the Workingman＇s Favorite These thoes（etther the 83.50 or the 83.00 patr）， Order a Palr－sizes 5 to 12
$\qquad$




 ORDER BLANK FOR STEEL SHOES Steel Shoe Co．，Dopt．83．Toronto，Can．
$\qquad$
in payment for＿＿＿pair Stoel Shoses，siza＿
Name－


County u．s．of a．，racine，wis．


FOR SALE BY AUCTION at farnham farm, arkell, o

## 40 Registered Oxford Down Ewes,

om monday, the 15Th of march, 1909, at $20^{\circ} \mathrm{Cl}$ lock sharp.
The following valuable animals, bred to our frst-prize and champion
 of tifo. They are a oood lot, and will be sold without reserve to make
room for others. This is a rare chance to get high-class sheep. room for others. This is a rare chance
Pedigrees will be furnished with each animal.
TERMS-\$10 and under, cash ; over that amount, 9 months' credit on approved notes. Five per cent. discoun
Guelph, G. T. R., five miles from the farm.
Guelph, G. T. R., five miles from
Arkell, C. P. R., right at the farm
JAMES McDONALD, Auctloneer.

## Henry Arkell \& Son,

 ARKELL
## DISPERSION AUCTION SALE

of Pure-bred Shorthorn cartie. the Property of
TUESDAY. MARCH 9 TH, 1909 40 females and 14 bulls, including herd bull, Roan Lord $=65155=$, of the Roan Lady 40 females and
family. Such bulls as British Statesman (imp.), Diamond Jubilee (imp.) and Loyal
Sall commence at i p. m. Convey Duke (imp.) bave been used in the herd. Sale will commence at i p. m. Convey ance will meet trains at Coldwater and Phelpston on G. T. T., Terms: Ten months at craid gill be given on furnishing approved joint notes; 6 per cent. discount off fo cash. We are also offering to lease our farm for a term of years; it consists of 55
acres. 350 first-class farm land, balance pasture and timber land. A lunch will be acres, $35^{30}$ first-class farm land, balance pasture and timber iand. Almale Central. provided. Catalogues on application. J . MeEwe. FITZGERALD BROS., Mount St. Louis, Ont.
$\qquad$ 90 Choice Shropshire Sheep at Auction
On Let 8, Con. 7, Township Oxford, Co. Grenville, Ont., on MARCH 17, 1909, at 1 P.M. Joseph Fletcher, Oxford Mills, Kemptville Station, on C. P. R., will offer for sale
ninety pure-bred Shropshire sheep-rams and ewes (one ram imported), from ten ninety pure-bred Shropshire sheep rams and ander sired by imported ram, and all ewes over one year supposed to be in lamb by either an imported ram or a ram ired by the grand champion ram at Chicago worils 5 air. Term4: Seven months Joseph Fletcher, Prop., Oxtord Mills 1P. O., Ont. oseph Fiether, Haley, Auctioneer.
Important Dispersion Sale

## AYRSHIREN

The property of MR, D. A. JAMES, Dorchester, Ont.. will be held
at the farm, $1 / 2$ miles West of Dorchester Station. G . T. R on TUESDAY, MARCH 16, 1909.
This berd comprises 29 remaies and one buc: and has
 TERMS: \$10 and under. char

Messrs. Dibb and Lindsay
D. A. JAMES, Prop.
we recommend to you the reliable and economical
ST. MARYS GASOLINE ENGINE
or general use on your farm
Buik in many styles, for different fuels and uses, in sizes from 4 h.-p.
as many new, original features, and is equipped with The New
Let us know your needs. We will advise you free
A. W. PARKS \& SON, PETROLEA, ONTARIO


## QUESTIONS AND ANSWERS

 Miscellaneous.transmission of power. What per cent. do yoo consider lost ransmitting power to line shaft by an
Lerel gear instead of belling from engine or power directly? Ans.-This question is not answerable. unless
known.
Keeping beef in summer Give good
summer use J.J. J.
Ans., The usual why of curing beet
and summer use is to corn it. Make a
brine of salt and cold water strong enough to bear up a potato, and add to
it a litue saltperre-2 2 ounces to a barrel of beef will be quito sufficient, ass even
a little too much will make the beef
and
 thens lay the beet in the brine.
$\qquad$ the beet will be ready for use. Rrine of
this strength will keep the beef sweet all tis strongt th will keep
summer, if only neeted for aseen shorter time
sum it is not nocossary to boil down. A
it small quantity of beersteak may be kepl
tuite sweet as follows : $F$ Fry the beet fiitle swer than for ordinary use when Iresh, lay the slices in crocks
(rompletely with melted lard
LOSS OF POWER IN TRANSMIS SION-SMALL VS. LARGE
 branch line, i.e. from the main wire to
my farum, distanco of one mine
2. How much is wasted when one


$\qquad$
 flaxseed Jelly for calves

 start How would you preprare it-that is
3. How you mix it raw with the milk
wor


YOUR DANGER BE. GINS WHEN YOUR BACK ACHES.
it is the First and the Sure Sisn of Kidney Disease.
Doan's Kidney Pills oure the aching back by curing the aching
kidneys beneath-for it is really the kid. kidneys beneath-for it hace.
neys aching and not the back.
They act directly oil the kidneys and They act directly of the kidneys and
make them strong and healthy, theroby causing pure blood to circulato throughout the whole system.
Mrs. Frank Foos, Woodside, N.B.
mrites:-"I was a great sufferer vith brites:- - for over a year, and oould ge nothing to relieve me until I took two
boxes of Doan's Kidney Pills and now Ide boxes of Doan's Kidney Pills and now I do not feel any pain whatever, and can eat and
aleep well; ;omething I could not do before Dosn's Kidney Pilla are 50 cents per bo or 3 boxes for $\$ 1.25$ at all dealere or mailed or
direct on receipt of prioe by
ney Pill Co. Toronto, Ont.



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Western Canada there are great opportunities for the willing farmer. He can make money and success of farming. We have for sale the very choicest of Farm Lands in Saskatchewan, and guarantee to please the most particular. Lere. Write at about them, and once for maps and pamphiets and full information. experience are at your disposa.
are interested. Write at once.
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British Columbia orfice: 1210 broad st., victoria.
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mentals, Rover. Shrubs, Small Fruits in verity we can grow.
Send for our priced catalogue. Mr. Parsons. of $N$ ew frundland,
 Vec. we can please you, too, if ordered at the CENTRAL
AURSERY ingood time. Try us. (IIULL \& NONS, ST. CATHARINES, ONT.


QUESTIONS AND ANSWERS. Miscellaneous.
SIZE OF SILO-YIELD OF CORN. We are going to put up two siloes this
coming summer, round wooden ones. The
first one is to be 22 ft , high and 13 ft . first one is to be 22 ft . high and 13 ft .
across. and the other 10 it . across and 22 it. high. How many acres of an
average crop of corn will it take to fill each hold?
Ans.-The first silo, filled, well settled Ans,-The first silo, filled, well settled
and refilled, would probably hold 50 to
55 tons; the other about 30 tons, or perhaps a little better. We would strong-
ly advise buidding at least 26 feet high, ly advise building at least 26 feet high,
even if the diameter of the one had to
be reduced to ten feet. An average crop of ensilage corn in Ontario, accord-
ing to official reports, is about 12 tons to the acre, but a good crop 20 tons and
15 to 18 tons, and yiels of 20 aking a yield
over have been obtained. Tain of 15 tons, your two siloes of the size
yon proposed would hold the product of about six acres.
SETTLING FOR GOODS. 1. A is a farmer; B a local agent. B
by chance sold A an article which he
was not accustomed to selling, nor had any signed contract to do so. B and A
bargained verbally. B wrote a firm to tion. The firm shipped goods in A's
tors.
name. A took delivery of goods and ame. A took delivery of goods and
paid freight on same. Later on A found
that goods where not just what he ordered. A could not get A then com-
near or do anything. Ahe Airm sent sev-
municated with firm. The for
eral communications to B about the trouble, but B paid no attention. The
frim then took the matter up and made
A's goods satisfactory, and A was ready to settle. The firm approached A for
settlement for goods, and at that point
B showed up and aiso demanded settleB showed up and also demanded settle
ment. Has A to settle with B or firm
2. What is really required to author ize agents to sell and collect cash, o
take settlement on same?
Ans. - 1 . With 13 .
2. Generally speaking, there is no par-
ticular formality requisite. The relation of principal and agent may be created in
very many ways, and the fact of it may
be notified to a third partv, or to the be
public. also in a variety of ways. In
the case you state, however. it would
seent hat seen that is was really a principa
rather than an agent. PEA BRAN V.S. PEA MEAL.
Would you please publish in your valuCome paper the feeding value of pea bran
compared with pea chop, as there are two mills in this neighborhood at which
it can be bought? D . S \& S . Ans.-From analyses made at the on-
tario Agricultural collige and published in Bulletin 134. on "The Composition of
Ontario Feeding Stuffs." we glean the

followinir uvarage comparison $\begin{array}{cc}\text { Crude } & \text { Ether } \\ \text { Soluble } \\ \text { Carbo- }\end{array}$ $\begin{array}{ccc}\text { Protein } & \text { Extract } \\ 23.27 & 1.90 & \begin{array}{c}\text { Carbo- } \\ \text { hydrates. }\end{array} \\ 54.62\end{array}$ | Sea hulls or |  |  |  |
| :--- | :--- | :--- | :--- |
| pea bran... | 10.04 | 1.44 | 36.0 |
| per |  |  |  | From this it will appear that the pea

meal contains oier twice as much protein
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$


## "Votorinary, Exporiones",



 FOR SALE: IMP. HACKNEY STALLION, St. Regulus (252) 9000 Color cbestrut. Very superior action.
Age 7 years. Sure stock-getter. Any desired information chear Aames blackburn, creemore, ont. MR. A. I HICKMAN Court Lodse Eserton, Kent Enslome.






Dr. Bell's veteriniary Macten) Woneer 2ad kidnef. The 2othenemuts monder: Ageote

Liquor and Tobacco Habils. ${ }_{75}$ A. McTAGGART, M. Dtreet. Toronto. Canada
 Sit W. R. M. .ereath. Chief Jutico
Hon. G . W. Ros.






364


Has Imitators But No Compotitors. A Safe, Speedy and Positive Cure for






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 Nole

Ormsby Grange Stock Farm ORMSTOWN, P. Q.
dUNCAN McEACHRAN, F.R.C.V.S., D.V.S.
Imporer and brade of CLYDESDALES


 stal ion or gVen bros. Moscow P.O. and Station
VAN LUVEN Shires, Shorthorns and Lincolns dozen herits of borle evexterice young shire fillie

THE FARMER'S ADVOCATE

## Questions and answers.

## Veterinar

KICKING MAR Maro kicks in the stable and hurts he
I have put chains on her legs
less. legs. Thave
without results. Ans.-This
dicate otisease.
hav and hace and sus
hay
that when
her her hocks.
will
strike probably frighten her hat first, This wil
will soon connect the whit
whit and will probably censo kicking for frit pronable the habit would ceanse without
mechanical devico it you kept her loose

UNTHRIFTY COW
 Show has good appetite and milks well
coated. fell hed but is thin and roulth
cot





 OEDEMA
 freely without apparent cause. I took her
home. In about a week she swelled all
over the body and under over the body and under the body,
well as head and neck. She is not bel
werl ter yet, and when exercised she sweat
tery $\begin{aligned} & \text { trealy } \\ & \text { vot } \\ & \text { not }\end{aligned}$ She is a light mare, an very i
not
Ans
purge Ans. - This is a
Rurm of erysipelaa
Purge her with 8 drams al aloes and
drams Yurge her wit. Feed bram only tor 12
drams ginger
hours belore and 24 hours after admin
 drams nitrate of potash and 1 dray
iodide of potash three times daily,
onee
on good hay, crushed oats and bran an an good hay, crushed oats and bran and
at fer raw rots. As soon as her bowels
regain their normal condition after the regain their normal condition after the
purgative, give regular. slow
exercise

## costiveness in calf.

Civeness in a give youn a remedy for car
had them so bond they refised We ha

$\qquad$
$\qquad$
$\qquad$ Sola, half teapsonon of ginger: shake wwe
and give as a drench.
lepent if nere

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## GREAT DISPERSION SALE <br> at annandale stock farm, tillsonburg, ontario, on <br> Thursday and Friday, March 11 and 12, 1909 100 Registered Holsteins and Ayrshires 100 20 brood sows, 20 Shoats. AND 2 boars <br> Heavy and Light Horses. Farm Machinery, etc. Absolutely everything soes, as the <br> $$
\begin{aligned} & \text { Of the Holsteins: There is one daughter of Calamity Jane, and one of } \\ & \text { Calamity Jane 2nd ; } 28 \text { of the get of Prince Posch Calamity, son of Calamity } \end{aligned}
$$ Calamity Jane end; 28 of the get of Prince Posch Calamity, son of Calamity Jane 25.1 lbs. butter a week, sire's dam, Alta Posch, 27.1 lbs.- world's  Veeman A, 26.25 lbs., sire's dam, Sadie Vale Concordia, over 30 lbs. butter in 7 day. The blood of the best performers is found in members of this herd, and nearly all those old enough to be in milk are in the A. R. with large and nearly all those ond enough to be in math lbs. milk I day, 593.6 lbs . in records. Idaline Pauline De Kol, record 90.5 l days. A son and daughter of hers, and many other goods, will be sold. The service bulls are Paladin Ormsby and Idaline Paul Veeman, whoce 3 nearest dams average 27 lbs. butter in 7 days. These bulls will be sold, many of dams average ${ }^{27}$ lbs. butter in 7 days. their get, and cows with calf to them. The Ayrshires include the great public test cows: Jean Armour, Annie Laurie nd, and their sons and daughters. There will be 13 Ayrshire cows Laurie 2nd, and their sons ane in the Record of Performance, and there ane all that are milking are entered in the Record of errormance, and there are many good young things: the get of Scottie, whose dam has a record of ${ }_{12,733}$ lbs. of milk in ten months, and of Stadocana Advance, whose dam, Lily, and her dam, Almedia, are R. of P. cows, the latter with a record of $11,357 \mathrm{lbs}$ milk in 1 year. He will be sold, and a son of his from Jean Armour and others. Catalogue tells all about them. <br> The horses include : 1 ClvDe MARE, 8 yrs. old; wt. 1,710 lbs.; with foal. Span SPAN OF HACKNEYS, 2 and 3 yIS. oid, 4 horse hitches. All the farm machinery : Potato Cutter, Planter, Machinery-for fast work and labor-saving - -3 and 4 horse hitches. SEED CORN, SEED Potatoes, CLOVER SEED <br> Everything, in fact, of use on a large, up-to-date farm. <br> Everything, in fact, of use on a large, up-to-date farm. Meeting will be beld in opera house nights of sale. Addressed by able peakers. speakers. Time, up to 1 year, to suit purchaser, on approved notes bearing Terms: Tim 6 per cent. interest. Sale, under cover, commences at i p.m. IIth, and 9 a.m. 12th. Cattle will be sold 12 th March. Everything else 11 th. Mai. E.R. Alman, Maj. T.M. Moore, AUCTIONEERS: <br> Tillsonburg. Col. D. L. Perry © Col. L L. Pearcer <br> GEO. RICE, PROP., TILLSONBURG, ONTARIO



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IMPORTED CLYDESDALES
Clydesdales
highelass (imp.) mares, for sale right.
makie 4. 1999
QUESTIONS AND ANSWERS Miscellaneous.
FALSE BLOSSOM IN OATS,


 here should hav
was only chafl. the only chanf. 1 would like
the cause of it, and the remedy.
change of seed be advisable Ans.-This is a peculiarity of the oat
corp that scientists seem not to have
olved. solved. On this polnt Principal Crum-
ming, of the Agricultural College, Truro, N. S., writes: "False blossom". was
very prevalent all through the Maritime
erovinces very prevalent all through the Maritime
Provinces last summer. There was considerable of it in the college fields at
Truro. I discussed the question with Truro. I discussed the question with G
H. Clarke, Chief of the Seed Branch wh. thought it was due to seasonal condi
thous, excessive moisture tions, excessive moisture having prevent ed fertilization of all the blossoms, an
that, consequently, only the glumes an not the full grain developed. I do no
not hank that the cause was due to any lack of vigor in the grain, or any lack or
fertility in the soil, more particularly a we have found the largest amount of thi
in our best field. which was in almost traction engines. Can you give any information as 1. Is the thresher obliged to carry
plank to put on all bridges? 2. Is the council supposed to furnish 3. Is the thresher supposed to have the screen
road 4. Must river bridges be planked as
well as other bridges? If so, who has to furnish plank, as it would take four
planks and two men to keep the planks planks and two men
in front of the engine
5 Must the council build bridges stron onough to carry all traction engines
6. If an engine breaks through a brid 6. If an engine breaks through a
who has to pay all expenses ? 7. If an engine scares, a horse while moving along the road, 8. Is one supposed and help then by? Ontario.
Ans.-The matters about which you ask
ander ane mainly regulated the provisions made are so lengthy and elaborate that we cannot
well do more than refer you to such Statutes. You will find the information
you desire in the Revised Statutes of 1897. Chapters 236 and 242 , and amend ing Acts of 1900,1903 and 1904 . ABORTION IN COWS. Is there any cure for abortion in cows?
Is it profitable to keep a cow for an sther year after having aborted, and
vould she be liable to take it again after
veing cured? Seing cured?
Ans.-There are two classes of abortion
ans.
cows. due to injury or in cows. One due to injury or accident
the other contagious. In either case, th
tiglant use of disinfectants internall Iglant use of disinfectants internally
and outwardly, is the only hope of a
cure. The aborted foetus and placent should be burned or buried, the woml
injected, and the genitals washed daily ithed, and the genitals washed daily
ith a solution of carbolic acid or cor
ive sublimate, carbolic acid given th rosive sublimate, carbolic acid given the
cow internally in 25 -drop doses, thre
$\qquad$

$\underset{\text { stock-yards }}{\text { union }}$ Horse Exchange
$\begin{aligned} & \text { WRST TORONTO, CANADA. } \\ & \text { The Greateat Wholeale and Retail Horse }\end{aligned}$
$\begin{aligned} & \text { Auction sales of Horrses. Carriages. Harness, etc. every } \\ & \text { Monday and Wednesiay. Horses and harness on }\end{aligned}$
$\begin{aligned} & \text { Monction and Weornescay. Horses and harness on } \\ & \text { hand for private sale every day. }\end{aligned}$
$\begin{aligned} & \text { dort Quarter-mile open track } \\ & \text { dorthwest trade as spectally. }\end{aligned}$
$\begin{aligned} & \text { HRRBERT SMITH, Mangoer. } \\ & \text { (Late Grand's Repooitory.) }\end{aligned}$

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grape grange farm, clarksburg, ont.

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woodstock, Ont.
C. P. R. \& G. T. K. Athelstane Shorthorns For sale: ${ }^{5}$,
 stratiord. Ontario. Scotch Shorthorns $\begin{gathered}\text { Weifer cow offer four } \\ \text { for and }\end{gathered}$

Leading Tragic Man-Did you see how
paralyzed the audience in the death I paralyzed the audience in the death
scene? They were crying all over the
house? Stage Manager-Yes. they knew

> Get acquainted with Black Watch the big black plug chewing tobacco. A tremendous favorite everywhere, because of its richness and pleasing flavor.

THE FARMER'S ADVOCATE

Questions and answers. Miscellaneous.

COMPRESSED AIR AND AIR 1. What are the chiel points in the
construction oi an air conmessos ? Could handy man make one to be used on a rindmill ?
2. If a circular tank twelve feet long
in a and five feet in circumference was filled
to a pressure of one hundred and fifty ounds, or ten atmospheres, about how ong would it run a washing machine or
a churn o. . . using the nir through a
small rotary engine o. mall rotary enging or the nir through ab en engine ?
3. About what wolld

 working inside, driven by piston rod.
Best kind will compress both ways ther
tore, on each end of cylinder ther there must tore, on each end of cylinder there must
be two valves. one tor inlet and the
ind other for outliet, and so arranged that
when one is open the other is shut. The outlet valves should lead to one pipe
which is connected with which is connected with the storage
tank. The cylinder must be made very
smooth and true, and the piston must fit well enough to be practically air tight
when in action. douht whother handy man could make one that would be
of any use unless he had access to lathe and other machinery for fine and
exact work. The experiment would prob-
fo Just a few minutes. There would

 would be necessary to run the machinery,
it would not take long for the 20 feet to
expand to 200 it waul to 200 , and all the time the
expand to power would be decreasing, $_{\text {3. You had better write some firm }}$ which manufacturers prite somping machinery oo ascertain if you can get a compresso
separate from the engine to run it. Pos sibly some of the windmill manufacturers
have compressors for use with windmills. ILL-CONDITIONED HEIFER-UN THRIFTY CALVES.
$\qquad$
$\qquad$
$\qquad$


 half, twice a day, dry; clover, half and blue
trass hay; they do not put on fest chass hay; they do not put on flesh as the
hould. What's wrong? Give balance
ation for them. Ans. - Nature: if she doesn't, we do no
know what will. You might try feeding
he sow a little extra on such foods as the sow a little extra on such foods a
shorts, bran, roots, etc., with the objec
of fushing her up in condition of fushing her up in condition.
2. From description given, it is im-
possible to say what ails the heifer. Appossible to say what ails the heifer. Ap-
parently she is in need of a tonic. Some
of the propiotary stock foods might
prove beneficial in a case of this kind: prove beneficial in a case of this kind;
or purge with 1 y pounds Eppom salts,
and follow up with 11 dram each of sul-
,hate of iron and gentian, twice daily, for two or three weeks. in water, or a
a drench. Feed a ration containing
proportion of bran. proportion of bran. Oil cahe or flax seed
and clover or alfalfa hay
3. The trouble is probally due to a
deficiency of fat in the food. Starchy
foods. such as corn meal. cannot be suc.

## foods, such as corn meal, cannot be su cessfully used to subbtitute all of th natural futt of the milk. Young calv



## ERADICATES SCAB

The wonderful feature f V1 Fluid is its absolute
Won't Harm Trees safety to user, to animats,
V1 is a revelation in Fruit Culture. Kills the spores of Fungi, and all growths such as Moss, Black Knot Canker, etc. produces more fruit and fruit of finer quality and ppearance
appearance.
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WE ARE PRICING VERY REASONABLY Crooedy verect ouns Shorthorn Bulls



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Joun cLANCY.
Manager. H. Cargill \& Son, Cargill, Ont.
WILLOWDALE SHORTHORNS

Imported Clydesdale Horses.
J. H. M. PARKER, LENNOXVILLE, QUE

I can frice tor period Two High-class Young Bulls



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warch 4. 1909
QUESTIONS AND ANSWERS. Miscellaneous
market for tame rabbits

 ment in "."ha Farmer's $\Lambda$ doconte" woult bhaserf that wo can surgest harness oil Could you
hariess oil
Ans-A good oll for farm and toont


 $\underset{\substack{\text { grananata } \\ \text { vered to } \\ \text { to oole }}}{ }$

## title by possession



 claim the oxtra acre by possession, ha
ing been working it for fifteen years, can the cemmetery it frustecs inclose the hole ave acres. subsciriber. Ans.-Wo are inclined to think that 1 oo the acre in question. It is very pos
sible, however, that there may be ci cumstances which, in addition to those
tated, would justify a different view ing taken of the matter; and before de
itely deciding upon the course to ees proceeding to enlarge their inclosure FEEDING MEAL - UNTHRIFTY

Whem is the best time to feed meal
cattle, before or after feeding roots. 2. I have a two-year-old heifer which has not been doing well. When we took
her into the stable last fall she was very since: she feods well, but will not fatter Ans. -1 . The best way to feed meal
to sprinkle it on silage, chaff, cut hat
or straw. or on pulped or sliced root If fed alone, it wakes no difference whe
ther fed beforin or atter roots.
2. This appears to be $n$ form of indigetion. Purge her with 1 th th. Fissom
alts. dissolved in a quart of warm water, as a drenchtion commences. The
mashes untiil purgation of nux vomica, thre
give two-dram doses of
times daily. until purgation ceases. PROSPECTING UP NORTH. person renuires for prospecting up north
'ran he stake only one claim? An Untario. T. Ce
Ans - 1. Frospectine any place this I'rovince on Crown lands, a perso
requires a miner's license the cost
"hich is. from now until March 31 s nex, when all licenses expire, $\$ 3$. Fro
April 1st, the fee is $\$$., and a license
that date is good for one year.
$\qquad$
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THE FARMER'S ADVOCATE


INSTANT LOUSE KILLER KILLS LIGE


Imported Scotch Shorthorn Bulls 10


 | young cows and heiters. Catalogue being pre ared. |
| :--- |
| breding, will please you, Farm $1 / 4$ mile from Burlington Junction station, G. T. R. |
| FRED. BARNETT, MANAGER. | SHORTHORNS Ning bulls from 8 to 20 months old. reds and roans

to yearling heifers and atw ocw
cheap to make room in in stables:

CLYDESDALES
One pair of bay mares and one dark brown, heavy
draft and two spring colts.
JAMES MCARTHUR, Gobles, Ontario.
SHORTHORNS!

JAMES McARTHUR, Gobles, On SCOTT BROS., HIGHGATE, ONT

| Shorthorns! <br> BELMAR PARC <br> John Douglas, Peter White, Manager. Pembroke, Ont. | Calves for sale by our grand quartette of breeding |
| :---: | :---: |
|  | Nonpareil Archer, Imp. <br> Marigold Sailor.$\quad$Proud Gitt, Imp. <br> Nonpareil Eclippe. |
|  | Females, imported and from imported stock, in call to these bulls. |
|  | An unsurpassed lot of yearling heifers. |

Shorthorn Cattle A. Edward Meyer, and lincoln sheep
 to our best imporicec stery reasonable for quick sale.
yearling rams. Prics ver
J. T. GIBSON, DENFIELD, ONT.


 HAWTHORN HERD ${ }^{\text {OF }}$ (Prempasant Valley Herd


Shorthorns
 cood imp. and Canadlan-bred dams.
Drite of particulars and prices, or visit
oerosally. For Sale: 6 young
heifers. sired by
(imp.)
(irs
. P. O. Box 37 breeds scotch shorthorns Exclusively Twelve of the most noted Scotch tribes have reprer
sentatives in my herd. Herd bulla: Scottish Hero
 Glen Gow Shorthorns
 CLOVER DELL SHORTHORNS Shy herd are proitiable milking



Shorthorns, Cotswolds Berkshires.
 Chas. E. Bonnyycastle, Campbellford, Ont. Scotch Shorthorns! I am offer ing a few choice young bulls,
also heifers in calf to imp. bull. Will be leased to furnish pedigrees and prices john miller.

Registered Shorthorn Yearling Bull A Strathallan. Color red. Fine form and
well feshhed. with excelten quality and very
promising. Price moderate to early buyer.
Domising. good miker.
J. \& D. J. CAMPBELL, woodville, ONT. Scotch Shorthorns Cianade's greateet dreds Royal heads my herd. For sule are young
bulls and heifers show suff and Toronto winnes
 Wreengill Shorthorns Nout R. Mitchell \& Sons, Nelsen P. O., Ont.
ren
right
$\qquad$
Stoneleigh $\begin{aligned} & \text { E. HFFFs } \& \text { sons, brevers } \\ & \text { of Shorthorms, Leicesters and }\end{aligned}$ Stock Farm Berkshires, Younk stock or

## BRONCHITIS

Bronohitis is generally the result of a cold Bronchitis is generall the by exposure to wot and incloment weather, and is a very dangorous inflam matory affection of the bronchial tabee.
The Symptoms are tightness acroos the ohest, sharp pains and a diffioulty in at first white, but lator of a greonish or at first white, but later of aronchitis is one af the most general cousee of Consumption.

Cure it at once by the use of
 Mre. D. D. Miller, Allandale, Ont., Wood's Norway Pine Syrup for my little girl who had Bronchitis, from whe woom to tho other, but it whe not long untill wo could nee the offoot your medioino had on Ther. The

Sho had a bed oold thie wintor, but in Aoed of gotting another bottlo of Dr. wade roosipt Which I got from a neighbor ab long. My huabend highly praieos 'Dr. Wood's', and eays ho will coe that
of it is Always lopt in the house." The prioe of Dr. Wood's Norway Pine Byrap in 25 conta por bottle It in put up In a yollow wrappor, three pinne treen tho the many nubetituter of the original "Nor--ny Pine Syrup"
1854 MAPLE LODGE 1909 A fere fertra good young SHORTHORN bulls and
 A. W. SMITM, MAPLE LODGE P. O., ONT. $\frac{\text { Lucan Crossing Station. G. engare by the }}{\text { Married Man Wanted }}$
 lines. One having some experience in hand ing
bhow Shorthons and Clved sales epreferred. Com-
form fortable bouse on the farm supplied.
GEO. D. FLETCHER.
Wellington Co. $\begin{gathered}\text { GEO. D. FLETCHER, } \\ \text { Bthkham P.O., Ont } \\ \text { Scot }\end{gathered}$ Scotch Shorthorns ${ }_{\text {Four bull }}^{-}$Present oll reds four heifers all roans, all of breding age, in cal
to Lord Lieutenant. i $n \mathrm{p}$; all are imp. or bred direct
 There were some deficiencies in the early education of Mrs. Donahoe, but she never
mentioned them or admitted their exist ence. "Will you sign your name here?"
said the young lawyer whom Mrs. Donahoe had asked to draw up deed tran. "You sign it yourself an' r'll make me
mark," said the old woman quickly mark,." said the old woman quickly
"Since me eves gave out I'm not able "Since me eyes gave out I'm not able t
write a wurrd. young man." "How do you spell it ?" he asked, pe
poised above the proper space. "Spell it whativer way you. plaze.
said Mrs. Donahoe, rechlessly. ${ }^{\text {..since }}$ said Mrs. Donahoo, rechlessly. .Since
lost me teeth there's not a wurrd in th


THE FARMER'S ADVOCATE

QUESTIONS AND ANSWERS Miscellaneous

SICK CALF Calf was sick for about a week; would Do you think that frozen gress would cuase it. for it was on the grass for a
day. It seemed to waste away from the oo quive ailment. ${ }^{\text {git }}$ what you call the
SUBSCRIBER. Ans.-The eating of frozen grass by a
calf that was not used to such feed, would probably cause a form of indiges-
tion, accompanied by diarrhea, and loss Treatment in such case
in apetite.
Trirst, a dose of castor oil would be: First, a dose of castor oit
or raw linseed oil, to remove the irritat or raw linseed oil, substance, followed by balf dram each
of gentian and nux vomica, as a drench
on in a pint of water, twice daily for week.
FARM LANDS IN VILLAGE.
years ago our village was incorporated,
and they took in twenty-one acres of my farm. I have a frontage of about firty
rods, but nothing but the tenant's house is on the front road, as all my other
buildings are on a sideroad, and only the front of the farm faces the main road,
the rest running back. Is not my acre age in village property too much, and
if so what tax me for
Ontario.
Ans.-We do not see that it is, but would refer you for further information
to the Assessment Act, 4 Edw. VII.
Chap. 23 , Secs. 39-41. and more Chap. 23, Secs. 39-41, and more par
ticularly Sec. 40, as amended by Statute 1907. Chap. 41. Sec. 6.

SCARLET FEVER
A child is sent home from school
he showed symptoms of scarlet fever, very mild attack, which was prevalent in the community. The next morning the
Medical Health Officer (a doctor) Medical Health Officer (a doctor) go
over and pronounces it fever, but leave no medicine, then comes back again the evening and puts up a card at th
road gate. In about a week he come back, as someone has told him that some
of the rest of the family have it, which was not true. Then he comes back to lake down the card and disinfect tho by any of the family.

1. Who pays the doctor for his trips 2. Who pays tor the disinfecting of the 3. Can the doctor keep another child rom school when he would not pro-
nounce fever in the family? N. W. B. Ontario. The muncipality
Ans.-1.
2. Under the circumstances stated, defray this expense also, unless the head it the family is willing to do it.
3. We think so. ELECTRIC POWER LINE. The Niajara Power Company are build-
ing their line through the township, along the road in front of my farm. I have maple trees along the road in front
of my farm, inside the fence. 1 used the if my farm, inside the fence. I used the
reces for fence posts for a Page wire
ince cnce. The trees were planted there 27
years ago, and are nice shade trees
Whey are from 20 . hey are from 20 to 30 inches
cumference. There are 30 maple trees,
nd sorue large, iruit-bearing apple trees "hich have to be tahen away. 1. What price have the company to
vay fur each kind of trees, as they do Vay fur each kind of trees, as they do
not allow me to plant any trees along
here any more?

|  |
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|  |  |



WRITE FOR THE NAME OF OUR NEAREST AGENCY. 5
WAPLE HONE SHORTHORNS|Prizewinning Ayrshires

 5 mish-class Bulls, from 6 to 24 monthy monthis to 5 years of ase.
A. Kennedy \&. Son, Vernon, Ontarlo Hill view Stock Farm. Winchester station, C. P. I. Ayrshilres Trom a Prize winulng Hery-


Stoneycroft Ayrshires Choice young bulls and heifers of the
ing, combining show and dairy quality
largo improved Yerehtee ples from imported sime Large improved Yorkshtre
and dams, now ready to ship.
StoneycroftStock Farm, Ste Anne de Bellevue, Que.
AYRSHIRES $\begin{aligned} & \text { Bull and heiter calves trom pro, } \\ & \text { ducing dama. Right grod onee. }\end{aligned} \begin{aligned} & \text { SPRINGBROOKK }\end{aligned} \begin{aligned} & \text { have been brod with a viem } \\ & \text { to } \\ & \text { to }\end{aligned}$
 HOWGLEN AYRSHIRES For sale: 75 pure-bred registered Ayrshires, all
ages prizewinners ; many imported. Apply to allan p. blue. Eustis, Quebe
 Ayrshire Bulls from cows that averaged
 Box 88, St. Thomas, Omt

R. R. NESS


Homewood Holsteins
 M. L. \& M. H. HALEY, Springford, Ont., P. O. and Sta., oxford co The Maples Holstein Herd! RECORD-of-mERIT COWS.
Headed by Lord Wayne Mechthilde Cala mity, also
in the Record of Merit. Several choice bull and walburn rivers. Folden's Corners, ent EVERGREEN STOCK FARM
 Damis also in Record of M rite. O Of Cord Co., Ontarta
F. E. PETTIT, Burkessville, Ox Maple Hill Holstein-Friesians Special Olfer: I must sell in next 30 das
IWocils
 Holsteins at Ridgedale farm- Eight bull

When Writing, Mention This Paper.

MARCH 4, 1909
QUESTIONS AND ANSWERS Miscellaneous.
POISONING FOXES IN QUEBEC, Is it lawful to put out strychnine for
H. G. Y. Ans.-The fisheries and game branch of Ahe Quebec Government state that it is
forbidden, at all times, to use strychniue, or any other deleterious substance
whatsoever, to hunt, take, kill or destroy any animal mentioned in the Quebec HOG PASTURE FOR SUMMER. I have a piece of ground I want to
make into a hog pasture for next summer. Red clover, rape, or equal parts of moth Red clover, rape, or equal parts being tall-plowed? Ans.- If but used, you probably would got most satisfactory returns from rape. If, how-
ever, the land is in good condition, why not sow the mixture of wheat, oats and terley. as early in spring as the soil is
at. After pasturing for some at. After pasturing for some time, this
can be plowed and sown to rape during the latter part of June. Either Mam-
moth or common red clover is excellent moth or common red clover is excellen
hog pasture, but it is advisable to seed down to Mammoth with a grain crop,
the same as red, and in this way pasture is not provided until the following sea son, Some have advised seeding to The rape can be pastured in during summer and then the clover comes on for fall use but, of course, may not be past it is to be depended on for the
close, it following season. As arule, common ALFALFA SEEDING
sowed twenty pounds of alfalfa seed on an acre in the spring of 1907, with
one bushel of barley. It came up all ight, but in the fall the top leaves and part of stem seemed to die. In the spring of 1908, all that remained was an
trip four or five rods wide across the conter where a tile drain was. I plowed
I now have a piece of land that has been in pasture for six oor seven
years. There is a hill through it conyears. There is a hill through it con-
aining about two acres that does not
arow muck grass. The grow much grass. The sil is mostly side it is good clay. I would like to get
it seeded to alfalfa. Which of those plans do you think best to foltow? shall plow this spring and sow to peas.
If I sow canning-factory peas they will If 1 sow canning-factory peas, they will
be off in July. I could then work the ground and sow seod. If I sowed field peas, I could either sow fall wheat thi
fall, or barley in the spring of 1910, and
eow the seed with one of those crops. sow the seed with one of those crops. 1
intend to plow five acres. I am afraid thend to plow five acres. I am afraic
the alfaa might not grow if sown in
Iuly or August. By answering then above, you will confer a favor on an ol
sultscriter who is greatly pleased with "The Farmer's Advocate." $\begin{aligned} & \text { R. H. } \\ & \text { N. }\end{aligned}$ Middlesex Co.. Ont. 1907 was, evidenly, lack of adequate
drainago, and probably an acid condition tended seeding on the sandy land win hinite probably be lack of fertility and on
However, by fertilizing well
 loads of barnyard manure, both applied
tofore the preceding crop of peas,
protitatite and fairly permanent stand of

FỮS--HIDES
Write for Weokly Prico Liste.
Shipmonts Solloitod. TORONTO, ONT.

 month old. out of Record of Merit cows, sirect sy
Sir tietertie Posch De Boer, hhose dom and ire
dam average in official test 25.87 Ibs. butter in 7 WLI P. D.EDE, WTNTM


FARM LLAKEVIEW HOLSTEINS FAIRVIEW The greateat A. R. O. berd of


## OIL CAKE

The finest feed known for stock. Once a user, always a user. Sold ground. Write
J. \&J. Livingeton Brand

II CO. LIMITED
D O MINION LINSEED OIL CO., LINH Li Mon
BADEN, ONTARIO.


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 sooat old, from beet produc ing strains, "Fairview Stock Earm." FRE HOLSTEINS Two bull calvee, two yearling
 SnNs, Mespeler, onc Metal ear LABELS
 Young Holstein Bulls For sale : Two t1 months of age, sired by Corrnelius Holstein bud and
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Hampshire Down Sheep.

SPLENDID MUTTON
GOOD WOOL,
GREAT WEIGHT
Univalled in rapid and
WONDERFULLY EARLY MATURITY
hardiness of constitution, adapted to all climates, and in quality of lean meat. Champion againat ALL breell at the
great Smichfield Show, London, 1908 Pinsormation of Secretary, Hampshire Down Sheep Breeders' Association, SALISBURY, - ENEAAND.
highest prices paid for all kinds of mides, skins and

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Trappers and collectors, ship your
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Highest prices, fair Raw Furs
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Send your $n$. Price List-Free. We want you on TORONTO, I815. WALKERTON, 1895.
Will ORONTO, Export and Import.
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IMPORTED HORNED DORSETS
I have for sale a few of both sexes. the get
of last tearis champoion all round the cerritit.
Imp Remulus 2nd. Canadas banner fook
of Dorsets.
JAS. ROBERTSON \&. SONS. MIIton P.O. and
Sta.. C.P.R. and G.T.R.
Maple Villa Oxfords, Yorkshires The demand for oxford Down sheep and Yorke
shites has been the best lever had. Thave stilt for

 Oxford Down Sheep, Short horn Gat-
Ho to
Hes. -Present offering: Lambs of either ses. For


## SOUTHDOWNS AND COLLIES.  OXT AT FARNHAM FARM.     | prices reasonables. Writ. <br> AUCTION SALE OF <br> Yorkshire Hogs and Cotswold Sheep

9th of MARCH, 1909, $4^{1 / 2}$ miles south of New Hamburg, 4 miles north of Bright; $10 t{ }^{2 /}$, Con.
Township of Wilmot. Co. Waterroo. Commencing at 1 oclock p . m . Con sisting of he
Goo. M. Smith Sons, Haysville, Ontario

SUNNYMOUNT BERKSHIRES


 Maple Grove Yorkshires:-


## MONKLAND YORKSHIRES

JAMES WILSON $\stackrel{A l}{\text { Al agee for }}$ SONS, FERGUS, ONTARIC
Newcastle Stock Farm
DUROC-JERSEY SWINE I have a splendid low of tavworth sows

|  |  |
| :---: | :---: |
|  | O OIIO IMPROVED CHESTER WHITES-Larg |
|  |  |
| erd in calt | wecks to months ond Parse |
| a. Colwill newcastie. ont. |  |
| Pine Grove | res |
| 5. ciases. Our Jorkhires ate noter | \& Son. Streetsville. Ont. |
| Elmfiel | Hilton Stock Farm Mos teins and |
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The Secret of Dan Patch's Success
Harry C. Hersey, Trainer and Driver, Tells of the Care His Charge Receives.
"Dan Patch secms to have no age limit. bunch of timothy hay, with a fresh
The champion of all lightin harness lur.es bucket of wivt, are given him. At
















 cat...
"Dan



## LAND FOR

 SETTLEMENT！ Land are offered for settlement insome cases
FRER，
in others at
sol

 homestoed regulationans，special rail womes states，etce

Mom waines of odir inture，


Boys for Farm Help The maname of





THE FARMER＇S ADVOCATE


Maple－Symur Mers，㔼


Did you ever stop to think that you can make

 58 Welliniten SRI． Y Wrant mes AT ONCB on el

 When Writing，Mention This Paper．

## Offer to Weak Men！

 I make this offer to weak men，particularly those men who have spent their earnings for years on dope（the drugs that make themfeel like a young colt one day and ijke an old，broken－down hack the day after），those men who have tried so many things that they feel like a young colt one day and


## ELECTRIC BELT ON TRIAL UNTIL

YOU ARE CURED
claim that I can cure weak men；that I can pump new life into worn－out bodies；that I can cure your pains and aches，limber up your joints and make you feel as frisky and vigorous as you ever and and know it well enough to take all the risk if you will pay me when you are cured． No man can lose on this．If the cure is worth the price you don a big， to pay for it until you get it．When you are readhat you haven＇t got an husky and frisky specimen of pain in your whole body，and that you feel better than you ever adid in your life，I get paid．In＇you can＇t say it after using my Belt three months，then give me back my old Belt and I won＇，and I didn＇t why，as I had cured hundreds like it．Anyway，my patient returned the Belt and said I hadn＇t done him any good．He said he thought I had treated him honestly and wanted to pay me the cost of the Beit，because contract to be used again．I refused，and told him thate a dollar I hadn＇t earned． cure him or get nothuch for a cure．My Belts are as low as \＄5．That will cure some cases，and it won＇t cost you a cent if it doesn＇t．Did you ever see a doctor who wour ？
his money till you were cured ？ his money till you were cured
$\mathrm{I}^{\prime}$ ve cured lots of men who
I＇ve cured lots of men who
tors before they came to me．

This is the Way They Feel
the men who had given up cure for them，until they me upon Dr．McLaughlin＇s ctric Belt．Now they are $h$ joyous spirits．Pains gone，weakness has gone，
full vigor is in every ac－ you want to feel like iving a wear the grand ths at night for two ge every nerve with elec nated and invigorated．It steam into your run－
n body，drives away pain renews youth．

GetSome Lifo Into You What＇s the use of dragging
your legs about like a wood－ your legs about like a wood－ en man p Feel like a man of spirit．Away with the
pains and aches；of with this wretched feeling as if yous were seventy years old and
had one foot in the grave． had one foot in the grave． to your nerves；let me give
you a new supply of youth－ you a new supply of youth－
ful energy．－Let me make you feel like throwing your chest out，and your head up， and saying to yourself，＂I＇M A MAN ！＇＂Let me give you youthful fire，vim and cour－ age．I can do it，so that in
two months you will wonder two months you will wonder
that you ever felt so slow and poky as you do now． Act to－day．Life is
so enjoy every minute．

SEND FOR THIS BOOK TO－DAY fil fire，want to feel big，husky and powerful，with your veins full of ＂II out this coupon and send it to me，and I w．ill send you a book which
 Tho were ust as weak once，
ong and healthy human beings．Cut out the coupon and sent it to－day
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# Do you realize exactly what a telephone means to you, and at what little cost you can have an efficient service - 

H
TAVE you ever gone carefully into the ailvantages of having a telophone on your farm?
Have you, ever considered what help it would be to you? What money and worry it would save gou?

Let us just see what it dors mean to you?
When you want something from town-a new part for your reaper, a. particular kind of wire fencing, or any of the many things that you may want from time to time which requíres a special explanationunder ordinary circumstances you have to go into town yourself and lose a half-day that could be profitably spent on your farm.

Over the telephone you can explain exactly what you want, make sure your dealer has it, and then send a boy for it.

When you are ready to sell your cattle, grain, hay, etc., you 'stand to lose considerable money unless you know what the current prices are before you ship your produce into town. With a telephone it takes you but a moment to find out how the market stands, and you can
sell your products when prices_are highest.
Just think what a telephone means to you when sickness comes-getting the doctor in a hurry may mean the saving of a priceless life.

Think what it means to you to be able to call upon your neighbors for assistance in case of fire, violence or accidents.

Haven't there bèen times when you could save an animal that could be ill spared, if you could get a veterinarian in time?
Besides this, think what it means to your women folk - social chats that brighten the day, arranging of visits, getting up parties,-the telephone puts you in close, intimate touch with your neighbors in spite of the distance that separates your homes.

You can have this valuable service at very little cost.

But the only way to get the right service is to get the right telephone. You must have one that you can depend upon day in and day out-one that will always give you perfect service. A reliable telephone is of inestimable value-a poor telephonc is worse than none.

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Write to-day

# rNORTHERN ELECTRIC <br> Nor hameractuanco co umitio 

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Mannfacturers and suppliers of equipment used in the constr
and nasintenance of Telephone and

WINNIPEG
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