PUBLISHED EVERY WEEK．\＄1．50 P．YEAR．

＊Agriculture，Stock，Dairy，Poultry，Horticulture，Veterinary，Home Circle．．⿻丷木

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istribute the toad 6th．It is fited with engine trucks that
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LONDON，ONTARIO，APRIL 29， 1909.


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## Confession of a"Bucket Bowl

## - -12

This is an extract from an article written by a prominent manufacturer of "bucket bowt" cream separators. He frankly admits that " bucket bowl " cream separators cause trouble. Remember, that when he says "cream separator," he means the "bucket bowl" sort. Here is the extract:
"Eversbody who has ever used a Gream Separator for any lensth of time lnows that it is a difficutt thing to leep the bowl in perfect halance. When a separator bowl dels out of halance in use, the machine runs rouith, maling a peculiar buzz or roaring noise. When in this condition, it does not malle as cleari a separation as when it is rumint in tood halance. There is, therefore, a loss of fit in the skim milk, dae to its runinis out of balance; besides this, the roulh runinint of the howl multiplies the wear on the learinde many fimes, and if the howl is not sent hack to the factory for rehalancind, it will leep lettind worse, and soon wear out the Maker whole separator. worse, and soon wear out the the meachine apart. Cane ma's leading industries. Backed by 29 . Wery separator manufacturen and most separator years experience. 1908 sales way ahead of 1907 -out of sight deaiers, have realized, years ado, that if a separator could be made self. of most, if not all, others combine. 1909 is proving bis made in separation,"
Thats the whole story. "Bucket bowls" are wrongly built cannot be kept in balance, begin to rattle, shake, create, friction,

The Sharples Separator Co.
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Winniped, Man.



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## Making Hay

As all progressive farmers are at all times ready to adopt any new machines which prove economical, we print a letter and clipping received by Dain Manfg. Co., Preston, Ont., from a party using their Loader.


Kingsmill, Feb. 27, 'o8 Dain Manfg. Co.

Gentlemen,-1 enclose clip ing from "Aylmer Express, of July 25th, 1907
"The haying outfit of L. M. Brown, of Kingsmill, put in ${ }_{31}$ loads of hay one day last week, the product of 14 acres, $t$ wo of which is orchara. Twenty-eight loads were loaded with a Dain uith lon one on roller rack with only one man or four loads the man drove his own team. Mostly drove ied in a shed with ordinary horse fork, although a gasoline engine is used for ungasoine eng the barn. This
loading in looks like very fast work, and shows what can be done by an up-to-date farmer with modern machinery, even if men are scarce.
I do not regard this as a big day's work, the man with loading gang at work, and they had long narrow sheds to work in most of the time.
I believe one man with your roader and roter racks, soar as wour all day, if empty wagons are brought to him in the field.

Respectfully yours,
M. Brown

For further iuformation and circular of this machine, write

DAIN MFG. GO., PRESTON, ONT.

## Columbia Wooden Horns

 Although wood horns have
been made and been made and ured hav a
numb $r$ of years, we have never placed one on sale until
recently, becau-e we were recently, becau-e we were
unable to find a horn that waud meet all our exacing requirements, both as to ap-
pearance, acoustic qualities pearance, acoustic qual,ties
and durable construction and durable construction.
Our horns are made of sea-
soned three-ply veneer, oak or mahogany, cross-b+nded
and so contructed that and so conntructed that they
will absolutely not warp or lose their shape. Both the
outside and inside layer of veneer are arranyed so that
the grain runs spirally. There is only'one joint on the cide, patented wood rim, which holds the bell in perfect shape.
This horn embodies all the
goord points of other horns, good points of other horns,
with many improvement
No. 41, Oak, price, \$12.00.
o. 42, Mahogany, price, $\$ 15.00$


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It costs a little more in the beginning because it is made of Trinidad Lake Asphalt, the perfect natural waterproofer and weather-resister

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# The Farmer's Advocate and Home Mragazine <br> Persevere and Succeed. 

I.ONDON, ONTARIO, APRIL 29, 1909

EDITORIAL
Some Advantages of Earth Roads rushed stone is essential. to the building an maintenance of good roalls. Whi
travelled roads, a metal coating advantage-in fact, almost indispensable - an benefit to almost any highway, yet, for the less travelled back roads and concessions, it is by no economy of graveling, unless the material is very handy to apply, is open to serious quistion. By frequent and timely use of the split-log drag, combined with tiling, where necessary, earth roads subjected to ordinary use can be kept in very satisfactory condition at all seasons of the year save at brief intervals in spring and during heavy to get into anything like the dire condition which we have grown accustomed.
And there are several distinct and noteworthy First, their maintenance is simpler and cheaper, for the subsiding earth may be simply plastered back over the crown in spring, whereas the muc on a gravel road may not, without compunction be thus treated, but should be scraped to one side, and then disposed of elsewhere, which is laborious and expensive. Secondly, the well-kept earth road is easier on horses icet and legs, as well as on vehicle tires, springs and gearing. Many farm horses would not need to be shod from spring till fall were it not for travelling over bills might be saved, and the horses' underpinning be the better for it. a smooth, draggel earth road makes a better bot om than a gravel face. While these are, per haps, minor points, ther are worthy of due conentrating effort (on the less-travelled highways) upon tiling, ditching, and maintenance of the earth surface in prime condition by the split-log drag. Be it remembered that expensive roads are not omy expensive to buld, but expensive to properly
maintain. An earth road is easy to construct, and inexpensive to heep, in serviceable shape. If used to fill trenches in which tile had been laid, he roauts being left surfaced with the original

Co-operation in the Poultry Industry


Ther who keeps hens. or of the small poultry-
man. These latter want a ready market for eggs
dressed. The Poultry-producers' Association of Fastern Canada promises to do this. It seems to have started along proper lines, and should

An Easy Start in Spraying

## .i.

 Carmers, while hundreds of thousands of others do not even arrive at the interrogative state of mind, the struggle with scale, fungus and moth. And vet, if the truth were only know, icere is scarcey any operation in the whole category of field and orchard practice which would pay better than praying, intelligently, systematically and carefully performed. But the task seems formidable to those who have never seen it done, or become interested in it. Fintomology and spraying are interested upon as a complicated science and art, which only the expert professor, armed with microscopes and knowledge gleaned from scientific All this is a great mistake. While there are fine points to observe in spraying practice, and plenty for the studious to learn, still, any farmer of ordinary intelligence can, by following directions given in the spray-calendar number and other issues of The Farmer's Advocate, pre pare and appore mixture and thorough sprayings with Borde Chief of the Fruit 1) ivision, at Ottawa, declares will control seventy five per cent. of the insect and fungous pests attacking the apple. The first of these should be put on when the leaf-buds are expanding; the second just after the blossoms fall, and the third week or ten days later. Other sprayings are occasionally required, and usually beneficial, but make a start with these, and, as you study the parent, und their necessity and occusion under stood. spraying sometimes shows little result, beSpraying sometimes shows little result, bethere is comparatively little trouble from insect benefits, because not thoroughly performed, or, mayhap, Bout, taken one year with another, if aroperly done, according to directions, spraying will pay, and pay well-so well, indeed, that an than he would think of neglecting to pick thecrop. The work, while not the pleasantest in the world, is not so bad, if one has a good, up-to-date pump, and prepares himseli, horse and
harness for the job. The pump will aiterwards come in very handy for spraying potatoes, as
well as mustard in the grain fields, and for "hitcwashing the interior of the dairy barn. Buy lend it to a neightor. A spray pump is some
$\qquad$
$\qquad$ respondents still write, asking us questions, but
These letters ar iorgetting to sign their names. ve do not demand names for publication, but the

Experiments with Dual-purpose Grades.

## Macdonald College Animal

 usbandr- Department, reports that none of the ais in their imported dariy Shorthorn herd has failed to pay its way, while some have given handsome returns over cost of production, their calves, also, proving growthy and satisfactory The intention now is to add some more grad shorthorns to the herd, breeding these to a daily horthorn bull, raising the hefer calves aores. ers, and the male calves for beefing purposes. I this wasibility and economy, under cer ain conditions, of producing beef and milk in the same herd, and from the same strain of stock, Prof. Arkell's experiment will te watched with great interest. Mr. Grisdale, at Ottawa, has seen doing some work to this purpose, with decidedly promising results, but the importance of the subject is such as to warrant duplication at every public experinent station and agricultural ollege in Canada. It is in no way challenging the field of the special dairy breeds to assert Canada many thousand farms in the Dominion of Canada cult obe such as the Short horn ought to be.O. A. C. Annual Report.

An exceptionally instructive document is the 908 annual report of the Ontario Agricultural College, just to hand from the With a minimum of routinary review is combined a large mount of information in almost every department of the College work, gleaned from research, experiment and observation. Incidentally, we note that the President records a larger attendance in 1908 than ever before, there being, from January 1st, 1908, to December 31st, 1,225 tudents, who received instruction in one or more epartments of College work. The regular agriarcural courses wery being taken, and seventy-two students, in addition, obliged to Hoaril outside Macdonald Hall has been also filled to its utmost capacity with young ladies. To review the report by deph ments would he impossible within the limits of one article, made elsewhere, and in future issues, to the results of investigations reported upon. Meanwhile, we advise every intellgent ontario farmer who is that aiready on the cepartments mailing

Mistake of Mixing Breeds.
The idea is apt to prevail in the minds of arts who have had little experience with pureprinciples of breeding, that, by crossing two
 wo breeds of a similar class-say, of the beef ,reeds of cattle-which have been long bred for maturity, the result of the first cross of purereds has often been a very sutisfactory beef animal, in some instances quite equal to the best specimens of either of the breeds used in the xperiment, yet experience has not proven that ven in the first cross the prizes have been as
numerous as the blanks, while the second and ubseduent rowes in aither direction have been subsequent crosses in either direction have been
ass successiul or satisfactory. And the same
the Farmer's Advocate and Home Magazine.

the leading agricultural journal in the the william Weld company (Limited) john weld, Managr Agents for The farm er's Adrocat

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the william weld company (Limitrid),
blood in the effort to improve a herd of common or grade stock by the use of pure-bred sires. A purpose, without the introduction of alien blood, becomes strongly prepotent, and his progeny, from females of common or mixed breeding, having no particular characteristics, are almost certain to inherit, in a marked degree, the peculiar qualities
of the sire, or of his immediate ancestors. It has, therefore, been by the persistent use of purebred sires that improvement and the fixing of
types aud functions in all lines of live stock has types and functions in all lines of live stock has
been achieved, maintained and perpetuated. The esulting produce of the first cross of a pure-bred sire mated with a common or mixed-bred female is, as a rule, a more marked improvement upon
the dam than that of succeeding generations from sires of the same breed, for the reason that in the lirst cross the stronger blood of the sire pre-
dominates in overwhelming degree, the produce dominates in overwhelming degree, the produce bred, while in following crosses the influence of the sire is less noticeable proportionately. Still.
it is only by continuous use of sires of the sam. it is only by continuous use on simals are graded up and acquir.
breel that anise
fixed characteristics, and becone eligible for regis ration as pure-bred
The idea that a cross of two breeds, each hav
ing excellent qualities of a different character ing excellent qualities of a different character
would be a good thing, combining the excellencies of both in the produce, is fallacious. The idea
is apt to be entertained that a cross of Jersers is apt to be entertained that a cross of Jersers
and Holsteins, for instance, would be an im provement, because the resultant heifer will giv
large amounts of rich milk, combining the leading large amounts of rich misite chath both breeds. But when $t$ wo animals are mated, each one of which is th.
result of years and generations of breeding with result of years and generations of breuroses being
particular purpose in view, these purposen
dififerent in the two animals, there is a clash of difiepent in the two animals, there is a clash
prepotencies, and the result cannot be predicter
with with any certainty. It is not unlikely to the
thr comparatively small amount of milk of the
I Iersey. and the poorer quality of that of the Holstein, or vice versan. Mixing different stron
Hoods is therefore largely a gamble the chance bloods is. therefore, largely a gamble, the ct
being as likely the drawing of a blank
the and color, as well as of production. On the oth hand, when the
of mating of animals of a certain type of struc
ture color or performance, the result will be tha ture, color or performance, the result will be tha
the influence of the sire will be the strongest in
the descendants, that the general quality of the
herd will be improved, and the probability of the improved animals being able to transm
of their improvement will be increased.

Honest Pay for Labor Given.
Many of the young people plan and scheme to get rich-and enormously rich, too-without hard
work.
Our country mania for sudden wealth. Farmers' sons ary dazziled byddenness and ease with which these fortunes the suddenness and ease with which these fortunes and the plow becomes too slow an implement of
accuiring a fortune. The ten, or fifteen or acquiring a fortune. which their plain, honeat
twenty-five thousand twenty-five thousand which their prant
fathers have accumulated they think too little. and Millions ! Millions !" is the mad cry of the
age. Young people of the farm, if you value a age. Young people of the farm, il you vatue
good conscience, ase of mind and henith of body,
keeon away from this swirling, rushing, hissing, good conscience, ease or mind, and hening, hissing,
Keenp away from this swirling rushing
boiling maelstrom of commercial madness. honest, and willing to earn your living. Do not
he deceived by the rogue's maxim, "The world owes ane a living." This is wrong, because the
world owes you nothing but a iust return for world owes
your labor.
If the country youth could only realize what untold pleasures were to be found on the farm, they would never think of leaving it. The counin the country is more natural, and city life more artificial. Life on the farm is nearer an ideal life than anything the city can afrord advantages over the city residence. The skies are clearer, the air is purer, and the world is brighter. There is no smoke from ten thousand chimeys.
and furnaces to darken the heavens. Instead of the fumes of the factory, the farmer has the fragrance of fiower and foliage. Instead of
drinking the city water, whose purity it exceeddinkly questionable, he drinks from the brook, the sparkling spring, or the cool, deep well. M ntead
of the ceaseless rattle of wheels and hoofs on the of the ceaseless thetre farmer lives in quiet and com-
stony street, the faren
fort fort. no sound to break the quiet save the lowing
herds, the chirp of birds, or the soft music on the breeze.
Then, the farm presents substantial comforts.
The farmer eats his own clickens and drinks milk The farmer eats his own clickens and drinks mik
from his own cows; he raises nearly all his own eatables, and knows just how healthy and clean
they are. The farm, also. combines much pleas-
 and simple habits produce a robustess of health
which makes it a puxury to live and work. Sleep
is seen for work. The work on the farm is not now so severe as
as it formerly was. Inventive skill has lifted the
burden from human shoulders, and now much of burden from human shoulders, and now much of
the work is done by machinery.
Instead of wearily ploding aiter many implements, the farmer is now lermitted to ride in easy comfort.
The swift harvesters have taken the place of the The swift harvesters have taken the place of the
keen, flashing sickle. $\begin{aligned} & \text { Instead of the fail, we }\end{aligned}$ hear, the buzz of the steam-driven threshing machine. Even the rustic simplicity of farm life has yielded to the revolutionizing power of this
wonderful age. Instend of pumping water and pulping roots, y, hand, we may use the gasoline encine or windmill.
most independent man in the world, and this is undoubtedly true. When citv inhatitunts are glad
to make a living, the farner is living without Teolines the coct and laving un money, bessides.
At all
cents, his living is alwavs sure.
He al
 Chose cares and anxietics which harass men in farmers' sons and dauchters want to leave the
farm and think anv other occuluation preverable
to thut in which then on the farm is by no memns incompatibie with culture refinement and comnort we showld accus
has its farmines learn to anok on the friate its poetry, side and to enjow its spiritual ideal cill There is so much
eniovment in it that



 of the Canadian bacon industre, mentioning as a on the faculty of the Ontario Aericultural colProfissor, if journalist now. then a krant, and

An Inversion of Common Sense.
It is a welcome sign to see the question of
ariff protection so much debated in your columns, and especially welcome, to perceive how rarely, the irrelevant questions of partisan politics ob-
rude themselves. You are to be commended for creating such an excellent "open forum," in which all varieties of opinion and argument find
xpression. For some months now I have bein expression. For some months now articles and erymunications appearing in your columns, dealing with trade matters, and 1 am at last stirred to offer some suggestions by the letter of "Pro
Bono Publico," appearing in your issue of April Sth. By the way, would it not be appropriate for "Pro Bono Publico" to write over his own signature? It would then seem that he had the ull courage
himself. " Pro Bono Publico" admits that free trade
has some meaning when applied to "trading horses, hats, jackknives, etc., with the neighbors,"
but maintains that it is a misnomer when applied to international affairs. On the economic side, í challenge him to show one reason which would ustify freedom of trade between the inhabitants of two counties of trade across international boundaries. So far as the advantages which arise from the ability to exchange commodities are concerned, int exist. For political reasons, tariffs have been established, and are still maintained; and, unfortunately, have been discovered privileced classes. As settled commercial policies, however, tariffs for protection or revenue are allacious in theory, and pernicious or wasteful It is quite true that many modern civilized at her wits'-end as to how to raise the money to pay huge war-debts and to build Dreadnoughts, tariff or inland revenue taxation. But the fact hat protection or taxation by means of tariffs is juery common practice, does not by any means
justify it. Time was when intertribal warfare was incessantly waged, and even now the re-
sources of nearly every nation are taxed to the utmost to maintain defensive or offensive armawarfare will be welcomed, doubtless, by even "Pro were modern nations somewhat more kindly disposed towards each other, so that they felt free national judicial tribunal, perhaps ". Pro Bono Publico "would go still further, and admit that
the energy and wealth thus freed for productive purposes might do not a little in making the ase, poverty and vice from human society. It in mind, also. that one of the most common conis the existance of huge war debts, and the fancied necessity for huge naval and military expenditure. rrotection, as "commercial warfare," is very
closely related, both as cause and consequence, to he warfare that involves hloodshed. prove how great were the import duties which
England levied from 1787 to about 1850 . But he forgets entirely to describe the conditions of that time, during two decades of which Eagland existence with Napoleon. And he forgets, also, to keep in mind the conditions of the masses in aws. let him read Kingsley's " Alton Locke," "Yeast," and ". Two Years Ago," all dealing
with conditions between 1830 and 1850, and let him bear in mind the continued reerences in gling, and revenue cutters along the shore, and
other, brutal and miserable social conditions, and he will not state, with such evident complacency Finglish statesmen as transcending all others in importance. hence for centuries (?), by a high pro-
tective tarifr. the home market was guarded for the British farmers."
It is a strange inversion of common sense. de-
veloped by a constant viewine of exchange wholly from the standpoint of the producer, that makes "Pro Bono Publico" and other protectionists lament the "flooding of the home market " with
forreign commodities. "In 1906, agricultural ceronl products (exclusive of tropical or semi-
tropical fruits, (atc.) were sold in the Canadian markets by . producers to the nlarming ex
tent of $\$ 18$, $i 06$, worth tee nothing to be alarmed about, or to wonder croods. or orsume we got our money's worth in a coond one. Nonc " Pro Bono Puhlico" fear Iriving of Canadian agriculture to the wall
throug compatition with Yankee farmers? Such
a fear would bo a poor complinent to the skill
intelliyence and industry of Conadian agricultuut ists. No for and they will hold their fair fiel and no favor, and they wil hot their own as
much as they deserve, and that is all they are entitled to. It would seem, from "Pro Bon Publico's", anxiety regarding our extremely "unof no mutual benefit in an ordinary commercial transaction. Only the seller is the gainer; the nuyer is to be commiserated. But only a Midas
nould soberly and persistently adhere to such a "ould sobery and persistenty auhere to such o
view. Most of us part with our money (which we" have taken in exchange for things produced
and sold) whenever we want certain commodities exchanyeable for the money; and the fact that Canadians pay
States farmers more than three dollars per capita for cereals, while the shrewd Yankeess send uap back
less than three cents per capita," is in itself less than three cents per capita," is in itself ui no moment whatsoever, and it ony seems to be a
loss to Canadians to those whose minds have loss to Canadians to those whose minds have
been hlinded by the current balance of trade fallacies A little genurne refiection upon the nature of trade will dissipate the obscurity
has so long enshrouded the whole matter. Finally, the contention that protection makes
the noor poorer, and the rich richer, is assailed the poor poorer, and the rich richer, is assailed
Th fict ion. This position would aford scope as fiction. This position would afford scope for
another long letter, but I must content myself with affirming that one of the most conspicuous evils connected with the protective system, recog-
nized even by the great Republican party in the nized even by the great repubivan party in the
United States, is that it has favored the creation and banetul operations of trusts and monopolies.
It is casy to talk of doing away with tariff favoritism by a stroke of the pen, it it a very difierent matter to actually carry out such good
intentions when the favored parties are strongly intentions when the favorcd parties are strongly
entrenched behind and within legislative bodies.
Brant Co. C. Good.

## HORSES.

Soundness of Bupeau Stallions. In the Horse Department of "The Farmer's divocate "of April 15th, publicity was given to editor from a well-known, esteemed and capable Quethec, who sudge and subscriber in the Province of Burcall of 13reeding stallions, concerning which he wrote . " One of them had a well-developed ringbone. another a curby hock, and all three wer sired in a high-class Thoroughbred
Immediately on receipt of the letter we pro
(medted to correspond with Mr. Ryan, manager of the National Bureau, as well as a number of other the horse alleged to have a ringbone is not Gureau stallion at all, but a horse inadvertently classed with two Bureau stallions, through tenographer's failure to distinguish clearly in letter referring to them. The two of these three
horses which do belong to the National Bureau are Rosemount and Ostrich, both of whom hav nar: surgeons in Montreal-a different one for ach horse-and pronounced sound for breeding Gurposes. Concerning Rosemount, the veter writes . . Rosemount has a great conformation and consequently ought to leave behind him a
great prokeny, if brought to him proper mares to second his beautiful exterior and appearance. strich, Mr. Ryan claims, is perhaps the soundest Thoroughbred ever seen in America, having raced old. He was presented to the Burcau by Algernon naingerfield, Secretary of the New York - oockey "lub. Besides the veterinarians" certififrom the keepers of these horses. (uur corre spondent's unfavorable impression is partly exWained by the fact that the horses were ill-conditioned at the time he saw them, both being

An Importer's Views on Clydesdales.
 ". Farmer's Advocate,", recently interviewed by a his opinion that to consanguineous, breeding is stance and constitution found in many Clydesdales of the type at present popular with Scottish breeders and judges generally, but that,
the same cause may, in no small measure, the same cause may, in no small measure, to
gether with high feeding and lack of exercise, be attributed the comparative infertility character istic of not a few stallions of that class. Whether
or not this theory be correct to the extent. or not this theory be correct to the extent
claimed by the breeder interviewed, there would appear to be reasonable grounds for the conten tion. The greater size and weight of the Eng ish shire horses was claimed to be owing in part of the districts in which they are principally raised, and also to the fact that the crincipally more liberally fed during the first two years of
their lives. It was also claimed that, in the their lives. It was also claimed that, in the
northern counties of England, bordering on Scotland, the Clydesdales, as a rule, are of greater substance and weight than in the sections o
Scotland in which they are most numerous an bred more on what are regarded as fashionable lines. The opinion was also expressed, heterodox as it will doubtless be declared by many, that a
judicious admixture of the blood of the two breeds. Shire and Clydestale whose origin is so closely allied, would probably be influential in correcting the faults and imnroving the vitues of
both. The registration rules, of course hinder both. The registration rules, of course, hinder
the adoption of this suggestion, but it is prac tically certain that, by wise selection of sires within the breens, the desirable characteristics of more width and denth of body in the Clydesdale and more refinement of bone and soring of pas-
tern in the Shire, together with less hair on the tern in the. Shire, together with less hair on the dwmand a hoavier, wider and more massive ani-
tal than the present-day CMydesdale is. We all
like the quality and the underpinning, and the like the quality and the underpinning, and the
iction so characeristio of the modern Clydestale,
but unless constitution, fopth, width and weight but umess constitution, depth, Wedth and weight


may have the height, but have neither the weight could easily name a dozen horses of the latter period that I think were much heavier than any
horse at the recent Glasgow Stallion Show or last year's Highland society show. You may reply that these old-timers had shorter pasterns and wider action, which, of course, is true; but
were they really inferior as dratt horses? Were were they really inferior as draft horses? Were
they not nearer, the ideal lorry type, and consethey not nearer, the ideal lorry type, and conse-
quently the ideal American type, than the great
bulk of present-day prizewinners?

## LIVE STOCK.

Dairy Shorthorns at Macdonald College.
The Farmer's Advocate . nformation regarding our Dairy Shorthorn herd at Macdonald College, I have pleasure in writing the following few brief notes, and of giving such ecords as we have to date. The herd has been in our possession for about a year and a half, and it will be readily understood that that is scarcely sufficient time to make a satisfuctory
test of the cattle, particularly as much depends upon the ability of the heifers raised to come up
to standard. Some of the cows have exceeded to standard. Some of the cows have exceeded
our expectations, and some have disappointed us. on the whols, however, we are encouraged to continue, and, if present promises are in a measure fulfilled, our Dairy Shorthorn herd should prove
no unimportant factor in the returns from the stable I cannot yet give an average return for the full number of cows, since all have not completed their year's milking. A few yearly rec-
ords, however, we may present. Greenleaf 23 rd - Calved, October, 1907; gave, from January to Selember, $1908,5,835+$ pounds
milk, and 240.24 pounds of butter.


Lord Mayor II. (19790).

The Clydesdale Controversy.
Alex. Galbraith, president of the American Clydesdale Association, in a recent letter to the
scottish Farmer, endorses to a very considerable extent the view taken by Mr. Macaulay and Mr. MclBane, in their letters to the same journal, as for greater width, depth and weight in the makeup of the Clydesdale than is found in the type popular in Scotland at present, and generally preferred by Scottish judges in placing awards
at the shows. Mr. Galbraith says: Americans
and ('anadians. althoueh and Canadians, although preferring difierent Weeds at present, have very similar ideas as tor
"hat constitutes a model draft horse. They each What constitutes a model draft horse. They each
dhemand a heavier, wider and more massive ani-
What Mr Man has heon vers prompt, paind

Buttercup-Calved,
October, 1907 ; gave, October, 1907; gave,
from January to Sep-
tember, 1908, 5,621 ,
 Tulip, with her first calf, gave 4,082 g pounds milk
Furbelow Count-
with her first
 pounds butter. Barrington Duch-
ess gave 9,750 pounds ess gave 9,756 pounds
m i 1 k , and
420.9 pounds butter.
Barrington Duchess also gave, during
the month of March, The month of March,
$1907,1,382$
$\mathrm{~m} \mathrm{mil}^{\prime} \mathrm{k}$, and
pound
60.13 milk, and These cows tested
 cent.; Buttercup, 3.5
per cent.. Tulip, 3 per
cent. Furbelow
 Barrington
Duchess, $\begin{array}{r}\text { B. } 6 \text { per cent. }\end{array}$
or number of cows of the herd have freshened again, and better promise this year than last.
good feeders and The caltle have been good feeders and easy
milkers, and have, we think, presented rather an attractive appearance in the stable. All of them have as yet paid their way, and many of them
have given a handsome return, besides cost of maintenance. ot of four cows and four calves evoked very bullab comment from the students present. The
bell, and our herdsman claims (lam to be the most active energetic bull in the and the crop of calves are we think, rather promising. Most of thom has been heifers, and Their pemral appearance. as far as type, substane and (palit is concerned, are such as we 14 monthacold tomil colf out of Barrimgton Duchess
 for:s weil known hul, "hich "c. "ppect to reserve

 Wh the freding and whan When of the ealves, ?ur thoumh to rowe thom much as our other dairy
in flesh, but such management did not prove most satisfactory, as it was difficult to keep
them thriving well when in rather thin condition. This year we have made it a point never to lose
the early calf-flesh, and, while not making them the early calf-llesh, and, while not making them
iat, we have fed thein so that their ribs appeared always reasonably well covered, and we have kept them, therefore, in a hearty, vigorous condition. This has proven much the more satisfast months,
tem, and the calves have, during the past been the best feeders, and, I think, the best doers in the stable. We do not expect that this will detract at aH
heifer calves.
Recently we purchased some grade Shorthorn cows, and are mating them to the dairy Shorthorn bull, and later on we experce cows for experimental purposes. The heifers will be raised as milkers, and the bulls will be steered and fed. We think, from this latter experiment, we may be able to
ohtain some useful information as touching the obtain some useful information
fattening abilities of such cattle, Macdonald College

## Bacon Industry Again.

Edito
The Farmer's Advocate ence from "Chronicle" and J. E. Brethour on this much-talked-of and much-abused industry.
With respect to sending a commission of Ontario farmers to Denmark to investigate along that ine, it would no doubt be censured by some, while approved by others. The industry is truth fully in a deplorable condition, and reasons have been given, and some rather warm discussions have followed in the columns of your valuable paper from on the decline, and there are to-day is gradually on the decline, and there are to-day
fewer hogs in the country than reports indicate. Where lies the fault, and what can be done to reverse the conditions? Without a doubt, a com-
mission of competent farners sent to Denmark mission of competent fariners sent to Denmurk
would bring back a number of profitable ideas on would bring back a number of proftable the co-
breeding, feeding, and more especially on the operating en
the market.
the market.
What the Ontario farmer has done in co-opera-
tion in the cheese industry, might also be done tion in the cheese industr, That is where the Denmark farmer " shine," for they are living in a dairy country, and hogs are the by-product to dairying.
we must remember that the Ontario farmer does
not carry his eggs to market in one basket, and not carry his eggs to market in one basket, and When we know it to be a fact that the packers
when from the farmers most exorbitant profits and right in the years when the majority of us
had to struggle and cconomize at every point to had to struggle and economze at every poincer
make ends neet, is it any wonder that producer
are soured? Doubless, the packers are losing noney at the export end, and we extend to them years from ik95 to 1902 they raised and lowered the prices to their own free will, and the years
that followed they seemed to forget everything but self. The bacon hof of to-day is a paying proposi
tion on every farm, as the fecding experiments of I'rof. Tlay will prove, and which can be voiced by every practical farmer, but there are other
branches of stock-farming that iold equally as good returns. Consider the price of horses, com pared with what they were ten years ago. Beefing
cattle is a profitable branch, and we in this county have been realizing, the last few wint and, knowing the high price and scarcity of coarse grains and milliceds, and that the bulk of the
products used are silage, roots and clover hay, we fecl we would be making a blunder if we kept more Although hogs can be raised and fel to a certain
extent with rations from the dhiry, kitchen and roots, we have the former geusel fustified in confining our numbers to a limit within that sphere. The population of our cowns und eities is stedily increasing, which means an increased
local demand for nearly eversthiny our farms can produce. Wheat is also coming back to take a place in our crop rotation. So, taking all things into consideration. we must admit we are living If worrying over which supply will run dry first: but the day perhaps wind late.

Favors Loose Feeding them in stalls, says fro nnual report, addine


## Daipy By-products for Swine.

The relation of the fecding value of whey fat
The relation of the fecding value of has pointel attention during the past winter to the results of an experiment conducted last suraring skimmed with unskimmed whey: Our readers have been already iniormed in this connection that the ex periment in question indicated a vatue they
five per cent. greater for unssimmed whey than for whey that had been run through a cream senarator. In addition to comparing these two kinds of whey, skim milk and buttermilk were also
compareci with the whey. From the annual College report we now quote the details of the whole experiment, together with Prof. Day's co
Plan of Experiment.-Originally, 60 pigs were Plan of Experiment.-Originally,
divicied into five groups of twelve pigs each, but it was thought advisable to discard certain pigs as unfit for experimental work, and the experinent was completed with the number of prows
each aroup indicated in the table which follows:
Groun was fed skim milk and meal: (iroup I., butt (irmike and meal : Group Ilt, ordinary whes and mnal: Group If.., separated whey and
meal and Ciroup V. was a check group, fed waer and meal.
The grain ration consisted of barley and frozen wheat, of which wheat middlinges were added in
the following pronortions. by weight: 1st, 30 days, 3 parts middlings to 1 part ground grain : 2 nd, 30 daves, 2 parts middlines to 1 part eround grain: 3 rd, 30 days. 1 nart middlings to 1 part
ground groin: 4 th, 30 days. 1 part middlings to ${ }_{2}$ prourts around grain. half pounds of milk and Nearlv two and a half pounds of milk and
buttermilk were fer with each pound of meal, and about two and thres


TABLE SHOWING WEIGHTS, GAINS, AND FOOD CONSI MED


A1'R11. 29, 1909
making, and the desiralsility of ouning an animal It is, of course, necessary to produce facts 1 and digures in support or The prizes for pedigreed milhers have been competed for at several shows,
mut as 1 am best acquainted with the tests con lucted at the show of the British Dairy Farmers' When a class was mado at that show for: pedigreed shorthorn cows, there was a " standard"

I'edigree Shorthorns
Non-pedigree thor horm

| Lincolnsh |
| :---: |
| Ifrsey |

Guernsey
Red Poll
Ayrsinire
Kerry and

 total pounds." other solids." present. The totals
and for the
 "standard" fixed for each breed was arrived at
as an approximate average over several years. The standards have bece artered from time to
time, as arcunstances arose, b, tht those above given are the figures adopted for 1908 .
The first institution of these pedigreed prizes brought up andirals which did unt yich much year by yenr, until now ihe climax has ben Dairy Show-and practically the champion cow of
the British Islands-is a dual-purpose animal forothy, owned by Lord Rothschild, is entered in the Herroook as of beet descent, while she is at feed the best milker oi any class that has beel
exhibited during the last four years. As an it exximation of the results outanned at the Dairy
lustrat on it is instructive to place side by side the
Sol Show, it is instructive to place side by side the
marks aained by the best cow of the three leadmarks eained by the bets cow of the three lead
ing breeis since the perigree class was instituted.
nas heloul
Pedigree Non-pedigree
Shorthorn. Shorthorn. Jersey
1899
1909
1990
1990
1903
1990
1900
1906
1997
1908
hat wo nol the ubove, therefiore, it will be seen (or general-purpose cow, to use the English
phrase) in this country, but wo think we have ad it for long in the ordinary dairy Shorthorn treed d niman aus well.
While uriting this article. I have just been in
 neighborhood of Edinburgh. Edinturgh consumes
nore milk per, head of the population than any have teen noted for milhing and fattening off for milhing shorthorns from Cumberland and the freed a second time, and in one cuse $I$ am in
 Saving in proportion to the milking value of the
animal, as compared with results obtained from animal, as compared with results obtained from
the purely dairy breeds. The sum of our knowl-
edtere and edice and experience here, therefore is to keep on

What They Think of Our Premiums
nowing are sampless of the many letters re-
from week to werk, exprossing delight with

THE FARMER'S ADVOCATE

## THE FARM.

## Use of the Corn Planter

In devoting particular attention at this time is clearly upon the right track. You are correct in placing improved seed and cultural methods to
the front, but is there not room for more general advance in the way of planting? Years ago it was not uncommon to see a couple of bushels of seed sown per acre in drills for growing fodder
but for stalk and leaf of high feeding value, as well as ears of good quality, I think the best practice of those sections of Canada where corngrowing has been brought to the greatest perfecshow that hill-planting gives much the hest to sults. With many, the favorite distance is feet 6 inches or 3 feet 8 inches apart, which allows plenty of room for vigorous growth and
thorough, clean cultivation cach way. A third advantage is that less seed is usually required than in the drill method, a bushel being enough for five or six acres. Cood results are secured by
the use of the marker and hund-planter thourh more time is required than with the grain drill commonly used where corn is grown for the silo;
but many of these drills throw the rows but many of these drills throw the rows too close
together, do not distribute the kernels at even or together, do not distribute the kernels at even or
suflicient distances anart, and do not cover the seed pronerly, not being constructed especially for that purpose lite the modrrin two-horse, check--ow planter, which, in the American corn-belt,
was brought to great nerfection, and has won the was brought to great nerfection, and has won the
favor of many Canadians esnecinlly those who
crow a grow a laree arcace, With it the corn can be
dropned accurately from 3 to 5 kernels per hill, ty of the product.


A Farm Home Reunion.

 ysed a moond corn planterw would not part wot it

Corn, the Backbone of American Agriculture.
rom tor is one of the most valuable farm crops nore attention should commercial standpoints, and proof of the above assertion we quote from re marks made by Dean Hurd, Farmers' Week, at the niversity of Maine: "Corn gives more food to The acre than any other crop, it is used in the
nanufacture of about 125 articles of trade, That it can be grown profitably in Maine, is he siweetest and but of her canning factoriescan market-and by the financial success of those armers living within delivering radius of the facThe value of the crop as a factor in the ration of the dairy cow led to extended discussions at field per acre, together with improving the qualThe matter was also touched upon at the
University Farmers' Week, where a fine display of niversity Farmers the best-known varieties was shown, and a demonstration in corn-judging by score-card was given. Interest in this crop is widespread over the corn Show. held last fall at Chicago. This is to be dunlicated at Boston the coming October. I's the New England Corn Fxposition. A preliminary step to encourage interest in such a dis-
play is the offering by the liniversity of seed corn During Farmers ${ }^{\text {D }}$ Weok, when premiums wi be offered the successcrowers in each
varioty, men, boys, and the gentler sex,
also, being eligible to In 1907, Dr. Geo M. Twitchell took the nterest in corn cul-
ure, whon, in connecture, whin, the work
tion the Maine Dairymen's Maine Dairyfiered special pre $\begin{array}{ll}\text { oniered } \\ \text { miums, } & \text { special } \\ \text { to } & \text { pre } \\ \text { peter }\end{array}$ meted for by boys,
and furnished them
with seed. The large with seed. The large
number of
exhibits proved on exhibits
feature of the dactive onference, and point Experiment Station has, for some years,
been paying particupropagating, by hy oridization, varieties
rields of ten to fiiteen bushels more corn per
hree in a hill there here the same number of kernels were used in the plot, but planted some a groove in the soil is made, regulated to proper depth, even in soft places, into which the grain falls and is promptly covered, and 12 to 15 acres fets the hang of the machine. This is a very important consideration. (Once the ground is
prerares, unless planted speedily, a shower of prepares, unless planted speedily, a shower of
rain may put all or a portion of the field out of ordition for many days, and perhaps involve retroke of the harrower, wit is planted, a light and promote growth. In starting, after the and has been worked fine and rolled, we drive ance across the side of the return trip, and subsequenthills; but, for drilling in, this cable is not needed. The use of the two-horse cultivator and harvester, in addition to the planter, has relieved labor. It may seem that, to invest some $\$ 15$,
in a planter, us d perhaps one day in the year, is a good deal, but there is considerable mechanis so advantageous that it is looked upon as a couple of farmers owning one together, though
nate the chance of non-maturity,
Said IIr. Twitchell, in his address before the Dairy Meeting: © If, an acre of corn is planted in drills three and one-half feet apart, and the
seed dropped nine inches apart in the drill, there will be 16,594 stakks, assuming that every, kernel
yerminates. Allowing one ear to the stalk, and yerminates. Allowing one ear to the stalk, and
six ounces of shelled corn to an ear, the average six ounces of shelled corn to an ear, the average
with nine-inch earrs, the gield will be 104 bushels of shelled corn to the acre."
I his yield would be increased if the ears were sirability of at least coming up to the standard set. The a verage corn crop of the country has
been placed at 24.2 bushels per acre because the been placed at 24.2 bushels per acre, because the
grower will not fulfil his part of the contract. The soil must be prepared thoroughly before planting, and enough fertilizer used to insure a full meal to the crop every day until perfected.
The seed must be carefully grown, taken from the most vigorous stalks, thoroughly cured, and shelled from the center of the ears only.
Dr. Twitchell cited the following, which shows the important part which careful selection of seed plays in the profitable production of this crop: tine ears, just after ripening. From the choicert w these, selected by test and measure, ten acres remaining 53 acres were planted with the best of
the rist of the 17 bushels, and the surrounding fields were planted with seed from cribs in which

## Dodder in Alfalfa Seed

## Occasionally, great damage results in alfalfa

 and clover fields by the introduction of dodder in the seed. This plant, when started, fastensitself to the plants of the main crop, and saps itself the the plants them. Dealing with this pest,
the life out of the the New York Experiment Station, at Geneva, describes the injury to alfalla in a bulletin, as folscribe
lows
" Dodder is a yellow, thread-like, twining weed which is exceedingly troublesome in alfalfa fields. It appears in circular spots 3 to 30 feet or more in diameter. At the center of the spot the at falfa is killed out, while around the margin the ground is covered with a mat of yellow threads
which twine closely about the stems of the alfalfa plants and slowly strangle them. The spots falfa plants and slowly strangle tear. Many fields
increase in size from year to yeal have been completely ruined by dodder. It is not often injurious to other crops (except red
clover), but once established in an alfalfa field, it is very difficult to eradicate without killing the alfalfa."
Special precautions should be taken to sow clean seed. Sometimes it is fcund necessary to remove dodder and other foreign seeds arter a
supply has been procured for sowing. The folthorities regarding alfalfa seed
Affalfa seed is larger than dodder seed, and to perfect a method by which commercial alfalfa seed may be made practically free from dodder,
and safe to sow. It was found that dodder seeds are readily removed by siftiug through a wire sieve having 20 meshes to the inch. Since readymade sieves of this mesh are not readily obtain-
mble, it is advised to construct a light wooden able, it is advised to construct a ligh wooden
trame, 12 inches square by 3 inches deep, and track over the bottom of it 20 by 20 mesh steelwire cloth of No. 34 . This quantity of wire
loth ourbt not to cost more than 15 or 20 cents. cloth ought not to cost more than 15 or 20 cents.
In case brass or copper wire-cloth is used, the wire should be No. 32, on the English gauge. It
in
is is important that the wire cloth used be exactly ing a ruler on the sieve or cloth and counting the number of spaces to the inch. With a sieve of this kind, it is estimated that a man can clean from three to seven bushels or alialifa sed per
day trom day.
and no more should be put in the sieve at a time and vigorously shaken for one hall minute.
nak make the work uniformly thorough, the use of
cup holding not over one-half pound of seed, and careiul timing of the sifting, is recommended. If the seed contains but little dodder, one sifting
may do; but when much dodder is present, and mary doo hut when much dodaer is ped if it is of the large seded kind, two
lartinula
siftings, both made strictly as directed, are ad sirtings, ioth teade strice was thisected, are ad
vised. In experimenting with thet, it was vised. In experimentes the dodder seeds, various
observed that, besides the
ond other small weed seeds, broken seeds, and dirt,
as well as some of the smaller alfalfa seeds, were as well as some of the smaller alialifa seeds, were
also removed by sifting. The siftings varied also removed by sifting. The siftings varied
from about 1 to 5 pounds per bushel, according
 thoroughness of the sifting. The rejection of the
siftings is considered as causing but little, it

## The Drag Misused

 drak on ours road division, with very satispictory
results. The road retained good crown, smooth results. The road retained good crown, smooth
surfice, and there whas an absence of whel ruts to catch and hold the water throughout the sea-
than
son, until freezing-up. This was the first split
 the council take any action toward having them
introduced No nuch. The oll why of working

 there was just al rille. wi looss sarth thrown up

Sypup-making in Nipissing Distpict.
Editor The Farmer's Advocate To the maple-syrup unscussion which has
passed through the column of your valuable
paper during the last few weeks, may I paper during the last few weeks, may I add a few
words? We tap 880 trees in the "virgin " forest. In a good season we make about 250 gal-
lons, standard weight of syrup. A poor season lons, standard weight of syrup. A poor season
yields about half that much, the average being close to 200 gallons. We use a homemade evaporator, 13 ft . by 4 ft . in size, with partitions
lengthways lengthways for the first eight feet, and crossways eight or ten hours on the start, it will turn 25 gallons of syrup per $t$ wenty-four hours. Nothing is used to cleanse the syrup. It is strained tot settle. Of course, great care is taken to keep The trees are all hard maples. Grimm spiles some tin and some wooden buckets, the latter shellacked on the inside, are used. We have
vorthwest trade which takes all we can send a veraging us about $\$ 1.15$ per gallon, cans in cluded, f.o.b. here. This nets us $\$ 1.00$. The local trade we do not cater to. Our season is
late. For instance, we made no syrup until the 7th of April this year, and then only a small lot. However, a run began on Monday, April
12 th . and continued more or less daily until Saturday, the 17 th . From this we cleaned up made syrup on the 3rd day of May. Our trees certainly do not yield as much sap as when growing in the open. I believe it to contai
just as much sugar, however. The last or " buddy " sap we boil down to about a third of its bulk, and put into the vinegar barrel. The secret of good maple vinegar is, I think, in a
lowing it to stand two years. Considerable demand is made for sugar. But as a gallon of syrup will only make from 84 lbs . t as much as possible. Soft sugar, made direct ly from the sap, without straining or settling the sap, will run almost an equivalent of 10 lbs . The most satisfactory way of keeping the Errup we find to be bottles. It does not seem motnake any diflerence whether the syrup is
hor cold. The bottles required to be fears old, and it would doubtuess have had it two

Contract to Have Roads Dragged.
In answer to your query, I may say I used
the split-log drag last year, going over about cwo miles of road five times. It is a very satis-
factory way oi filling up the ruts which form in almost all country roads in the spring, and leaves a nice smooth roadway, on which it is a pleasure s just out, as then the best grading can be rone, and continue whenever the condition of the paid for my work by the councillor, who is willng to pay for improvements and necessary re-
pairs.
I notice more people use the road smoothed with a split-log drag than formerly, naintaining and improving an earth moad. I consider that all the roads in this county would se benefited if a drag were used in the spring,
just as the roads are drying up, and think there are men on almost every mile of road who would carly in the cood wage, to make a drag, and do a stated

Should be Compensated for Dragging.


## Best Mile of Road in Vicinity.

 Editor " The Farmer s AdrocateI used the split-log drag last year on a mil of road in the spring and early summer, but 1
didn't use it last fall on account of dry weather didn't use it lused the drag after each rain, before the road got too dry, when it was just moist enough so
the earth did not stick to the drag, and I ven
ture to say that this is the best mile of earth ture to say that this is the best mile of earth
road around here. I was not allowed any comroad around here. I was not alhowe done. No
pensation for the good work I haver
action has been taken on this reserve to insure pensationas been taken on this reserve to insure
action has
the systematic dragging of the roads, and I can not say anything as regards the township. the systematic dragging of all roads, to save the needless expense that is put on them every fe
years to get them in shape; and, also, that th years to get them in shape; and, also, that th
statute-labor system should be done away with statute-labse on the roads on this Reserve.
it is a curse
Lambton Co., Ont.
NICHOLAS PLAIN.

## Rothamsted Report

The annual report of the Rothamsted Exper
ment Station, in England, gives many details the 210 experimental plots at the farm. The
wheat yield last year was above the average, and of excellent quality. The unmanured plot, on without manure, yielded 12.4 bushels of wheat, weighing 63.5 pounds per bushel, and 7.7 cwt . of straw. Barley late frosts. The permanent grass plots, now in the 53rd year of the experiment, produced crops rather above the average. Interesting comment is made
begun.

## THE DAIRY.

## Farm Separator Problem

 Many who have the interests of Canadian dairying at heart claim that the general introduc-tion of cream separators on the farm has tended to impair the quality, and thereby the reputation
and price, of our creamery butter. Carelessness in the care, and particularly in the washing, of the farm separator, together with infrequency in
the collection of the cream, are a set of conditions which result in the delivery of much cream from which the most skillful creameryman cannot produce a fancy article of buthere seems little reason separator is here to stay, there seems little reason
to doubt, notwithstanding much ominous shaking to doubt, notwithstanding much ominous shaking "crank exercise." That, properly cared for, 1t is a decided advantage acknowledged. That it
and pigs, is universally
is a necessary hindrance to the making of A-1 reamery butter, we are reluctant to admit. Still, the warning of buyers, makers and experts is
hot to he ignored, and, if conditions can be improved, it is important that the actual state of affairs be realized, and suggestions sought look-
ing to such improvement. With this end in view, ing to such improvement. With this end in view,
" The Farmer's Advocate" has corresponded with a The Farmer's Advocate has correspontors and
a number of leading makers, instructors and
others whose opinions are of value. Below will be found replies from several of these, and "

Hand Separators and Creamery Butter
Ditor " The Farmer's Advocate
It is a well-known fact that the reputation o It is a well-known fact that the reputation of
our creamery butter does not stand as high in the markets of Great Britain as it did before cathering system. The question naturally arise if cither or both of the above are factors in the "I't. Before the advent of the hand separator ther was a double incentive for the farmer to send hi
milk to the creamery. It relieved the women of milk to the creamery. the butter, and more butter could be made out of the milk by the use of the factory separator than
the the deep-setting or shallow-pan methods. Ther N the deep-setting or shallow-pan methods. Ther
ias no question as to the superior quality of the luas no question as the the factory system, but th stem had its drawbacks, viz, the poor qualit if skim milk returned to the patrons The poor quality of skim milk returned to the anc tuse the farmer has not been slow to realize tha The hand separator gave him a much more val
whlle product in his skim milk than he could

- hill get from any other wav of creaning thly get from any other way of creaming
When the farmers realized this fact, enarators became somewhat numerous, it wa
cen that the factory separator sistem wo
ger they were forcing on the industry; but it was of
no avail, as there were immense interests behind the movement forcing it along, and it soon swept all objections out of its path. The farmers were repeatedly told that they would be com-
pelled to take a lower price for their butter if he cream-gathering system had to take the place
i the factory-separator system, but they seemed satisfied to accept the situation, and the factory separator in Ontario is now almost a thing of The question now is, " To what extent is the hand separator responsible for the depreciation in the quality of our creamery butter, or is it at
all responsible?" Theoretically, butter made all responsible ?" Theoreticall butter made
from cream which is taken from the milk while it is fresh, and in the very best condition for prolucing, a first-class grade of cream, should naturally be of the finest quality, if properly han-
dled from the cow to the finished product. Unfortunately, however, this does not always work out in actual practice, but it is quite evident that the fault does not lie with the separator. 1i the milk is clean, and the separator is also
clean, the resulting cream cannot be otherwise than of good quality, and up to this point everything would indicate first-class butter. But it is
right here that the trouble often commences. right here that the trouble often commenced thin. and it is often mixed right away with the older cream, or, if allowed to cool till the next milking before adding to the older cream, it is
nsually not sufficiently cooled, and is cooled too slowly. To be of first-class quality, other things being right, cream must be cooled quickly, if it is to be held for two or three days, either by running over a cooler or
water-ice-water preferred.
We do not wish to be advertising to the world the conditions under which much of our cream is proctuced on the farm, but we are compelled to from one milking to another which makes it simply impossible to produce cream which is go ing to make a first-class-keeping butter. Dirty
separators, thin cream, and lack of proper coolseparators, thin cream, and ack oor cream.
ing, are the principal causes of poor ing, are the principal causes of poor cream. as much trouble as will the separator, and any woman who is careless with her separator is
liable to be careless all the way through. A rich liable to be careless
cream, say 35 to 40 per cent., will almost invariably reach the creamery much better in flavor than will a 20 to 25 per cent. cream. A rich cream has less milk in it, and, as it of or sours, we cannot get much acid in a rich cream, because there is but little sugar there to produce acid.
We have three methods of getting the crear from the farm to the creamery, viz.: Large tanks, the jacketed cream cans, and the small in dividual cans. The latter are undoubtedly the best, especially where the patrons deliver their
own cream, as the cream goes direct from the farm to the creamery, and will arrive ten degrees lower in temperature than where it is carted around' the country for hours on a hot day. Each at the creamery a chance to inspect the cream and at the creamery a chance the
The tendency is to gather less frequently than Tormcrly, as the cost is thereby decreased. Every-
thing in connection with the business has inthing in connection with the business has incharge for making remains the same, and the only way the proprietor of a creamery sees out of the
difficulty is to gather the cream twice a week, difficulty is to gather the cream knice a
instead of three times, and we all know that this
does not tend to improve the quality. does not tend to improve the quality. With the factory separator, the butter is made
within 48 hours from the time the milk is drawn the cream-gathering the summer months, but in four days old before it is churned, which seldom produces butter of first quality. Cream can be
kept in first-class condition for buttermaking for four days, but everything must be kept scrupulously clean, and the cream submerged in ice Under present conditions, farmers in Ontari are losing from one to two cents per pound on their butter, but are they not making it up in other ways by the use of the hand separator? That answer, however, is not satisfactory, because
the hand separator should give the best results of any system, if all conditions are right. If farmers could be induced to keep cows enough to make it profitable to gather the cream every day, and no
sour cream taken at the creamery, we would then have no cause to complain about poor cream and have no cause to complain about poor cream and cate its superiority over its rival at the creamery; but under conditions in vogue in most
creamery sections, it falls lamentably short of giving the best results of which it is capable. About fourteen years ago, the Moody Cream-
ery, of Towa, purchased a large number of hand eparators, and distributed them among a porfion of its patrons, and the cream from those matrons was collected every day. Cream reamry then there were three systems: Cream gathtaken in every morning and separated at the actory, and cream gathered three times per week
from the farm. The best quality of butter was made from the hand-separator cream gathered every day, the next best from the whole milk eparated at the creamery, and the poorest from If we are to have best results from the hand separators, the farmers must go back to the old method of putting in ice, or providing some way of cooling with weli water; separators must be sible care taken of the cream by every patron of a creamery. The cream-wagon must go after the cream as oft as necessary to of quality in that direction. J. STONEHOUSE.
Ontario Co., Ont.


## Makers Can Remedy Matters.

ur experience with our own butter has not made it necessary for us to accept a lower price or our butter; way we handle it, as good butter can be made from gathered cream as from whole milk; we don't accept any but sweet cream. This is de
livered by the farmers themselves. If the butter maker does not take the cream unless it is sweet and of good flavor, there is no reason why he cannot make good butter out of it.
As far as we can sce, it is the fault of the makers, for the patrons will only bring cream as makers, for the patrons will only produce cream that the maker will take. Ou patrons know, if they bring cream that is
right, we will send it home; so, if their cream is not swent, they do not bring it. A new patron sometimes does not know just how to handle his cream, but we tell him the way we want it, and
he tries to make it suit. We don't know that we have lost more than two or, three patrons by enforcing our rule of accepting only sweet cream We have to compete with Toronto creameries, and increasing our make.


Snug Country Residenc

THE FARMER'S ADVOCATE
FOUNDED 1866

Probably the reason there is not more good butter made is because there is no money in it.
About one or two cents is all the difference there s between good and bad or ordinary goods. And hen the same care of it, and get within a cent or so of top price, there is not much inducement to make the extra effort. We have been
told that it does not pay us to take the trouble old that it does not pay us to take the trouble
we do, but it is the only way we can hold our wusiness, with the competition we have; and, besides, it is the only way we know how to make
butter that suits us. We don't know how some butter that suits us. We don't know

$$
\begin{aligned}
& \text { get it as good as they do. } \\
& \text { LOCUST HILL CREAMERY }
\end{aligned}
$$

Creamery-butter Reputation Ruined.

Editor " The Farmer's Advocate":
The introduction of cream separators on the farm has been the means of lowering the quality of creamery butter to a large extent. They have had even a more injurious effect on the price reef dairy butter on the farm, because, if dairy outter is inferior in quality, it does not come so closely in competition with creamery butter, dairy butter usually being sold as such
Butter made in a whole-milk creamery is of much better quality than butter made from gathered cream. While this is an undisputed fact, it is not necessary that it should be so. Following are some of the reasons fouch but is case : Cream is not gathered oten enough, but is left at the farm till it is spoiled, or qual deteriorated, after skimming, separator agents being eparaly responsible for this, having told the farm largely responsible fay is often enough to clean a separator; a separator standing for ten of twelve hours after skimming, without being
washed is filthy, and unfit to put anythin washed, is filthy, and unfit to put anvthin ers qenerally skim a too-thin cream.
To remedy matters, cream should be gathere oftener, and cooled immediatelv after being sen
arated. Senarator and all utensils should be arated. Senarator and all utensis, shour Crean thould not contain less than 30 per ce
If creamery butter had all been mad
If creamery butter had all been made in whole
milk creameries, and the milk had heen receive milk creameries, and the milk had hed receive a least two cents per pound more for hutter tha at present. This is a conservative estiof I speak Cream being skimmed with dirty seoarators, put into utensils not as clean as they mieht be, and kept in unclean surroundings: standing at to high a temnerature, with ton lill verv seriouclv in iured, has almost ruined the reputation of iured, has al
dian creamer
Middlesex

Dairy Products in Great Britain Observations of dairy conditions while in Great Britain leads I. W. Steinhoff, of Stratoring cheese and butte

1. That Canada is no longer the only "pebble on the beach
. That in the numerous warehouses in London, Liverpool, Bristol, Dublin, Belfast, Glasgow, Leith, Newcastle and Manchester, not cheese.
2. That the quality of New Zealand cheese, although somewhat
since my visit to England four years ago. since my visit to England rour universal complaint that Canadian cheese, especially the fall make, is now arriving in England too immature
5 . That the quality of New Zealand checse is petitor. 6, That Canadian butter cuts rather a sorry
figure in the English market, being spasmodic in supply, and secondary in quality, compa 7. That butter from New Zealand, Australia Argentine, and some nanish, has what is known s " fancy finish" on top

Received The Farmer s Adrocal find dav, and am much pleased with it. As a farmer
knife, it is certainly fine; and as a premium knife, it is
obtaining
paper, it is one of the best I have ever

## Dairy Instruction for 1909

 The Ontario dairy instructors have this year, tion at the Dairy School, Guelph, or the Dairy School, Kingston, in preparation for the workof the season. The Western men met at Guelph, and had a very profitabie week's work under the direction of Prof. Dean and Frank Herns, Chief
Dairy Instructor for Western Ontario. The Eastern men had a somewhat longer course at Kingston, under the supervision of G. G. Pub
low. Chief Dairy Instructor for Eastern Ontario low, Chief Dairy Instructor for Eastern Ontari now also Superintendent of the Dairy School dis tricts better prepared than ever to render valuable service to the makers in the cheese factories and creameries. They have been directed by the Department to give as much time as possible in
an effort to improve the raw material as received from the producer. The factorymen will be urged to co-operate with them. A full census of the
factories and creameries will be secured early in factories and creameries will be secured ear from the
the season, with a view to publishing former Department of Agriculture a complete list for the
season instructors will observe the work not only of the chief makers in the factories, but also those who act as assistants. This information
will be of value when issuine certificates or permits at the heginning of 1911 to those who hav heen emploved in factory will 1909 and 1910. Tt will. therefore, he in the best interests of the chief makers and their hemp-
erc to keep their work well in hand at all times, ers to keep their work well in hand at in all de-
tails. is the intention of the nenartment to call Werether the two Chinf Thstructore and Prof. Dean
with a view to deciding unon the form of certificate or nermit to be issulued. The certifirate or permet will cive due recoenition to the ahility of experionced fact orymen. even if theranse not had The names of the inctructors. toxether with their respective sundicates for 1909 are:

## Whense Factories:

Chiff Inctructor-Frank $\begin{aligned} & \text { Herns, Tondon. } \\ & \text { Svndicate-Tistowel: }\end{aligned}$ Tnstructor-James R.

## Burcess: Address-1 istowel. London-Arthur F. Fracev, Dorchester.

Rrantford-R. H. Green. Cavuea.
Ingersoll and Woodstock-F. N. Hart, Ingerall and Woodstock. Stratford-Alex. McKav. St. Mary's
Simene-Geo. Travis, Tillsonburg.

## Fred Dean. Guelph. Mack. Robertson. St Marv's.

## FASTERN heese Factories: Chief Tnstructor-G. G. Publow, Kineston.

 Instructor in some of the creamerios in East or-IT H. Sincleton, Kingston.Sundicate-Nananee: Instructor-
Addres-Nananee.
Kineston-H. Rintnell, Kineston

## Kineston-W. Rrintnell, Kineston. Cornwall-M. J. Ruro. Mille Roches. Tindsav-M. J. Cameron, Camnhaller

Plantagennt-Jos. Charhnnneau, Plantagene
Prockville. W.-S. Cheptham, Gananoque.



Yankleek Hill-W. G. Graham, Vanklopk Hill.

 Alexandria-A. McDonnell, Alexandria.
Mrockville, N.-P. Nolan, Philineville.
Morrishurg-C. w. Norval. N. Williamsburg Morrishurg-C. Whattam. Picton.
Pirton-T. F. What
Almonte W. T. Rassdale, Smith's Falls Ot a wa, F, -T. Villeneuve. Casselman.

Effects of Rusty Milk Utensils. ultural Fxperiment Station show that both tin and iron have an injurious effect on milk. Milk influence on the rennet action. as compared with iron Mishes for hat hewrat hours had a stand in Ton dishes for ceveral hours had a peculiar in solution. In sexpral instances, the amount

Milk comes in contact with iron in the form of rusty cans or poorly-tinned utensils in prac-
tically all creameries and cheese factories. The quality of the milk will, to a large extent, dethe milk is poured, kept, and finally hauled to the factory. The degree of influence of iron on milk will depend largely upon the temperature of the milk, the length of time kept in the cans, and "In progressive dairy countries of northern Europe, the quality of dairy products manufac-
tured is generally uniform, and every precaution tured is generally uniform, and every precaution
is taken to maintain a uniform product. Cleanliis taken to maintain a uniform product. Cleanli-
ness is generally practiced at both the farm and factory. The utensils used are of superior qual ity, and, naturally, there is no occasion to con-
sider this problem seriously. As a rule, the sider this problem seriously: As a rule, the
European utensils are stronger; the cans, for example, are of heavy steel, and well tinned. Experience shows that these heavy cans are the most
economical in the long run, and there is less economical in the ing rasing off the tin. Americis not necessary to describe here the ones; if not the first time, surely the second or ones; if not the first time, surely the second or
third time these cans are used, one will find third time these cans are used, one will find
places where they have been dented in. As the number of indentations increase, the tins begin
to crack, leaving fissures or inroads for milk and to crack, leaving fissures or inroads for milk and
water, and acid. Often this thin layer of tin does not cover all of the iron, thus leaving microscopically small surfaces of iron exposed, which also become the sources of damage by peels or falls off, and it is then only a short time peels or falls off, and it is then for use. ./ The attention of the milk-producer and the
factory-operator is called especially to the follow-factory-oper
ing points
in the A better grade of utensils should be used ron or steel pof milk and its products. The thickly coated with tin. which has been kept in iron exposed pails or cans. " 3. The factory or creamery should be an example of neatness andition.
utensils in first-class conditer
creameries, cheese factorios the proprietors of plies, will tend to bring about cleanliness among pat. and the use of better utensils. Milk some satisfactory arrancement following well founded, sanitary and hygienic rules, by which
the production of milk of superior quality is encouraged, and milk of low grade either rejected or gradually improved.

Milk Casein and the Hart Casein Test.
Some investigations by Prof H H Den, con cerning the Hart cascin test, are thus summar ized in the 1908 annual report of the Ontari Agricultural College

The present report should be considered as a reliminary one, on a comparatively new phase of in atterapting to draw too many nor too hand-and-fast conclusions. Our work so far would seem to warrant the following

1. The Hart casein tester appears to be a
simple and reliable method for determining the percentage of casein in fairly fresh milk, but is not adapted, in its present form, to testing composite samples, although fairly good results were
got by using a small amount of bichromate of potash as a preservative in milk samples for pout six days.
2. The claim for "high-casein milk" which is scarcely borne out by breeds of dairy cattle is scarcely borne out by the results of the ex
periments, although a great deal more work will periments, although a great deal more work win iairly settled.
3. The variation in the percentage of casein in milk does not appear to be so great as is the
variation in the percentage of fat in milk. Genervariation in the percentage of fat in milk. Gener
ally speaking, milk with a high percentage of fat
contains also a high percentage of casein, but the contains also a high percentage of casein, but the
increase of the casein is not relatively so great is the fat.
4. As cows advance in lactation, they tend to
ncrease in both increase in both the percentage of fat and casein
in their milk. This is more marked when we in their milk. This is more marked when we
compare the milk just before "drying up" with that given soon after freshening. The evidence as to the effect of season on he percentuge of casein in milk is somewhat contcting. For the nine cows under experiment, the highest percentages of casein in the mill way the milk supplied by patrons to the cheese de$4=5+5=$ $x=2$
field of cheese in our cheese-room was low, and ively low percentage of casein at that time. S far as we know, there was no special reason why particular time. The average casein tests of the vats of milk In the cheese-room were lowest, and fairly uniform
for the months of April (2.3), May (2.28) and for the months The highest vat tests were for
July (2.31). The
June (2.46), September ( 2.45$)$ and October June
(2.61). (2.46), September
All the testimony seems to agree that
(2.45) and (2.61). All the is comparatively high in casein. 6. The cheese experiments che the yield of chese is not in proportion to the fat in the milk. The pounds
of cheese per pound of casein in the milk was of cheese per pound or casein season, the extreme
fairly uniform throughout the senth being 3.87 to 4.1 . The
variation by months variation by months in the percentage of casein in the milk
variation in
of these experiments was from 2.28 in May, to 2.61 in October.
5. The addition of the factor 2 , to the percentage of fat in the ries. At present, we do not think daily or weekly
testing oi milk for casein is practicable in factory testing but a Hart casein tester, along with the Babcock tester, ought to be part of the equip-
ment in every cheese factory, to be used as required.

Green Feed to Supplemen Pastures.


## POULTRY

Tuberculosis in Poultry. Correspondence received by poultry authorities
nd by the agricultural press would seem to in dicate that tuberculosis is becoming increasing prevalent among farm somptoms, submitted to our Quany descriptions and Answers Department, have pointed oo this serious disease, and rol Graham, of the Ontario Agr. College, states that he receives average of a letter a week from farmers of which
ing disease in their flocks, the symptoms of Ingwer to those of tuberculosis. In 1908, the
answe nineteen tuber-
Bacteriologist of the O. A. C. had nat Bacteriologist
culous fowls
ion from various parts of Ontario. This, alper cent. over any previous year, and one mor
than the total number sent in during the previous han the total number sent in ay be partly due to
our years. The increase may boultry-owners, and greater
ncreased vigilance of poult increased vigilance of poultry-owners, and greal
readiness to avail themselves of scientific diag nosis; but, allowing for this, there seems no rea-
son to doubt that the disease is widespread and son to doubt that the disease of acquainting our
increasing. As a means
poultry readers with infection, course, symptoms and preventive treatment for this disease, we present herewith a syort of the O. A. C. Bac
Irticle in the 1908 report
teriologist, Prof. Fdwards. ATURE OF AVIAN TUIERCCLOSIS ATAMOng
 enough birds at one time trouble. Many farm-
tention of the owner to the trac
ers say they have been losing a bird or two oc say they have been losing a mird or the loss
isionally for a year or more, and that thet always
Ihut is not s gradually increasing.
on gradual. Within the last few months two
grat armers have sent tubercular fowls, and each
tated that he had lost about a hundred from the
a dhird had lost ame disease within two years. A third had lost ithout one a week for over a year. Tuberculosis
ratory in wild geese which had been kept some
time in captivity. Both were badly affected, and from these we transmitted the disease to chickens. Pheasants, turkeys and pigeons may be
affected. Authorities differ as to the susceptibilafected. Authorities
it of ducks. Singing
to be highly susceptible.

Diagnosis is not easy. There is no noticeable symptom of tubercular infection shown by live birds until the disease has progressed far enough
to cause emaciation, which is nearly always present, and in advanced cases extreme. The comb, wattles and the skin about the head usually be come pale. Emaciation is usually alccompaned hy lameness, and there is nearly always a per


Liver of Hen that Died of Tuberculosis
ase the feathers become ruffed, and the fowls eak, more or less mopy, and move about little.
the eyes are bright in most cases until death is hear. Appetitie is good throughout sickness, and ravenous until a few days before death. It is often difficult for amateurs to distinguish the
symptoms of tuberculosis from those of some symptoms of
other diseases.

POST-MORTEM APPEARANCE.
The liver is almost invariably affected. It is
dantly with yellowish-white nodules, of a some-
antly with yellowish-white nodules, of a some-
what cheesy consistency, varying in size from a

uberculous Splee
Two tubercular spleens from fowls dead of tuberculosis
pin-head, or even smaller, to one-sumeter inter
more in diameter. The nodules protrude more of rounding liver tissue. In this ruspect, the lesion they are sunken below the surrounding tissue, ary We have in some cases found a mixed infection
with tuberculosis and black-head in the same organ. The spleen, a small, rounded, purple organ
bout half an inch in diameter, is frequently a ected, and, in consequence, greatly enlarged,
sometimes to three or four times the original size, and contains nodules of the same character as those in the liver. The intestines may be aifected, in which case rounded masses of varying tery (the found in the intestina therder of which he intestine is attached) is occasionally dotted with nodular masses. The kidneys, lungs, spleen, GERMS DISTRIBUTED IN DROPPINGS
Tuberculosis is caused by a minute bacterial organism, Bacterium tuberculosis of birds. The
bacteria gain entrance to certain portions of the body, and multiply there, causing the formation of the nodules or tubercles seen on autopsy. The spread of the disease occurs when the bacteria are
transferred directly or indirectly from the affected birds to the healthy ones. If an examination is made of the tubercles oc-
curring on the walls of the intestine, they will curring on the walls of the intestine, they will be found in many cases to have a cavity in the the intestine. A microscopical examination of he intestinal contents at such points shows that enormous numbers of tubercle bacteria are pres-
ent. The conclusion that the bacteria are liberated with the droppings is unavoidable. We have made microscopic examinations of the droppings in a number of cases, and found the tuberch fowls teria present. The droppings of tubercular lowls
must, therefore, be regarded as one of the most must, therefore, be of infection of the healthy stock. The common farm practice of feeding from
the ground, or in low dishes or, troughs, furnishes the ground, or in low dishes or, troughs, ample feces, and one or two sick birds passing tubercle bacteria might easily serve to infect a
large percentage of a flock. Although sunlight large percentage of a flock. Although sunlight
is rapidly fatal to this germ, it does not have the opportunity to act freely, on all infectious ma-
terial. Indoors, the bacteria may remain alive terial. Indoors, the bacteria may remain alive
and dangerous for many weeks, and may infect and dangerous for many weeks, and may infect
the healthy birds. There is always the possibility also of carrying infected feces on the feet to food outside of the chicken house. Another dangerou practice, all too frequent, is that of leaving car-
casses of birds that have died of tuberculosis to casses of birds that have chickens.

CONTROL OF TUBERCULOSIS IN FOWLS. There is no cure for tuberculosis in fowls, and
attempted treatment is a waste of time and money expended for, so-called remedies. The only
course open is to adopt measures for eradicating course open is to adopt measures for eradicating
the disease from flocks already infected, and for the disease from flocks alreb
Eradication.-The quickest and most effective method of eradicating the disease is to destroy ises. In small flocks known to be infected with tuberculosis, this measure is advisable. The fowls could be examined, and all that were found healthy could be sold, thus lessening the is desired
siderably. In larger flocks, or when it is to preserve a certain strain in breeding, less drastic measures may be adopted, with final
satisfactory results. determine the presence of the disease until it has progressed so far as to cause lameness or emaciation. Ward, of California, has shown that tuberculin is of no value as a diagnostic agent for
tuberculosis of fowls. There is good reason to tuberculosis of fowls. There ischarging the germs in the droppings, although the disease may not be far, enough advanced to show noticeable symp-
toms. Hence, all individuals of the flock must toms. Aence, all
be regarded as dangerous to those free from disease, and the latter should be kept separate. All fowls suspected of having the disease should be Roosts, houses, etc., should be disinfected frequently. Inasmuch as affected birds may be continually distributing the bacteria in their feces, feed should be given the fowls on the ground. Feeding dishes or troughs should be frequently scalded with boiling water. It is not believed Hence, if the young chicks are placed on ground Hence, previously inhabited by the old stock, the chances are very favorable for rearing them free
from tuberculosis. Care should be observed, in prom tuberculosis. Care should be observed, in
purchasing new birds, that they come from flocks
Experience on which are free from disease. Experience on some of the large poultry ranches of Callornia
has shown that the transfer, of laying hens is an important factor in the transmission of the disCase. Poultry-raisers should, as far as possible,
Inisinfection.-The first thing to do in putting the poultry premises in sanitary condition is to rape the roosts walls, floors and nests thor-
oughly clean. This loose rubbish, together with When this has been done. the entire place should be whit-washed with lime-water-crude carbolic arin-enlution, in the proportion of twenty galarid. Tnelaked lime should be used, mixed with

THE FARMER'S ADVOCATE
crean, and the carbollc acld then audded. This
mixture may be sprayed on or put on with brush, lue care being observed to see that every
particle of surface in the poultry house is wel covered. Coal-tar disiniectants may be used
alone in place of the above mixture, but they are more expensive, and no more effective. After disinfection, clean boards may be placed beneath the roosts to catch the droppings, thus facilitat ing the work in future cleaning. Slaked lime
placed on these boards will absorb the moisture from the droppings
There is no way. of effectually disisifecting soil. possible, and free from loose boards, and all un pecessary liter of any kind.
If there are occasional losses of fowls on the If there are occasional losses of fowls on the be examined after death for evidence of tuber
culosis. If desired, specimens may be sent direct to this (O.A. A.) laboratory for examination Such material should be securely packed and sent by prepaid express, so as to reach its destinatir
as soon as possible after the death of the bir The specimens will be examined, and $r$
on, without further cost to the sender

## Orchard Range for Rearing

 Chickens.The importance of sufficient range, if possible over new ground, or at least ground that is well
tilled, is worthy of serious thought. Prof . l .
R. Graham Poultry Manager at the Untario R. Graham, Poultry Manager, at the Untario
Agricultural College, raised, in
and Agricultural College, raised, in 1908, about 700
chickens in the College orchard (nearly 20 acre chickens in the this range he found none too
in extent), and the
large to grow the chickens at their pest large to grow the chickens at their best. When vated, he writes, the supply of tender green food in the way of germinating weed seeds, etc., sup plies ideal green food, and at the same time, gives
the chicks a place to scratch. The birds hav not been destructive, not even to small fruits. some of which are near by; but it must be re membered that hoppers of wheat and corn an dry mash are near each colony house, so the
birds are well fed. If they were underied, or al lowed to go hungry at times, they might develo bad habits, especially during the tomato season.
We use a
$6 \times 8$ colony house and brooders or hens in the house. These houses are movable and are moved from place to place in the fied
or to new fields. The birls are fed about once cach week, and barrels of water are drawn about
twice each week. The chicks are shut in every twice each week. The chicks are shut in every
night, and let out the following morning, We
have found board foors neesssary in the colony have found board toors necessary in the colony
houses, in order to keep out rats, skunks, ete.
The chicks and remain there until ready to fatten or to go hatched mostly during Aprii and May, and put i the laying-houses about october 1 st, so that the
may become accustomed to their new home may become atcustomed to their new home betor
the bed weather begins. ${ }^{\text {a }}$ Should they show an signs of layin,
carlier date.,

## Lime and Vitality

While explaining that their data on methods of
incubation do not warrant any definite con Agricultural College, states that the rean 1908 season's work serve to further establish
their findings of 1907 , viz, that there appear to be a marked relationship, bet ween the strength
or vitality of a chick and the amount or which it has in its system at time of hateching Whether lime is a cause or an elfrect, they do not
undertake to decide definitely. The chick mas he strong because it has absorbed much lime, or force in the egg germ, which was tending
produce $n$ strong chick in any cuse which, on proouce velopruent

Cement Floors in Poultry Houses.
 "these floors have worked well, and they hav
also been successiul in keeping out rats. For number or years we were unable to rid the housses
of these pests, and they undoubtedly destroseld Inuch
The ce
finish.


## GARDEN 診 ORCHARD

 Apple Gpowers Must Wake Up.Having recently returned from a trip to (ireaBritain, where I marketed, during the months of February and March, my last jear's crop of
apples, raised here in Elgin Co. Ont apples, raised here in Elgin Co., Ont., I believe
my experience may be valuable. Baldwins, Rhode Island Greenings and Ben Davis apples, grown about two miles from Lake Erie, picked early in
October into boxes, and stored in a warehouse by October into boxes, and stored in a warehouse by
the orchard, and sorted, wrapped in paper, and tiered in boxes, soon after picking, were shipped at once to St. John, N. B., and placed there in cold storage. When sold ai Liverpool, in March,
they were equal to any American apple of same variety on the market, and brought higher prices per pound of fruit than any American apple of same variety on the market. 1 attended fruit sales in London, Manchester, Glasgow, Liverpool, from no better apples were offered in those markets than those raised along Lake Erie. The boxes were sold as originally packed, and wrapped in
paper. They were not repacked in the cold paper. They were not repacked in the cold
storage, and one thousand of my boxes were sold
irom the middle to the end from the middle to the end of March.
My accounts are not in such shape that
could give either the aggregate or the average could give either the aggregate or the average a hired man-eight or nine of us-did most of the work of picking, packing, hauling and shipping
here, while, in the Old Country supervised the sale of the crop. They were our own apples, and I kept no book account. The commissions I had to pay brokers were likely dif located in Liverpool
My orchard contains 25 acres-about 800 apple times Last year we sprayed about five or six and sulphur and Bordeaux mixture with arsenate donead, and dust lime and Paris green. I hav done ordinary cultivation, trimming and manurcares for his orchard-cultivates, trims, fertilizes
Ais Any statement about what a grower gets for
his apples, and his expenses, has nothing to do or finer-looking sample of apple you can deliver ca your British market, the higher the price you in Paris and England for 20 cents each. Work for common fruit in barrels. First-class apples, mrapped in paper and tiered in boxes, handled entirely dependent on the condition of the apples
when opened in Liverpool, or any other market there. With first-class apples, as grown here, it shipment, or transit to the market. Then, it is largely a question of marketing. (irovers of
first-class apples do not "sling" their fancy apples
fit the at the Old Country markets, and offer to take cominon sense. Having a first-class article, they
stand behind it, and set their price according to the market.
(irowers may rest assured that Ontario apples are equal to any raised any where in the world
1 do not mean our scabby, wormy apples, but the apples which an intelligent grower can grow here
What apple-growers need to realize is that good apples always are acceptable in the old Country. March 2.5th should leave Eligin out of his list of In error as to our county, whatever may be true
of Fisex or I.incoln. 1 agree with you in your
article of February 25th .a The sooner thi question is discussed, the better ior the apple The impression has got abroad that Iake Firie
apples are not equal to those raised farther north. I am satisfied that Filgin apples are
equal to anything raised ans where, of the same
varicty, and my cash returns prove it mitted that we produce apples of higher color do not think anyone will say our apples are of
poorer flawor than those grown iarther north. In
 lit better than Flgin apple this Ther Balduin clas: Eromphaticalls, I want to say that Elgin apple of apples equal to any produced any here in thi
world, and are asteep oner it. lat lot me war
$\qquad$
$\qquad$

Classify Winter Apples on Stor Classify Winter Apples

There is a great difference in the keeping qualiies of winter apples, as grown in the different ng on Lake Erie, winter apples are quita mollow in December-more so than those in the (eorgian Bay section are in April. Apples from those sections would not be sate in ordinary storage for repacking and winter shipment, and it is essential rop should sprend over a boart of at least from September to April, so that those honl southern sections would evidently need to be thing for the trade if a classification of a good age quality of the winter apples from the various sections were made, so that buyer and consumer from govern themselves accordingly. Those from other sections that were known to keep well could be stored for future sale or consump-
tion. When a man buys a few barrels of winter apples for use during the winter months, he buys hem with the expectation that they will keep. I he finds them past their season, mealy and dehe other whon, if he finds them good and. On and satisfactory, he will not be afraid to purchase more. So that, the sooner this question of keeping quality in our apples is settled, and thoroughor all concerned.

Future of Early-apple Growing Early-apple growing for Southern Ontario has
been urged by Alex. McNeill, Chief of the Fruit Division, for many seasons. Chief of the Fruit een met with the argument that only in certain
ears could money be made from early apples Discussing the question with a representative of "The Farmer's Advocate," some time ago,
Mr. McNeill said: "I have always maintained that early apples can be made to pay every made to Great Britaim last season, on which the Department paid charges on four cold-storage hambers, show excellent profits on Astrachans
nd Duchess. Prices were equal to those obtained for any, but the very choicest winter sorts xported. The average profit was ahead of the average for winter apples, and very much above
that for fall varieties. The shipments turned out to be the culmination of proof that Canada
can compete with English apple-growers in early apples. This should be of value to outhern Ontario. In the past the winter apples have been a failure as to receipts in districts
"here early varieties do best. Fither the grower
or orn Ontario winter apples. In a few instances, prompt shipment are needed. If the apples are aken off the trees just when colored, put into they keep well on into the spring months. cars, What Southern Ontario men should do is to now in bearing, but not plant any more. They have tested the keeping quality early varieties. We andinary handlinfom that part of Ontario, with yerv Year. A buyer is liable to much past the not get a car to ship promptly, Frequently
apples are in barrels, with no car available for apples, in order to avoid locing the to dump the peveral in orear hors avalosing the barrel also. " There is a rapidly-growing market for the
parly sorts.
Practically unlimited supplies are wanted in the Canadian Northwest and in Great better shipping facilities, and the only difficulty
will be overcome. There is no danger of overloing the supply in a quarter of a century. Caadians do not seem to realize that we can put arly as Tnited states growers. The applesouth of Southern Ontario. Our growers always can hold the home market, and, in addition, gain ments to Creat Britain can be placed. in the hands of the consumer in two weeks' time. To the Canadian West, the time taken to land car
lots varies from, five to ten days. The trade
"ould boe heir destimation in regular order. As it is, "tisastrous glut on the market."
The points brought out by Mr. McNeill are de-
serving of concol operative effort and intelligent marketing of early

H1KLL 29, 1909
loss, on many orchards sonable prices on distant markets, there is mor
in regularity of supply than inl thin time carry the fruit from the producer to the con sumus be regulated by conditions which those who
must
give the apple industry careful study know best.
ooil climate and demand are prime factors.

## Peas and Strawberries

$\qquad$ person must first find out if he has the right kind of soil for peas. A good rich sandy soil is best I have always had good returns from sowing a good clover sod which has been fallowed, or stowed. I always try to get my peas sowed in Aprii or the early part of May. I don't like Jate sowing. I sow about three bushels to the
acre with the grain drill. The two kinds that acre with the grain drill. The two kinds that
have done the best for me are the Advance and Market Garden. I have grown over a ton of
threshed peas to the are , that would be over threshed peas
$\$ 30$ to the acre. They did not yield that last
vear, on account of dry weather. By plowing year, on account of dry weather. By plowing
the ground as soon as the peas are harvested, the ground as soon as the peas are
it is in fine condition for fall wheat. I do not grow as many strawberries as some
but I have three acres, and am setting out tw acres more this spring. I manure the ground in the fall, and plow if I can. If I don't get it
done in the fall, I do it as early in the spring done in the fall, I do it as early in the spring
as possible. I always like to fallow a corn or potato crop, so as to have the ground as free
from weed seed as possible. I work my ground from weed seed as possible.
thoroughly, so as to get it fine and mellow. Then
I roll, and mark out in rows three and a half eet apart, and. plant two feet apart in the row. or me-Improved Williams and Senator Dunlopbut have ordered some Sample and Hause for this spring's setting. I picked 4,000 baskets last vear from one acre, and received nearly $\$ 240$.
Strawberries should be sprayed, the same as truit trees, and with the same mixture. I in
tend to do so this summer, and I feel certain I will get a far larger yield. GEO. B. HAVIIANA)

Maritime Co-operation.
The Berwick Fruit Co. was organized and in corporated in September, 1907. The original
subscribers and applicants ior a charter were,
S. C. Parker. S. C. Parker, L. F. Best, F. A. Illsley, R. L,
Palmer, John N. Chute, I. J. Chute, R. Harlow,
Cieo. L, Thomson, 'ieo. L. Thomson, J. B. White, Samuel Creighton,
Chas. Magee, and B. H. Lee. There were no special provisions at that time for the incorporation of co-operative fruit associations. Accord-
ingly, the association was incorporated under the ingly, the association was incorporated unact
I oint-stock Companies Act. The capital stock of the association is $\$ 10,000$,
in shares of $\$ 100$. Each member joining the association must subscribe for $2 \frac{1}{2}$ shares. 1 ,
planned to call in 5 per cent. of the subscribed planned to call in 5 per cent. of the subscribed
stock yearly until sulficient funds are raised to
pay for the warehouse which the company has rurchased.
Our warehouse is $40 \times 100$ feet, with a good basement. The company employs a manager, help, with a foreman to oversee the packing and have charge of the men in the warchouse. Each
mecmber of the association is hound by a by-law
to dispose of all his applas through the associato dispose of all his apples through the associa-
tion. The apples are piched from the trees, turned carefully into apple barrels, which are
carefully shaken down, headed, stencilled with the 'arefully shaken down, headed, stenched whe the
arower's name and the varicty, and hauled to the
company's warehouse. The menbers receive a re company's warehouse. The members receive a re
ceipt for the number of barrels d dlivered. Each
inember's apples and each variety are piled by member's apples and each variety are piled by
thonsmlies. When they are pached out, a care
and thomshlies. When they are packed out, a care-
fal check is kept of the different grades from each
man's lot. so that he gets credit for his correct man's lot, so that he gets credit for his correct
promortion of Fancy, No. .1, No. 2 and
kradus. a careful record is kept of sare grades
pricos are teraged on each of the four that any man whose apples pack mostly intd
On then are treraged onse apples pack mostly int
and no. no wrades gets a much larger price
ane one whose apples pack into No.
The members who are best satisfied ar The members who are best satisfied are
"ho grow the best apples.
"ow have thirt atuo members. and have
 follows Fancy, $\$ 3.17$, No, $1, \$ 2.75$
$\$ 205$, No. 3 grade, $\$ 1,2$, These prices
have been much better had we held hac have been much better had we held hac
hipped after Jan. 1 St. We also huy ou
Wer and materials for sprasing, and sell ou

# Nitrates on Strawberpies. 

$\qquad$ ardeners, yet a large percentage of growers detline to handle the valuable fertilizers until more detinite practical information is obtained. The aricus plant foods can be made responsible for onsiderable damage in the hands of incompetent ersons. Commercial fertilizers for impoverished oils can be likened to medicine for the ailing, in
his respect, namely, that, in each case certain directions have to be carefully observed before heneficial results can be obtained. lesirous of using nitrate of soda on it, the folliable, being the results of practical experience
by J. Davis, Midulesex County, Ont., who obtained by dsovis, Midalesex county, Ont,, who ortained The nitrate of solla should be applied the year
the plants will bear fruit; that is, the season after the bed was planted. Select a still, fine menced to make growth, and before the blossoms open. The leaves should be absolutely free of moisture. If the bed has been mulched, it should be removed as much as possible, so that the
plant food will have immediate access to the soil Having selected a favorable day, fill a pail or other handy utensil with the nitrate of soda, then
with the hand distribute it as evenly as possible person should clean as possible It will then fall on the soil to await natural or artificial irrigation before
it will become available as plant fond. If, during the operation of applying the fertilizer, it should rain, quit until the plants are again thoroughly dry. Never leave the nitrate of soda any such as of time on the plants, for its action is By leaving a row or two unfertilized, you will hater be able to satisfy yourself as to the value
of nitrate of soda. The plants on the fertilized rows should be lareer than the unfertilized; the fruit of hetter si/e, and earrier. As to the quan-
tity per acre of the nitrate of soda to apply, it depends on what system the rows are grown-hill From ino to ono nounds Per acre mate be used.
Middlesex Co. Ont. WM. BAR'TISTT, Jr.

Orchard Spraying at College. The general spraying of the orchard at Ontario sive report just issued, was as follows for 1908 1. Homemade lime-sulphur at the time the mads were swelling, but before growth started. 2. Bordeaux Mixture immediately preceding opening of the blossoms.
(3.

In the second and third sprayings an arsenical poison was used, Paris green being applied to oneother. The quantities used were six ounces of paris green in one case, and two pounds arsenate of lead in the other, per forty gallons of water. noted, but it was thought that the slightly higher
cost of arsenate of lead was more than compensatell by its greater uniformity of application, as
well as by its power of adhering longer to the folliage. by its power of adhering longer to the the season's operations, are: The apple scab was almost entirely controlled,
and some really excellent results were secured on heavily-loaded trees of such susceptible varieties The number of sprayings given was not suffiin those cases where the trees occupied a low higher ground, good resulls were obtained with this most susceptible variet
()wing to the fact that
Owing to the fact that our orchard is com-
posed of very many varieties, of which firty or more may be in bloom in any one season, we are not
able to spray for the codling moth as thoroughly
is we would wish. It is impracticable to spry ath varisty at the proper time, because of the Tht varieties, and berause several varieties are
phanted in the samm row, without regard to the matter of convensence in sprasing, Mome kinds
begin blooming tendays carlier than others, and the came digree of varlation alc-important spray-
on which bloom fall. The all
ins for codlong moth is said to be that applied ing for codling moth is said to be that applied
immediately ater blooming. At the time when
wo make this application we have consequently. we make this application, we have, consequenty,
varieties in every stape. from falling hoom to
whom fallen as lonk as ten days. The results of
the statement made above regarding the proper
time for combating the codling moth. We find tinue for combating the codling moth. We find
that trees sprayed during the falling of the bloom that trees sprayed during the falling of the bloom
or inmmediately after, give a lower percentage of injury from codling moth.
rhis phase of protection from injurious insects has an important bearing on the laying out ors place, to limit the number of varieties in a com mercial orchard. These varieties should then be arranged, in so far as possible, with a view to
facilitating the spraving of each variety at the facilitating the spraying of each variety at the in solid rows or solid blocks of one variety. The writer prefers solid rows, as less delay is oc-
casioned by the time taken in turning with the casioned by the time taken in turning with we
()n no account should varietie blooming at different dates be planted in the same row, or the ground will require to
twice in order to do thorough work.

Five Dollars' Worth of Information I would not care to miss one copy of "The
armer's Advocate." Iast year I did some grafting, and had good success. I gained my
inforination from " The Farmer's Advocate." That alone was worth $\$ 5$ to me. Send the welOme visitor another year
Prince Edward Co, Ont

## THE FARM BULLETIN.

## License for Shooting

ditor "The Farmer's Advocate ": contained an article deploring the destruction of birds for their plumage for millinery purposes. indeed time something was done or nature, which of these harmless crean we consider he important part they take in destroying the nany kinds of injurious insects present-day farmer.
Another question of equal importance is the settled parts of Ontario. As the forest areas and vood-lots are continually reduced, our stock of gaine, through lack of protection, has greatly dereased, and in some sections has become almost extinct. In consideration, this plan has been cuggested to me: Could not the enactment of a law be secured by the Game Protective Associa-
tion prohibiting those who insist on destroying those animals whose furs are of commercial value, and other game of lesser value, and also the rare pecies of birds, which havting, except they purhase a license, for a reasonable amount, legalizing them to kill a certain kind or certain kinds of game during a limited season-a license to be after only form of a deer-hunter's license. Would like a little discussion by the farmers on this question. It is to their own interests.
Oxford Co. Ont.

## Novel Farmers' Banquet.

The members of the Central Dumiries Farmers' banquet watertly. It was the last of a series of very successful meetings during the winter months. Members and their wives and daughters were the the best the farmer can prouce. an fare were soup-Extract of Alfalfa Hay; Boiled-Potted Head and Tail (this is to mak meet): Des sert-Bran Mash on Toast
Appropriate
toasts, singing and recitations Appropriate toasts, singing and F. C. Hart B. S. A.. Galt, who has been instrumental in or ganizing several clubs in that district, says that
they have been a great social factor in the comthey hav
munity.

## Some Show Dates.

May 12 th to 15 th-Montreal Horse Show. Show June 5 th to 15 th-Internation
Olympia, London, England.
June 22nd to 26th-Royal Show Gloucester, Eng land.
July 5 th to 10 th-Alberta Provincial, Calgary, Alta.
20th to 23 rd-Highland Society's Show. Stirling, Scotland
July 10 th to 17 th-Winnipeg Industrial Exhibi July 16 th to 23 rd-Brandon, Man. August 26 th to September 10 th -Canadian Na tional, Toronto.
September 10 th to 18 th -Western Fair, London,
seed-bed. No lumps appeared, and there was no
Mosquitoes, black flies and deer flies
Agriculture in New Ontario. Interesting details regarding agriculture in Ne
ontario were brought out by an ofter of prizes Thar Wewlere brought out by an olier of prizes Dy
The Wekky Gobe forsay telling about condi
tions under which farming is carried on in that tions under which farming is carried on in that
part of ontario. The first-prize essay was writ part of Ontario. The first-prize essay was writ
ten by $\mathbf{F}$. Kosmack, a seven-jear settler, of Mil berta, and is as follows :
In discussing " Agriculture in New Ontario, 1 shall have special reference to the 'Temiskaming
1/istrict. of which I have had seven years' experi ence. There are two ways of going to this district. First, by Canadian Pacific Railway to Mattawa, thence by branch line to the foot or Lake Temi
 Railway to North Bay; from there by Temiskam, ing and Northern Ontario to any station desired
on that line. There is no agricultural land worthy of the name on either road till the north end of Lake Temiskaming is reached. From there
north and west a most. decided change takes north and west a most decided change lakes
place. Two rivers, the Blanche and the Wahbi, enter the lake here, and the drainage area of these two rivers is at least ninety per cent. agricultural land of the first qua nen the rivers flowing north into James Bey is a scarcely perceptible ridge. Here (across the ridge) the land is also good clay soil These is next to no settlement there yel the valleys of the Blanche and Wahbi
The soin is almost exclusively alluvial-clay, light brown, yellow or white. Beds of gravel are
rare, and never deep.
Outcroppings of rock selrare, and never deep. outcroppings or fock sel
dom occurr, but they occur more requently in the dom occur, but they occur more requent The two
townships next to the height of land rivers flow in deep channels, with banks 20 to 60 leet high So easily is the clay dissolved in
water that the banks are changing yearly. Some
 in extent, with the trees on it, slide into the
river. Receding from the river, a flat of hall to


 | comprises perhaps 80 per cent. of the total aron |
| :--- |
| Over the clay is a black vegetable muld from | to 18 inches deep. The banks of the rivers, for

100 to 500 yards, have the least mould. Then an norupt rise of two to four, feet occurs, which
is composed of turly mould, intermixed with partis composed of turly mould, intermixed with part-ly-decayed wood, or sphagnum-moss only slighty
derayed. Towards the tableland this layer gets deeaper, till hepth of eight feet or more is
fenched. This era is termed ". muske.". From the tableland numerous ravines drain into the
muskeg. These never run very far, and leave the nuskeg. These neter run very far, for many miles. The tableland has n fa irly uniforin covering of mould, except where it is burnt off by
or in the process of clearing the land.
COVERFD witII FOREST.
The whole district, in its untouched state, is The whole district, in its untouched state, is
covered with thick, dark forest. The rees pre
vail in the following order: Spruce, white and black, are the most numerous, then balsam, poplar, balm of Gilead, tamarac, white birch, and
banksian, white and red pine. Cedars are not
are not
The
 maple, mountain ash, ground hemlock, raspber
ries, blueberries and cranberries. The timber is largest near the ravines, and there alone pine
is found. The wetter the land, the smaller the timber. In the muskegs, with now and then an exception, only black spruce and small, scrubby
tamarac appear, whiche are three to five inche
in diameter. visamer. in diameter, and at 80 feet; yet, eight-inch tress
are frequent.
Balsams are
Bemarkably sound and are found up to 18 inches in diameter. Pop
lars grow to great sire and lent $h$, lut are mort 1y too old, and are, therefore faulte. The irst
impression of the newcoure in the sprine, or
or rainy weather, is unfavoratles Wen the table
land appears to be an endless, dreary swamp, ill easily discournged are turned hack theren, Those Who have stayed have set tied invarially near the
ravines. It secms strange now that these , hho
rand
 dry enough when the hush and the fallen to
which blocked the run of the wator were rewne. yellow or white, hut the collor woms to makn
 plowinge, goes down to the clay omls in she keen the plow movin, hut, if onew plow.1. 'he on the shrine that had bown plowed in fo.

heed for a clod-crusher. This would not seem re almost any kind of clay, but the clay
rumble down without the help of frost.
ay that crembles

I give the followiug incident of my ownaxp the ence: Our land 18 on a covernment In the foad ditch 1 determined to have at least some garden. I made beds six feet wide, with narrow ditches between. The first spade depth was black vegetable moundety, and it was impossible The clay resen. The more you worked it, the
to break it up. tougher it got. In disgust, I despaired to have a garden that year, and warm, and to my astonThe weather was inhent. If hound, within three days, the lumps of clay crumbling down, not baking, as 1 expected to a solid lump. At the end of the week I was able to rake the mould and cay the world over. I may perhaps right here give the results of that and subsequent years in ta parsnips, lettuce, fair did best; onions, carrots, parsnips
hlood and sugar beets, not so well; turnips and callbage, medium at first. Teguminous plants do best ; they are the most independent onat the soil gen in the soil, not by any means
is deficient in nitrogen, but the land needs cultivation before the nitrogen becomes available for plant food. That is confirmed by the largely increased crops after a few years of cultivation
We grow now any kind of vegetables, even with out manure Celery does well, but we must strive to get it planted earlier than we have so
far It is very pleasant to do gardening, as the far. It is very pleasant tracks. Native weeds may be said not to exist. Fern ronts and wild aster give some trouble, but are easily conquered. the grasses, hue joint and brome ernss are spring ins up, if aler ation (so will strawberries and
taken into cultivation. raspherries
 peas and clover. red or alsike, grow pre-eminently axuriously $\begin{aligned} & \text { Timothy also does well } \\ & \text { onts and barley need a a crop of peas to preed }\end{aligned}$
them to do best, except when tho land has been hearily burnt over. It is teke regrev burn fot the sake of a pood first crop, which is secured at the sake ox a of the future. Experience leads $m$ to commend the following, course A light bur
removing only the moss, leaves and rotten wood removing only the moss, Ieaves and rotco mould. crop of peas, followed by onts, and seeded im lover and timothy, then left in meadow, as it will grow luxuriously for many vears. Cotive crops.
and timothy hay aro the most remuneration nhis will be casily understood when I state that Three tons to the acre are common, and hay
This course will leave the sctller firee to devote all his time to the clearing of more lind. wreserving the fertility
of the older land.
There is no temptation here tertility stored up since the creation of the world,
fill it is exhausted. nod then move on, as ouf Yankee friends are doing in the West.
At present, on account of the great activity in pat ferm and gartien produce is very high. The
setuler needs to seck no market. Milk, butter, eeggs, garden sturf, han, hen feed and onts
eagerly sought at his house. The demand
Then
 prodiction of beef does not receive the attention
that would seem desirable, because it can be im-
 2 bushel. or shorts at 81 , per top pounds. The
time when this country beemes an exporting

$\qquad$

clearing the land.
With regard to the clearing of the la
must be divided into two classes, namely must be divided into two classes, namely, tanl arac and poplar land on which tamarac predom nates, mixed with spruce; the latter, wher poplar (white wood) prean pine. The tamart birch, balsam and banksian pine.
land is covered with 12 to 18 inches sphamaumam moss. In this alone the trees stand. When the moss is burnt off, the stumps sit on top of the ground, not ons euce, also. The stumps must be drawn onf, used for temporary fences, or burnt No machinery is required; one good horse is
in afficien. ide-spreading years ago we had a dry summer nost favorable for the work. My son, with on horse, clearee an ac inder. With poplar land he proess must of necessity be difieren. ha process must of a bill poplar stump. Dyna hite, also, besides being costly, will not mak Eood work. The intermixed bassann and pin
also have a frm hold in the ground. The roots hot spreading on the top of the ground, it possible to cultivate between the stumps. The practice in tha it so till the poplar stump are well decayed. Then use a teain, with blod and line, or a capstan machine, for the final pul ing of the stumps
The winter is cold. he thermometer never rises above freezing, but is just as likely to be below zero ais above. Clear,
cold, calm weather prevails. Snow falls to the fepth of two to four feet, and is almost always of a teathery lightness, so that a horse may walk right through it. No crust may be expected
lin March. Winter in earnest comes between the middle of November and the first of December, and the break-up about the first of April. The chanye is usually quick and det ded. In summer shade. The nights are usullly cool, but we have nights when a mosquito neting (a canopy of fleasant to lie peacefully under such netting and isten to the concert given by a multitude of hungry musicians which would like to taste human
llood
 dark forest covers perhaps 90 per cent. of the land; seldom a ray of the sun stanls down to the ground. The snow is not ail gone in the forest
depths when vegutation is well started.
Every night a great volume of cold rises out of the woods from melting snow or evaporating moiscure, and as cold, like watem al ways seeks the As the percentage of bush 10 cleared land reverses. The social conditions are good. of course. there are cases where a pioneer of the pioneers penerrates ahea, of (if he has one) may feel lone-
and his orave wife
some at times, but these imstances are the excep-
bably sources of income. How does the new settler support himself and
his family till the produce of his land is sufficient Tor his wants? The timber on his land is his.
with the nexreption of the white ping
He sells tumarac, fat for railway tivs square for bridge timber; spruce and balsam as hoards for pulp.
Ties were 26 cents last winter; green lumber, on tul, spruce, $\$ 5$ : balsam, $\$ 3$ per cord on the
 Is paid. Sawmills are numerous. It is seldow to a mill, and the boards two to four miles to
:he car. Increntill, quantities of pulp and logs "ere taken out last winter, which benefits the tive work in winter: the cutting and removing
$\qquad$
$\qquad$
$\qquad$

en reward bescides the mav is

[^0]planation is simple. A very great percentage
the people here are often from the cities. The wages monthly in cash. When a man here goes in for carving out a farm, he receives no money
ior his labor; he receives his reward in the improved value of his land. When working for
wages, the pay comes immediately; in the other case, it takes two years before outlay commences to come in. If a man clears right to expect that it will bring him good interest for the $\$ 30$. He has no right to expect that he will also get his money back. If a man is not contented to take arm and a comfortable home shape of a good farm and a comiortable home;
if he is not willing to put up with the inevitable
hardships of a beginner, then let him keep away hardships of a beginner, then let him keep away
irom here. But if he is willing to spend $\$ 30$ in irom here. But if he is willing to spend $\$ 30$ in
clearing an acre of land that is sure to bring him
interest on $\$ 60$ here is the place for him.

## Oxford County Farm Notes.

 here har the weather has been dull and cold, andFeen much growth. and clover have come through the winter very
well. I have not seen any spots killed out. This is very encouraging, when the price of wheat is
so good, and if it keeps up through the summer, so good, and it it keeps up through the summer, se sown next fall. Our animals have all win-
tered pretty well, excepting pigs, which came tered pretty well, excepting pigs, which came was badly infested with worms six to eight inches
long. We are now iceding a handful of wood ashes to each pen. We had a mare that had long worms, and we tried to feed her the powders
recommended in "The Fariner's Advocate," but recommended in "'The Fariner's Advocate," but
they were so bitter that she would not eat chop that they were put into. We gave her wood ashes a few times, and then a very strong purga-
tive of aloes and linseed oil, and she is now thriv tive of aloes
ing all right.
Me are raising grade Holstein heifer calves on
separated milk and boiled linseed meal. Two different seasons we.fed call meal, and last year we
diluted the milk with hay tea, made from well diluted the milk with hay tea, made from well-
cured clover hay run through the cutting box. believe our calves this season are doing better on
the separated milk and linseed meal than they did on either of the calf meals or the hay tea. think it a great help for calves to come early,
We are getting $\$ 1.00$ for the calves we don't wish to raise.
The canned-chicken industry is still flourishing, Live hogs are now $\$ 7.25$, which is the highest
price we have reached for some time. But when we consider the high price of feed, there is not much in hogs at even that high figure. Shorts
are now selling at $\$ 1.30$ per 100 pounds, and are now selling at $\$ 1.30$ per 100 pounds, and
bran the same. Potaloes are being shipped at
sat all the railvay stations to points in the States.
The farmers are getting 70 cents per bag, and it is much nicer to deliver them in bulk on the car
than to peddle them out in the cities and towns than to pedile them out in ther cheese was sold for 12 cents, but see one factory got $12 \frac{1}{2}$ conts. The prospects for
the season are good, as it is generally believed that there is not much old cheese in the country Oats are bringing 50 cents, and barley for seed
70 to 80 cents. Wheat is now nearly all out of
the the iarmers' hands. Great care should be exer
cised in working the horses, aiter the winter of cised in working the horses, after the winter o
idteness. They should gradually be brought into
, The 'he hard work, and the feed very gradually in
creased. The colts' feet should be trimmed before they are turned out to pasture. We purchased a
"ream separator lately, and were amused to no lice how stoutly each agent maintained that the make of separator he was selling was so much
better than any of the other makes. Perhaps
they are all good. We believe the cream separator is a good thing.
We had a terrible wind storm here, which did both power and pumping, were put out of busines number of nower-mills have been taken down, but
cours is still giving good service, running its 9 th

Saskatchewan College In addition to selecting Saskatoon as the loca
tion of the Saskatchewan V niversit., the Board
of (iovernors also appointed IProf. W. J. Ruther ford. Deputy Minister of Agriculture, Dean of th
College of Agriculture. Prof. Fitherford will be yin at once to mature his plans for experiment
maildings, and the management of the
al furm which will be operated in connection with Al f.rm, which will be operated in connection with
ith. college. It is also understood that J. Brack ollege. it is also understood that J. Brack
13 A. now Director of Acricultural So
will have charge of one of the department

week will see the bulk of the seeding
P. E. I. Seed Grain, Mussel Mud, and Daipying.
The winter has slipped pleasantly by-no storms of any account, and good roads and good hauling all winter; and, in consequence, this ha been probably the best uinter for digging and hauling the valuable fertilizer, mussel mud, that
we have had for many years. There seems to be an endless supply of this mud still in our bays and rivers. (Good as this article is, some farms have been almost ruined with it, by putting on too much to the acre, or by the second o third application to the same land. Twelve to 15 one-horse loads is sufficient for an acre land, and that will do, as iar as we know, for all
time. Hundreds of carloads have been sent inland. and the further from shore, the greate
seemis to be the benefit from it. The Seed Fairs seetus to be the benefit from it. The Seed fair
at Summerside, this winter, was a great success
The entries more than doubled the The entries more than doubled those of a yea ago, and the fair of 1908 was said to be the bes
of its kind ever held in Canada. Exhibitors and visitors were there irom all parts of the Province, as well as many from across the Straits. The iatter, of course, werc there to purchase pur
seed. I'rince Edward Island holds the reputation of being able to grow and sell the best seed grain of any part of Canada. The 102,000 bushels of seed oats sent from this Province to th
Northwest by the Government one year ago wa ny far the best to be had. It is a regrettable inct that many parts of the Island have to give up wheat-growing for a time, at least, on, accoun of the ravages of the joint-worm. Some excellen
samples of wheat were shown at the fair this samples of wheat were shown at the fair this
winter. And in the Domestic Science department the lady who won the red ticket for best loaf o ground wheat, competing with the imported. In potatoes, there were over fifty baskets of on variety (the Mclntyre) that the judge, R. Robertten prizes to, and it was no easy task. After he got through, several were heard to remark
that surely he could have found a basket in the that surcly he could have found a basket in the
fifty that was free from dry-rot and other blemishes on which to place the red ticket. There io one matter which I hope will be settled definitely, that is, with regard to the right of the potato to be called the "American Wonder." For several deep-eyed, ugly potato, which they understood was the American Wonder, but it now turns out to be the old Jenny Lynn, grown forty years ago,
for feeding stock. They yield enormous crops, for feeding stock. they are not fo feed even a pig; in fact rigs will refuse to eat them after they have been ied other kinds. It has been the general opinion that clover It has been the general opinion that clover
seed could not be raised successfully on $P$. F. Sced could not be raised successfully on the fair were of an excellent quality, and we hope, another
vear, to see many more competing for the liberal ear, to see many more competing for the liberal
prizes onfered for clover seeds.
Donald Innis, Tobique, N. B., judged the wheat, barley and buckwheat, and, just to show the accuracy with Which he performed the task, I might mention) of where placed before him out of which ten had To be selected and awarded prizes. And in that same pile, and owned by the one farmer, but enMr. Innis, being entirely ignorant of this, placed those three 5th, 6th and Tth, proving clearly that he understood his business. ond and other grain,
ruller, Truro, judged the oats and
with equal satisfaction. We also had with us with equal satisfaction. We also had with us
Prof. M. Cumming, Principal of the Agricultural
College. Truro. N. S. who spoke twice in the College, Truro, N. Who spoke twice in the
Marivt Hall. to the delight of the large gathering of farmers irom all parts of the province, who
Came to hear and to learn, and who went away
satisfiel that they had heard the best agricultural

if he went the risht way about it. Fixhty dol-
lars mav seem a lot to feed a cow for ane ars mav sepm a lot to feed a cow for a vear.
hut if for that ,ighty dollars' worth of feed that


Quarantine Lifted by $\mathbf{U}$. S. Latisfied that the foot-and-mouth disease in
and swine has
aneep. other ruminants, and

Apiary Inspectors for 1909 Following is a list of apiary inspectors, with districts, for, the present Juar. The number has
been increased from eight to fourteen. This is argely due to the fact that the eastern part of argely due to the iact that the eastern part of ystem of inspection for this year

Acting on the advice of the local Beekeepers
ssociat Association, the system of inspection will be May 15th to August 15 th. In addition to his duties as inspector, Mr. ettit will have charge of the apiary which is ecture at the Agricultural College Guwl also apiary to agricultura college, forbor will consist of 25 colonies for this sear. This will be inreased until a good-sized apiary is established. 1. Inspector-J. S. Schrank, Port Elgin; Dis-(rict-Bruce and Huron. $\qquad$ ind Essex. Flgin Jno. Newton, Thamesford-Middlesex and 1. Jas. Armstrong, Cheapside-Oxford and Norfolk. Alpaugh, Eden-Wellington and Grey. Peel. H. G. Siball, Pettit. Nixon-Brant, Wentworth 8. Morley Pettit, Nixon-Brant, We 9. W. Scott, Wooler-Peterboro, Northumber land. Hastings and Prince Edward. 10 J. Byer, MIt. Joy-Ontario, York, Vic toria and Durham. (arleton. J. Leslie McNaughton, St. Raphael West -Russell. Prescott, Glengarry. $13 . \mathrm{M}$. IB. Holmes, Athens-Lennox \& Adding
ton, Fronterac and Leeds. ton, Fronterac and Leeds.
14. Homer Burke

To Ship Alberta Wheat to Britain Via Mexico.
Another route for wheat from Alberta to Eng land is being talked about. A prominent C.P.R. trip down the Pacific coast and across Mexico, and the report is that wheat from Alberta is to be taken across the mountains to Vancouver, carried across on the Tehuantepic railway, to Puerto, Mexico, a distance of 190 miles. There is ulready a line of steamers plying regularly be railway will arrange handling facilities for trans ferring grain in bulk from steamer to railway and from railway to steamer again. The route and should canal. If it develops into all the C. P. 1k. people expect it to, Alberta wheat will go into the Brther east is carried to the same market by the Atlantic

## 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 Advocate and Home Magazine." Therefore, we want all readers of "The Farmer's Advocate" to act all relub-raisers this year, and send us large lists of NEW 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. Get
The Farmer's Advocate and Home Magazine' into every household in your locality.
On May 27 th, the well-known Holstein breeder, On May 27th, the well-known Hoistein breeder,
A. C. Hallman, of IIreslau, Ont., between Guelph
and Berlin, will sell at auction, from his noted and Berlin, will sell at auction, from his noted Springbrook herd, 3.5 head of registered Holstein
cattle, bred direct from Ad anced Registry stock;

THE FARMER'S ADVOCATE

| BANK OFIORONIO |
| :---: |
| Head Office: Toronto, Can. Incorporated 1855 . |
| Pride-up Capital, $\quad \$ 4,000,000$ <br> Reserve Fund, <br> Total Assets, <br> $, 500,000$ |
| IN OUR <br> Savings Deparifinent |


| You will receive at any of our offices for allsums deposited with us : Interest half yearly. Bvery Convent Perfict Assurance that your money is safe. Courtbous Treatment at all times. |
| :---: |
|  |  |
|  |  |

## MARKETS.

## Toronto

Live STock. receipts were 30 cars, consisting of 600 cattle, 60 hogs, 6 sheep, 92 calves. Ex-
port trade dull, owing to scarcity of shipping space; only two or three loads on sale. Prices unchanged. loads
picked lots here, $\$ 5.25$ to $\$ 5.50$; loads
 $\$ 4.90$; common, $\$ 4$ to $\$ 4.50$; cows, $\$ 3.50$
to $\$ 4.50$; milkers, $\$ 3$ to $\$ 4$; calves, $\$ 3$ to $\$ 5.50$ per wt.; hogs, $\$ 7.50$ for selegts,
fod and watered at market, and $\$ 7.25$, 1. o. b. cars al country porins markiot Receipts of live stock at the City and
Union Stock-yards were moderately large the railways reporting 315 carloads, comprising 5,122 cattle, 5,839 hogs, 674 sheep ${ }^{\text {n }}$ horses. or export and butchers' cattle, feww fin-
shed loads being on sale. Trade was he close of the week. Exporters.- Wxport steers sold from
$\$ 5.40$ to $\$ 5.90$, the buek of the best gong at $\$ 5.50$ to $\$ 5.60$. Bulls, for exat $\$ 4.40$ to $\$ 4.75$.
Butchers'.--Prime
$\$ 5 . c k e d ~ l o t s ~ s o l d ~ a t ~$

 82.65.
Feeders and $S$ ockers.-Trade in feeders and stockers was a little more active
that is, more of both classes were on sala
but prices were unchanged. Best feeders 1,000 to 1,100 lbs. each, at $\$ 1.50$ t $\$ 4.75$; best feeders, 850 to $950 \mathrm{lbs} . \$ 3.90$
to $\$ 4.25$; stockers, 400 to 700 lbs . each Milkers and springers. - The number milkers and springers on sale was not
as large as for some time past, but al, foo
as lor
 to $\$ 55$ each. Veal Calves.-Receipts of veal calve
Veal the largest of the season, whic were the largest of the seanon, whic
caused prices to decline, at $\$ 3$ to $\$ 5.5$
per cwt. and lambs was larger, but prices remain much the sam, $\$ \$$, $\$ 4.25$; choice yearli,
$\$ 5 ;$ rams $\$: .50$ or
lambs, $\$ 7$ to $\$ 7.75$ per cwt; comm, yearlings, $\$ 5$ to $\$ 6$ per cwt , spring lamb
$\$ 3$ to $\$ 6$ each.
Hogs.-Receipts moderate, prices stead



Montreal.


 drivers, $\$ 130$ to $\$ 175 \%$ ser
horses, $\$ 35$ to $\$ 90$ each.


 | $\$ 8.50$ to $\$ 9.50$, track, Toronto. Straw |
| :--- |
| -Prices ranged |
| from |
| $\$ 6.75$ |
| to |
| 7.50 , | track, Toronto. Manitoba meal- $\$ 28.50$

per ton. Flax-seed meal, $\$ 3$ to $\$ 3.25$, per ton. Flax-seed meal,
in sacks, Toronto.
$\qquad$ dairy or creamery of good quality.
Creamery pound rolls,
26c. to 27 c .;
creamery
solids, 21 c . to
22 c c.; separator dairy, 24 c . to 25 c .; store lots, 19 c . to
Cheese.-Market steady.
14..; twins, 14 d c. $\quad$ New. Honey. - Market unchanged. Extracted, $\$ 2.75$ to $\$ 3.25$. Per baees.-Yrices firm, at 85 c . To 900 per bag. for car lots, or track, Tornta
Beans.-Market firm. Primes, $\$ 1.90$ to $\$ 2$; hand-picked, $\$ 2.10$. HIDES AND wool.
E. T. Carter \& Co.., wholesale dealers
in wool, hides, etc., quote prices as follows
lows: Hides-No. 1 inspected steers, 60
lbs. up. $10 \ddagger$..; No. 2 inspected steers, 60
 spected cows and bulls, 8c. to 8tc.; coun-
try hides. Sc. to 8tc., call skins 12 c . to
14 c . try hides, Sc. to 8tc.; calf skins, 12c. to
14 c . horse hides, No. $1, \$ 2.50$ to $\$ 2.75$.
horse
 plication. Onions, per bag. $\$ 1.25$ to $\$ 1.40$; tur
nips, 35 c . per bag; parsnips, 50 c . to 6 K

 $\$ 7$ is being asked by the dealers; Bald
wins, $\$ 4$ to $\$ 4.50$ Greenings, $\$ 3.50$
$\$ 4.5$. 8. 25; Russels,
Chicaco.

 and feeders. $\$ 3.30$ to $\$ 5.85$. 60 ; stockers
Hogs. - Choice heavy
 mixed $\$ 6$
to $\$ 7.30$
$\$ 5 \quad 10$
$\$ 7.40$ \$7.40.
Sheen
$\$ 6.60$ lat
$\$ 8.05$.
$\square$
Buffalo.

Montreal during the month of May is
excellent, the average weekly shipments eing estimated at not less than 2,500 o 3,000 head. Demand for ocean freight
pace is all that could be expected, and better prices are being obtained than was
thought likely some time ago. Hall the May space to London has been taken a 25 s . to 27 s . 6 d . per head, and about half
the Liverpool space at 2 s . 6 d . more than the Liverpool space at 2s. 6d. more than
to London. There has not been much demand for Manchester space, at 27 s . 6 d at
hile Glasgow is belng slowly taken at while Glasgow is
2s. 6d. more. Outinde of Armour \& Co.,
which firm has closed for a lot of space, which firm has closed for a
American shippers have done but little
dithe freight business here. Some think shiph
nents of cattle from the Canadian North west will be light this season.
Ontario distillery cattle were offered Ontario aisticy per 1 b . for steers, and
last week at 6 f .
at 5 j c. to a fraction less for the bulls. at 5 fc. to a fraction less for the kinds
There was a good demand for all kill
giteaned of live stock, butchers bock purchased at
out of their surplus stock
Easter time. Choice stock sold at 5 g .
Col

 supplies and good demand, the market for
sheep and lambs was firm. Yearlings
 5 and
in active demand, at $\$ 3$ to $\$ 6$ each, ac
cording to size. Calves sold at $\$ 2$ to cording to size. Calves soldats were
$\$ 8$ each. $\quad$ Packers and butchers
after hogs, and as supplies were light,

$$
\begin{aligned}
& \text { after } \\
& \text { price } \\
& \text { select }
\end{aligned}
$$

Horse
the we
perienci periencing a good demand, both fro nice horses having been bought for the East and New Brunswick, to fill require
ments of lumber mills. The market held
met steady, prices being as follows: Heav,
draft, weighing from 1,500 to 1,700 lbs each, $\$ 225$ to $\$ 300$ each; light draft
weighing weighing 1,400 to 1,500 ins., $\$ 185$
$\$ 240$ each; small or inferior horses, weighing 1,000 to 1,100 lbs., $\$ 100$ to
$\$ 150$; and fine saddle or carriage animals, $\$ 300$ to $\$ 500$.
Dressed Hogs and Provisions. - The mar
ket tor dressed hogs showed considerable firmness in sympathy with that for live per lb., for fresh-killed, abattoir-dresse
Bacon was in ac demand being good. Bacon was in ac
tive demand, and the market held firm
$\qquad$
$\qquad$ asked equal to $\$ 1.15$ per 90 lbs... in car
ooads, delivered in Montreal. It is douh oads, delivered in Montreal. That figure was realized This store, would cost alout $\$ 1.30$. Th
strength of the market was due to active demand from the nited less expensive.
Maple Products.—Production has been quite light, but quite a little was carri

$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

## IMPERIAL BANK OF CANADA

cmartered 1875.

Capital Authorized $10,000,000,00$
$5,000,000,00$ Rest,

SAVINGS DEPARTMENT
\$1.00 opens an account. Intere paid at highest.
Farmers' sale notes discounted Branches thro
minion of Canada.

$$
\begin{aligned}
& \text { Cheese. -Th } \\
& \text { new to repor }
\end{aligned}
$$

new to report.
Grain.- The market for wheat was very
strong, but oats showed little change being 51c. to 51 dc . per bushel, store, for
carload lots of No. 2 Canadian Western yet
tari
ing
less.
lo.
No.

79
Flour-Manitobas were steady, at pre
vious rises, but Ontarios stood higher, at
$\$ 5.60$ to $\$ 5.75$ for patents, and $\$ 5.80$ to vious rises, but ontaricest, and $\$ 5.50$ to
$\$ 5.60$ to $\$ 5.75$ for patent
$\$ 5.60$ for strong bakers. Manitobas $\$ 5.60$ for strong bakers. Manitobas
showed a wide range, at $\$ 6.10$ to $\$ 6.50$ showed a wide range, at $\$ 6.10$ to $\$ 6.50$
per bbl. for first patents, $\$ 5.60$ to $\$ 6$
per $\$ 5.40$ to $\$ 5.80$ for trong bakers
Millfeed.-The market for bran and
shorts was very firm, end prices stood: shorts was very firm,
Bran, Manitobas, $\$ 22$ to $\$ 23$, in bagg;
Ontarios $\$ 10$ more; shorts, Manitobas or
 per ton.
Hay.-Market steady, at $\$ 12.50$ to $\$ 13.50$
tor $\$ 1150$ to $\$ 12$ for No. 2 extra; Kor No. $1 ; \$ 11.50$ to $\$ 12$ for No. 2 extra;
$\$ 9$ to $\$ 10$ for No. $2 ; \$ 8$ to $\$ 8.50$ tor
it $\$ 750$ for clover clo mixed, Montreal.
Seeds.-Dealers worked overtime in Srder to keep up with orders. Pricos
held about steady, at $\$ 13$ to $\$ 14$ per held about steady,
100 lbs. for red clover; $\$ 16$ to $\$ 18$ for
$\$ 525$ to $\$ 6.50$ for timothy. alsike, and $\$ 5.25$ to $\$ 6.50$ for timothy, and



British Cattle Markets
 steers, dressed 9 cc . to 10 c . per lb.
was quoted at
Liverpool.-States steers, from 13 to 14 c . Canadians. 13 kc c. to 13 kc c.: cows and
heifers. 13 c . to 13 k .; bulls, 10 kc . to 1 lc .
a hog is a hog - when? An Iowa gentloman who has handiad
lots of 'em answers the question thus: "We are in receipt of a beautiful picture
bearing your 'ear marks.' and we agroe
that the hog is 'in good hands.' We that the hog is 'in good hands.' We
thave been in the hog -shipping business for some years now, and have hanat a
some hog during this period. What what a bless-
beautiful animal the hog is; what some hog during this period what a bless-
beautiful animal the hog is; whe
ing he is; what a source of joy and happling he is: what a source of joy and happi-
ness he is; what a desirable and coveted ness he is; what a desirable and coret he
necessity he is, and yet what a curse he
is. what a cource of grief and sorrow he ds: what a source of grief and sorrow a is: what a trouble-maker he is; wher
nerve-wrecking animal is he: and after all
who likes pork chops better than the writer ? ${ }^{\text {"We have looked at this hog-shipping }}$ bisiness from all sides of both shippor
$\qquad$


Among the good things that have "e require of our correspondents, and been instituted I Association. The County Teachin their way, but it is eminently desirable that a more direct avenue to
he center of education, such as the he center of education, such as the
Educational Association (which is ontinually broadening in scope) afords, shall be open to the men and
vomen who hold the education of the rovince in their hands. Provided with such meetings, the body of
teachers may appeal directly to the Minister of the Departinent in regard o grievances; may present original lers which are too broad to be dis-
posed of in the local conventions; and posed of in the local conventions; and may comes of a new insight into the scope of a work which is pre-
eminently the greatest and most fareaching work that is being carried
on to-day, forming, as it does, the oundation upon which all other
work must be built. Upon the educationists, more than upon any other class, depends the future of our counAt the recent meeting of the Assoiation, in Toronto, spirited debates
ook place ; on the plan to introduce military training in the schools; on
the undue supervision and direction of High Schools by inspectors, to the of High Schools by inspectors, initiative and originality of the principals, and prodred subjects ; and on the effect which may result from the extra-
ordinary number of female teachers In regard to the last subject, which was introduced by Mr. Mcknight, of Owen Sound, the speaker said he
thought it must be a cause for re gret to every Canadian to find that trained by an army of girls, whose
outstanding characteristics as teachwhose average age does not exceed twenty years, and whose average ex-
perience was not more than six perience was not more than six
years. He thought, if the plans prevaing a residence and garden to the teacher, and a higher salary
were adopted here, male teacher wore adopted be attracted to and retained in the teaching profession. is more
Ostensibly, the question pertinent to the rural than to th
urban districts.
In the majority o the cities men are engaged as prin ripals, hence the boys, in their prog-
ress through the public school, are of, and must spend the last year under the direct control of, men. In We should be glad to hear the oninion of our readers in regard to wis or any educationa subject and ustees, but all of the people, should in education, and that those who unable to attend such institutions
the Educational Association the Educationadium for expres-
ould have some metione
of opinion: hence, we are glad uld have some medium we are glad
of opinion: hence, we hrow open the pages of our paper listed in the campaign against local he subject is a broad one, requir- (1n nur sity market we have an in

Wheases. Mr. Farmer goes to The city market, he is not allowed
to offer produce there if it falls be low the market standard. In the same city, Mr. Farmer can meet a
man so much under the influence of liquor that he is not capable of takliquor that he is not cat
ing care of himself.
equal in this respect. Then, we have inspectors sent out ply milk to the city, that as pure a quality of milk as possible may be procured; use all precautions pos-
sible as to the milk supply, and still sible as to the milk suppy, and
allow the liquor to play haver with the consumers !
We have often read in the agricul-
tural press about raising the standard of Canadian cheese. The general cry is, "Raise the standard of Canadian cheese; give our brethren So be it. But how about the liquor traffic over there? Any person who will take the trouble to investsgat the statistics of the wall aware that liquor is used more than would be necessary for medical purposes. Should we not recognize that we
are our brother's keeper, and, for the sake of those who have over-
taken the fault of indulging in the taken the fault of indulging in the
use of intoxicating liquors, try to establish the local-option by-1aw The
every part of our Province? three-fifth clause is a handicap to the passing of this by-law in many
places, but should not be, as there should be three-fifths of the people in any locality opposed is a the liquor traffic. Wishing your paper all success, I hope we may hear from Sand
Fraser on this important subject.

Local Option Not a Failure.
Editor " The Farmer's Advocale" : Having read, from time to time,
in your valuable paper letters re the temperance question, I would like to give my opinion of local option. Liv-
ing about thirteen miles from Owen ing about thirteen mitched with interest during the past three years the work ings of and the effect that the by-law
has had on that town. When the has had on that town. When the ineasure was first proposed, and aiter great opposition to it, and a great many wiseacres pre the dogs. Now town would go to the dogs.
although some people still persist in saying that the town is being ruined, I don't think any fair-minded person good a bargain there as he could be gore the by-law was put into force Now, does it not stand to reaso And are they going to stay at home to do it? I know for certain that there is not a farmer around that
used the town three years ago to market his produce in, that will make a practice of going elsewhere some say, "Well, it is the county.
town, and one of the chief ports o town, and one of the chier ports and there is more scope for market purposes, and it is
those conditions that make it supe rior as a market. Agreed; that all very true, but anti-local-option. has it done so? I say no, and it never will. I inquired of two of the
leading business men of the town on

Better," and the other that, alhough there was not much difference
the general business, yet their ash business was decidedly better;
ome months they would take in as huch as one hundred dollars more than they did in corresponding Then when there were ficenses. Then, again, the opposition say that
here is more drinking now than formerly. Now, I admit that occasionally there may be seen an in-
toxicated man on the street, but every one that is seen now is more every oable than formerly, I think I may safely say that, instead of being the rule, it is an exception
the rule, to see a drunken man. know that liquor is sold, but to say that it is sold in larger quantitiea than formerly is an absurdity, or ing for their licenses? For surely, if they sell more without a license than with one, they must be making
more money, and that is what they are after.
Last January, and the January previous, there appeare open letter, signed by the mayor, and a petition signed by some of the leading business men of the town, saying what a curse local option was, and that
the town was like a house divided against itself. Now, not one of these men is engaged in supplying
the working man with his weekly necessities, such as groceries and meat, and there was not the name of a drygoods merchant on it, so how wer
they to know how it affected the necessary weekly spendings ? They nere mostly wholesale merchants, that did the volume of their business
outside the town, or else by large contracts. cry about accommodation. Of course, to close up their stables, and lots of farmers believed they would do. it but, although the price for stabling anybody has been "broken" by it but some begrudge five or ten cents extra for stabling, but would not think anything of spending a dollar
for drink. For my part, I can always get all the stabling I want is on some special day, such used to come before. Anybody can get as good a meal at the temperance hotel for 25 cents as any-
where else for the same money, and am told that the sleeping and boarding accommodation is excellent. Then, there are the restaurants; any too. Some say, "Well, we have no place to warm ourselves, unless it is around some store stove." My ango home ; it won't hurt you to be home a couple of hours sooner than you used to be. I think, when all
the talk about the town going to the dogs is reckoned up, the only the dogs that suffers is the liquor business; and the more it suffers, the

People, Books and Doings. The average age of the men com-
posing the Taft Cabinet is fifty-sev-
$\qquad$
$\qquad$
man's Home," which set England in
a panic, and caused the addition a panic, and caused the addition of
thousands to the Territorial Army, but was subsequently hissed off the
stage at Berlin, is being put on the stage at Berlin,
stage in Toront
Guglielmo Marconi, the wireless-
telegraph inventor, was recently the telegraph inventor, was recently the
guest at dinner of King Victor Emguest at dinner of King Victor Em-
manuel of Italy. To His Majesty manuel of Italy.
Marconi made the statement that,
by the erection of an extra powerful plant at Coltano, near Pisa, he ex pected, within twelve months, to
have direct wireless- communication have direct
with America
The Saturday Evening Post tells this story of two Canadian writer - Before Arthur Stringer came into the popular favor which he now en joys as a writer of stories, he was
living with a fellow-author, Harry O'Higgins, on the top floor of the
old studio building at 146 Fifth Avenue, New York. It was very bo hemian, that top floor, with on
whole wall, in what they called The Whole wall, of a Thousand Sorrowe, papered with rejection slips from
editors. But in winter it was as cold was in the halls. So Stringe and O'Higgins, in those early, 'lean years, used to hang an old burlap curtain across then the rest of the house had se tled down to slumber and quietness their two-dollar cots, and steal out in their pyjamas to the hallway, to
slumber in that nice, warm and team-heated atmosphere
" Stringer had been wrestling with a safe-breaking story, and the back of a magazine where catalog es ioturally enough, he ventured to write and dealing with extra-large, burglarproof vaults. That Fifth Avenue address brough a sike representative of the well-known Broadway safemakers
over, with the catalogues in question, the very next morning.
ascended those shabby studio stairs, fight by flight, with gradually dark burlap curtain and diacovered that the recumbent frame on the tho-
dollar cot was his dreamed-of pur-
chaser, he gave vent to one silent chaser, he gave vent to one silen
look of disgust, and departed
with". And O'Higgins always claimed
that Stringer Chrew a milk-bottle at the man for waking hi
o'clock in the morning

Pension Day: A Landmark in Bristory

The first day of this present year
(1909) brought to the hearts of at
least half a million of aged men and least half a million of aged men and
women in the Old Land an intense
joy and relief of mind. Many of them joy and relief of mind. Many of them
had lived in grinding poverty, often without even a crust to save them
from threatened starvation, but now
a paternal (iovernment had passel a paternal erensions Act, by which
the Old-age Pens
in sums ranging from 25 cents to in sums ranging from 2 , cents as
$\$ 1.25$ per week, such applicants
and had who had never been in receipt
and wublic charity, or had been in.
of mates of either workhouse of char
table institution, might become per sioners for lite
I am indebted to friends in the Old Land for many pathetic incidents Which occurson day," but on somit
first "pension
subsequent ones, many beiny withit their own knowledge; and in thes
stories pathos and humor, wer stories pathos and. Perhaps th
touchingly intermixed
man who can claim to be the firs man who cane pensioner of whl was (ieorg whom the postmaster found patien ly waiting at the pav-wicket, wh
he lifted its latch as the town clor he lifted its

## the oldest claiman

London's oldest pensioner was Re becca Clarke, who is 104 years old. At ten o'clock yesterday morning she
rose unaided, dressed herself, and
walked down the stairs of her son's rose unaided, dressed
walked down the stairs of her son's
house, 104, High-road, Wood Green. house, 104, High-road, Wood Green. a red shawl knitted by herself to the post offfice on the top of the hill should be postponed until the sun
shone was greeted with scorn. you say another word, I'll run there," said the old lady. Breakfast consisted of two slices of bread and
butter and a cup of tea, and at noon, butter and a cup of tea, and at noon,
Rebecca Clarke, accompanied by her, son, set out for her pension, wearing
a Paisley shawl and a black velvet a Paisley shawl and a black velvet
bonnet, adorned with a black-velvet feather. Clarke entered the post office
Mrs. with a bustinesstre was produced with her name and mark on the into put her. mark on the check, and witness. "A happy New Year, witness. the clerks on receiving
she said to the che be here again next
the money, l'll be the money, " 1 'll be here again next
week." "What will you do with the money?" she was asked. 104, promptly ; "I'm a plagu
one for kicking out boots."
BLIND WOMAN'S REGRET.

$$
\begin{aligned}
& \text { A blind woman of seventy-six was } \\
& \text { led in by a kindly neighbor. . They }
\end{aligned}
$$ told me I could send someone for

it," she said, in her high, thin, pait," she said, in her high, thin, pa-
tient voice, ""but 1 wanted to draw tient voice, "but 1 wanted to draw
it myself. Put the five shillings into my hand, please. Yes, that's "I do wish my old man could see
me now," she went on. "He only me now, she went on.
died two years back, and he'a died
quite happy if it hadn't been for quite happy if it hadn't been for
wondering what would happen to me wondering what would happen to me
He was a pensioner, he was; bank messenger for forty-seven years. Bu his pension didn't go on no longe
after he was dead. It's been a hard struggle since then. I can make struggle since hen. 1 little by knitting, and a lady give me my rent-money, two-and-six a week,
and the neighbors was always kind. and the neighbors was always kind
But this five shillings here, and an other next week, and the week after
that, and every week as long as live, why, it's like as if I owned a bank meself, same as the gentleman
which employed my old man did." with The leaf ones. With the deal ones there was some
little trouble. One old soldier who could not write, and therefore had
to " make his mark," had brought «no one to witness his cross. At woman behind the counter was tell-
ing him he had come on the wrong
day he imasined she was day. Then he imagined she was pulted out a mass of War-oftice docu-
ments which immediately fell in confusion all over the floor. linally,
with the help of a customer who had come in to buy stamps, he was made
to understand what was wanted. "Oh," he said, " my niece is com-
ing to be my witness. 1sn't she here ?"'
While we waited he onfered some
Crimean reminiscences to a
little Crimean reminiseences to a Mitte
knot of sympathizers. $\quad$ More'n
fifty pears aro it must t, now," he

 glare Ite had a hit of an allow,
ance from the War office-a shilling
$a$ day, and another thremand-six ame pension only came to two shit chuchled. Two hot a week is
$\qquad$ This wand wind in tiny old wo


 $\substack{\text { colals into } \\ \text { furnase } \\ \text { fura } \\ \text { HIanent }}$ Haven't had a bit o fre for
three weeks mat
 wanted it up to then, eh? Came two-three cold nights, and 1 treated myselifto a warm. But then 1 losy
sixpence out in the streat one day sixpence out in the street one day
Never knew where it went, my dear
 Ant sine then 1ve had no money
for fring, not enoug, to telth the
then

 Food first, freater Tis tragedies
One pension-book was not presented
poor old soldier
 apply tor the pension he has sono at
orably earmed. $A$ fow days aboars the end of a narrow alles, a hearse was waiting. on rough cotin was
broubht from one of the littie houses
 and a little boy, she had that look of wise resignation in her face which
one sees so often among women who one sees so often among women wh
have lived unsheltered lives. "She don't look even sorry" murmured one of a litue group or neige "She's sorry enough ror herself,
pore lamb,", said another,
, but he he
 Live to draw your pension, daday
shod d say to him time and again, an shed hayr ther say ine and ugen to ony
shake his head and tell her he was wearying for rest. Time for the
 him The Home where we shall all
meat some day I I mean dearie hed
 answer her. And she duast ow
hime and pat his old than. he's anp oun where he don't want no pension. Came too late for nim,
 Couching, simple faith like his, who
would not be " Glad to go ", w?
 will close with two out of several in
stances of unsel lish gratitude In the orererory box of a parish
church in Liverpool on Sunday there church in Liverpool on sunday there
was a paper packel containing two

 was related by the Bishop of Liver
pooll
It is ans also stated that to
 Sanderson, an aged sunday:schooi worker, subseri ied dive shilings, the
first sum she received under the new It is ploanant to see recorded that.
as a whole, the recipients of the old.
 and kindness which made it easy for
 vision made for ther pot the proter
Kournment


$\qquad$

 your notion whth ne heo thor honturn




$\qquad$

## Hope's Quiet Hour

The Power of a Vision.

## ane men shall see vin.

Thought in the mind hath made
y thought was wrought and buill. ath a man's mind the wheel the ox ar athies purity of inourh on en endure an his own shacow-sure
James Allon, in his recently-wullined book, "Asan Man Thinketh," sens, The
Vision that you glority in your mind, the Ideal that you onhrono in your hart-
this you will buld your IIte by, this you iil become"

 Thought all things have procecded
semm to

have realized tho power of thount when, in his great pubicic thankgiving prayer has gaps his for torer in | harat of Thy people, |
| :--- |
| Our Lerd was was preaching the power of | Thought when He ofended the phar toed

 man; but that which cometh out of the mouth, this defilath a man." His ex-
planation to the wondering disciples was: "Those things which proceed out of the mouth come forth from the heart; and heart proceed evil thoughts." The prophet Micah is preaching the
awful might of evil thoughts, when be says : "Woo to them that devise in
iquity, and work evil upon their beds: When the morning is light, they practice it, because it is in the power of their
hand." But wawt to look at tho other olte ino power for good of a right idaal. and have lael coveries along the tino of electricty, Ry genias and. ot oursee whas inverame powers must and outuel", but it would

 his hartuluness to his Vislon. The boy | Mho spent every spare hour in oxpenh |
| :--- |
| menting with electric batterites and ama | cour telegraphy naturaly developopd into

 and deprived himsell of neoduru slown While ho tred to wor foll his visoond
 discouracesemen or own himaell beaten is said that his yuar of beartitreaxinge

 suys In order to give you an inae o What this oxperimenting meant it
stated that the cost ot scrurring the mat terials tor the experiuents, rtom al parth ot the Elobo, from South Amerifa, Chima

 Ites of bamboo werere experimentind wit
 ante the task of of sinen undider ook the tormin

 Cihero arre "roorts, and there are reallt $\rightarrow$ the reant: $A$ man whe

stones on which he may climb, to succe. stones on which hee he fails he learny t,
because ever tite
know his own weak places, and his, know his own weak to waces, manes him
termined purpose to mere min mows he dealk.
No one has time to devote himselif No one has a dozen different directions.
thoroughty in a
In tact, no one who intends to tive life In tatct no one who intends to ilve lite
enthasiastically can arford ot waste energy
by attempting the impossible feat of sery by attempting the imposs.
ing two masters for he will surely find
that he is holding to the one and dosinis that the is holding to the one and dessils
ing the othrer., that does not
onean that a man cant be an enthusiastiit
 thusiast on the subject of electricity
But the ruling ideal must dominate all lesser ideals; and, if they ever clash, the will do. ${ }^{\text {as }}$. any other "ruling passion.

 man come to Me, and hate not his father,
and mother, and wien and chind
aretren, and sisters, and
bend hind ni, and
 course, He who lays
Iufliling of the whole duty ore man, can
not command His followers to hate
 Crisisianity to "Iove your enemies" and name given by God Himself? So ding
tail in love to your own family.
Isut will not promote sppritual pride, or care the love that Curist demands is so domi-
neant that all other anfection must bow before tity just as the love for one's own
ilie must be sacrifeced at tho imperative
call of Duty. When a man must choose
What call of Duty, When a man must chonse
evil deliberately, or yiel hisu sifon a
forteit. the sum total of his whole past forfeit. the sum total of his whole past
life decides which course he will taie.
RutTis man's perdition to be sate,
When tor the truth he oushte to

If your Vision is a high one, and yel
you feel that you are drifting away trom it, rather than seeing it more clearly as
the years roll on, it is very plain,. hat
 great which man has accompished oha
been attained largely by reason of the possession of the ardent, burning hame
of desire that, acting on the water of thought in the boiler of the mind, pro-
duces the steam of will and action. duces un stean or morld would never
Without desire the wor The young men and women "s se about winning then to press steadily to Visions will rado away. A few minutes ago
readers whe who says: "I am easily dis
and
 doubt enters. Things do not sem to
what they used to."
She says that in speaking to an acturinintance about he
loss of happiness in her religion, she wa
Iold losso of happiness in her religion, she wau
told that "then. she had beon "youn loved, but that happiness would not tasic
when tho faced the . sterner realitites
iffon life." What a bit of discouraging in
formation that was, to be sure! My dear "Anxious Mother." I can't take uh
all your questions today-being in th. all your questions
midd die of my weekly chat when your le le

 subject. hoping to publish it very short-
y, which may help to set your mind at
 "Ussire" harden into steady purpose,
 he rath of the just is an the shining

 1:nnuirer is grateriul to a subscriber


 of an earthly monarch, who were in-
different to the titeses given them by birth.
 scriber, or someone else, please answer
the following Are there Scriptures to lited to the word "Reverend," or
thom can it be applied?
whe

## The Beaver Circle

The Competition.
$\qquad$ puzzle a great many. Only two, in fac -Helen Colbeck and Dolly Gothorpguessed right. We have sent both a a little more about the plant than she did; and we are also sending Edna Coyld a book, not because of the competition bug letter she wroto sucta an irterest now, just a word about the skun: if ever you meet it in the bogs or damp woods. The picture shown represented he flowers, or rather the "spathes" surthan the leaves. These spathes are
green, veined with purple, and looking
inside of them you find the clusters of inside of them you find the clusters of
tiny flowers, which scarcely look like howers at all. Later, the leaves, which low a
but from its first appearance you may
know the plant by its strong skunk-like know the plant by its strong skunk-like
odor. In spite of this, however. you are odike. to be quite fond of the skunk cabbage, for it is one of the very frrst signs
of spring, and is so brave, pushing itself March winds. Then its "green" is so
hery and wholesome you see it, especially it a robin is sing-
ing near, you begin to feel that summer is in sight. Helen Colbeck says its his, nor can I find any reference to it in any of my books. There are not many not take up any more space, as I wish
$\qquad$ makes its appearance. It grows through
ice and water and is a very hardy plant
ihe reason it is called shunk cabboge is because its odor is iliko the skunk's.
Insects which visit this
plant make their escape, because the odor of
the plant kills them. Later in the seathe plant kills them. Later in the sea.
son, it becomes dry, and gradually loses $s$ smell. HELEN M. Colbeck (age 12). The Skunk Cabbage.
D) Car Puck.-I saw in the Beaver Circle.
Shatr thou find Jresus :" 1) ar Puck,-I saw in the Beaver Circle.
in "The Farmer's Advocate," a picture which I think is the skunk cabbage.
 growing in matso parts of Canada.
Inited States. (Also
Fid.) It is sometimes called "meadow.
cory, ofd friend can you not see that
every
of your triendly hent trying to plock out you wish iendly head, your history? I airy, just say so, and we will kindly do te, but remember that a fairy alwayz
Undouts his history.
Indy you ara tells his history. Undoubtedly you are
just the editor, but let us treat you as a farry, 1 know that many would be $\underset{\substack{\text { amused by } \\ \text { I must } \\ \text { ro }}}{ }$
ane with the flowers, wishing

- milna coyle lage

Ah. but this fairy does not tell his history. Edna. Tell me, didn't you read the story of Puck in "Midsummer Night's
Dream," Lamb's ${ }^{\text {."Tales }}$ trom
Shake speare have sharp eyes, little girl. See
 one side of the paren wase wrte on

## A Reasonable Guess

## an, saw in ficture of

为 Here is a picture of a clump of tulipe in the corner of a garden. They are not out yet, but they soon will come out by the looks of them. In the fall we take the piece of ground intended for the tulipe natine it. Then we put the tullip get our bulbs, ns we have other things to think about, such as skating, and be tore we recognize it, spring comes along. We cannot do any skating now, so wo think of the tulps again. A8 soon asit gets $a$ litte warmer, up come the tulip leaves. They are very broad and
emooth. Next we notice round, tat bude, coming up beside the teat. Soon, out peeps a large nower. In a day or so wo soe the tulip as large as it will be on one
tulip is white another is cream and yot culip is white, another is croam, and
another a mixture of whito and rod. another ane great care to woth whem, and,
to our sorrow, we and them startugg to to our sorrow. ma dod them stamting to
wilt in for or Avo days, but wo soo that wilt in four or ave days, but wo seo that
there are more to come out, as they are Iator than the Arrat ones. This takes place about the ofret of May.
so they are early fowers. Well, I gueas oo they are early fowers. Well, I guen
this is all I know about tulips. Here is a very interesting and amusing game: Dram a donkey and fasten it to
 pin through it. Blindold a person and
put him in the middle of the room. Give him the tail, and toll him to pin it to the donkey. You tell him when he fio
running into anything, but that is all. He pins it wherver he can.
Here is a game which is very amusing. Take the cards ued in playing "snap"
or "old maid" and take your turn pin putting one down. When you get two puting one down. hen you get you say the names of animals
the chosen by the players, before starting to
on glay, and say them first.
Well, I guess I have written too long a leter now, so I must close, wishing the eaver in oswalo (age 12)
Chesley, Ont.
hittle tulip girl
A Woodsy Boy.
Dear Puck,-1 enjoy reading the lottors
in the
Beaver circle
very
much, and in the Meave Circle very muhh, and
thought I would Ike to foin in the com-
vetition. What doe this picture repre ent? Would any it is the lease ,lant or herb that grows in the woods
 snow has gone. It has a leat quite like
the lily of the valley, but smells very the hil oo thons or chives. Sometimes
much like ont the cows eat them and that spoils the
favor of the butter. I think Peggie Ike is a boy. also.
R. W.
G. C. Cook Grey Co. Ont.
Your letter makes me think of the woods, R. W. G. Did you ever ramble Wunch" at you trom school-and eat Uachro when you came beck? But the
seems to be arousing popular attention, if one may judge from the fact that three
communications in regard communications in regard to the subject
have found their way to this office within ave
single
weel
The first refers to the steps taken by
the Women's Massachusetts Homestead the Women's Massachusetts Homestead Association towards inducing the State
to supply small suburban farms to the 100,000 spingters of that State who mus earn their own living, the farms to be

devoted to the raising of flowers, herbs, | devoted to the raising of flowers, herbs, |
| :--- |
| mushroms. $\begin{array}{l}\text { straw werries, } \\ \text { vegetables, }\end{array}$ | mushrooms, strawberries, $\begin{gathered}\text { vigs. } \\ \text { squabs, chickens, bees and } \\ \text { The second describes in in detail }\end{gathered}$. The second describes in detail the

Women's French garden at Henwick
Newbury, England; while the third is given in full.
The Henwick garden, it appears, has
been the pioneer of a series of similar gardens throughout Southern England, promises to become somewhat the fashion.
It
is wholly managed and worked by women, but for the exception of a singl workman, and has reached such a state
of proficiency that during the whole year there is now no gap in the constant sal of large quantities of produce raised upon t. For further detail wo quote from ."A record of the whole been yet made out, but here are some of been yet made out, but here are some of
the results of the first six months. These
were then sold off an acre : were then sold off an acre:
17,000 lettuce, 1,707 bunches of rad 17,000 lettuce, 1,707 bunches of rad
ishes, 500 caulifowers, 1,200 melons (in
spite of some loss), 1,600 bunches turnips.
"To these must be added a very large "To these must be added a very large
amount of tomatoes-fifty pounds a day were sent off over a considerable periodof carrots, one of the principal crops, of
endive-chicory, and celery. The last, of endivechicory, and celery. The last, of
which specimiens were shown at Olympia which specimens were shown at iympia
was perhaps the most wonderful. It wa was perhaps the most winderfuo earth a
grown without any piling up of
all. Instead, the plants were planted all. Instead, the plants were planted
very close together, and in the "golden very close together, and in the "golden
soil" grew to over four feet in height.
thus effectually blanching one another. thus effectually blanching one another.
"The results in this pioneer garden hav been so successflul that the area has been
doubled in size, and more than doubled in equipment. It now contains 3,000 in equipment. liochas and 900 lights. The scene we
cos
singularly attractive when visited yeste singularly attractive when visited yester
day. A six-ft. fence, entirely built by day. A six-ft. fence, entirely built by
ladies, surrounds the garden, and agains
it on the inside are espalier fruit trees Immediately inside, a broad bed all round is reserved for the "outside garden. In
side this again, beginning from the to
where the "Frenchman's" snug house planted, are the lines of frames filled every inch with lettuce and carrot and
cauliflower in a happy family. Alongside cauliflower in a happy family. Alongside
these there are the cloches, each with four lettuces, and again the carrot seedlings.
"Below are the long, pointed ridges of heaped soil, already black. Between these
and the frames was and the frames was one frame-width
manure-two-thirds new, one-third old over which some of the lady student.
were beginning to spread the six inche of lack-or golden-soil from the near
end of the piled ridges. Below the ridges again other students were prepar ing the ground for future melon frames
and several others were busy making frames in a shed within the garden. ing the year was f 120 on manure, which is here expensive, but the gardeners look
forward cheerfully to spending $£ 240$ this ${ }^{\text {year. }}$ "The whole capital outlay when the two acres are
(wo deep wells, oil engines, fencing, t house for the "F'renchman," his wife and
five children, as well as all garden para phernalia, will amount to rather less tha
$\{1,000$. Agrichleth ke For womben. The question of "Woman's 1 .ot on ,
Farm" leads us to another import:" subject, wir. Arriculture for women.
Now, with the exception of a few is. lated instances, general or of and farm-
intr. or specialized farming in the usual acceptation of the term, such at explusice grain or stock-raising, has not bern found
suitable or profitable when undertahen tion
 nature of the work will entail a certain
amount of isolation and lack of social intercourse; also, perhaps, that it is be-
neath the dignity of a fairly well neath the dignity of a fairly well educat-
ed woman to do outdoor work. Let us. for a moment, consider these two objections. The former is easily surmounted
by the system of co-operation which has



General View of the "French" Garden and Vegetable Farm, Henwick Near Newbury, Eng.
cases, not only in providing a comfort- districts of Fastern Canada, especially it
able and happy existence, but also in a Ontario. able and happy existence, but also in a pecuniary sense. As regards the work be-
ing derogatory, surely this is a notion of "fgalse - pride." Many women of culture that for many wome who are of highly and refinement, including Queen Alexan- strung and sensitive natures, but whi dra, take a pleasure and pride in person- nevertheless, have to make their own liv
ally superintending their dairies and gar- ing, the outloor life would in avery dens and orchards, and this, not simply be better than the drudgery and confine as a hobby or pastime, but often as a ment of the factory, work-room or store
atcheson IRWIN. profitable pursuit.
The Gold Medal of the Royal Horticulural Society, England, has often been
gained by educated women, and two of
Faipy Land
hem have lately joined forces and taken


Preparing Soil in the Forcing Frames, French Garden, Henwick.

The Ingle Nook
(Rules for correspondents in this and other Departments: (1) Kindly write on one side of paper only. (2) Always send name and address with communications. If pen-name is also given, the real
name will not be published. name whato a letter to be forwarded When anyone, place it in stamped envelope ready to be sent on. 1

A Budget of Questions.
IVear Dame Durden,-1I have been helped a great deal from, letters to and from
the Chatterers, and I feel I would like to the chaterers, and I feel I would like to
help someone. Someone asked for lemon help someore
biscuits; mine are excellent.
Lemon Biscuits.-Two cups sugar, 1 cup
lard, 2 eggs, 5 cts. oil of lemon. 5 cho lard, 2 eggs, 5 cts. oil of lemon, 5 cts.
ammonia, 1 cup milk, flour to stiffen: knead 20 minutes.
Lemon Pie.-Two eggs, whites for frosting; 3 tablespoons cold water, 1 lemon,
rind and juice; 1 cup boiling water, 1 cup rind and juice; $\left.\quad 1 \begin{array}{l}\text { cup boiling water, } \\ \text { white sugar, } \\ 3\end{array}\right)$ even tablespoons cornstarch. Grate and squeeze the lemon, add
the rind to the juice, beat the eggs and the rind to the juice, beat the eggs and
pour the juice on eggs. stirring well. granite pan, mix thoroughly, stir in boill ing water, add sugar, and cook until quite clear. Stir the egg mixture into
cornstarch; put into baked crust. Beat whites stiff for top, and brown in oven. Packed Eggs.-The best way is to get
a large box, cover bottom well with salt. a large box, cover bottom well with salt,
then put in eggs small end down, and so on, until the box is full, leaving room lid on, and you will have a supply of
good egge until June. good eggs until June.
I have some questions to ask, but if it 1. Are the "Lazy Wife's pole beans' for a pickle, or to be cooked like freebly
picked beans? Do you put salt in water to keep beans?
2. Would like to hear something about bread-mixer; also more about fixing over
the old home, to be handy and save 3. Would like to get a good book that Nould explain to my children about life
through flowers 4. Would like a good recipe for short5. Would like 15. Does anyone know how to make panCakes, with bread soaked in buttermilk, $\therefore$ Does dipping butter-print into but Cermilk hurt the butter?
8. 1) any af the busy mothers use Have good recipe for dandellon wine. 1 missed recipe for scalloped potato Many thanks for omelet recipe from Many thanks for omelet recipe from
erry and l'olly, and others. With many thanks to "Hope" for help
and encouragement received through the letters through the Ingle Nook.
AUNTIE. P. S.-Can paint be removed from brick wall that has been on for years; outs
wall ? Ans.-1. Will the member who wrew
"Lazy Wife's pole beans" kindly answer
this question? 2. At the Women's Institute Convention at Guelph last fall the question was
asked as to how many present used the
bread-mixer bread-aixer. A great many held up their
hands, and all but two or three expresesed elves as well pleased with the ma-
Miss Van Renssalaer, of Cornell sity, who was the speaker for the
aid she thought the reason the latWe, said she thought the reason the latnot using the mixer properly. In her
work in New York state, she had talked
with with many who used it, but had failed解 find one who, on learning to use it Wroperly, would go back to the old way.
The bread-mixer costs about $\$ 3$, and
hhould The bread-mixer costs about $\$ 3$, and
should mix the dough in from three to
lii.n mimutes N... minutes... In regard to the quesin about fixing over the old home, if
in will send us a plan of the house as in will send us a plan of the house as
is at present, we will see what we can "= 4 ancoven

an be had on application 1bout 50 or 60 cents.

4. Shortbread. -Take
 cut into shapes. Place on a outtered and
 Ni.tit in inch suates. and cover with cold
 an pire rich milk, and salt to taster






 ilk; when hot stir in 1 teaspon corn







 pings and serve on a hot platter. Use
white of cgg for a meringue for pie or white of cgg for a meringae
pudding.
5. Pancakes. -1 qt. milk. Add crumbs
 antermike is used, and a thete sood.




 and scalded, with sath, then dip into colt ${ }^{8}{ }^{8}$. Will the members liaseas answer)


 mix ure about the constatence of pain
iny rhe above over the whole ot thi
 lon te remain 14 or 10 hours then eraph wobablv, ondidpapering will tinish the the

## Pickled Rhubarb

My call must be a short one this uime,
nut as the season for rhubarb, or pio Whant, will soon be here, 1 should like to
yend a rocipe for pickled rhubarb, which *e think very fine. The proportions are
us tullows. 6 culs rhubarb, cut fine; ${ }_{3}$ cups vinegar, 3 cups brown sugar, cinna-
chen mon to suit taste. Put all on stove and
cook about 15 or 20 minutes; then bottle. cook about 15 or 20 minutes; then bottle,
or put in small sealers.
ond Iear Dame, I should like to come
 (Rain some time it 1 may, and wil
this as asell County, ont. CHIERRILY ().
$\qquad$
$\qquad$
Letter from "June Eve.
ar Dame Durden and Chaterers
anin at last at the pen and ink, tryin
andyears old, and my boy is six, and you "The Farmer's Advocate"). They also"The Farmer's Advocate"). They also
sell stencils ready for use, so you mayI forgot to say that the stencillingI forgot to say that the stencilling
should be done on both sides of the ma-side. Simply turn the material over,
siasten townfasten down over blotting maperial over and ap-
Sponge Candy
ew weeks ago someone asked for
for sponge candy. We have sing procured a recipe as follows: Boil to- gether 2 large cups light brown sugar
and a cupful of water until a little
Here is my recipe
which are extraand a cupful of water until a little
dropped into cold water can be moulded.dropped into cold water can be moulded
with the fingers. It should be less brit-the than for taffy, but not quite as soft
Have the white of an egy

$$
\begin{aligned}
& \text { beaten to a stiff froth, and pour the ho } \\
& \text { srup slowly into this, beating all the }
\end{aligned}
$$

$$
\begin{aligned}
& \text { syrup slowly into this, beating all the } \\
& \text { time as rapidy as possible. While doing }
\end{aligned}
$$

$$
\begin{aligned}
& \text { time as rapidy as possible. While doing } \\
& \text { this, add vanilla faver to to taste }
\end{aligned}
$$

$$
\begin{aligned}
& \text { this, add vanilla flavoring to taste. } \\
& \text { When beaten very light, drop the candy } \\
& \text { from the tip of the spoon in small heaps }
\end{aligned}
$$

$$
\begin{aligned}
& \text { from the tip of } \\
& \text { on waxed paper. }
\end{aligned}
$$

## Our Serap Bag.

$\qquad$
13efore hemming now napkins or table
cloths, it saves much time and trouble turn the hems by means of the machine Adjust the hemmer and run along with-
out needle or thread, thus creasing the


Dispatching to Market.

```
Miss Peery and Mise Hughes-Jones, the two Princi,
```

all right? Also, in stencilling on cheesespreading in the goods, and where could
I get patterns? get patterns?
How many of the Noohers have chickens funning and scratching in the orchard? (This was written April 9th.) I have
some nearly three weeks old, and they are some nearly three weeks old, and they are
not happy unless running out, and they are doing well, too
Draw the stencil pattern on pasteboard Draw the stencll patcern on pasteboard a clear, firm edge. Place pads of blot-
ting paper on the board upon which the ing paper on the board upon which the
material for stencilling is to be laid, place the muterial over, then put the
stencil in place and fasten down firmly with thumb tacks. Have your coloring matter ready-it may either be tube paint,
dissolved in gasoline, turpentine, or naphdssoved ordinary dye. made with hot
tha, or ordine
water and strained-and
$\qquad$
$\qquad$
$\qquad$
$\qquad$ little coloring matter as possible to pre vent danger of running. When done, re
move the stencil. clean it thoroughly, and place in the next position. repeating unt
the work is done some varnish th he work is done come varnish th
$\qquad$
$\qquad$
$\qquad$
$\qquad$
he glove on the hand until dry, if pos
sible.
The following method or The following method of eradicating
bedbugs has been recommended. Early bedbugs has been recommended. Early give both bedsteads and slats a good oat of hot varnish, thinned with turpenover every crevice with gasoline or coal over every crevice while using the gasoline be
oil. Whate mate
sure to keep the windows open, and have sure to keep the windows open, and have
no fire or light of any kind in the room. Repeat the treatment when necessary Repeat the treatment when necessary.
Before putting furs wway for the summer. hang them out of doors in the mright sunshine for a while, and beat
them lightly, to make sure that no mothe them lightly, to make sure that no moths
are present, then put them away in a moth bag, or in a thick flour bag, tied

## Current Events.

The contract for the new public school readers in Ontario has been

A bill to stiffen the law with re spect to the carrying of offensive weapons, and traffic or holding of indecent literature or post cards, is to be introduced into the Dominion Par ament.

The Sultan of Turkey's fear of the growing power of the Young Turks increases, although he asserts tha he is in no way responsible for the Mohammedan uprising. He has of fered to give up his power, and to
place the government in the hands of the reform element, but it is doubt ful if his offers can now avail him much. His entire fleet, including his private yacht, has gone over to the
Macedonians, and the order for his deposition has been signed. In the meantime, too little has been done to check the work of the furious Moof face in the more backward region of the kingdom. It is estimated that, since the beginning of the men and children have fallen at thei

## Under the Greenwood

 Tree.nder the greenwood tree
Who loves to lie with me
Who lurn his merry note
Unto hither, come hither, come hithier
Here shall we see
No enemy
Who doth ambition shun
And loves to live is the sun,
Seeking the food he eats
And pleas'd, with what he gete-
Here shall he see
But winter and rough weather.

Athol Forbes tells a good story about The late Archbishop of Canterbury, Dr.
Temple, in the current issue of the Temple, in the current issue of the
'Young Woman." fficiated at a society wedding, and promised to propose the health of the bride they were seated, Dr. Temple rose : they were seated, Dr. Temple rose:
"Ladies and gentlemen,", he began, ."
must claim your indulgence for proposing
this toast now instead of later, but as
this toast now instead of later, but as
you know, I am an old man, and one of you know, I am an old man, and one of
my legs has been giving me trouble lately and cause for grave anxiety. You will excuse me leaving you when I tell you I
have been pinching my knee for the laet have been pinching my knee for the last
five minutes, and cannot find any sensation there at all-"" "Pardon me," interrupted the puches "Pardon me," interrupted the Duchess
of . who sat at his right, "but it was my knee that you were pinching." was my knee that you were pinching."
For once in his ilfe the Archbishop
looked confused, and sat down without
$\qquad$


The light bread or the leaden loaf is a matter of choice-not luck. Choice of method - choice of yeast-but, above all, the choice of the four.

## Royal Household Flour

is made from the finest, selected Manitoba wheat, which contains more gluten (that quality which makes bread light) than any other wheat.

It is milled under the most sanitary conditions,-there is no other flour in Canada upon which so much is spent to insure its perfect quality

Ask your grocer for Ogilvie's Royal Household-the flour that makes light bread and perfect pastry.
Cullvie Flour Mills Co., Limited, Montreal.


For Farmers' Use Only—Jones Patent Hay and Grain Elevator


 nice shape. The sling load don't have to tall llill the way rom the track
the berr, down to the mom,



Eud importunt improvements, all of which are explained in
our
orRE calalogue

matean trongest elevial
is the sto
grin in hhrec iftes


TRUE ECONOMY IN Organ Buying

|  | Shenlock- <br> Manning |
| :---: | :---: |
| ence until the lower-priced organ has been in use a few years, when the | ORG A N |
| mechanis, ${ }^{\text {mel }}$, commence to deteriorate in quality |  |
| and power. | that will give "lasting" satisfaction. |
| herlock-Manning | n Co., London, Ont |

 crepe meteore combined with heary ap-
plique and simple embroidered net, the girrole and the narrow bands being of
messaline, but pongee and fonlard would
 be prety so made,
continue all their vogue and cashmere and
henrietta a cloth are among the best-1iked contiues all heth are among the best-iked
henrite a
materials for the simpler gowns of indoor
 wear. For the litle gathered frill, or
tuaker, as our English triend call it and
the long sievees, any proty thin materinl is the long sleeves, any protty thin material is
appropriate net, lace, chifino. or any approp the sort. For the girde an
thing of the
the bands, the same material or one


## The princesse dress that is not over-

 severe in its lines is one of the most beecoming that a young girl can wear. This one is novel, and in the height of style,
and sumiss almost an infinite number of
oceasions

 material, and utilized for graduation; I1
can be made from any prety muslin and
beocome a dainty summer trock. It an an be made from such simple silks as messa-
line, crepe de chine and India silk, and
lind used for dancing, and orcasions of th
sort. and its kuimpe portions are apprt priate for the tuked net inlustrated. for
fancy net, for chiron, for all-over lace.
fal


 Farmer's Advocate," London, Ont

domestic. When, to her embarrasment.
she fiscovered that the servants name
$\qquad$
$\qquad$
$\qquad$
lady of the house, "t there is nothing to"ay. what is in? ? liste mame. by th

## The Golden Dog

## (Le Chien D'Or.

A Canadlan Historical Romance. Copyright, 1897, by L. C. Page \& Co. (Inc.) [Serial Ritehta Seaured by the Wm. Weld Co., Ltd..,

## (HAPTER

The Charming Josephine The few words of sympathy drop-
ped by bigot in the secret chamber had fallen like manna on the famine of Caroline's starving affections as
she remained on the sofa where she remained on the sofa, where she
had half fallen, pressing her bosom
with her hands, as if a new-born with her hands, as iif a new-born
thought lay there. I I am sure
 were true, and for the moment his
look and tone were those of my happy maiden days in Acadia !
was too proud then of my fancied "as too proud then of my fancied
power, and thought ligot's love deserved the surrender of my very con
science to his keeping. I forgot God in my love for him; and alas for
me! ' that now is part of my ishment ! 1 feel not the sin of lovcere when My penitence is not sinsmile ! Woe is me! Bigot ! Right unworthy as thou art, I cannot forat that feet, only spurn me not away, nor give to another the love
that belongs to me, and for which 1 have paid the price of my immortal She relapsed into a train of bitter
reflections as her thoughts reverted to herself. ${ }^{\text {as }}$ Silence had been gradually creeping through the house. The noisy debauch was at an end. There were trampings, voices, and
footfalls for a while longer, and then they died away. Everything was
till and silent as the grave. She still and silent as the grave. She
knew the feast was over and the guests departed; but not whether got had accompanied them.
She sprang up as a low knock came
to her door, thinking it was he, come to bid her adieu. It was with a feeling of disappointment she heard
the voice of Dame Tremblay saying, "My Lady, may I enter?"' throug her disordered hair, pressed her handkerchief into her eyes, and hastily
tfied to obliterate every trace of her recent agony. She bade her Dame Tremblay, shrewd as became the whilom Charming Josephine of
Lake Beauport, had a kind heart, nevertheless, under her old-fashioned young creature who was passing her days in prayer and her nights in
weeping, although she might rather blame her in secret for not appreciating better the honor of a residence
at a I do not think she is prettier
han $I$, when $I$ was the Charming than I, when was the Charming
Iosephine ! thought the old dame.
I did not despise Beaumanoir in hose days, and why should she
now ? liut she will be neither maid nor mistress here long, I am think-
ing !'" The dame saluted the young lady with great deference, and quiet.. Oh! it is you, good dame!' Caroline answered her own thoughts,
rather than the question-. tell me
wh "hat makes this unusual silence in
the Chateun? have gone to the city, my Lady; a
greet officer of the Governor's came
to summon them to summon them. To be sure, not
many of them were fit to go, hut,
after a deal of hathing and dressing. the entlemen got off. Such a clat-


"crompanied them ?"
foremon my Iady ? freshest and
foremot my Iady t the freshest and
conalier of them all Wine
and lat hours never hurt the In-

APRIL 29, 1909
him, for he is a gallant gentleman
who knows what politeness is women.'
Caroline shrank a little the tame
thought thought expressed by the dame
. What cuuses you to say that?" asked she. "I will tell, my Lady! ' Dame
Tremblay!" said he, just before he Tremblay shateau. © Dame Tremblay,
left the Chateau. -he always calls me that when he is
formal, but sometimes when he is iormal, but sometimes when he is
inerry he calls me Charming Jose merry, he calemembrance of my young
phine, in reme
days, concerning which he has heard phays, concerning which he ha
daattering stories, I dare say-
" In
dame!., heaven's name! go on,
Caroline, depressed as she was, felt the daree's garrulity like a pinch on her impatience. "What said the Intendant leaving the "Oh, he spoke to me of you quite
feelingly- that is, bade me take the utmost care of the poor lady in the secret cham you wished, and keep of
everything you all visitors, if such were your own
desire '. desire." A train of powder does not catch fire from a spark more quickly than
Caroline's imagination from these few words of the old housekeeper.
"Did he say" that, good dame? God bless you, and eyes filled with tears
words! ", Her ey at the thought oi his tenderness, which, although half fictitious,
wholly believed.; "Yes, dame, continued she.
is my most earnest desire to be
cluded from all visitors. I wish to cluded from all visitors. I wish to many visitors-ladies, I mean-at the Chateau?"
"Oh, yes ! the ladies of the city are not likely to bachelor Intendant of New France It is the most fashionable thing in the city, and every lady is wild to
attend them. There is one, the handsomest and gayest of them all who, they say, would not object even
to become the bride of the Intendto become the bride of the Intend-
ant."
It was a careless shaft of the old dame's, but it went to the heart o Caroline. "" Who is she, good dame?
-pray tell me!" - pray tell me !"", I should fear, her anger, if she knew what I say ! She is the most terrible coquette in the city-worshipped by the men, and
hated, of course, by the women, who hated, of course, by the women, who
all imitate her in dress and style as much as they possibly can, because
they see it takes! But every woman fears for either husband o
lover when Angelique des Meloises i her rival."
" Is that " Is that her name? I never heard it before, dame!" remarked Caro
line, with a shudder. She felt in stinctively that the name was one of direful omen to herself.
". Pray God you may never have
, Pray God you may never replied
reason to hear it agan,"
Dame Tremblay. "She it was who went to the mansion of Sieur Tourangeau, and with her riding-whip on the forehead of his daughter, Cecile, scarring her forever, because she
had presumed to smile kindly upon a young oficer Gardentigny-whom an Nomann might be pardoned for admir-
ing !". added the old dame, with a natural touch of the candor of her
youth. If Angelique takes a fancy
to the Intendant, it will be dangerous for any ,., ther woman to stand
in her way Caroline gave a frightened look at
the dame's description of a possible rival in the Intendant's love. "You
know more of her, dame Tell me all Tell me the worst pirl. One Meloises-at least. would not
des Mow Mothing
dare to-although I know not bad of her, except that she would and so spite all the women !"' "13ut she must regard that youns officer with more than common affec
tion to have acted so savagely t
Mallomoisolle Touranceau?" Car Madrmiselle Tourangeau ?" Caro

Caught at that
the darkness
"OOh, yes, my Lady ! All Guebec Seigneur de Repentigny, for nothing is a secret in Quebec if more than
one person knows it, as I myself well recollect ; for when I was the Charming Josephine, my very whispers were
all over the city by the next all over the city by the next dinner hour, and repeated at every table,
as gentlemen cracked their almonds and drank their wine in toasts to the Charming Josephine." " Pshaw! dame! Tell me about
the Seigneur de Repentigny!
Does the Seigneur de Repentigny ! Does
Angelique des Meloises love him Angelique des Meloises love him
think you?" Caroline's eyes wer fixed like stars upon the dame, a wait ing her reply: "It takes women to read women,
they say," replied the dame," and
every lady in (2uebec would swear every lady in (2uebec would swear
that Angelique loves the Seigneur de Repentigny; but I know that, if she
can, she will marry the Intendant, whom she has fairly bewitched with her wit and beauty, and you know a clever woman can marry any man
she pleases, if she only goes the right she pleases, it she only goes the right Caroline grew faint. Cold drops gathered on her, brow. A veil of
mist floated before her eyes. "Water ! good dame! water !', she articuDame Tremblay ran and got her a
drink of water, and such restoratives drink of water, and such restoratives
as were at hand. The dame was as were at hand. The dame was
profuse in words of sympathy. She had gone through life with a light,
lively spirit, as became the Charming lively spirit, as became the Charming
Josephine, but never lost the kindly heart that was natural to her. Caroline rallied from her faintness " Have you seen what you tell me dame, or is it but the idle gossip
the city, no truth in it? Oh, it is the idle gossip of the city Francois Bigot is not going to marry
this lady? He is not so faithless this lady? He is not so faithless
-to me, she was about to add; but aid not. " So faithless to her, she means,
poor soul!" soliloquized the dame poor soul!" soliloquized the dame
"It is but litlle jou know my gay master if you think he values a promise made to any woman, except Lo deceive her ! I have seen too
many birds of that feather not to know a hawk, from beak to claw. When I was the Charming Josephine I took the measure of men's profest
sions, and never was deceived but once. Men's promises are big as clouds, and as empty and as un"My good dame, I am sure you have a kind heart," said Caroline, in reply to a sympathizing pressure on,
the hand. "But you do not know, you cannot imagine what injustice
you do the Intendant., -Caroline ou do the Inshed-"' by mentioning the report of his marriage with him-", Men speak untrut the women say that frightens one! The it ; but the women are jealous, and will believe it, even if there be noth ing in it! As a faithful servant ought to have no eyes to watch m master, that the Chevalier 13igot is faught, man-fashion, if in the husband
fashios of the artful Angelique 13ut may I speak my
real opinion to you, my Lady ?" Caroline was eagerly watching the lips of the garrulous dame. She
started, brushed back with a stroke of her hand the thick hair that had your thoughts, good dame : If your them :". words will not harm you, my lady." saill she with
 was Charming Josephine : You must valier Intendant admires, or eve poing to marry her. That is not th
fashion of these times. Men lov beauty, and marry money: love i

## DIAMOND DYES

## Make Your Faded Summer Dresses Like New

I want the girls, and their mothers, too, for that matter, to know what it is possible to do with last summer's dresses that have become faded and lost their pretty freshness.

I had such a lovely pale blue lingeree Princess muslin, that I kept for dress occasions until the last of the summer, when it began to fade, and then between the washings and the sun it lost all its beauty.

This season I dyed it blue again with Diamond Dyes for cotton, and it's every bit as pretty as it was when I bought it. I have since gone over my last summer's clothes and renewed the color of any dress or waist that was at all faded or stained, and the result is that I shall not need a single new dress this summer

Mrs. Florence Faulknor,

"The Cost is Trifling to Dress My Children."
"We find your Diamond Dyes are wonderful helps to us in dressing economically and neatly

Last year, as far as dresses for myself and two little girls are concerned, the cost was trifing-some sixty or seventy cents for trimmings, while we saved many dollars in dress materials.

We find it very easy to change the color of an old and faded dress with one of the fashionable colors of the Diamond Dyes, that we really enjoy the work. My husband will drive miles for the Diamond Dyes rather than buy any of the poor dyes sold by some storekeepers.'

Mrs. T. Chas. Gardener, Lake Ainslie, N. S.

## DIAMOND DYES

are all-the-year-round Dyes. They renew all that is dingy and faded in your household furnishings, as well as your wardrobe.

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 Dyes and the kind of

Beware of imitations of Diamond Dyes. Imitators who make only one kind of dyy, claim that their imitations will color Wool, Silk or Cotton ("all tabrics")
equally well. This claim is false, because no dye that will give the finest results on equaly well. This claim is false, because no dye that will give the finest resuds on
Woot, Silt, or other animal fibres, can be used successfully for dyeing Cotton, Linen, or other vicretable fibres. For this reason we make two kinds of Diamond Dyes, or other verefable fibres. For this reason we make two kinds
namely : Diamond Dyes for Wool, and Diamond Dyes for Cotton.
Diamond Dyes for Wool cannot be used for coloring Cotton, Linen, or other
Mixed Goods, but are especially adapted for Wool, Silk, or 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.
either Cotton, Line, other vegetable fibres. For this reason our Diamond

Diamond Dye Annual-Free. $\begin{gathered}\text { Send un your name and address (be sure to to }\end{gathered}$ of the Direction Book, and samples of dyed cloth, al ree. Adas

THE FARMER'S ADVOCATE


## Baby's Own Soap

 kind"Baby's Own" is made of specially purified and refined vegetable oils. It will not hurt the most delicate skin. roog
"Best for Baby-best for Yow."
$\qquad$
SPECIAL \$3. ${ }^{48}$


This beautiful LINGERIE WAIST, made cannot be duplicated elsewhere under $\$ 5$ The front is trimmed with three rows of
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Farm for Sale



 Lake Beauport, as I learned to my
cost when I was the Charming Jose phine!" Caroline blushed crimson at the
 quivered with emotion. .. It is a
sin to cheapen love like that, dame ! sin to cheapen love like that, dame!
And yet I know we have sometimes
to bury our love in our heart, with
no hope of rovirrection, no hope of resurrection."
". Sometimes ? Almost always, m Lady! When I was the Charming
Josephine-nay, listen, Lady my my
story is instructive." Caroline com-Josephine-nay, listen, Lady; my
story is instructive," Caroline com-
posed herself to hear the dame's reJosephine of Lake Beauport, I began
by believing that men were angels by believing that men were angels
sent for the Salvation of us women. thought that love was a better
passport than money to lead to matrimony ; but I was a fool for my fancy! I had a good score of lov-
ers any day. The gallants praised ers any day. The gallants praised
my beauty, and it was the envy of
the city; they flattered me for my my beauty, and it was the envy of
the city; they flattered me for my
wit-nay, even fought duels for my wit-nay, even fought duels for my
favor, and called me the Charming marry me ! At twenty I ran away
for love, and was forsaken. At thirty I married for money, and was rid of
all my illusions. At forty I came
as housekeeper to Beauman as housekeeper to Beaumanoir, and
have lived here comfortably ever
since I know what royal intendants
are! Old Hent hear,
happy
". Hea "Heaven forbid that you should
die at all, my Lady! You die? The Intendant loves you. 1 see it in his face that he will never marry Ange-
lique des Meloises. He may indeed lique des Meloises. He may indeed
marry a great marchioness, with her marry a great marchioness, with her
lap full of gold and chateaux-that
is if the King is, if the King commands him; that
is how the grand gentlemen of the
Court marry They wed rank, and Court marry. They wed rank, and
love beauty-the heart to one, the
hand to another. It would be my way, too, were I a man, and women so simple, as we all are. If a girl
cannot marry for love, she will marry cannot marry for love, she will marry
for money, and if not for money,
she can alwavs marry for spiteshe can always marry for spite - I
did, when it was the Charming did, wher
Josephine " It is a shocking and sinful way,
to marry without love!" said Caro " It is better than no way at all !" replied the dame, regretting her re mark when she saw her lady's face
flush like crimson. The dame's opin-
ions were rather ions were rather the worse for wear
in her long journey through life, in her long journey through life,
and would not be adopted by a jury
of and would not be adopted by a jury
of prudes. "When I was the Charm-
ing Josephine," continued she, "I ing Josephine," continued she, "I
had the love of half the gallants of had the love of half the gallants of
Quebec, but not one offred his hand. What was I to do ? 'Crook a finger, or love and linger,' as they say in
Alencon, where I was born ?" Alencon, where I was born?"
"Fie, dame!
things!", said $\begin{aligned} & \text { Uon't say such } \\ & \text { Caroline, with a }\end{aligned}$ things!" said Caroline, with
shamed, reproving look. I I would
think better of think better of the Intendant." Her
gratituuie led her to imagine excuses for him. The few words reported to for him. The few words reported to
her by Dame Tremblay she repeated
with silently-moving lips and tender her by Dame Tremblay she repeated
with silently-moving lips and tender
reiteration. They lingered in her reiteration. They lingered in her
ear like the fugue of a strain of ear like the fugue or a strain of
music, sung by a choir of angelic
spirits.
./ Those were his very spirits.
words, dame Those were his ved she again, re
peating them - not for inquiry, but f


Why should the Royal Intendant not
have his heart's have his heart's desire, as well as
that great lads in France? If any one had forbidden my marrying the
poor Sieur Tremblay, for whom I did not care two pins, I would have
had him for spite-yes, if I had had to marry him as the crows do, on a tree-top!"' $\quad$ But no bade you or forbade you, dame! You were happy that
no one came between you and your heart's desire !'" replied Caroline. Dame Tremblay laughed out merrily
at the idea. " Noor Giles Tremblay my heart's desire! Listen, Lady, could no more get that than you
could. When I was the Charming could. When I was the Charming
Josephine, there was but one, out of Josephine, there was but one, out for, and he, poor fellow, had a wife alpeady : So what was I to do ?
threw my line at last in utter de threw my line at last in utter de
spair, and out of the troubled sea drew the Sieur Tremblay, whom married, and soon put cosily under ground, with a heavy tombstone on
top of him to keep him down, with this inscription, whieh you may see this inscription, whieh you may se
for vourself. my Lady, if you will,
in the churchyard where he lies :

```
                        Ah! qu'il est bien,
```

                        Pour son repos,
    Men are like my Angora tabby stroke them smoothly and they will stroke them the wrong way, but whirr! they scratch your hands and
out of the window they fly ! When I was the Charming - Ohy fon for the comfort you have given me ! ! interrupted Caroline, not caring for
a fresh reminiscence of the Chat
"He did. my Lady: he looked. Josephine. "I Leave me, I pray. My
just then, as a man looks upon a wo. nind is in a sad tumult I would
man whom he really loves. Iknow how faill rest. I have much to fear. but
mon look when they really love us, fommething also to hop, for now.."
$\qquad$
 5maphiseman


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the sun fifled the western horizon.
She raised her pale hands to her She raised her pale hands to her
head, lifting the mass of dark hair from her temples. The fevered blood, madly coursing, pulsed in ber ear like the stroke of a belt. like this on the shores of the Bay of Minas, where the thrush and oriole twittered their even-song before seeking their
nests; where the foliage of the trees nests; where the foliage of the trees
was all ablaze with golden fire, and a shimmering path of sunlight lay upon the still waters, like a glorious tridge leading from themselves to the hright beyond. On that well-remembered night her heart had yielded to Bigot's pleadings. She had leaned her head upand gave the pledge that bound her to him forever.
The sun kept sinking-the forests The sun kept sinking-the forests
on the mountain-tops burst into a on the mountain-tops burst into a
bonfire of glory. Shadows went creeping up the hillsides, until the highest crest alone flamed out as a beacon of hope to her troubled soul.
Suddenly, like a voice from the spirit-world, the faint chime of the bells of Charlebourg floated on the evening breeze. It was the Angelus, their daily labor. Sweetly the soft reverberation flated through the for-
ests, up the hillsides, by plain and ests, up the hillsices, Chateau and cottage summoning rich and poor, alike to their inded men of the redemption of the world by the divine miracle of the incarnation announced by (iabriel, the angel of
God to ear of Mary, blessed among women.
The soft bells rang on. Men blessed The soft bells rang on. Men blessed
them, and ceased from their toils in
Mothers knelt by lefd and forest. Mothers knelt by
the cradle. and uttered the sacred words with emotions such as only
mothers feel. Children knelt by their mothers feel. Children knelt by their
nothers. and learned the story of mothers, and learned the story of
Cond's pity in appearing upon earth
in a little child to save mankiad




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QUESTIONS AND ANSWERS Miscellaneous.


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qUEStIons and answers Miscellaneous.

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lormation (and color in latter) goos to make what is at present considered an deal Yorkshire and Berkshire hog. Have
you any book on this subject? It so, you any book on
pleases state price. Ans.-To meet the requirements of the
sport trade tor the English market,

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reeds have been greatly $i$ improved, the rrincipal characteristics being smoothness
 I ribs, and strength of loin, the back
eing slighty
arched, the
hind quard veing slightly arched, the hind quartiors
of good length, the hams and heart girth ill. without flabbiness, the bone clean and strong, and the pasterns upright.
$\Lambda$ s to color in Berkshires, the standard


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nd excellent descriptions of the twelva ogether with much other useful intorma agement. CHEESE-FACTORY REGULA WINDGALL.

1. Had a cow about due to calve; took
sick; laid down and could not get her up. Sent for vet. and he came and said she
had milk fever, and treated her for same


2. Horse has windgall on right hind leg. What will remove salne other that 3. Farmer A awns and operates
chesest factory at ily, having about fort, stock factory be errected, and is there an law passed,
relative to
Ans.-1. We bave neet kno A so-called milk iever before parturninin 4uch cases.
3. The
Theatment of windgalls often
then Lutits in inaliure, especially in cases oct
long standing, though curative propertie
 Warm or cold water apllications.
owed by banduging. in which case sol owed by bandu
pads are found
ectly upon the enlargements. Astrinsent or acid liniments are also 3. There is no law ooks of the Dominion of Canadu ion of one chesese tactury within any icular distance of another. There an act passed in the on by Hon. Jas.
hast session, introduced by
punf. for the provisions of which see page

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 hired men?I
I know men can tank a the public holidays, if so minded. should they collect pay for those days they did not work in working for eight months or one year, at so much per month?
Ontario.
.
Ans, When working by the year or
month, unless otherwise specifed, a man is entited to take all or any on the
recognized public holidays which tall withi in his time. including Sundays, subjeet.
howerer, in each case to the doing however, in each case to the doing of
such chores as must of necessity be attended such chores and the emplocyse is entitled to
to daily, and the pay for his ume
INSPECTION FOR HACKNEY
REGISTRATION.
1 noticed, in a letter printed in "The
Farmer's Advocate," that the Canadian Hackney Society are making efforts to gen. Would you please give some in.
tion formation as to what the society would call suitable mares, such as standards of breeding to qualify, and qualifations re
subscribiter in quired in general. SUBSCRIBER
Ans. The society
does not bar any Ans. -The society does not bar any
breed or breeds, so long as the mares ary of a Hackney type, sound, and have good
contormation. contronation. Robinon, "The Bungalow,'
tary, H. M. Ren
Don Mills Road, Doncaster, Ont., giving Don Mills Road, Doncaster, Ont.", giving
as many particulars as possible, he will as many particurs ane heomitee appoint an inspector to look at your animals, and
will also send you application forms to
will and

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$\qquad$ A merican Hol stem Association from March 81st to mals, of which less than the usual pro-
portion werch heifers with frat and sec. ond calves, produced in seven consecutive days $63,477.6$ lbs. of milk, containing
da.227.11 los. of butter-fat; thus showing an average of 3.51 per cent. Tat. The

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eral years, will sever his connection with
that establishment this month, and will that establishment this month, and will
train a public stable at some good mile track this season. Among the good colt trotters Mr. Stinson has brought out and
raced while at Cruickston Farm is: Kentucky Todd, the son of Todd, that he gave a three-year-old record of 2.08:
Another is Katherine L., by Liberty Chimes, that he drove to a thre-year-old
record of $2.12 \%$. Still another, and perrecord of 2.12 . Still another, and per-
haps as good a colt as he ever trained.
is Oro Lambert, that he gave a two-year-old record of 2.17 t, and a that he
drove in 2.09 in a race as a threadrove in 2.09 in a race as a three-year-
old. He also gave Vanity Oro, a sister
to Oro Lambert, a record of $2.24 \ddagger$ as a two-year-old, and drove her a trial of
2.15t at hat age. The famous mare,
Sadie Mac, $2.06 \ddagger$, by Peter the Great. Sadie Mac, 2.06 f , by Peter the Great,
also took her record under Mr. Stinson's
driving, and he is still of the belief that driving, and he is still of the belief that
but for her untimely death, he would have driven har to e record of 2.02 or better.



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draw for those on the other side for
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here was on the roand, and analiable to he purpose by the directors.
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want. You take no chances in buying an Olds All rite to my nepers without any delay. Theydo the best engine you ca

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Give you the power you need at the price you can afford to pay for it DO NOT THINK DF bUYivg AN ENGINE WITHOUT INVESTIGATING AN OLDS.


## STANDARD WIRE FENCE

Look at it yourself. See how "The Tie That Binds" is driven farther Reing that it has a hook on the line wire that can't slip off. Being driven at an angle, it can't injure the running or upright wires. Study the wir
sample lock.

WILLOWDALE SHORTHORNS I have for sale some very fine young stock bulls and heifers ready to
breed. Descendants of Joy of Morning, Broad Scouch and other noted sires. Also Chester White Swine and mported Clydesdale Worses.
$\qquad$ WE ARE PRICING VERY REASONABLY 10 chorecyly beece vems Shorthorn Bulls Also one extra good imported bull, 22 month-old. We have always something good to offer in emales. Imported or home-bred. Write for what you want, or
come and see them. Bell phone at each farm. W. WETTIT \& SONS,
Farms close to Burlington Jct. Sta., G. T. R. FREEM.AN.
 Belmar Parc. John Douslas, Manager. PETER WHITE, Pembroke. Ont.
 Capable of taking charge of show and breeding herd. Apply, giving full particulars, to a. watt, salem, ont. elora station, g. T. r. and C. p. r.

Now E. EF mal orver rank wor, ont

## A \$5,000 DAN PATCH STALLION FREE

## This New Pioture of DAN PATCH I:55 in Six Brilliant Colors

 (2)


 H. J. Davis,

SHORTHORNS!
calves at foot by Good Morning,
imp. No bull to offer of breeding
SCOTV BROS., HIGHGATE, ONT.
Shorthorns and Shropshires

 H. L. STEAD, Witlon Grove, Ont.
London. G. T. R.. 6 miles. Westminster. P. M. R.

Glen Gow Shorthorns




Shorthorns, Cotswolds, Vine bulls fersshires.
 Chas. E. Bonnycaatile, Campbelliord, Ont. MAPLE HOME SHORTHORNS


A. D. SChmidt \& Sons, Elmira. Ont. Scotch Shorthorns
 Scotch Shorthorns


- MAILED FREE TE



 U- A S5,000 DAN PATCH STALLION FREE BI
 Hto en






Scotch Shorthorns| 7 Imported Scotch Shorthorn Bullis 7
QUESTIONS AND ANSWERS Miscellaneous

Symptoms of milk fever. What are the symptoms of milk fever
How does a cow act when she has mill How does a cow act when sho has muly
fever? Does it attack them suddenly,
G. W. F. Ans. See answ CURB ON COLT-CEMENT FOR stables. has a slight curb on his right hind leg. a heavy horse ?
2. (Can it be removed? stable two or three years ago ${ }^{I}$ would
now like to make some changes is the

 1. ned to set a piece into cement to nail
a floor tor the horses to stand on m ?
2. Curbs are very hard to remove
Repeated blistering is the standard treat ment. Some claim to have had good results from the use of one or other of th
advertised specifics for such ailments. 3. You can tear out the old floor
Where necessary, and by leaving rougb

 station hoors. Two inches or less, on a
solid bottom, is satistactory.
4. Cement noors in horse stables are 4. Cement hoors in horse stables are
popular. Some bury timbers to which popular. Some in thall can be nailed.
the planks in the
others have a sill along the front under others have a sill along the front under
the mangers, to which the stall fooring can be hooked or nailed. others again
lenve the contractor or framer to fit in the stall flooring securely. with the kich
ing posts as the main support. MANGELS AND SUGAR BEETSfla EED NEEDED-SOA
ING THE SEED. 1. What difference is there in the feod-
ing
qualities of mangels
and mangels? Will 1 get a larger yield per
acre by sowing the common mangels? acre by sowing the common mange fat
2. Aro they better sown on the fai
$\qquad$
$\qquad$
$\qquad$
 Ans. -1 . Shaw says "Owing to the
high sugar content of sugar beets (sugar
mankels) they are more highty hiangels) they are more highly rolished
than other field roots, and are also more hanan oher fored fot-rotuction but but they are
valuate to not more valualle for feeding young ani-
mals to promote growth, and are probatly less valuable for pronucing milk.".
The latter point may, perhaps, be open to question, ,ut considering the tact that
 are more profitable to grow tor young
stock and dairy catte; for hogs the sugar


 so

SHORTHORN BULLS Nathem H. SIMITH, EXETER, ONTARIO.


8,

YqUR DANGER BEGINS WHEN YOUR BACK ACHES.

Ef 5 the First and the Sure Sign of Kidney Disease.
Doan's Kidney Pills
 one wining sod not tho back Thay yet direoly of ith kitaon, iod
 tububly ymem:




Deni Eidary Pille aro 50 omont per bor

 $\operatorname{sog}^{\mathrm{P}}$
1ass-Maple Lodge Stock Farm- - 199
 and
Lexater fin
 Roststerea, storthoer rearlhas Eme
 brize stockk Will be sold, worth the money.
flames R. Wood, Prestom, Ontartin. "I canna leave ye thus, Nancy, a good
old Scotchman wailed. "Ye're too auld house. Gin I die. ye maun marry an-
ither man. whalll keep ve in comfort in ther man. W
ays, nay, Acould na' wed anither man. leaven ?" wad Andy pondered long over this, but sud-
denly his face brightened.




## HE TOOK A

 FRIENO'S ADVICEAnd Dodd's Kidney Pills soon Cured His Backache.

How Malcolm McKinnon Found Complete and Permanent Rellef From
His Kidney and Stomach Jroubles. Shunacadie, Cape Breton Co., N. S..
April 26.-(Special.)-Suffering with backache so much that he could not work. of this place, took a friend's advice and used Dodd's Kidney Pills. The result is
that he is back at work and his backthe is gone.
$\qquad$ "I was troubled with backache, due to
wet feet and hard work. It yot so
severe at last I was quite unable to do "It was through a friend's adrice Warted to use Dodd's Kidney Pills, and
I was soon aware that they were doing
Nast less pain in urinating.
Is
Ioodd's Kidney Pills had done ine 6. much good, 1 thought I would tr Wodd's lyspepsia Tablets, and I did so
"ilh marvellous effect. Two boxes set "ish Dodd's Kidney Pills to keep my Mose well and the hlood pure, any
$\qquad$

QUESTIONS AND AMSWERS Miscellaneous.

TRANSPLANTING EVER In the past, I have not been fortunate getting evergreen trees to live in
nool grounds. I have tried a number (imes, but very few of these trees have ructions in the matter? Maples have
E. W. W. Ans.-Much more care has to be exer-
ised in transplanting evergreens than deiduous trees, such as maples. A slight he sun or drying wind will often cause the death of the tree, whereas maples and
rees of that nature will stand consider able exposure of this kind. In either ected as much as poossible from sun or or
drying wind should be dug large, and good, mellow tom, and nothing but good in the bot
around the roots. round the roots. The earth should be tramped firm around the roots as soon
as they have been nicely covered, and
surface soil should be left loose and open to act as a mulch. It is a good plan to
place straw, or something of that kind, around the tree after it is planted, to act
as additional mulch and hold moisture
which which insures conditions most favorable
or rooting of the tree. alfalfa with timothy LIMING LAND.
$\qquad$
$\qquad$
$\qquad$
$\qquad$ Ans.-1. While some few farmers follo
his plan, and advance guod reasons for iong so, it is open to several objec-
ions. Alfalla does not usually yield
best until the third or fuurth year after wing, hence its maximum value is no
arived when grown in a short rotation In the second place, alfalfa should be cu
much sooner than timothy is ready, if it reatest feeding value is to be obtaine
Another objection is that the long, toug aproots of the alfalfa render the so
somewhat difficult to plow. To our wa of thinking, red clover is a more satis
factory seed to sow with timothy, al Though when the chief reliance is on the
legume and not on the grass, there legume and not on the grass, there
something to be said in favor of alfalt
nstead of clover, the main advantage
$\qquad$
$\qquad$

2. Lime should not be regarded as
substitute for manure. for. while it adds
one minor element of fertility (calcium) is main virtue is the neutralizing acidit which tend to liberate plant food already
in the soil. Manure, on the other hand aily the three important elements of fer phoric acid, and also the humus, or
vegetable matter, so necessary for a sat-
a sfactory rhysical condition of the 1and
Nevertheless, lime may often be applied
licher o advantage in moderate quantities, say
hirty to fifty bushels of air-slaked lime ver acre, it being especially beneficial thands an alkaline or sweet condition of
me soil, and plenty of calcium to build up into its tissues. Applied to a mea
low, the most noticeable effect would be low, the mast noticeable effect would
o stimulate a growth of clovers. these
responding to lime more kindly than the responding to lime more kindyy than the
grasses. Bradcast in spring. with a
shovel. or, better. with a manure spread
$\qquad$
$\qquad$

You Fertilize!
Fumigation is just as important as fertilization. As a rule, the more insects it contains.
APTERITE means bigger crops and absolute pro tection against Eelworms, Lice and other soil insect

## FREE BOOK

$\qquad$ Pests" sent free if you tell us Pestse you saw this advertise ment-how many fruit tree
you have and what crops you you ha
grow. ow. gists and dealera
generally or WI. COOPER \& NEPHEWS тоnonto. MUSKRAT ALL KINDS RAW FURS. GALFSKN. We pay all expreas and Freight charses. Write for our com- E. T. CARTER \& CO., We pay arexpre in cash.

## Shorthorn Cattle A. Edward Meyer, <br> and lincoln sheep. $\quad$ P. O. Box 378, Guelph, Ontario, <br>  man J. T. GIBSON, DENFIELD, ONT. Welve of the Cnoat noted Scotch tribubluse repre  J. T. GIBSON, DENFIELD, ONT.

PRINCE GLOSTER 40998
An Opportunity MAPLE SHADE FARM.

PRINCE GLOSTER 40arling bulls, and

 Jonn onyoen a son. meontio our GEO. AMOS \& SON, SHORTHORNS Moffat, Ontario. Nine bulls from 8 to 20 months old. reds and roans ;
toy yearlig heifer and fow cow. Will sell very
cheap to mate

 draf and two spring oolta.


LAKEVIEW HOLSTEINS We have for sale 4 young bulls seady for


HOMEWOOD HOLSTEINS For Sale: Only thrity bull calves from
4\% R. O. . . cows ; some will mater reat
herd headers and show animale. Write for herd headers and show animale Write for

prices and descrition. Station on the place. | M. LE. M. M. HALEY. Springford. Ont |
| :--- |
| The Maples Holstein Herd |

The Maples holstein Headed by Lord Wayne Mechthilde Calamity.
 at reasonable prices.
WALBURN RIVERS. Folden's Corners, on

MR. A. I. HICKMAN Court Lodge, Egerton, Kent, England,


 HOLSTEINS $\begin{gathered}\text { Two bull calves. two yearling } \\ \text { heifers, two two-yearold heiferie }\end{gathered}$



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in chance of cars going to Western Canada
on C. P. R.
Homeseokers' Excursions
Special Trains from Toronito Apill 20th and every second Tuesday until September 21st. Low Round-Trip Rates. Colonist and
Tourist Sleeping Carso


CAIRVIEW The greatesa A. R. O. herd





## Centre and Hill View Holsteins

$\qquad$
 P. D. EDE,

Oxford Centre P. O..Woodstock Sta ,Ont WOODBINE STOCK FARM R
 ce
breding and
Shipping sta

IMPERIAL HOLSTEINS!

 nam. Ont.. Oxtord County.
Glenwood Stock Farm $\underset{\substack{\text { Holstelns and } \\ \text { Yorkshir : }}}{\text { S }}$
 Cupe. Barlaw \& Son, Warhworth P.O. Unt.

Holsteins at Ridgedale Farm-Eight bull



 Maple Hill Holstein-Friesians Special Oifering:
frechened in Dere nber

QUESTIONS AND ANSWERS Miscellaneous
DYING WITHOUT A WILL Father died without any will. He
leaves a wife and several children. leaves a wife and severel children.

1. What pertion of the land property
2. can mother claim by law? What portion

of the money, stoci, implements, and | househ ld furniture can she claim, Clan |
| :--- |
| one heir recive his portion before the |
| others, that is to say, pive or sex | others, that is to say, five or six months

before the rest do?
Cntario Cntario.
Ans -1 and 2. The widow may either
and take her dower (that is, a third of the
lands for li.e), and a third, absolutely, absolutely, of the entire estate, real and
personal. 3. Generally speaking: no. FORMS FOR MILK RECORDS AND SERVICE.
or blank milk-weight forms tor keeping milk records, and do they cost anything:
and do those who get them have to make a report? do you apply to for blank
2. Who do
service forms ins.-1. Apply to Prof. J. H. G. Grisdale. Central Experimental Farm, Ottawa
There is no charge for the forms, but we There is no charge for the forms. hut we
understand it is expected that those who use them shall report.
2. Accountant National Live-stock Records, Department Agriculture, Ottawa
ACCIDENT TO EMPLOYFEF ACCIDENT TO EMPLOYEE.
I hired a married man for the year I hired a married man for the year at
$\$ 250$ per year. with his board, but in
the winter the man was cutting wood with me in the bush and accidentally cut
wis foot with the axe, and was nine days at the house. 1 make him put in the nine

1. Can 1 days he lost? 2. Can can 1 make hit out of his way for his board 4. Can he recoter from me in the courts the nine days he has worked over
his year, meaning the nine days te put
w ,

Ans. $-1,2,3$, and 4 No.
HUNTING AND HOUNDS. 1. Have persons the privilege of shoot
ing on a farmer's property without his 2. Can they also use hounds?
3. How can a armer from bringing hounds on his property
when hounds have. on difterent occasions "orried sheep in the nei hhborhood?
4. Could he shoot then nt si sht, if not
accommuied the accompanied by their owner, if he posted
notices to that effect notice not to do so.
3.
The farmer should give notice as (:ame and at icheries Act (1907).

1. Protal) not. See \|evised Statutes
of FLUES FOR RUTHERFORD VEN TILATION SYSTEM


GOOD TO THE LAST DROP




 Stoneycroft A yrshires Choice young bulls and beifers of the very best breed-
ing, combining show and dairy quality. Large Improved Yorkshire Pliss from imported sired
Stoneveroft Stock Farm, Ste. Anne de Bellevse, Que.


 All Kred frun the deeport-miling sirains. Vernon. Ontario Ayrshires from \& Prizewimming Mert

 BURN $-I D E$ A YRSHIRES


 HOWGLEN AYHSHIRES!|CATTLE AND SHEEP LABELS For sale: 75 purebrad registered Ayrshires. all
ages: prizewinners: many imported. Apply to AIIAN P RIUF Fustio Ouaber




 Hickory Hill Stock Farm,
Dandas Station and delegraph. DYMENT.
clapolson. Ont
G. JAMES,

## Brampton Jerseys

B. H. BULL \& SON

BRAMPTON, ONT

| Maple Villa 0xfords, Yorkshires <br> The demand for Ontord lhwe sheep and York Galce hava been the burt ever had have rity for wi.l. -ate in pig. The e will certainly give satis. J. a. Cerswell. bind iead p. o ontario | THANKS TO CUSTOMERS! We fult'y appreciate the many kind wods of commendation of Sheep and Barley hipp d on mail maken us toet rather gonlt aยa 11 , as in past seasons. Kindl accept of our heartiest tha $k$ s J. \& D. J Campbrll. Fairview Farm. Woodville, Ont. |
| :---: | :---: |
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|  |  |
|  | clarfitllu buy hion or th Champion cota SIO C K woid floch ol America. 1900 Wiffereat F A R M! heade All of firstcilass quality, and |
| PORTED HORNED DORSEIS |  |
|  |  |
|  | Oxford Down Sheep, Shor thern cat Hoss. - Present offering: Lambsot either sex. Fox |
|  |  |
|  |  |
| SOUTHDOWNS AND COLLIES. |  |
|  |  |  |
|  |  |

Please Mention The Farmer's Advccate

## BRONCHITIS

Bronchitis is generally the result of a oold ased by exposure to wet and inolemon hatory affection of the bronchial tuben.
The Symptoms are tightness acrome the chest, sharp pains and a difficulty in first white, but later of a greenish of jellowish color. Neglected Bronchitirin one the most general causes of Consumption


Mra. D. D. Millor, Allandalo, Ont, Wrood's Norway Pine Syrup for my litule firl who had Bronchitis from wheored to th other, but it was not long until wo could see the effeot your medicine had on
That was last winter when wo lived in Toronta.
Sho had a bed cold thie winter, bet in Wood's Norway Pine Syrup, I triod a home Wedo recoipt which I got from a neighbor along., My husband highly praisoes 'Dr. of it is always kept in the house."
The price of Dr. Wood's Norway Pine oyrup is 25 conte por bottle . It in put up allow yollow wrapper, three pine treen the to many subetitutes of tho original "Nor*ey Pion Syrup.


QUESTIONS AND ANSWERS Miscellaneous.

Share of tenant and land


EWGASTLE IAMWORTHS, SHORIHORNS PINE GROVE BERKSHIRES


 sale J. Featherstone \& Son, Streetsville. Ont

Hilton Stock Farm Masselms and|MAPLE GROVE YORKSHIRES!



## Hundreds of Buildings Unroofed

HEAVY STORM WIDESPREAD ALL OVER ONTARIO. DOES GREAT DAMAGE.
"Safe Lock" Shingles
one roof reported damaged
one roof reported damaged.
The heavy wind storm of April 8th, which extended all over Ontario, is estimated to have unroofed hundreds of buildings in various parts of the Province.
severity.

Roofs seemed to be the special toy of the wind, and immense damage Roofs seemed to be the
from this source was sustained.
An interesting yet instructive incident of the storm, is that not so much
as the loss of a single Safe Lock Shingle has been reported. An enquiry at as the loss of a single Safe Lock Shingle has been reported. An enquiry at
the Head Office of the Metal Shingle \& Siding Co., Limited, Preston, Ontario, the Head Office of the Metal Shingle \& Siding Co., Limited, Preston, Ontario,
brought out the information that the shops were working night and day to brought out the information that he shops were working night and
replace roofs of other makes that had been carried away by the high winds.


Metal Built Residence in Preston, which $\begin{gathered}\text { Storm-resistlage Qualities. }\end{gathered}$
We have made careful enquiry," said Mr. Dolph, president of the
no company, Lock Shingles.
"The reason, as I take it, iss," he went on to say, "that Safe Lock
Sbingles are the only shingles that" actually lock on all four sides. Other Shingles are the only shingles that actually lock on all four sides. Other
metal shingles fasten at top and bottom, but the sides are only held by one metal shingles fasten a groove in the other. The wind can easily get under such a shingle and rip it off. Once started, the whole roof will go. Indeed,
we know of some instances in which roofs of this style were torn off, although we know of some instances in which roost ors ago.
"I believe it is absolutely impossible for any wind storm to unroof a
house covered with Safe Lock Shingles. The wind would destroy the build ing first." Mr. Dolph produced a photograph of a residence in Preston, which was
right in the storm center. This building is not only covered with Safe Lock right in the storm center. This building is not only covered with Sare toing
Shingles, but is made entirely of stamped metal siding, porch and everything
except the veranda railing. It clearly demonstrated the storm-resisting except the veranda railing. It clearly demonstrated
qualities of Safe Lock roofing and metal construction.


Metal Buill Barn. which Defied Thursday's Storm,
Another photograph showed a barn near St. Thomas, built in an exposed The result of this experience is convincing. It is clear that metal
shingles should lock on all four sides to be wind-proof, and the only shingles that do so are the "Safe Lock." lightning guarantee with every Safe Lock roof. Those of our readers inter
ested should send to the
Metal Shingle \& Siding Co., Ltd.
PRESTON, ONTARIO, and MONIREAL, QUEBEC,


| HERE ARE |
| :---: |
| CESSARY AND |
| - |
| 1st. National Cream Separators. Noted <br> for their perfect warkmanship, easy running and general satisfactory work <br> The durability Separators. <br> if you would sow good seed and gain <br> 3rd. The Asplinwall Potato Planter and Sprayer. Necessary to s and grow potatoes profitably <br> 4th. The Grison Gasopline Engine that <br> Another economical, valuable and con <br> enient power machine. Just what <br> 5th. The Maple Leaf Sewins Machines. A perfect beauty, relrable, and the kind you will enjoy. Send for prices and $\qquad$ <br> best of their kind, and we <br> 6th. The Mamilton Patent Extension <br> Ladder. New, and the right buy and sell. Agents wanted. <br> Your order or inquiry will receive courte <br> THE T. C. ROGERS CO'Y <br> Wholesale Agents. GUELPH, ONT. |
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The Last Great West Wheat Fields of Canada
South Africa Veterans' Script for sale, entitling the purchaser to select 320 acres of land for Homesteading. No registration or patent fees required. This is the opportunity of the day. Prices and particulars on application
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way rates, etc

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flose Southworth,
BROOKS' NEW CURE


Con Frut E Vortethes
Can fruit d egatina
There's MONEY in it.
$=\int \quad$ - $\begin{aligned} & \text { For proof that fits can } \\ & \text { be cured. write to }\end{aligned}$

 monizls in one year. Sole propitors:
Trench's Remedles, DAHLIAS


100 Men Wanted


Ce bia Hay Press Co'y kingsville, ont.

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Easy to Erect, Durable, Cheap

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THE FA VORITES OF THEM ALL,
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We defy any engine on the market We defy any can produce a machine with so many good points. Power is guaranteed with
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and get wise.
Ont. Wind Engine \& Pump Co., Ltd. PLEASE MENTION THIS PAPER.

## Do you realize exactly what a telephone means to you, and at what little cost you can have an efficient service-

THVE you ever gone carefully into the adrantages of having a telepione on your tarm?
Have you ever considered what help it would be to you? What money and wory it would bave jou?
Let us juat see what it does mean to you?

When you want something from town-a now 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 requires a special explanationunder ordinary ciroumstances 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 produets when prices are highest.

Tust 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 ease of fire, violence or accidents.
Haven't there been 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 telephone is worse than none.


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Write us and say you are interested getting the right telephorie service in your community, and we will send you full particulars. Ask for Bulletin No. 1216, and we will send you detailed partioulars.

Write to-day.

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